Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Type I Data Package

Prepared for:

URS Corporation
PO Box 203970
Austin TX 78720

Project: SSFL-Chemical Soil Background Study
Soil and Water Samples
Collected on 07/08/11

SDG# USF03

GROUP	SAMPLE NUMBERS
1255436	6339368-6339388, 6339390

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Dana M Kauffman **Date:** **08/26/2011**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Nicole Maljovec at Ext. 1537.

Total Number of Pages 3033

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Sample Reference List for SDG Number USF03 with a Data Package Type of I

11312 - URS Corporation

Project: SSFL-Chemical Soil Background Study

Lab Sample Number	Lab Sample Code	Client Sample Description
6339368	15S05	WRBS0015S005 Soil
6339369	16S-5	WRBS0016S005 Soil
6339370	17S05	WRBS0017S005 Soil
6339371	18S05	WRBS0018S005 Soil
6339372	19S05	WRBS0019S005 Soil
6339373	20S05	WRBS0020S005 Soil
6339374	21S05	WRBS0021S005 Soil
6339375	74S05	WRBS0074S005 Soil
6339376	74S45	WRBS0074S045 Soil
6339377	82S05	WRBS0082S005 Soil
6339378	82S05	WRBS0082S005 Matrix Spike Soil
6339379	82S05	WRBS0082S005 Matrix Spike Dup Soil
6339380	82S05	WRBS0082S005 Duplicate Soil
6339381	82S05	WRBS0082S005 Soluble Spike Soil
6339382	82S05	WRBS0082S005 Insoluble Spike Soil
6339383	82S05	WRBS0082S005 Post Digestion Spike Soil
6339384	82S05	RLQQS00003 RL LCS Soil
6339385	82S40	WRBS0082S040 Soil
6339386	87S05	WRBS0087S005 Soil
6339387	87S40	WRBS0087S040 Soil
6339388	EBQ03	EBQW00003 Water
6339390	TBQ04	TBQW00004 Water

acct# 11312 Cup# 1255436 sample# 6339368-90

CHAIN of CUSTODY

Page 1 of 2

Lancaster Laboratories
2430 New Holland Pike
Lancaster, PA 17601
717.656.2300

Client: URS Corporation
915 Wilshire Blvd, Suite 700
Los Angeles, California 90017

Project Manager: Tom Dolan

Project: Santa Susana Field Laboratory - Chemical Soil Background Study

Telephone No.: 213-996-2200
Fax No.: 213-996-2456
Email: Tom_Dolan@urscorp.com

Method of Shipment: DYNAMEX

Special Instructions:
TRIP BLANK TBQW00005 IS FOR EQUIPMENT BLANK COOLER
TBQW00004 IS FOR ~~ALL~~ COOLER CONTAINING ALL SAMPLES TO BE ANALYZED FOR ALCOHOLS

3 COOLERS TOTAL

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil / Water	Sampling Date	Sampling Time	PAHs, Phthalates by EPA 8270C, 8270C (SIM)	Dioxins/Furans by EPA 1613B	Pesticides by 8081A	Herbicides by EPA 8151A	Methanol/Ethanol by EPA 8015	Cyanide by EPA 9012B	Formaldehyde by EPA 8315/ASTM D6303	Metals by EPA 6010B/6020A	Mercury by EPA 7471A/7470A	Hexavalent Chromium by EPA 7199/7164A	Fluoride EPA 300.0/9056A	Nitrate by EPA 353.2 Mod./EPA 300.0	Perchlorate by EPA 6850/6860	Grain Size by ASTM D421/D422	Moisture Content by EPA 160.3			QA/QC Split	MS / MSD
WRBSOO15S005		4	S	7/8/11	0809	X	X	X	X		X	X	X	X	X	X	X	X	X	X				
WRBSOO16S005		3	S		0825						X	X	X	X	X	X	X	X	X	X				
WRBSOO17S005		4	S		0849	X	X	X	X		X	X	X	X	X	X	X	X	X	X				
WRBSOO18S005		3			0907	X					X	X	X	X	X	X	X	X	X	X				
WRBSOO19S005		4			0918	X	X	X	X		X	X	X	X	X	X	X	X	X	X				
WRBSOO20S005		3			0932						X	X	X	X	X	X	X	X	X	X				
WRBSOO21S005		4			1008	X	X	X	X		X	X	X	X	X	X	X	X	X	X				
WRBSOO74S005		4			1108	X	X	X	X		X	X	X	X	X	X	X	X	X	X				
WRBSOO74S015		4			1115	X				X	X	X	X	X	X	X	X	X	X	X				
WRBSOO67S005		12			1232	X	X	X	X		X	X	X	X	X	X	X	X	X	X				X
WRBSOO82S040		4			1254					X	X	X	X	X	X	X	X	X	X	X				
WRBSOO87S005		4			1028	X	X	X	X		X	X	X	X	X	X	X	X	X	X				
WRBSOO87S040		4			1050					X	X	X	X	X	X	X	X	X	X	X				
EBQW00003		15	W		1345	X	X	X	X	X	X	X	X	X	X	X	X	X							

Sample Received Intact: (Yes) No

Temperature Received: 3.1-6.4°C

Custody Seal Intact? (Yes) No None

Relinq. by sampler (Sign & Print Name): ERICH WEBER — 7/8/11 1452

Received by (Sign & Print Name): DOUGLAS I. SHEEKS

Relinquished by: 7/8/11 1619

Received by: CUSTODY SEAL #53 7/8/11

Relinquished by:

Received by:

Relinquished by:

Received by laboratory: [signature] Date 7/9/11 Time 9:05

Lab Work No.

2 EMW 7/9/11

2555

acct#11312 Cup#1255436 sample#6339368-90

Lancaster Laboratories

2430 New Holland Pike
Lancaster, PA 17601
717.656.2300

CHAIN of CUSTODY

Page 2 of 2

Client: URS Corporation
915 Wilshire Blvd, Suite 700
Los Angeles, California 90017

Project Manager: Tom Dolan

Project: Santa Susana Field Laboratory - Chemical Soil Background Study

Telephone No.: 213-996-2200
Fax No.: 213-996-2456
Email: Tom_Dolan@urscorp.com

Method of Shipment: DYNAMAX

Special Instructions:

Sample I.D.	Lab Sample No.	No. of Containers	Matrix: Soil / Water	Sampling Date	Sampling Time	PAHs, Phthalates by EPA 8270C, 8270C (SIM)	Dioxins/Furans by EPA 1613B	Pesticides by 8081A	Herbicides by EPA 8151A	Methanol/Ethanol by EPA 8015	Cyanide by EPA 9012B	Formaldehyde by EPA 8315/ASTM D6303	Metals by EPA 6010B/6020A	Mercury by EPA 7471A/7470A	Hexavalent Chromium by EPA 7199/7164A	Fluoride EPA 300.0/9056A	Nitrate by EPA 353.2 Mod./EPA 300.0	Perchlorate by EPA 6850/6860	Grain Size by ASTM D421/D422	Moisture Content by EPA 160.3	QA/QC Split	MS / MSD
TBQW10000F		2	W	7/8/11	0730					X												
TBQW10000G		2	W	7/8/11	0730					X												

FOR EQUIP. BLANK COOLER

FOR COOLER W/ LOCATIONS FOR ALCOHOL ANALYSES

Sample Received Intact: (Yes) No	Temperature Received: 3.1-6.4 °C	Custody Seal Intact? (Yes) No None	
Relinq. by sampler (Sign & Print Name): ERICH WEAVER	7/8/11 1453	Received by (Sign & Print Name): DOUGAS T. SHIEVERS	Lab Work No.
Relinquished by:	7/8/11 1619	Received by: CUSTODY LOCK #53	7/8/11
Relinquished by		Received by	
Relinquished by		Received by laboratory	Date: 7/9/11 Time: 9:05

Lancaster Laboratories

Environmental Sample Administration
Receipt Documentation Log

Client/Project: URS

Date of Receipt: 7/9/11

Time of Receipt: 9:05

Source Code: 501

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	1366 9422	6.4	ST TB	WI	N	B	*4.7 - 11.2°C
2	9422	3.1	TB	↓	Y	↓	
3	↓	5.7	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

* Cooler 1 Samples rcvd high temp: EBQW00003 (02, 08, 1 unpreserved amber, 32, 2 HCl #1 unpreserved vial, 1 unpres. plastic) and 2 trip blanks - TBQW00005

WRBS0087 S040 Samples Say 10:40

WRBS0021 S005 Samples Say 10:03

Unpacker Signature/Emp#: Katie Kantlehner 2114 **Date/Time:** 7/9/11 10:10

USF03 0004

Issued by Dept. 6042 Management

2174.06

Bottle Code	Expected pH	Actual pH	Adjusted pH	Lot #	Preservative	Lab Submitted?	Sub-contracted?	Preservation Code	Date Entered
Jesse Mertz									
SDG: USF03									
Group: 1255436									
Sample: 6339388									
008A	<2	<2			HNO3	Y	N	PK - Original container checked - pH is within correct range. (No preservative was added)	07/10/2011
002A	>12	>12			NaOH	Y	N	PK - Original container checked - pH is within correct range. (No preservative was added)	07/10/2011

Check	Present?	Corrective Substance	Lot #
Sulfide	N		
Res.Cl.	N		

6339388 USF03

* linked sample

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00259 Mercury

The solution resulting from the mercury digestion is analyzed by Cold Vapor AA.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 7470A, September 1994

00159 Mercury

The solution resulting from the mercury digestion is analyzed by Cold Vapor AA.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 7471A, September 1994

01848 WW SW846 ICP Digest (tot rec)

The sample is digested with nitric acid and hydrochloric acid.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3005A, July 1992

11026 SW SW846 ICP-MS Digest

The sample is digested with nitric acid and hydrogen peroxide.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3050B, December 1996

06050 ICP/MS SW-846 Water Digest

The sample is digested with nitric and hydrochloric acid.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3020A, July 1992

05713 WW SW846 Hg Digest

The sample is heated at 95 c with nitric acid, sulfuric acid, potassium persulfate, and potassium permanganate. Excess potassium permanganate is reduced with sodium chloride/hydroxylamine hydrochloride. Mercuric ions are reduced to mercury metal using stannous chloride.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 7470A, September 1994

05711 SW SW846 Hg Digest

The sample is heated at 95 c with nitric acid, sulfuric acid, potassium persulfate, and potassium permanganate. Excess potassium permanganate is reduced with sodium chloride/hydroxylamine hydrochloride. Mercuric ions are reduced to mercury metal using stannous chloride.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 7471A Modified, September 1994.

01743 Aluminum
01643 Aluminum
08014 Boron
07914 Boron
01750 Calcium
01650 Calcium
01654 Iron
01754 Iron
01656 Lithium

01756 Lithium
01757 Magnesium
01657 Magnesium
06958 Manganese
07058 Manganese
10145 Phosphorus
10143 Phosphorus
01762 Potassium
01662 Potassium
01767 Sodium
01667 Sodium
07968 Strontium
08068 Strontium
06969 Tin
07069 Tin
06970 Titanium
07070 Titanium
10146 Zirconium
10144 Zirconium

The solution resulting from the metals digestion is analyzed by Trace ICP.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 6010B, December 1996.

06124 Antimony
06024 Antimony
06025 Arsenic
06125 Arsenic
06126 Barium
06026 Barium
06127 Beryllium
06027 Beryllium
06128 Cadmium
06028 Cadmium
06031 Chromium
06131 Chromium
06132 Cobalt
06032 Cobalt
06033 Copper
06133 Copper
06035 Lead
06135 Lead
06038 Molybdenum
06138 Molybdenum
06139 Nickel
06039 Nickel
06141 Selenium
06041 Selenium
06142 Silver
06042 Silver
06045 Thallium
06145 Thallium
06148 Vanadium
06048 Vanadium
06149 Zinc
06049 Zinc

The solution resulting from the metals digestion is analyzed by ICP/MS.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 6020, September 1994.

05708 SW SW846 ICP Digest

The sample is digested with nitric acid, hydrochloric acid and hydrogen peroxide.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3050B, December 1996

01363 OC Pesticides in Solids
00177 OC Pesticides in Water

The sample is solvent extracted and exchanged to hexane. Florisil cleanup is performed to reduce potential matrix interferences. The extract is analyzed using gas chromatography on two capillary columns (primary and confirmation) with electron capture detectors.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8081A, December 1996.

00816 Water Sample Herbicide Extract

The water sample is hydrolyzed and solvent cleanup is performed. The sample is then acidified and solvent extracted. The chlorophenoxy acids, phenols and related compounds are converted to methyl esters using derivatization with diazomethane The extract is exchanged to hexane and florisil cleanup is performed to minimize interference.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8151A, December 1996.

11118 Pesticide Screen Waters Ext

The sample is solvent extracted and exchanged to hexane. Florisil cleanup is performed to reduce potential matrix interferences. The extract is analyzed using gas chromatography on two capillary columns (primary and confirmation) with electron capture detectors.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3510C, December 1996

01013 Formaldehyde Extraction

A 100 ml water aliquot is buffered to pH 5 and derivatized with 2,4-dinitrophenylhydrazine (DNPH). The sample is then extracted using solid phase extraction techniques. The extract is eluted with acetonitrile.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8315A, December 1996.

10407 Herb water 8151A Master

The sample is hydrolyzed, acidified, and solvent extracted. The chlorophenoxy acids, phenols and related target compounds are converted to the methyl esters. Florisil cleanup is performed to reduce potential matrix interferences. The extract is analyzed using gas chromatography on two capillary columns (primary and confirmation) with electron capture detectors.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8151A, December 1996.

04144 Formaldehyde in Water

The sample is buffered, derivatized with 2,4-dinitrophenylhydrazine (DNPH), and solvent extracted. The extract is analyzed by reverse phase high performance liquid chromatography (HPLC) with a UV detector.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8315A, December 1996.

04173 Formaldehyde in Solids

The soil is put through the leachate procedure,buffered with 2,4-dinitrophenylhydrazine (DNPH), and solvent extracted. The extract is analyzed by reverse phase high performance liquid chromatography (HPLC) with a UV detector.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8315A, December 1996.

10401 Herbicide soils 8151A Master

The sample is acidified and solvent extracted. The extract is then hydrolyzed, solvent washed, and acidified for final extraction. The chlorophenoxy acids, phenols and related target compounds are converted to the methyl esters using diazomethane. Florisil cleanup is performed to reduce potential matrix interferences.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8151A, December 1996.

04181 Herbicide Soil Extraction

The sample is acidified and solvent extracted. The extract is then hydrolyzed, solvent washed, and acidified for final extraction. The chlorophenoxy acids, phenols and related target compounds are converted to the methyl esters using diazomethane. Florisil cleanup is performed to reduce potential matrix interferences.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Methods 3550B & 8151A, December 1996.

05876 Formaldehyde Solid Extraction

The soil is leached using the TCLP leachate procedure. A 100 ml aliquot is then buffered to pH 5 and derivatized with 2,4-dinitrophenylhydrazine (DNPH). The sample is then extracted using solid phase extraction techniques. The extract is eluted with acetonitrile.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8315A, December 1996.

11134 Pesticide Screen Soils Ext

Pesticides are extracted from the soil using sonic probe with 1:1 hexane and acetone. The extract is then concentrated and exchanged to hexane. Florisil cleanup is performed to minimize matrix interferences.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3550B, December 1996.

06386 Perchlorate in Water LC/MS/MS
06568 Perchlorate Soil Prep

Water samples are filtered through a 0.45-um syringe filter, followed by direct injection into a LC/MS/MS system followed by multiple reaction monitoring. Quantitation is performed using an isotopic internal standard.

USF03 00009

Reference: Test Methods for Evaluating Solid Waste, EPA SW-846, Method 6850, 1/2007.

06557 Perchlorate in Soil LC/MS/MS

Soil samples are extracted with water, then filtered through a 0.45-um syringe filter and analyzed by LC/MS/MS. Quantitation is performed using an isotopic internal standard.

Reference: Test Methods for Evaluating Solid Waste, EPA SW-846, Method 6850, 1/2007.

10479 BNA Soil Extraction SIM
00381 BNA Soil Sonication

The sample aliquot is extracted using sonic probe with 1:1 methylene chloride and acetone. The extract is concentrated prior to analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3550B, December 1996.

00813 BNA Water Extraction
10466 BNA Water Extraction SIM

The sample aliquot is extracted with methylene chloride by either separatory funnel or liquid/liquid apparatus. Extraction is performed at both a pH of 11 and 2. The extract is concentrated prior to analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3510C, December 1996

10138 Selected SVOAs in soil by SIM
10137 Selected SVOAs in water by SIM

The sample extract is analyzed by capillary column Gas Chromatography/Mass Spectrometry with Selected Ion Monitoring (SIM).

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8270C (SIM), December 1996.

04688 TCL SW846 Semivolatiles Soil
04678 TCL SW846 Semivolatiles/Waters

The sample extract is analyzed by capillary column Gas Chromatography/Mass Spectrometry.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8270C, December 1996

01504 Fluoride
00368 Nitrate Nitrogen

A small volume of sample is introduced into an ion chromatograph. The anions are then separated and measured by a system consisting of a guard column, separator column, suppressor, and conductivity detector.

Reference: Method 300.0, Methods for Chemical Analysis of Water and Wastes USEPA 600, Revision 2.1, 1993

05895 Total Cyanide (solid)
08255 Total Cyanide (water)

During the distillation step, complex cyanides are converted to hydrogen cyanide which readily reacts with chloramine T. Simple cyanides are converted to cyanogen chloride by reaction with chloramine T. This reacts with pyridine and barbituric acid to give a red colored complex determined colorimetrically.

USF03 0018

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 9012A, December 1996.

05896 Cyanide Solid Distillation
08256 Cyanide Water Distillation

The sample is acidified and distilled. Cyanide is released as hydrogen cyanide and is absorbed in a sodium hydroxide solution.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 9012A, December 1996.

01352 Deionized Water Extraction

A measured amount of sample is mixed with deionized water. The slurry is mixed for approximately 10 minutes and then filtered through a 0.45 um filter.

Reference: Method 300.0, Methods for Chemical Analysis of Water and Wastes USEPA 600, Revision 2.1, 1993

06467 Hexavalent Chromium (water)
05892 Hexavalent Chromium by IC

A measured volume of sample is introduced into the ion chromatograph using a well buffered ammonium sulfate, ammonium hydroxide eluent. A guard column removes organics from the sample before hex chrome is separated on an anion exchange separator column. Postcolumn derivatization of the Cr(VI) with diphenylcarbohydrazide is followed by detection of the colored complex at 530 nm.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 7199, December 1996.

07332 Fluoride by IC (solid)
07336 Nitrate Nitrogen by IC (solid)

The sample undergoes a deionized water extraction. A volume of the resulting filtrate is then introduced into an ion chromatograph. The anions are then separated and measured by a system consisting of a guard column, separator column, suppressor, and conductivity detector.

Reference: Method 300.0, Methods for Chemical Analysis of Water and Wastes USEPA 600, Revision 2.1, 1993

00394 pH

A 1:1 slurry is prepared. The activity of hydrogen ions in the supernatant is measured using a glass electrode and a reference electrode.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 9045C Modified, September 1994.

01821 Oxidation Reduction Potential

The oxidation-reduction potential is measured using a platinum electrode and a reference electrode. The potential reported is the electromotive force between the platinum electrode and the reference electrode, referred to the standard hydrogen scale.

Reference: Annual Book of ASTM Standards, Method D 1498

07103 Grain Size to 1 um

A thoroughly dried soil is ground using a rubber pestle to break the aggregations. The ground soil is then sieved to determine percentage of particles passing sizes in the range 75 - 2.36 mm. Particles finer than 2.36 mm are soaked in a dispersing agent for 16 hours and the particle sizes from 0.075 mm - 0.001 mm are determined by a sedimentation process using a hydrometer. The soil from the hydrometer test is dried and then sieved to determine percentage of particles passing sizes in the range 1.18 - 0.075 mm.

Reference: ASTM D422, Standard Test Method for Particle-Size Analysis of Soil

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02432 Hexavalent Cr Extraction - IC

The sample is digested using a 3% sodium carbonate - 2% sodium hydroxide solution and then filtered through a 0.45 micron filter.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3060A, December 1996

00380 Solids Extraction for Alcohols

The sample is extracted by shaking it in water using a ratio of 1 to 1.

Reference: Test Methods for Evaluating Solid Wastes SW-846, Method 8015B, December 1996

10501 Alcohols in Soil

Soil samples are extracted into water. The water is analyzed using gas chromatography on a capillary column with flame ionization detection.

Reference: Test Methods for Evaluating Solid Wastes SW-846, Method 8015B, December 1996

06624 Alcohol by Direct Injection

Samples are directly injected into a GC and analyzed using an FID. Detection and quantitation are performed by comparing the sample response to the response and retention time of the standards.

Reference: Test Methods for Evaluating Solid Wastes SW-846, Method 8015B, December 1996

00111 Moisture
00118 Moisture
00121 Moisture Duplicate

A well-mixed sample is heated by reflected infrared in an aluminum pan and dried to a constant weight. The decrease in weight in weight after drying is calculated as the moisture content.

Reference: Method 160.3 (modified), Methods for the Chemical Analysis of Water and Wastes USEPA 600.

Lancaster Laboratories

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

URS Corporation
PO Box 203970
Austin TX 78720

December 13, 2011

Project: SSFL-Chemical Soil Background Study

Submittal Date: 07/09/2011
Group Number: 1255436
SDG: USF03
PO Number: 253207
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
WRBS0015S005 Soil	6339368
WRBS0016S005 Soil	6339369
WRBS0017S005 Soil	6339370
WRBS0018S005 Soil	6339371
WRBS0019S005 Soil	6339372
WRBS0020S005 Soil	6339373
WRBS0021S005 Soil	6339374
WRBS0074S005 Soil	6339375
WRBS0074S045 Soil	6339376
WRBS0082S005 Soil	6339377
WRBS0082S005 Matrix Spike Soil	6339378
WRBS0082S005 Matrix Spike Dup Soil	6339379
WRBS0082S005 Duplicate Soil	6339380
WRBS0082S005 Soluble Spike Soil	6339381
WRBS0082S005 Insoluble Spike Soil	6339382
WRBS0082S005 Post Digestion Spike Soil	6339383
RLQQS00003 RL LCS Soil	6339384
WRBS0082S040 Soil	6339385
WRBS0087S005 Soil	6339386
WRBS0087S040 Soil	6339387
EBQW00003 Water	6339388
TBQW00004 Water	6339390

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO URS Corporation Attn: Tom Dolan

USF03 0013

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Lancaster Laboratories

REVISED

ELECTRONIC COPY TO	URS Corporation	Attn: Lily Bayati
1 COPY TO	Data Package Group	
ELECTRONIC COPY TO	URS Corporation	Attn: Steve Cole

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Strocko, Jr.
Manager

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit
N.D.	none detected
TNTC	Too Numerous To Count
IU	International Units
umhos/cm	micromhos/cm
C	degrees Celsius
meq	milliequivalents
g	gram(s)
ug	microgram(s)
ml	milliliter(s)
m3	cubic meter(s)

BMQL	Below Minimum Quantitation Level
MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units
NTU	nephelometric turbidity units
ng	nanogram(s)
F	degrees Fahrenheit
lb.	pound(s)
kg	kilogram(s)
mg	milligram(s)
l	liter(s)
ul	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Sample Description: WRBS0015S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339368
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:09 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

15S05 SDG#: USF03-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	17	350	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	N.D.		0.70	1.7	1
10138	Acenaphthylene	208-96-8	N.D.		0.35	1.7	1
10138	Anthracene	120-12-7	N.D.		0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.78	J	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	N.D.		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	N.D.		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	N.D.		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	12	J	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.3	19	1
10138	Chrysene	218-01-9	1.2	J	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	N.D.		0.70	1.7	1
10138	Diethylphthalate	84-66-2	N.D.		6.3	19	1
10138	Dimethylphthalate	131-11-3	N.D.		6.3	19	1
10138	Fluoranthene	206-44-0	1.9		0.70	1.7	1
10138	Fluorene	86-73-7	N.D.		0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	N.D.		0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	N.D.		0.70	1.7	1
10138	Naphthalene	91-20-3	N.D.		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.6	J	6.3	19	1
10138	Phenanthrene	85-01-8	0.79	J	0.70	1.7	1
10138	Pyrene	129-00-0	1.2	J	0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	N.D.		1.3	3.8	1
10401	Dalapon	75-99-0	N.D.		4.6	9.4	1
10401	2,4-DB	94-82-6	N.D.		5.2	5.2	1
10401	Dicamba	1918-00-9	N.D.		0.42	1.3	1
10401	Dinoseb	88-85-7	N.D.		0.84	2.5	1
10401	2,4-DP (Dichloroprop)	120-36-5	N.D.		0.84	1.8	1
10401	MCPA	94-74-6	440		79	260	1
10401	MCPP (Mecoprop)	93-65-2	N.D.		78	260	1
10401	2,4,5-T	93-76-5	N.D.		0.086	0.18	1
10401	2,4,5-TP	93-72-1	N.D.		0.078	0.18	1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.		630	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.		0.73	0.73	1
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

USF03 0016

*=This limit was used in the evaluation of the final result

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Sample Description: WRBS0015S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339368
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:09 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

15S05 SDG#: USF03-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	N.D.	0.069	0.17	1
01363	Alpha BHC	319-84-6	N.D.	0.036	0.17	1
01363	Beta BHC	319-85-7	N.D.	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	N.D.	0.036	0.17	1
01363	Chlordane	57-74-9	N.D.	0.84	3.6	1
01363	p,p-DDD	72-54-8	N.D.	0.069	0.36	1
01363	p,p-DDE	72-55-9	1.3	0.069	0.36	1
01363	p,p-DDT	50-29-3	1.1	0.069	0.36	1
01363	Delta BHC	319-86-8	0.076 J	0.038	0.17	1
01363	Dieldrin	60-57-1	N.D.	0.069	0.36	1
01363	Endosulfan I	959-98-8	N.D.	0.046	0.17	1
01363	Endosulfan II	33213-65-9	N.D.	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	N.D.	0.069	0.36	1
01363	Endrin	72-20-8	N.D.	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	N.D.	0.24	0.36	1
01363	Endrin Ketone	53494-70-5	N.D.	0.069	0.36	1
01363	Heptachlor	76-44-8	N.D.	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	N.D.	0.036	0.17	1
01363	Methoxychlor	72-43-5	N.D.	0.36	1.7	1
01363	Mirex	2385-85-5	N.D.	0.15	0.36	1
01363	Toxaphene	8001-35-2	N.D.	2.3	6.9	1
	Reporting limits were raised for endrin aldehyde and mirex due to interference from the sample matrix.					
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,000	6.20	20.5	1
07914	Boron	7440-42-8	11.0	0.369	5.13	1
01650	Calcium	7440-70-2	4,440	2.56	20.5	1
01654	Iron	7439-89-6	34,400	13.4	103	5
01656	Lithium	7439-93-2	46.0	0.636	2.05	1
01657	Magnesium	7439-95-4	11,100	0.451	10.3	1
06958	Manganese	7439-96-5	308	0.0369	0.513	1
10145	Phosphorus	7723-14-0	792	0.359	10.3	1
01662	Potassium	7440-09-7	5,340	11.6	51.3	1
01667	Sodium	7440-23-5	166	6.10	103	1
07968	Strontium	7440-24-6	38.6	0.0256	0.513	1
06969	Tin	7440-31-5	2.57 J	0.328	10.3	1
06970	Titanium	7440-32-6	1,460	0.0728	1.03	1
10146	Zirconium	7440-67-7	6.79	0.472	5.13	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102 J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.10	0.0829	0.414	2
06126	Barium	7440-39-3	89.2	0.110	0.414	2
06127	Beryllium	7440-41-7	0.575	0.0166	0.104	2
06128	Cadmium	7440-43-9	0.215	0.0456	0.104	2
06131	Chromium	7440-47-3	32.1	0.124	0.414	2
06132	Cobalt	7440-48-4	9.14	0.0207	0.104	2

USF03 6017

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0015S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339368
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:09 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

15S05 SDG#: USF03-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	10.4	0.0829	0.414	2
06135	Lead	7439-92-1	11.4	0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.436	0.0518	0.104	2
06139	Nickel	7440-02-0	16.3	0.104	0.414	2
06141	Selenium	7782-49-2	0.265 J	0.0601	0.414	2
06142	Silver	7440-22-4	0.0272 J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.332	0.0311	0.104	2
06148	Vanadium	7440-62-2	63.9	0.0228	0.104	2
06149	Zinc	7440-66-6	82.2	0.580	3.11	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.00890 J	0.00722	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.44	0.837	1.05	1
07336	Anions by 300.0 - Nitrate	14797-55-8	3.07	0.837	1.57	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	N.D.	0.209	1.05	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.186	0.515	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	371	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	99.9	0.50	1.0	1
07103	2.36 mm	n.a.	99.8	0.50	1.0	1
07103	1.18 mm	n.a.	98.5	0.50	1.0	1
07103	0.6 mm	n.a.	95.7	0.50	1.0	1
07103	0.3 mm	n.a.	93.8	0.50	1.0	1
07103	0.15 mm	n.a.	92.3	0.50	1.0	1
07103	0.075 mm	n.a.	83.5	0.50	1.0	1
07103	0.064 mm	n.a.	74.0	0.50	1.0	1
07103	0.05 mm	n.a.	50.0	0.50	1.0	1
07103	0.02 mm	n.a.	18.0	0.50	1.0	1
07103	0.005 mm	n.a.	6.0	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

USF03 9818

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0015S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339368
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:09 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

15S05 SDG#: USF03-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	pH by 9045C	n.a.	6.89	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
00111	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11193SLB026	07/24/2011 12:44	Linda M Hartenstine	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/15/2011 04:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/15/2011 23:47	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 12:07	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 05:03	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 06:01	Melissa McDermott	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 10:59	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0015S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339368
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:09 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

15S05 SDG#: USF03-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:15	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:05	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:15	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:15	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:15	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 17:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 19:24	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 19:24	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 18:01	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:08	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103A	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402A	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 0020

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*=This limit was used in the evaluation of the final result

Analysis Report

Lancaster Laboratories

Sample Description: WRBS0016S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339369
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:25 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

16S-5 SDG#: USF03-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.		620	1,500	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.		0.31	0.41	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		6.18	20.4	1
07914	Boron	7440-42-8	9.66		0.367	5.10	1
01650	Calcium	7440-70-2	4,810		2.55	20.4	1
01654	Iron	7439-89-6	30,900		13.3	102	5
01656	Lithium	7439-93-2	36.7		0.633	2.04	1
01657	Magnesium	7439-95-4	10,400		0.449	10.2	1
06958	Manganese	7439-96-5	335		0.0367	0.510	1
10145	Phosphorus	7723-14-0	888		0.357	10.2	1
01662	Potassium	7440-09-7	4,690		11.5	51.0	1
01667	Sodium	7440-23-5	130		6.07	102	1
07968	Strontium	7440-24-6	33.1		0.0255	0.510	1
06969	Tin	7440-31-5	2.43	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,230		0.0725	1.02	1
10146	Zirconium	7440-67-7	8.37		0.470	5.10	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0748	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.56		0.0809	0.404	2
06126	Barium	7440-39-3	77.4		0.107	0.404	2
06127	Beryllium	7440-41-7	0.484		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.223		0.0445	0.101	2
06131	Chromium	7440-47-3	32.6		0.121	0.404	2
06132	Cobalt	7440-48-4	7.74		0.0202	0.101	2
06133	Copper	7440-50-8	8.82		0.0801	0.400	2
06135	Lead	7439-92-1	14.3		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.316		0.0505	0.101	2
06139	Nickel	7440-02-0	13.2		0.101	0.404	2
06141	Selenium	7782-49-2	0.184	J	0.0586	0.404	2
06142	Silver	7440-22-4	0.0309	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.246		0.0303	0.101	2
06148	Vanadium	7440-62-2	59.5		0.0222	0.101	2
06149	Zinc	7440-66-6	79.5		0.561	3.00	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0155	J	0.00719	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.33		0.825	1.03	1
07336	Anions by 300.0 - Nitrate	14797-55-8	4.04		0.825	1.55	1

USF03 16821

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0016S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339369
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:25 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

16S-5 SDG#: USF03-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	N.D.	0.206	1.03	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.183	0.508	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	380	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	99.8	0.50	1.0	1
07103	2.36 mm	n.a.	98.5	0.50	1.0	1
07103	1.18 mm	n.a.	96.3	0.50	1.0	1
07103	0.6 mm	n.a.	92.6	0.50	1.0	1
07103	0.3 mm	n.a.	90.9	0.50	1.0	1
07103	0.15 mm	n.a.	88.9	0.50	1.0	1
07103	0.075 mm	n.a.	74.3	0.50	1.0	1
07103	0.064 mm	n.a.	61.5	0.50	1.0	1
07103	0.05 mm	n.a.	38.0	0.50	1.0	1
07103	0.02 mm	n.a.	11.5	0.50	1.0	1
07103	0.005 mm	n.a.	1.5	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	6.90	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
00111	Moisture Content by 160.3	n.a.	3.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

USF03 8822

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0016S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339369
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:25 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

16S-5 SDG#: USF03-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/15/2011 23:56	James H Place	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 05:16	Jenifer E Lewis	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:03	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:18	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:07	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:18	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:18	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:18	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 17:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 19:39	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 19:39	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 18:13	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:09	Venia B McFadden	1

USF03 0023

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0016S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339369
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:25 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
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Austin TX 78720

16S-5 SDG#: USF03-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103A	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402A	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 0024

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Lancaster Laboratories

Sample Description: WRBS0017S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339370
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:49 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

17S05 SDG#: USF03-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	N.D.		0.71	1.8	1
10138	Acenaphthylene	208-96-8	N.D.		0.35	1.8	1
10138	Anthracene	120-12-7	N.D.		0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	N.D.		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	N.D.		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.99	J	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	N.D.		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	N.D.		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	15	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	8.8	J	6.4	19	1
10138	Chrysene	218-01-9	0.91	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	N.D.		0.71	1.8	1
10138	Diethylphthalate	84-66-2	N.D.		6.4	19	1
10138	Dimethylphthalate	131-11-3	N.D.		6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.4	19	1
10138	Fluoranthene	206-44-0	1.1	J	0.71	1.8	1
10138	Fluorene	86-73-7	N.D.		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	N.D.		0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	N.D.		0.71	1.8	1
10138	Naphthalene	91-20-3	N.D.		0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	J	6.4	19	1
10138	Phenanthrene	85-01-8	N.D.		0.71	1.8	1
10138	Pyrene	129-00-0	0.86	J	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	N.D.		1.3	3.8	1
10401	Dalapon	75-99-0	N.D.		4.7	9.5	1
10401	2,4-DB	94-82-6	N.D.		7.3	7.3	1
10401	Dicamba	1918-00-9	N.D.		0.42	1.3	1
10401	Dinoseb	88-85-7	N.D.		0.85	2.5	1
10401	2,4-DP (Dichloroprop)	120-36-5	N.D.		0.85	1.8	1
10401	MCPA	94-74-6	N.D.		89	270	1
10401	MCPP (Mecoprop)	93-65-2	N.D.		80	270	1
10401	2,4,5-T	93-76-5	N.D.		0.087	0.18	1
10401	2,4,5-TP	93-72-1	N.D.		0.080	0.18	1
	Reporting limits were raised for 2,4-DB and MCPA due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.		640	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.		0.43	0.43	1
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	N.D.		0.070	0.18	1
01363	Alpha BHC	319-84-6	N.D.		0.036	0.18	1
01363	Beta BHC	319-85-7	N.D.		0.064	0.18	1

USF03 0025

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Lancaster Laboratories

Sample Description: WRBS0017S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339370
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:49 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

17S05 SDG#: USF03-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	N.D.		0.036	0.18	1
01363	Chlordane	57-74-9	N.D.		0.85	3.6	1
01363	p,p-DDD	72-54-8	N.D.		0.070	0.36	1
01363	p,p-DDE	72-55-9	0.27	J	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.42		0.070	0.36	1
01363	Delta BHC	319-86-8	0.10	J	0.038	0.18	1
01363	Dieldrin	60-57-1	N.D.		0.070	0.36	1
01363	Endosulfan I	959-98-8	N.D.		0.047	0.18	1
01363	Endosulfan II	33213-65-9	N.D.		0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	N.D.		0.070	0.36	1
01363	Endrin	72-20-8	N.D.		0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	N.D.		0.070	0.36	1
01363	Endrin Ketone	53494-70-5	N.D.		0.070	0.36	1
01363	Heptachlor	76-44-8	N.D.		0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	N.D.		0.036	0.18	1
01363	Methoxychlor	72-43-5	N.D.		0.36	1.8	1
01363	Mirex	2385-85-5	0.28	J	0.070	0.36	1
01363	Toxaphene	8001-35-2	N.D.		2.3	7.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,300		6.41	21.2	1
07914	Boron	7440-42-8	12.2		0.381	5.29	1
01650	Calcium	7440-70-2	4,690		2.65	21.2	1
01654	Iron	7439-89-6	39,200		13.8	106	5
01656	Lithium	7439-93-2	51.3		0.657	2.12	1
01657	Magnesium	7439-95-4	10,000		0.466	10.6	1
06958	Manganese	7439-96-5	389		0.0381	0.529	1
10145	Phosphorus	7723-14-0	555		0.371	10.6	1
01662	Potassium	7440-09-7	6,740		12.0	52.9	1
01667	Sodium	7440-23-5	136		6.30	106	1
07968	Strontium	7440-24-6	47.1		0.0265	0.529	1
06969	Tin	7440-31-5	2.48	J	0.339	10.6	1
06970	Titanium	7440-32-6	1,650		0.0752	1.06	1
10146	Zirconium	7440-67-7	6.12		0.487	5.29	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0791	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.27		0.0856	0.428	2
06126	Barium	7440-39-3	116		0.113	0.428	2
06127	Beryllium	7440-41-7	0.732		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.219		0.0471	0.107	2
06131	Chromium	7440-47-3	32.5		0.128	0.428	2
06132	Cobalt	7440-48-4	10.4		0.0214	0.107	2
06133	Copper	7440-50-8	17.4		0.0815	0.407	2
06135	Lead	7439-92-1	10.6		0.0109	0.214	2
06138	Molybdenum	7439-98-7	0.496		0.0535	0.107	2
06139	Nickel	7440-02-0	20.2		0.107	0.428	2

USF03 0026

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Lancaster Laboratories

Sample Description: WRBS0017S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339370
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:49 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

17S05 SDG#: USF03-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06141	Selenium	7782-49-2	0.286 J	0.0620	0.428	2
06142	Silver	7440-22-4	0.0272 J	0.0152	0.107	2
06145	Thallium	7440-28-0	0.391	0.0321	0.107	2
06148	Vanadium	7440-62-2	66.1	0.0235	0.107	2
06149	Zinc	7440-66-6	111	0.570	3.06	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0108 J	0.00733	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.48	0.856	1.07	1
07336	Anions by 300.0 - Nitrate	14797-55-8	2.75	0.856	1.60	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	0.493 J	0.214	1.07	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.180	0.500	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	403	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	100	0.50	1.0	1
07103	2.36 mm	n.a.	99.9	0.50	1.0	1
07103	1.18 mm	n.a.	99.7	0.50	1.0	1
07103	0.6 mm	n.a.	98.6	0.50	1.0	1
07103	0.3 mm	n.a.	97.4	0.50	1.0	1
07103	0.15 mm	n.a.	96.4	0.50	1.0	1
07103	0.075 mm	n.a.	92.5	0.50	1.0	1
07103	0.064 mm	n.a.	86.0	0.50	1.0	1
07103	0.05 mm	n.a.	73.0	0.50	1.0	1
07103	0.02 mm	n.a.	41.5	0.50	1.0	1
07103	0.005 mm	n.a.	22.0	0.50	1.0	1
07103	0.002 mm	n.a.	14.0	0.50	1.0	1
07103	0.001 mm	n.a.	9.0	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	6.44	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	

USF03 00027

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Lancaster Laboratories

Sample Description: WRBS0017S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339370
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:49 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

17S05 SDG#: USF03-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
00111	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/15/2011 04:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 00:06	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 12:35	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 05:28	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 06:16	Melissa McDermott	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:14	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1

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Lancaster Laboratories

Sample Description: WRBS0017S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339370
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 08:49 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

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Austin TX 78720

17S05 SDG#: USF03-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:21	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:08	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:21	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:21	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:21	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 17:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 20:23	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 20:23	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 18:32	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:11	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103A	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402A	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 0029

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Analysis Report

Lancaster Laboratories

Sample Description: WRBS0018S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339371
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:07 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

18S05 SDG#: USF03-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.	650	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	0.38 J	0.32	0.43	1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,100	6.42	21.2	1
07914	Boron	7440-42-8	12.5	0.382	5.31	1
01650	Calcium	7440-70-2	4,930	2.65	21.2	1
01654	Iron	7439-89-6	38,200	13.8	106	5
01656	Lithium	7439-93-2	45.2	0.658	2.12	1
01657	Magnesium	7439-95-4	9,960	0.467	10.6	1
06958	Manganese	7439-96-5	394	0.0382	0.531	1
10145	Phosphorus	7723-14-0	576	0.371	10.6	1
01662	Potassium	7440-09-7	7,100	12.0	53.1	1
01667	Sodium	7440-23-5	155	6.31	106	1
07968	Strontium	7440-24-6	52.4	0.0265	0.531	1
06969	Tin	7440-31-5	2.58 J	0.340	10.6	1
06970	Titanium	7440-32-6	1,670	0.0753	1.06	1
10146	Zirconium	7440-67-7	6.00	0.488	5.31	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143 J	0.0778	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.57	0.0841	0.420	2
06126	Barium	7440-39-3	122	0.111	0.420	2
06127	Beryllium	7440-41-7	0.750	0.0168	0.105	2
06128	Cadmium	7440-43-9	0.245	0.0462	0.105	2
06131	Chromium	7440-47-3	33.3	0.126	0.420	2
06132	Cobalt	7440-48-4	10.7	0.0210	0.105	2
06133	Copper	7440-50-8	16.6	0.0866	0.433	2
06135	Lead	7439-92-1	13.2	0.0107	0.210	2
06138	Molybdenum	7439-98-7	0.555	0.0525	0.105	2
06139	Nickel	7440-02-0	21.5	0.105	0.420	2
06141	Selenium	7782-49-2	0.308 J	0.0609	0.420	2
06142	Silver	7440-22-4	0.0397 J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.419	0.0315	0.105	2
06148	Vanadium	7440-62-2	67.4	0.0231	0.105	2
06149	Zinc	7440-66-6	101	0.606	3.25	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0165 J	0.00758	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.26	0.866	1.08	1
07336	Anions by 300.0 - Nitrate	14797-55-8	1.83	0.866	1.62	1

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Lancaster Laboratories

Sample Description: WRBS0018S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339371
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:07 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

18S05 SDG#: USF03-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	N.D.	0.216	1.08	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.192	0.533	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	390	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	100	0.50	1.0	1
07103	2.36 mm	n.a.	99.7	0.50	1.0	1
07103	1.18 mm	n.a.	99.5	0.50	1.0	1
07103	0.6 mm	n.a.	98.8	0.50	1.0	1
07103	0.3 mm	n.a.	98.1	0.50	1.0	1
07103	0.15 mm	n.a.	97.5	0.50	1.0	1
07103	0.075 mm	n.a.	94.2	0.50	1.0	1
07103	0.064 mm	n.a.	90.0	0.50	1.0	1
07103	0.05 mm	n.a.	79.0	0.50	1.0	1
07103	0.02 mm	n.a.	52.0	0.50	1.0	1
07103	0.005 mm	n.a.	29.0	0.50	1.0	1
07103	0.002 mm	n.a.	21.0	0.50	1.0	1
07103	0.001 mm	n.a.	16.0	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	6.15	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
00111	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

USF03 0031

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Lancaster Laboratories

Sample Description: WRBS0018S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339371
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:07 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

18S05 SDG#: USF03-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 00:15	James H Place	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 05:41	Jenifer E Lewis	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:18	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:29	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:25	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	111931026003A	07/14/2011 17:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:10	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:25	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:25	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:25	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 20:38	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 20:38	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 18:38	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:12	Venia B McFadden	1

USF03 0032

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Lancaster Laboratories

Sample Description: WRBS0018S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339371
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:07 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

18S05 SDG#: USF03-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402A	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

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Lancaster Laboratories

Sample Description: WRBS0019S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339372
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:18 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

19S05 SDG#: USF03-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	N.D.		0.71	1.8	1
10138	Acenaphthylene	208-96-8	N.D.		0.35	1.8	1
10138	Anthracene	120-12-7	N.D.		0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.0		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.9		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	7.1	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	8.4	J	6.4	19	1
10138	Chrysene	218-01-9	2.0		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	N.D.		0.71	1.8	1
10138	Diethylphthalate	84-66-2	N.D.		6.4	19	1
10138	Dimethylphthalate	131-11-3	N.D.		6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.4	19	1
10138	Fluoranthene	206-44-0	2.9		0.71	1.8	1
10138	Fluorene	86-73-7	N.D.		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.96	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	N.D.		0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	N.D.		0.71	1.8	1
10138	Naphthalene	91-20-3	N.D.		0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	N.D.		6.4	19	1
10138	Phenanthrene	85-01-8	0.78	J	0.71	1.8	1
10138	Pyrene	129-00-0	2.9		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	N.D.		1.3	3.8	1
10401	Dalapon	75-99-0	N.D.		4.7	9.5	1
10401	2,4-DB	94-82-6	N.D.		2.2	2.2	1
10401	Dicamba	1918-00-9	N.D.		0.42	1.3	1
10401	Dinoseb	88-85-7	N.D.		0.85	2.5	1
10401	2,4-DP (Dichloroprop)	120-36-5	N.D.		0.85	1.8	1
10401	MCPA	94-74-6	N.D.		81	270	1
10401	MCPP (Mecoprop)	93-65-2	N.D.		80	270	1
10401	2,4,5-T	93-76-5	N.D.		0.087	0.18	1
10401	2,4,5-TP	93-72-1	N.D.		0.080	0.18	1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.		640	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.		0.43	0.43	1
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	N.D.		0.070	0.18	1
01363	Alpha BHC	319-84-6	N.D.		0.036	0.18	1
01363	Beta BHC	319-85-7	0.10	J	0.064	0.18	1

USF03 0834

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Lancaster Laboratories

Sample Description: WRBS0019S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339372
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:18 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

19S05 SDG#: USF03-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	N.D.	0.036	0.18	1
01363	Chlordane	57-74-9	1.2 J	0.85	3.6	1
01363	p,p-DDD	72-54-8	N.D.	0.070	0.36	1
01363	p,p-DDE	72-55-9	N.D.	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.089 J	0.070	0.36	1
01363	Delta BHC	319-86-8	N.D.	0.038	0.18	1
01363	Dieldrin	60-57-1	N.D.	0.070	0.36	1
01363	Endosulfan I	959-98-8	N.D.	0.047	0.18	1
01363	Endosulfan II	33213-65-9	N.D.	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	N.D.	0.070	0.36	1
01363	Endrin	72-20-8	N.D.	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.12 J	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	N.D.	0.070	0.36	1
01363	Heptachlor	76-44-8	N.D.	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	N.D.	0.036	0.18	1
01363	Methoxychlor	72-43-5	N.D.	0.36	1.8	1
01363	Mirex	2385-85-5	0.072 J	0.070	0.36	1
01363	Toxaphene	8001-35-2	N.D.	2.3	7.0	1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,700	6.14	20.3	1
07914	Boron	7440-42-8	12.3	0.366	5.08	1
01650	Calcium	7440-70-2	4,950	2.54	20.3	1
01654	Iron	7439-89-6	38,400	13.3	102	5
01656	Lithium	7439-93-2	47.6	0.630	2.03	1
01657	Magnesium	7439-95-4	10,000	0.447	10.2	1
06958	Manganese	7439-96-5	408	0.0366	0.508	1
10145	Phosphorus	7723-14-0	620	0.355	10.2	1
01662	Potassium	7440-09-7	6,210	11.5	50.8	1
01667	Sodium	7440-23-5	143	6.04	102	1
07968	Strontium	7440-24-6	54.1	0.0254	0.508	1
06969	Tin	7440-31-5	2.55 J	0.325	10.2	1
06970	Titanium	7440-32-6	1,560	0.0721	1.02	1
10146	Zirconium	7440-67-7	6.02	0.467	5.08	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104 J	0.0781	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	8.58	0.0844	0.422	2
06126	Barium	7440-39-3	108	0.112	0.422	2
06127	Beryllium	7440-41-7	0.700	0.0169	0.106	2
06128	Cadmium	7440-43-9	0.233	0.0464	0.106	2
06131	Chromium	7440-47-3	35.7	0.127	0.422	2
06132	Cobalt	7440-48-4	10.2	0.0211	0.106	2
06133	Copper	7440-50-8	13.7	0.0844	0.422	2
06135	Lead	7439-92-1	8.83	0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.605	0.0528	0.106	2
06139	Nickel	7440-02-0	19.5	0.106	0.422	2

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Lancaster Laboratories

Sample Description: WRBS0019S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339372
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:18 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

19S05 SDG#: USF03-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06141	Selenium	7782-49-2	0.449	0.0612	0.422	2
06142	Silver	7440-22-4	0.0256 J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.399	0.0317	0.106	2
06148	Vanadium	7440-62-2	70.9	0.0232	0.106	2
06149	Zinc	7440-66-6	90.1	0.591	3.17	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	N.D.	0.00735	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	4.27	0.853	1.07	1
07336	Anions by 300.0 - Nitrate	14797-55-8	1.30 J	0.853	1.60	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	0.968 J	0.213	1.07	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.185	0.513	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	387	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	99.9	0.50	1.0	1
07103	2.36 mm	n.a.	99.6	0.50	1.0	1
07103	1.18 mm	n.a.	99.3	0.50	1.0	1
07103	0.6 mm	n.a.	98.3	0.50	1.0	1
07103	0.3 mm	n.a.	97.3	0.50	1.0	1
07103	0.15 mm	n.a.	95.8	0.50	1.0	1
07103	0.075 mm	n.a.	89.5	0.50	1.0	1
07103	0.064 mm	n.a.	83.0	0.50	1.0	1
07103	0.05 mm	n.a.	71.0	0.50	1.0	1
07103	0.02 mm	n.a.	39.0	0.50	1.0	1
07103	0.005 mm	n.a.	21.0	0.50	1.0	1
07103	0.002 mm	n.a.	12.0	0.50	1.0	1
07103	0.001 mm	n.a.	7.0	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	6.91	0.0100	0.0100	
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	

USF03 0036

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Lancaster Laboratories

Sample Description: WRBS0019S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339372
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:18 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

19S05 SDG#: USF03-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
00111	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/15/2011 09:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 00:25	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 13:03	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 05:54	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 06:31	Melissa McDermott	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:22	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1

USF03 0037

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Lancaster Laboratories

Sample Description: WRBS0019S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339372
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:18 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

19S05 SDG#: USF03-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:33	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:28	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:12	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:28	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:28	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:28	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 20:53	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 20:53	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 18:57	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:13	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402A	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 8838

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Lancaster Laboratories

Sample Description: WRBS0020S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339373
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

20S05 SDG#: USF03-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.	620	1,500	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.	0.31	0.41	1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700	6.06	20.0	1
07914	Boron	7440-42-8	7.49	0.361	5.01	1
01650	Calcium	7440-70-2	5,510	2.50	20.0	1
01654	Iron	7439-89-6	33,800	13.1	100	5
01656	Lithium	7439-93-2	40.5	0.621	2.00	1
01657	Magnesium	7439-95-4	12,100	0.441	10.0	1
06958	Manganese	7439-96-5	275	0.0361	0.501	1
10145	Phosphorus	7723-14-0	1,120	0.351	10.0	1
01662	Potassium	7440-09-7	2,820	11.3	50.1	1
01667	Sodium	7440-23-5	155	5.96	100	1
07968	Strontium	7440-24-6	60.4	0.0250	0.501	1
06969	Tin	7440-31-5	2.22 J	0.321	10.0	1
06970	Titanium	7440-32-6	1,310	0.0711	1.00	1
10146	Zirconium	7440-67-7	11.7	0.461	5.01	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0844 J	0.0734	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.19	0.0794	0.397	2
06126	Barium	7440-39-3	94.7	0.105	0.397	2
06127	Beryllium	7440-41-7	0.517	0.0159	0.0992	2
06128	Cadmium	7440-43-9	0.130	0.0437	0.0992	2
06131	Chromium	7440-47-3	29.7	0.119	0.397	2
06132	Cobalt	7440-48-4	8.42	0.0198	0.0992	2
06133	Copper	7440-50-8	7.40	0.0826	0.413	2
06135	Lead	7439-92-1	6.44	0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.287	0.0496	0.0992	2
06139	Nickel	7440-02-0	13.5	0.0992	0.397	2
06141	Selenium	7782-49-2	0.261 J	0.0576	0.397	2
06142	Silver	7440-22-4	0.0280 J	0.0141	0.0992	2
06145	Thallium	7440-28-0	0.255	0.0298	0.0992	2
06148	Vanadium	7440-62-2	63.7	0.0218	0.0992	2
06149	Zinc	7440-66-6	71.1	0.578	3.10	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	N.D.	0.00701	0.0997	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.66	0.826	1.03	1
07336	Anions by 300.0 - Nitrate	14797-55-8	1.16 J	0.826	1.55	1

USF03 06039

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Lancaster Laboratories

Sample Description: WRBS0020S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339373
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:32 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

20S05 SDG#: USF03-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	0.512 J	0.206	1.03	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.183	0.508	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	392	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	100	0.50	1.0	1
07103	2.36 mm	n.a.	99.8	0.50	1.0	1
07103	1.18 mm	n.a.	99.3	0.50	1.0	1
07103	0.6 mm	n.a.	96.6	0.50	1.0	1
07103	0.3 mm	n.a.	92.6	0.50	1.0	1
07103	0.15 mm	n.a.	87.5	0.50	1.0	1
07103	0.075 mm	n.a.	65.1	0.50	1.0	1
07103	0.064 mm	n.a.	54.0	0.50	1.0	1
07103	0.05 mm	n.a.	35.0	0.50	1.0	1
07103	0.02 mm	n.a.	18.0	0.50	1.0	1
07103	0.005 mm	n.a.	9.0	0.50	1.0	1
07103	0.002 mm	n.a.	6.0	0.50	1.0	1
07103	0.001 mm	n.a.	3.0	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	6.96	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
00111	Moisture Content by 160.3	n.a.	3.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

USF03 6948

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Lancaster Laboratories

Sample Description: WRBS0020S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339373
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

20S05 SDG#: USF03-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 00:34	James H Place	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 06:19	Jenifer E Lewis	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:26	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:38	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:31	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:33	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:31	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:31	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:31	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 21:07	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 21:07	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 19:16	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:14	Venia B McFadden	1

USPS 8841

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0020S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339373
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 09:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

20S05 SDG#: USF03-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402A	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 00842

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0021S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339374
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:08 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

21S05 SDG#: USF03-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	350	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	N.D.		0.70	1.7	1
10138	Acenaphthylene	208-96-8	N.D.		0.35	1.7	1
10138	Anthracene	120-12-7	N.D.		0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	N.D.		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	N.D.		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	N.D.		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	N.D.		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	17	J	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	11	J	6.3	19	1
10138	Chrysene	218-01-9	N.D.		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	N.D.		0.70	1.7	1
10138	Diethylphthalate	84-66-2	N.D.		6.3	19	1
10138	Dimethylphthalate	131-11-3	N.D.		6.3	19	1
10138	Fluoranthene	206-44-0	1.2	J	0.70	1.7	1
10138	Fluorene	86-73-7	N.D.		0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	N.D.		0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	N.D.		0.70	1.7	1
10138	Naphthalene	91-20-3	N.D.		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	N.D.		6.3	19	1
10138	Phenanthrene	85-01-8	N.D.		0.70	1.7	1
10138	Pyrene	129-00-0	0.77	J	0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	N.D.		1.3	3.8	1
10401	Dalapon	75-99-0	N.D.		4.6	9.5	1
10401	2,4-DB	94-82-6	N.D.		5.3	5.3	1
10401	Dicamba	1918-00-9	N.D.		0.42	1.3	1
10401	Dinoseb	88-85-7	N.D.		0.84	2.5	1
10401	2,4-DP (Dichloroprop)	120-36-5	N.D.		0.84	1.8	1
10401	MCPA	94-74-6	N.D.		80	260	1
10401	MCPP (Mecoprop)	93-65-2	N.D.		79	260	1
10401	2,4,5-T	93-76-5	N.D.		0.086	0.18	1
10401	2,4,5-TP	93-72-1	N.D.		0.079	0.18	1

Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.		640	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.		0.32	0.42	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	N.D.		0.070	0.18	1

USF03 8643

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Lancaster Laboratories

Sample Description: WRBS0021S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339374
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:08 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

21S05 SDG#: USF03-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	
01363	Alpha BHC	319-84-6	N.D.		0.036	0.18	1
01363	Beta BHC	319-85-7	N.D.		0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	N.D.		0.036	0.18	1
01363	Chlordane	57-74-9	4.4		0.85	3.6	1
01363	p,p-DDD	72-54-8	0.16	J	0.070	0.36	1
01363	p,p-DDE	72-55-9	6.3		0.35	1.8	5
01363	p,p-DDT	50-29-3	6.4		0.35	1.8	5
01363	Delta BHC	319-86-8	N.D.		0.038	0.18	1
01363	Dieldrin	60-57-1	0.17	J	0.070	0.36	1
01363	Endosulfan I	959-98-8	N.D.		0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.28	J	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	N.D.		0.070	0.36	1
01363	Endrin	72-20-8	N.D.		0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	N.D.		0.44	0.44	1
01363	Endrin Ketone	53494-70-5	N.D.		0.070	0.36	1
01363	Heptachlor	76-44-8	N.D.		0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	N.D.		0.066	0.18	1
01363	Methoxychlor	72-43-5	N.D.		0.36	1.8	1
01363	Mirex	2385-85-5	N.D.		0.35	0.36	1
01363	Toxaphene	8001-35-2	N.D.		2.3	7.0	1
	Reporting limits were raised for endrin aldehyde and mirex due to interference from the sample matrix.						
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,100		6.36	21.0	1
07914	Boron	7440-42-8	10.3		0.378	5.26	1
01650	Calcium	7440-70-2	4,900		2.63	21.0	1
01654	Iron	7439-89-6	37,500		13.7	105	5
01656	Lithium	7439-93-2	44.9		0.652	2.10	1
01657	Magnesium	7439-95-4	10,200		0.462	10.5	1
06958	Manganese	7439-96-5	364		0.0378	0.526	1
10145	Phosphorus	7723-14-0	493		0.368	10.5	1
01662	Potassium	7440-09-7	4,450		11.9	52.6	1
01667	Sodium	7440-23-5	123		6.25	105	1
07968	Strontium	7440-24-6	53.8		0.0263	0.526	1
06969	Tin	7440-31-5	2.56	J	0.336	10.5	1
06970	Titanium	7440-32-6	1,380		0.0746	1.05	1
10146	Zirconium	7440-67-7	7.53		0.483	5.26	1
	SW-846 6020		mg/kg		mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.159	J	0.0778	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.26		0.0841	0.420	2
06126	Barium	7440-39-3	127		0.111	0.420	2
06127	Beryllium	7440-41-7	0.765		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.196		0.0462	0.105	2
06131	Chromium	7440-47-3	36.0		0.126	0.420	2
06132	Cobalt	7440-48-4	9.47		0.0210	0.105	2
06133	Copper	7440-50-8	15.9		0.0809	0.404	2

USF03 0044

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Lancaster Laboratories

Sample Description: WRBS0021S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339374
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:08 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

21S05 SDG#: USF03-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	12.4	0.0107	0.210	2
06138	Molybdenum	7439-98-7	0.567	0.0526	0.105	2
06139	Nickel	7440-02-0	19.3	0.105	0.420	2
06141	Selenium	7782-49-2	0.297 J	0.0610	0.420	2
06142	Silver	7440-22-4	0.0387 J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.351	0.0315	0.105	2
06148	Vanadium	7440-62-2	73.9	0.0231	0.105	2
06149	Zinc	7440-66-6	95.4	0.566	3.03	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0197 J	0.00711	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	2.22	0.849	1.06	1
07336	Anions by 300.0 - Nitrate	14797-55-8	4.70	0.849	1.59	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	0.796 J	0.212	1.06	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.180	0.501	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	408	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	99.8	0.50	1.0	1
07103	3.35 mm	n.a.	99.4	0.50	1.0	1
07103	2.36 mm	n.a.	97.3	0.50	1.0	1
07103	1.18 mm	n.a.	97.1	0.50	1.0	1
07103	0.6 mm	n.a.	96.0	0.50	1.0	1
07103	0.3 mm	n.a.	94.5	0.50	1.0	1
07103	0.15 mm	n.a.	92.9	0.50	1.0	1
07103	0.075 mm	n.a.	82.1	0.50	1.0	1
07103	0.064 mm	n.a.	75.0	0.50	1.0	1
07103	0.05 mm	n.a.	60.0	0.50	1.0	1
07103	0.02 mm	n.a.	38.0	0.50	1.0	1
07103	0.005 mm	n.a.	22.0	0.50	1.0	1
07103	0.002 mm	n.a.	15.0	0.50	1.0	1
07103	0.001 mm	n.a.	9.0	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	

USF03 0045

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Sample Description: WRBS0021S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339374
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:08 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

21S05 SDG#: USF03-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	6.91	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
00111	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11193SLB026	07/24/2011 13:58	Linda M Hartenstine	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/15/2011 10:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 00:44	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 19:56	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 06:32	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 06:47	Melissa McDermott	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/26/2011 08:53	Melissa McDermott	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:30	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1

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Lancaster Laboratories

Sample Description: WRBS0021S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339374
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:08 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
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Austin TX 78720

21S05 SDG#: USF03-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:34	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:16	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:34	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:34	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:34	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 21:22	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 21:22	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 19:28	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:15	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402A	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 0847

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories

Sample Description: WRBS0074S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339375
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 11:08 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

74S05 SDG#: USF03-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	N.D.		0.70	1.7	1
10138	Acenaphthylene	208-96-8	N.D.		0.35	1.7	1
10138	Anthracene	120-12-7	N.D.		0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	N.D.		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	N.D.		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	N.D.		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	N.D.		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	N.D.		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	N.D.		6.3	19	1
10138	Di-n-butylphthalate	84-74-2	8.9	J	6.3	19	1
10138	Chrysene	218-01-9	0.48	J	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	N.D.		0.70	1.7	1
10138	Diethylphthalate	84-66-2	N.D.		6.3	19	1
10138	Dimethylphthalate	131-11-3	N.D.		6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.3	19	1
10138	Fluoranthene	206-44-0	N.D.		0.70	1.7	1
10138	Fluorene	86-73-7	N.D.		0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	N.D.		0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	N.D.		0.70	1.7	1
10138	Naphthalene	91-20-3	N.D.		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	N.D.		6.3	19	1
10138	Phenanthrene	85-01-8	N.D.		0.70	1.7	1
10138	Pyrene	129-00-0	N.D.		0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	N.D.		1.2	3.7	1
10401	Dalapon	75-99-0	N.D.		4.6	9.3	1
10401	2,4-DB	94-82-6	N.D.		4.9	4.9	1
10401	Dicamba	1918-00-9	N.D.		0.42	1.2	1
10401	Dinoseb	88-85-7	N.D.		0.83	2.5	1
10401	2,4-DP (Dichloroprop)	120-36-5	N.D.		0.83	1.8	1
10401	MCPA	94-74-6	N.D.		190	260	1
10401	MCPP (Mecoprop)	93-65-2	N.D.		78	260	1
10401	2,4,5-T	93-76-5	N.D.		0.085	0.18	1
10401	2,4,5-TP	93-72-1	N.D.		0.078	0.18	1
	Reporting limits were raised for 2,4-DB and MCPA due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.		630	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	0.39	J	0.31	0.42	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	N.D.		0.068	0.17	1
01363	Alpha BHC	319-84-6	N.D.		0.035	0.17	1
01363	Beta BHC	319-85-7	N.D.		0.074	0.17	1

USF03 8040

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Lancaster Laboratories

Sample Description: WRBS0074S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339375
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 11:08 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

74S05 SDG#: USF03-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	N.D.		0.035	0.17	1
01363	Chlordane	57-74-9	N.D.		0.83	3.5	1
01363	p,p-DDD	72-54-8	N.D.		0.068	0.35	1
01363	p,p-DDE	72-55-9	N.D.		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.21	J	0.068	0.35	1
01363	Delta BHC	319-86-8	0.063	J	0.037	0.17	1
01363	Dieldrin	60-57-1	N.D.		0.068	0.35	1
01363	Endosulfan I	959-98-8	N.D.		0.046	0.17	1
01363	Endosulfan II	33213-65-9	N.D.		0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.096	J	0.068	0.35	1
01363	Endrin	72-20-8	N.D.		0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	N.D.		0.068	0.35	1
01363	Endrin Ketone	53494-70-5	N.D.		0.068	0.35	1
01363	Heptachlor	76-44-8	N.D.		0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	N.D.		0.035	0.17	1
01363	Methoxychlor	72-43-5	N.D.		0.35	1.7	1
01363	Mirex	2385-85-5	0.14	J	0.068	0.35	1
01363	Toxaphene	8001-35-2	N.D.		2.3	6.8	1
	Reporting limits were raised for beta-BHC due to interference from the sample matrix.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,400		6.25	20.6	1
07914	Boron	7440-42-8	10.6		0.372	5.16	1
01650	Calcium	7440-70-2	4,750		2.58	20.6	1
01654	Iron	7439-89-6	35,900		13.5	103	5
01656	Lithium	7439-93-2	38.2		0.640	2.06	1
01657	Magnesium	7439-95-4	9,370		0.454	10.3	1
06958	Manganese	7439-96-5	347		0.0372	0.516	1
10145	Phosphorus	7723-14-0	648		0.361	10.3	1
01662	Potassium	7440-09-7	5,110		11.7	51.6	1
01667	Sodium	7440-23-5	128		6.14	103	1
07968	Strontium	7440-24-6	33.7		0.0258	0.516	1
06969	Tin	7440-31-5	2.66	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,450		0.0733	1.03	1
10146	Zirconium	7440-67-7	6.70		0.475	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0757	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.01		0.0818	0.409	2
06126	Barium	7440-39-3	98.1		0.108	0.409	2
06127	Beryllium	7440-41-7	0.637		0.0164	0.102	2
06128	Cadmium	7440-43-9	0.206		0.0450	0.102	2
06131	Chromium	7440-47-3	32.3		0.123	0.409	2
06132	Cobalt	7440-48-4	9.11		0.0204	0.102	2
06133	Copper	7440-50-8	14.8		0.0802	0.401	2
06135	Lead	7439-92-1	8.87		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.451		0.0511	0.102	2

USF03 8849

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Lancaster Laboratories

Sample Description: WRBS0074S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339375
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 11:08 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

74S05 SDG#: USF03-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	17.5	0.102	0.409	2
06141	Selenium		7782-49-2	0.248 J	0.0593	0.409	2
06142	Silver		7440-22-4	0.0239 J	0.0145	0.102	2
06145	Thallium		7440-28-0	0.343	0.0307	0.102	2
06148	Vanadium		7440-62-2	65.3	0.0225	0.102	2
06149	Zinc		7440-66-6	95.0	0.561	3.01	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0107 J	0.00727	0.103	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride		16984-48-8	2.10	0.834	1.04	1
07336	Anions by 300.0 - Nitrate		14797-55-8	1.70	0.834	1.56	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199		18540-29-9	0.387 J	0.209	1.04	1
		SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012		57-12-5	N.D.	0.188	0.521	1
		ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential		n.a.	444	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
Wet Chemistry		**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm		n.a.	100	0.50	1.0	1
07103	37.5 mm		n.a.	100	0.50	1.0	1
07103	19 mm		n.a.	100	0.50	1.0	1
07103	4.75 mm		n.a.	100	0.50	1.0	1
07103	3.35 mm		n.a.	99.9	0.50	1.0	1
07103	2.36 mm		n.a.	99.7	0.50	1.0	1
07103	1.18 mm		n.a.	99.6	0.50	1.0	1
07103	0.6 mm		n.a.	98.9	0.50	1.0	1
07103	0.3 mm		n.a.	97.9	0.50	1.0	1
07103	0.15 mm		n.a.	96.9	0.50	1.0	1
07103	0.075 mm		n.a.	90.9	0.50	1.0	1
07103	0.064 mm		n.a.	82.0	0.50	1.0	1
07103	0.05 mm		n.a.	60.0	0.50	1.0	1
07103	0.02 mm		n.a.	31.0	0.50	1.0	1
07103	0.005 mm		n.a.	15.0	0.50	1.0	1
07103	0.002 mm		n.a.	8.0	0.50	1.0	1
07103	0.001 mm		n.a.	3.0	0.50	1.0	1
Wet Chemistry		**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C		n.a.	6.73	0.0100	0.0100	1

USF03 6858

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Lancaster Laboratories

Sample Description: WRBS0074S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339375
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 11:08 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

74S05 SDG#: USF03-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
00111	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/15/2011 10:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 01:03	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 20:24	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 06:45	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 07:02	Melissa McDermott	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:34	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1

Upper 0051

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Lancaster Laboratories

Sample Description: WRBS0074S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339375
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 11:08 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

74S05 SDG#: USF03-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:46	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:37	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:18	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:37	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:37	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:37	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 21:37	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 21:37	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 19:40	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:19	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402B	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 8852

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0074S045 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339376
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 11:15 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

74S45 SDG#: USF03-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.	660	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.	0.66	0.66	1
	Reporting limits were raised due to interference from the sample matrix.					
GC Miscellaneous	**SW-846 8015B**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol (by Direct Injection)	64-17-5	N.D.	110	550	1
10501	Methanol (by Direct Injection)	67-56-1	N.D.	110	550	1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,800	6.52	21.5	1
07914	Boron	7440-42-8	14.5	0.388	5.39	1
01650	Calcium	7440-70-2	4,600	2.69	21.5	1
01654	Iron	7439-89-6	42,800	14.1	108	5
01656	Lithium	7439-93-2	48.1	0.668	2.15	1
01657	Magnesium	7439-95-4	11,700	0.474	10.8	1
06958	Manganese	7439-96-5	318	0.0388	0.539	1
10145	Phosphorus	7723-14-0	545	0.377	10.8	1
01662	Potassium	7440-09-7	5,530	12.2	53.9	1
01667	Sodium	7440-23-5	187	6.41	108	1
07968	Strontium	7440-24-6	34.3	0.0269	0.539	1
06969	Tin	7440-31-5	2.74 J	0.345	10.8	1
06970	Titanium	7440-32-6	1,680	0.0765	1.08	1
10146	Zirconium	7440-67-7	5.74	0.496	5.39	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146 J	0.0782	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.73	0.0845	0.423	2
06126	Barium	7440-39-3	93.6	0.112	0.423	2
06127	Beryllium	7440-41-7	0.705	0.0169	0.106	2
06128	Cadmium	7440-43-9	0.122	0.0465	0.106	2
06131	Chromium	7440-47-3	34.0	0.127	0.423	2
06132	Cobalt	7440-48-4	12.2	0.0211	0.106	2
06133	Copper	7440-50-8	17.8	0.0837	0.419	2
06135	Lead	7439-92-1	9.67	0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.471	0.0528	0.106	2
06139	Nickel	7440-02-0	21.5	0.106	0.423	2
06141	Selenium	7782-49-2	0.184 J	0.0613	0.423	2
06142	Silver	7440-22-4	0.0200 J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.410	0.0317	0.106	2
06148	Vanadium	7440-62-2	61.8	0.0232	0.106	2
06149	Zinc	7440-66-6	102	0.586	3.14	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0273 J	0.00729	0.104	1

USF03 0053

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0074S045 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339376
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 11:15 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

74S45 SDG#: USF03-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.45	0.879	1.10	1
07336	Anions by 300.0 - Nitrate	14797-55-8	1.01 J	0.879	1.65	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	1.45	0.220	1.10	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.192	0.533	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	449	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	99.6	0.50	1.0	1
07103	3.35 mm	n.a.	98.5	0.50	1.0	1
07103	2.36 mm	n.a.	93.6	0.50	1.0	1
07103	1.18 mm	n.a.	84.3	0.50	1.0	1
07103	0.6 mm	n.a.	75.4	0.50	1.0	1
07103	0.3 mm	n.a.	72.6	0.50	1.0	1
07103	0.15 mm	n.a.	71.1	0.50	1.0	1
07103	0.075 mm	n.a.	69.3	0.50	1.0	1
07103	0.064 mm	n.a.	61.0	0.50	1.0	1
07103	0.05 mm	n.a.	41.5	0.50	1.0	1
07103	0.02 mm	n.a.	21.0	0.50	1.0	1
07103	0.005 mm	n.a.	7.0	0.50	1.0	1
07103	0.002 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	7.13	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
00111	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

USF03 8854

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Lancaster Laboratories

Sample Description: WRBS0074S045 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339376
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 11:15 by EW

URS Corporation
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Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

74S45 SDG#: USF03-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 01:12	James H Place	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 06:57	Jenifer E Lewis	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
10501	Alcohols in Soil	SW-846 8015B	1	111940030A	07/15/2011 01:08	Elizabeth J Marin	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	111940030A	07/14/2011 20:00	Elizabeth J Marin	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:38	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:51	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:40	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:20	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:40	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:40	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:40	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1

USF03 00055

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Lancaster Laboratories

Sample Description: WRBS0074S045 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339376
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 11:15 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

74S45 SDG#: USF03-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 21:51	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 21:51	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 19:53	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:20	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402B	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 0056

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Lancaster Laboratories

Sample Description: WRBS0082S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339377
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

82S05 SDG#: USF03-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	N.D.		0.71	1.8	1
10138	Acenaphthylene	208-96-8	N.D.		0.35	1.8	1
10138	Anthracene	120-12-7	N.D.		0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	N.D.		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	N.D.		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	N.D.		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	N.D.		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	N.D.		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	N.D.		6.4	19	1
10138	Di-n-butylphthalate	84-74-2	8.5	J	6.4	19	1
10138	Chrysene	218-01-9	N.D.		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	N.D.		0.71	1.8	1
10138	Diethylphthalate	84-66-2	N.D.		6.4	19	1
10138	Dimethylphthalate	131-11-3	N.D.		6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.4	19	1
10138	Fluoranthene	206-44-0	N.D.		0.71	1.8	1
10138	Fluorene	86-73-7	N.D.		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	N.D.		0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	N.D.		0.71	1.8	1
10138	Naphthalene	91-20-3	N.D.		0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	N.D.		6.4	19	1
10138	Phenanthrene	85-01-8	N.D.		0.71	1.8	1
10138	Pyrene	129-00-0	N.D.		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	N.D.		1.3	3.9	1
10401	Dalapon	75-99-0	N.D.		4.7	9.6	1
10401	2,4-DB	94-82-6	N.D.		4.3	4.3	1
10401	Dicamba	1918-00-9	N.D.		0.43	1.3	1
10401	Dinoseb	88-85-7	N.D.		0.86	2.6	1
10401	2,4-DP (Dichloroprop)	120-36-5	N.D.		0.86	1.8	1
10401	MCPA	94-74-6	N.D.		81	270	1
10401	MCPP (Mecoprop)	93-65-2	N.D.		80	270	1
10401	2,4,5-T	93-76-5	N.D.		0.088	0.18	1
10401	2,4,5-TP	93-72-1	N.D.		0.080	0.18	1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.		650	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.		0.43	0.43	1
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	USF03 8857
01363	Aldrin	309-00-2	N.D.		0.071	0.18	1
01363	Alpha BHC	319-84-6	N.D.		0.037	0.18	1
01363	Beta BHC	319-85-7	0.078	J	0.065	0.18	1

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Sample Description: WRBS0082S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339377
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

82S05 SDG#: USF03-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	N.D.	0.037	0.18	1
01363	Chlordane	57-74-9	N.D.	0.86	3.7	1
01363	p,p-DDD	72-54-8	N.D.	0.071	0.37	1
01363	p,p-DDE	72-55-9	0.14 J	0.071	0.37	1
01363	p,p-DDT	50-29-3	0.15 J	0.071	0.37	1
01363	Delta BHC	319-86-8	N.D.	0.039	0.18	1
01363	Dieldrin	60-57-1	N.D.	0.071	0.37	1
01363	Endosulfan I	959-98-8	N.D.	0.047	0.18	1
01363	Endosulfan II	33213-65-9	N.D.	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	N.D.	0.071	0.37	1
01363	Endrin	72-20-8	N.D.	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	N.D.	0.071	0.37	1
01363	Endrin Ketone	53494-70-5	N.D.	0.071	0.37	1
01363	Heptachlor	76-44-8	N.D.	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	N.D.	0.037	0.18	1
01363	Methoxychlor	72-43-5	N.D.	0.37	1.8	1
01363	Mirex	2385-85-5	0.10 J	0.071	0.37	1
01363	Toxaphene	8001-35-2	N.D.	2.4	7.1	1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	39,700	6.53	21.6	1
07914	Boron	7440-42-8	14.0	0.388	5.39	1
01650	Calcium	7440-70-2	5,370	2.70	21.6	1
01654	Iron	7439-89-6	44,100	14.1	108	5
01656	Lithium	7439-93-2	64.7	0.669	2.16	1
01657	Magnesium	7439-95-4	11,400	0.475	10.8	1
06958	Manganese	7439-96-5	415	0.0388	0.539	1
10145	Phosphorus	7723-14-0	405	0.378	10.8	1
	The post digest spike performed on this sample recovered at 92%.					
01662	Potassium	7440-09-7	7,660	12.2	53.9	1
01667	Sodium	7440-23-5	162	6.42	108	1
07968	Strontium	7440-24-6	70.0	0.0270	0.539	1
06969	Tin	7440-31-5	2.72 J	0.345	10.8	1
06970	Titanium	7440-32-6	1,900	0.0766	1.08	1
10146	Zirconium	7440-67-7	5.52	0.496	5.39	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.170 J	0.0790	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
	The post digest spike performed on this sample recovered at 85%.					
06125	Arsenic	7440-38-2	7.88	0.0854	0.427	2
06126	Barium	7440-39-3	141	0.113	0.427	2
06127	Beryllium	7440-41-7	0.993	0.0171	0.107	2
06128	Cadmium	7440-43-9	0.193	0.0470	0.107	2
06131	Chromium	7440-47-3	36.6	0.128	0.427	2
	The post digest spike performed on this sample recovered at -27%.					
06132	Cobalt	7440-48-4	12.3	0.0214	0.107	2
06133	Copper	7440-50-8	19.1	0.0854	0.427	2

USF03 8050

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Lancaster Laboratories

Sample Description: WRBS0082S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339377
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	14.3	0.0109	0.214	2
06138	Molybdenum	7439-98-7	0.470	0.0534	0.107	2
06139	Nickel	7440-02-0	26.9	0.107	0.427	2
06141	Selenium	7782-49-2	0.337 J	0.0619	0.427	2
06142	Silver	7440-22-4	0.0360 J	0.0152	0.107	2
06145	Thallium	7440-28-0	0.526	0.0320	0.107	2
06148	Vanadium	7440-62-2	77.5	0.0235	0.107	2
06149	Zinc	7440-66-6	102	0.598	3.20	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0185 J	0.00722	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	2.42	0.863	1.08	1
07336	Anions by 300.0 - Nitrate	14797-55-8	5.03	0.863	1.62	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	0.633 J	0.216	1.08	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.187	0.519	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	490	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	99.9	0.50	1.0	1
07103	3.35 mm	n.a.	99.8	0.50	1.0	1
07103	2.36 mm	n.a.	99.5	0.50	1.0	1
07103	1.18 mm	n.a.	99.5	0.50	1.0	1
07103	0.6 mm	n.a.	99.2	0.50	1.0	1
07103	0.3 mm	n.a.	98.8	0.50	1.0	1
07103	0.15 mm	n.a.	98.4	0.50	1.0	1
07103	0.075 mm	n.a.	97.4	0.50	1.0	1
07103	0.064 mm	n.a.	93.0	0.50	1.0	1
07103	0.05 mm	n.a.	83.0	0.50	1.0	1
07103	0.02 mm	n.a.	67.0	0.50	1.0	1
07103	0.005 mm	n.a.	45.0	0.50	1.0	1
07103	0.002 mm	n.a.	34.0	0.50	1.0	1
07103	0.001 mm	n.a.	25.0	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	

USF03 8859

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Lancaster Laboratories

Sample Description: WRBS0082S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339377
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	6.56	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
00111	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/14/2011 20:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 01:22	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 04:47	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 04:25	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 07:17	Melissa McDermott	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 10:35	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1

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Lancaster Laboratories

Sample Description: WRBS0082S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339377
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 20:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06126	Barium	SW-846 6020	2	111931026003D	07/22/2011 22:51	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:31	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 22:51	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 22:51	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 22:51	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 18:40	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 18:40	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 20:05	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:21	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402B	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 8861

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories

Sample Description: WRBS0082S005 Matrix Spike Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339378
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	18	180	1
04688	Acenaphthylene	208-96-8	1,700	18	180	1
04688	Anthracene	120-12-7	1,800	18	180	1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180	1
04688	Benzo(a)pyrene	50-32-8	1,800	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,900	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,700	18	180	1
04688	Butylbenzylphthalate	85-68-7	2,000	18	180	1
04688	Di-n-butylphthalate	84-74-2	1,800	18	180	1
04688	Chrysene	218-01-9	1,700	18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	18	180	1
04688	Diethylphthalate	84-66-2	1,700	18	180	1
04688	Dimethylphthalate	131-11-3	1,700	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	18	360	1
04688	Fluoranthene	206-44-0	1,600	18	180	1
04688	Fluorene	86-73-7	1,600	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	18	180	1
04688	1-Methylnaphthalene	90-12-0	1,500	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180	1
04688	Naphthalene	91-20-3	1,500	18	180	1
04688	Di-n-octylphthalate	117-84-0	1,900	18	180	1
04688	Phenanthrene	85-01-8	1,700	18	180	1
04688	Pyrene	129-00-0	1,900	18	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.71	1.8	1
10138	Acenaphthylene	208-96-8	35	0.35	1.8	1
10138	Anthracene	120-12-7	36	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	37	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	34	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	35	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	35	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	32	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	40	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	38	6.4	19	1
10138	Chrysene	218-01-9	34	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	37	0.71	1.8	1
10138	Diethylphthalate	84-66-2	38	6.4	19	1
10138	Dimethylphthalate	131-11-3	37	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45	6.4	19	1
10138	Fluoranthene	206-44-0	36	0.71	1.8	1
10138	Fluorene	86-73-7	36	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	36	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	30	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	31	0.71	1.8	1
10138	Naphthalene	91-20-3	30	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	38	6.4	19	1
10138	Phenanthrene	85-01-8	33	0.71	1.8	1
10138	Pyrene	129-00-0	35	0.71	1.8	1

USF03 8862

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories

Sample Description: WRBS0082S005 Matrix Spike Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339378
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.5		1.3	3.9	1
10401	Dalapon	75-99-0	10		4.7	9.6	1
10401	2,4-DB	94-82-6	8.0		0.67	1.8	1
10401	Dicamba	1918-00-9	0.64	J	0.43	1.3	1
10401	Dinoseb	88-85-7	1.5	J	0.85	2.6	1
10401	2,4-DP (Dichloroprop)	120-36-5	9.8		0.85	1.8	1
10401	MCPA	94-74-6	690		81	270	1
10401	MCPP (Mecoprop)	93-65-2	740		80	270	1
10401	2,4,5-T	93-76-5	0.43		0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.67		0.081	0.18	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	5,000		650	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	23		0.32	0.43	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.30		0.071	0.18	1
01363	Alpha BHC	319-84-6	0.23		0.037	0.18	1
01363	Beta BHC	319-85-7	0.23		0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.25		0.037	0.18	1
01363	Chlordane	57-74-9	N.D.		0.86	3.7	1
01363	p,p-DDD	72-54-8	0.64		0.071	0.37	1
01363	p,p-DDE	72-55-9	0.56		0.071	0.37	1
01363	p,p-DDT	50-29-3	0.78		0.071	0.37	1
01363	Delta BHC	319-86-8	0.29		0.039	0.18	1
01363	Dieldrin	60-57-1	0.46		0.071	0.37	1
01363	Endosulfan I	959-98-8	0.13	J	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.50		0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.67		0.071	0.37	1
01363	Endrin	72-20-8	0.53		0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.66		0.071	0.37	1
01363	Endrin Ketone	53494-70-5	0.60		0.071	0.37	1
01363	Heptachlor	76-44-8	0.28		0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.37		0.037	0.18	1
01363	Methoxychlor	72-43-5	2.8		0.37	1.8	1
01363	Mirex	2385-85-5	N.D.		0.071	0.37	1
01363	Toxaphene	8001-35-2	N.D.		2.4	7.1	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	49,500		6.53	21.6	1
07914	Boron	7440-42-8	227		0.388	5.39	1
01650	Calcium	7440-70-2	6,030		2.70	21.6	1
01654	Iron	7439-89-6	46,100		14.1	108	5
01656	Lithium	7439-93-2	179		0.669	2.16	1
01657	Magnesium	7439-95-4	12,000		0.475	10.8	1
06958	Manganese	7439-96-5	483		0.0388	0.539	1
10145	Phosphorus	7723-14-0	557		0.378	10.8	1

USF03 08463

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Lancaster Laboratories

Sample Description: WRBS0082S005 Matrix Spike Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339378
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	9,470	12.2	53.9	1
01667	Sodium	7440-23-5	1,240	6.42	108	1
07968	Strontium	7440-24-6	176	0.0270	0.539	1
06969	Tin	7440-31-5	346	0.345	10.8	1
06970	Titanium	7440-32-6	2,530	0.383	5.39	5
10146	Zirconium	7440-67-7	101	0.496	5.39	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.514	0.0790	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	10.3	0.0854	0.427	2
06126	Barium	7440-39-3	152	0.113	0.427	2
06127	Beryllium	7440-41-7	1.73	0.0171	0.107	2
06128	Cadmium	7440-43-9	1.26	0.0470	0.107	2
06131	Chromium	7440-47-3	44.2	0.128	0.427	2
06132	Cobalt	7440-48-4	60.4	0.0214	0.107	2
06133	Copper	7440-50-8	28.7	0.0822	0.411	2
06135	Lead	7439-92-1	17.1	0.0109	0.214	2
06138	Molybdenum	7439-98-7	9.03	0.0534	0.107	2
06139	Nickel	7440-02-0	36.7	0.107	0.427	2
06141	Selenium	7782-49-2	2.23	0.0619	0.427	2
06142	Silver	7440-22-4	10.2	0.0152	0.107	2
06145	Thallium	7440-28-0	0.901	0.0320	0.107	2
06148	Vanadium	7440-62-2	86.9	0.0235	0.107	2
06149	Zinc	7440-66-6	111	0.575	3.08	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.192	0.00752	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	8.85	0.863	1.08	1
07336	Anions by 300.0 - Nitrate	14797-55-8	14.8	0.863	1.62	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	5.93	0.189	0.526	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
00118	Moisture	n.a.	7.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

USF03[illegible]664

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Lancaster Laboratories

Sample Description: WRBS0082S005 Matrix Spike Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339378
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

82S05 SDG#: USF03-10MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11193SLB026	07/23/2011 18:20	Linda M Hartenstine	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/14/2011 21:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 01:31	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 05:15	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 04:37	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 07:32	Melissa McDermott	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 10:47	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/22/2011 10:47	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 20:55	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:00	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 06:55	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:00	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:00	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:00	David K Beck	2

USF03 0065

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Lancaster Laboratories

Sample Description: WRBS0082S005 Matrix Spike Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339378
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 06:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 19:10	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 19:10	Ashley M Adams	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:22	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
00118	Moisture	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 8846

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Sample Description: WRBS0082S005 Matrix Spike Dup Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339379
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

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82S05 SDG#: USF03-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	18	180	1
04688	Acenaphthylene	208-96-8	1,700	18	180	1
04688	Anthracene	120-12-7	1,800	18	180	1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180	1
04688	Benzo(a)pyrene	50-32-8	1,700	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,900	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,600	18	180	1
04688	Butylbenzylphthalate	85-68-7	2,000	18	180	1
04688	Di-n-butylphthalate	84-74-2	1,800	18	180	1
04688	Chrysene	218-01-9	1,700	18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	18	180	1
04688	Diethylphthalate	84-66-2	1,600	18	180	1
04688	Dimethylphthalate	131-11-3	1,700	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	18	350	1
04688	Fluoranthene	206-44-0	1,600	18	180	1
04688	Fluorene	86-73-7	1,600	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	18	180	1
04688	1-Methylnaphthalene	90-12-0	1,500	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	Naphthalene	91-20-3	1,500	18	180	1
04688	Di-n-octylphthalate	117-84-0	1,900	18	180	1
04688	Phenanthrene	85-01-8	1,800	18	180	1
04688	Pyrene	129-00-0	1,900	18	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.71	1.8	1
10138	Acenaphthylene	208-96-8	35	0.36	1.8	1
10138	Anthracene	120-12-7	37	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	38	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	35	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	32	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	40	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	40	6.4	19	1
10138	Chrysene	218-01-9	34	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	37	0.71	1.8	1
10138	Diethylphthalate	84-66-2	39	6.4	19	1
10138	Dimethylphthalate	131-11-3	38	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45	6.4	19	1
10138	Fluoranthene	206-44-0	38	0.71	1.8	1
10138	Fluorene	86-73-7	36	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	31	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	31	0.71	1.8	1
10138	Naphthalene	91-20-3	30	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	39	6.4	19	1
10138	Phenanthrene	85-01-8	35	0.71	1.8	1
10138	Pyrene	129-00-0	36	0.71	1.8	1

USF03 8867

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Lancaster Laboratories

Sample Description: WRBS0082S005 Matrix Spike Dup Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339379
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

82S05 SDG#: USF03-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	
10401	2,4-D	94-75-7	7.3		1.3	3.9	1
10401	Dalapon	75-99-0	9.5	J	4.7	9.6	1
10401	2,4-DB	94-82-6	9.2		0.67	1.8	1
10401	Dicamba	1918-00-9	0.60	J	0.43	1.3	1
10401	Dinoseb	88-85-7	1.3	J	0.85	2.6	1
10401	2,4-DP (Dichloroprop)	120-36-5	9.3		0.85	1.8	1
10401	MCPA	94-74-6	640		81	270	1
10401	MCPP (Mecoprop)	93-65-2	670		80	270	1
10401	2,4,5-T	93-76-5	0.43		0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.66		0.081	0.18	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	
04173	Formaldehyde 8315A	50-00-0	5,300		650	1,600	1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	
06557	Perchlorate EPA 6850	14797-73-0	22		0.32	0.43	1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33		0.071	0.17	1
01363	Alpha BHC	319-84-6	0.25		0.037	0.17	1
01363	Beta BHC	319-85-7	0.24		0.065	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.037	0.17	1
01363	Chlordane	57-74-9	N.D.		0.85	3.6	1
01363	p,p-DDD	72-54-8	0.65		0.071	0.37	1
01363	p,p-DDE	72-55-9	0.56		0.071	0.37	1
01363	p,p-DDT	50-29-3	0.80		0.071	0.37	1
01363	Delta BHC	319-86-8	0.31		0.039	0.17	1
01363	Dieldrin	60-57-1	0.50		0.071	0.37	1
01363	Endosulfan I	959-98-8	0.14	J	0.047	0.17	1
01363	Endosulfan II	33213-65-9	0.50		0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.71		0.071	0.37	1
01363	Endrin	72-20-8	0.55		0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.68		0.071	0.37	1
01363	Endrin Ketone	53494-70-5	0.63		0.071	0.37	1
01363	Heptachlor	76-44-8	0.31		0.065	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.39		0.037	0.17	1
01363	Methoxychlor	72-43-5	2.9		0.37	1.8	1
01363	Mirex	2385-85-5	N.D.		0.071	0.37	1
01363	Toxaphene	8001-35-2	N.D.		2.4	7.1	1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	
01643	Aluminum	7429-90-5	51,000		6.53	21.6	1
07914	Boron	7440-42-8	229		0.388	5.39	1
01650	Calcium	7440-70-2	6,170		2.70	21.6	1
01654	Iron	7439-89-6	47,700		14.1	108	5
01656	Lithium	7439-93-2	185		0.669	2.16	1
01657	Magnesium	7439-95-4	12,400		0.475	10.8	1
06958	Manganese	7439-96-5	494		0.0388	0.539	1
10145	Phosphorus	7723-14-0	527		0.378	10.8	1

USF03 0868

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Lancaster Laboratories

Sample Description: WRBS0082S005 Matrix Spike Dup Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339379
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	
01662	Potassium	7440-09-7	9,510	12.2	53.9	1
01667	Sodium	7440-23-5	1,270	6.42	108	1
07968	Strontium	7440-24-6	177	0.0270	0.539	1
06969	Tin	7440-31-5	353	0.345	10.8	1
06970	Titanium	7440-32-6	2,630	0.383	5.39	5
10146	Zirconium	7440-67-7	104	0.496	5.39	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.480	0.0775	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	10.2	0.0838	0.419	2
06126	Barium	7440-39-3	153	0.111	0.419	2
06127	Beryllium	7440-41-7	1.71	0.0168	0.105	2
06128	Cadmium	7440-43-9	1.25	0.0461	0.105	2
06131	Chromium	7440-47-3	45.0	0.126	0.419	2
06132	Cobalt	7440-48-4	59.7	0.0209	0.105	2
06133	Copper	7440-50-8	32.0	0.0838	0.419	2
06135	Lead	7439-92-1	18.5	0.0107	0.209	2
06138	Molybdenum	7439-98-7	9.16	0.0524	0.105	2
06139	Nickel	7440-02-0	36.7	0.105	0.419	2
06141	Selenium	7782-49-2	2.10	0.0607	0.419	2
06142	Silver	7440-22-4	10.3	0.0149	0.105	2
06145	Thallium	7440-28-0	0.860	0.0314	0.105	2
06148	Vanadium	7440-62-2	86.5	0.0230	0.105	2
06149	Zinc	7440-66-6	124	0.587	3.14	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.169	0.00701	0.0996	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
00118	Moisture	n.a.	7.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11193SLB026	07/23/2011 18:45	Linda M Hartenstine	USF03-8869

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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Lancaster Laboratories

Sample Description: WRBS0082S005 Matrix Spike Dup Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339379
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/14/2011 22:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 01:41	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 05:42	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 04:50	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 07:48	Melissa McDermott	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 10:51	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/22/2011 10:51	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 20:59	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:03	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 06:57	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:03	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:03	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:03	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 06:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:14	Nelli S Markaryan	1

USF03 0078

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
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Lancaster Laboratories

Sample Description: WRBS0082S005 Matrix Spike Dup Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339379
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
00118	Moisture	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 0071

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0082S005 Duplicate Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339380
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	40,200	6.40	21.2	1
07914	Boron	7440-42-8	14.5	0.381	5.29	1
01650	Calcium	7440-70-2	5,430	2.64	21.2	1
01654	Iron	7439-89-6	43,200	13.8	106	5
01656	Lithium	7439-93-2	66.2	0.656	2.12	1
01657	Magnesium	7439-95-4	11,600	0.465	10.6	1
06958	Manganese	7439-96-5	415	0.0381	0.529	1
10145	Phosphorus	7723-14-0	391	0.370	10.6	1
01662	Potassium	7440-09-7	7,640	12.0	52.9	1
01667	Sodium	7440-23-5	166	6.29	106	1
07968	Strontium	7440-24-6	69.6	0.0264	0.529	1
06969	Tin	7440-31-5	2.82 J	0.338	10.6	1
06970	Titanium	7440-32-6	2,040	0.375	5.29	5
10146	Zirconium	7440-67-7	5.41	0.486	5.29	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.190 J	0.0790	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	8.15	0.0854	0.427	2
06126	Barium	7440-39-3	145	0.113	0.427	2
06127	Beryllium	7440-41-7	1.01	0.0171	0.107	2
06128	Cadmium	7440-43-9	0.202	0.0470	0.107	2
06131	Chromium	7440-47-3	35.7	0.128	0.427	2
06132	Cobalt	7440-48-4	13.0	0.0214	0.107	2
06133	Copper	7440-50-8	24.4	0.0838	0.419	2
06135	Lead	7439-92-1	14.4	0.0109	0.214	2
06138	Molybdenum	7439-98-7	0.436	0.0534	0.107	2
06139	Nickel	7440-02-0	28.0	0.107	0.427	2
06141	Selenium	7782-49-2	0.329 J	0.0619	0.427	2
06142	Silver	7440-22-4	0.0515 J	0.0152	0.107	2
06145	Thallium	7440-28-0	0.530	0.0320	0.107	2
06148	Vanadium	7440-62-2	75.4	0.0235	0.107	2
06149	Zinc	7440-66-6	128	0.587	3.14	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.00986 J	0.00730	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.16	0.863	1.08	1
07336	Anions by 300.0 - Nitrate	14797-55-8	3.76	0.863	1.62	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	0.377 J	0.216	1.08	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	USF03 8872
05895	Cyanide by 9012	57-12-5	N.D.	0.188	0.521	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
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Lancaster Laboratories

Sample Description: WRBS0082S005 Duplicate Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339380
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	490	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	99.9	0.50	1.0	1
07103	3.35 mm	n.a.	99.8	0.50	1.0	1
07103	2.36 mm	n.a.	99.5	0.50	1.0	1
07103	1.18 mm	n.a.	99.3	0.50	1.0	1
07103	0.6 mm	n.a.	99.1	0.50	1.0	1
07103	0.3 mm	n.a.	98.6	0.50	1.0	1
07103	0.15 mm	n.a.	98.1	0.50	1.0	1
07103	0.075 mm	n.a.	97.1	0.50	1.0	1
07103	0.064 mm	n.a.	93.0	0.50	1.0	1
07103	0.05 mm	n.a.	84.0	0.50	1.0	1
07103	0.02 mm	n.a.	60.0	0.50	1.0	1
07103	0.005 mm	n.a.	39.0	0.50	1.0	1
07103	0.002 mm	n.a.	29.0	0.50	1.0	1
07103	0.001 mm	n.a.	20.0	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	6.56	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
00118	Moisture	n.a.	7.3	0.50	0.50	1
00121	Moisture Duplicate	n.a.	7.3	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1

USF03 00073

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Lancaster Laboratories

Sample Description: WRBS0082S005 Duplicate Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339380
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

82S05 SDG#: USF03-10DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 10:43	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/22/2011 10:43	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 20:51	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 22:57	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06128	Cadmium	SW-846 6020	2	111931026003A	07/22/2011 22:57	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 06:53	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 22:57	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 22:57	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 22:57	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 06:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201A	07/09/2011 18:55	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201A	07/09/2011 18:55	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 20:18	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:23	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201A	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402B	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00118	Moisture	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 0074

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0082S005 Duplicate Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339380
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00121	Moisture Duplicate	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03-00075

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0082S005 Soluble Spike Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339381
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10SS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg	mg/kg	mg/kg	
05892	Cr VI by EPA 7199	18540-29-9	41.6	1.08	5.39	5
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
00118	Moisture	n.a.	7.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 20:36	Elyse P Brunstetter	5
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00118	Moisture	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 0076

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Sample Description: WRBS0082S005 Insoluble Spike Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339382
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10IS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg	mg/kg	mg/kg	
05892	Cr VI by EPA 7199	18540-29-9	1,160	21.6	108	100
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
00118	Moisture	n.a.	7.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 20:49	Elyse P Brunstetter	100
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00118	Moisture	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 8077

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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Analysis Report

Lancaster Laboratories

Sample Description: WRBS0082S005 Post Digestion Spike Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339383
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10PDS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg	mg/kg	mg/kg	
05892	Cr VI by EPA 7199	18540-29-9	44.0	2.16	10.8	10
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
00118	Moisture	n.a.	7.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 21:10	Elyse P Brunstetter	10
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00118	Moisture	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 8878

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
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Lancaster Laboratories

Sample Description: RLQQS00003 RL LCS Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339384
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

82S05 SDG#: USF03-10RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	150	J	17	170	1
04688	Acenaphthylene	208-96-8	150	J	17	170	1
04688	Anthracene	120-12-7	160	J	17	170	1
04688	Benzo(a)anthracene	56-55-3	170		17	170	1
04688	Benzo(a)pyrene	50-32-8	170		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	170		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	170		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	170		17	170	1
04688	Butylbenzylphthalate	85-68-7	170		17	170	1
04688	Di-n-butylphthalate	84-74-2	170		17	170	1
04688	Chrysene	218-01-9	170		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	170	J	17	170	1
04688	Diethylphthalate	84-66-2	170		17	170	1
04688	Dimethylphthalate	131-11-3	160	J	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	180	J	17	330	1
04688	Fluoranthene	206-44-0	170		17	170	1
04688	Fluorene	86-73-7	150	J	17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	160	J	17	170	1
04688	1-Methylnaphthalene	90-12-0	140	J	17	170	1
04688	2-Methylnaphthalene	91-57-6	150	J	17	170	1
04688	Naphthalene	91-20-3	150	J	17	170	1
04688	Di-n-octylphthalate	117-84-0	290		17	170	1
04688	Phenanthrene	85-01-8	170	J	17	170	1
04688	Pyrene	129-00-0	170		17	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	1.7		0.67	1.7	1
10138	Acenaphthylene	208-96-8	1.5	J	0.33	1.7	1
10138	Anthracene	120-12-7	1.4	J	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	1.8		0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.8		0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.7		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	N.D.		6.0	18	1
10138	Di-n-butylphthalate	84-74-2	9.3	J	6.0	18	1
10138	Chrysene	218-01-9	1.7		0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	2.0		0.67	1.7	1
10138	Diethylphthalate	84-66-2	N.D.		6.0	18	1
10138	Dimethylphthalate	131-11-3	N.D.		6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.8	J	6.0	18	1
10138	Fluoranthene	206-44-0	1.7		0.67	1.7	1
10138	Fluorene	86-73-7	1.7		0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	1.5	J	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	1.6	J	0.67	1.7	1
10138	Naphthalene	91-20-3	3.2		0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	7.3	J	6.0	18	1
10138	Phenanthrene	85-01-8	1.8		0.67	1.7	1
10138	Pyrene	129-00-0	1.8		0.67	1.7	1

USF03 0079

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
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Lancaster Laboratories

Sample Description: RLQQS00003 RL LCS Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339384
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.5		1.2	3.6	1
10401	Dalapon	75-99-0	8.1	J	4.4	9.0	1
10401	2,4-DB	94-82-6	1.3	J	0.62	1.7	1
10401	Dicamba	1918-00-9	0.48	J	0.40	1.2	1
10401	Dinoseb	88-85-7	1.3	J	0.80	2.4	1
10401	2,4-DP (Dichloroprop)	120-36-5	2.0		0.80	1.7	1
10401	MCPA	94-74-6	100	J	76	250	1
10401	MCPP (Mecoprop)	93-65-2	190	J	75	250	1
10401	2,4,5-T	93-76-5	0.15	J	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.13	J	0.075	0.17	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	
04173	Formaldehyde 8315A	50-00-0	1,600		600	1,500	1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	
06557	Perchlorate EPA 6850	14797-73-0	0.58		0.30	0.40	1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.11	J	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.091	J	0.034	0.17	1
01363	Beta BHC	319-85-7	0.15	J	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.11	J	0.034	0.17	1
01363	Chlordane	57-74-9	2.5	J	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.21	J	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.17	J	0.066	0.34	1
01363	p,p-DDT	50-29-3	0.32	J	0.066	0.34	1
01363	Delta BHC	319-86-8	0.15	J	0.036	0.17	1
01363	Dieldrin	60-57-1	0.23	J	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.072	J	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.24	J	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.33	J	0.066	0.34	1
01363	Endrin	72-20-8	0.26	J	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.30	J	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.32	J	0.066	0.34	1
01363	Heptachlor	76-44-8	0.11	J	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.19		0.034	0.17	1
01363	Methoxychlor	72-43-5	1.3	J	0.34	1.7	1
01363	Mirex	2385-85-5	0.34		0.066	0.34	1
01363	Toxaphene	8001-35-2	2.3	J	2.2	6.6	1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	
01643	Aluminum	7429-90-5	0.213		0.0605	0.200	1
07914	Boron	7440-42-8	0.0456	J	0.00360	0.0500	1
01650	Calcium	7440-70-2	0.212		0.0250	0.200	1
01654	Iron	7439-89-6	0.250		0.0261	0.200	1
01656	Lithium	7439-93-2	0.0189	J	0.00620	0.0200	1
01657	Magnesium	7439-95-4	0.104		0.00440	0.100	1
06958	Manganese	7439-96-5	0.00562		0.000360	0.00500	1
10145	Phosphorus	7723-14-0	0.113		0.00350	0.100	1

USF03 0008

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Lancaster, PA 17605-2425
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Lancaster Laboratories

Sample Description: RLQQS00003 RL LCS Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339384
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10RLQ

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	0.452 J	0.113	0.500	1
01667	Sodium	7440-23-5	0.937 J	0.0595	1.00	1
07968	Strontium	7440-24-6	0.00508	0.000250	0.00500	1
06969	Tin	7440-31-5	0.0358 J	0.00320	0.100	1
06970	Titanium	7440-32-6	0.0102	0.000710	0.0100	1
10146	Zirconium	7440-67-7	0.0499 J	0.00460	0.0500	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.00190 J	0.000740	0.00200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	0.00359 J	0.000800	0.00400	2
06126	Barium	7440-39-3	0.00425	0.00106	0.00400	2
06127	Beryllium	7440-41-7	0.000943 J	0.000160	0.00100	2
06128	Cadmium	7440-43-9	0.00105	0.000440	0.00100	2
06131	Chromium	7440-47-3	0.00374 J	0.00120	0.00400	2
06132	Cobalt	7440-48-4	0.000803 J	0.000200	0.00100	2
06133	Copper	7440-50-8	0.00576	0.000800	0.00400	2
06135	Lead	7439-92-1	0.00204	0.000102	0.00200	2
06138	Molybdenum	7439-98-7	0.00100	0.000500	0.00100	2
06139	Nickel	7440-02-0	0.00414	0.00100	0.00400	2
06141	Selenium	7782-49-2	0.00360 J	0.000580	0.00400	2
06142	Silver	7440-22-4	0.000956 J	0.000142	0.00100	2
06145	Thallium	7440-28-0	0.000988 J	0.000300	0.00100	2
06148	Vanadium	7440-62-2	0.00106	0.000220	0.00100	2
06149	Zinc	7440-66-6	0.0522	0.00560	0.0300	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.000554 J	0.0000422	0.000600	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.31	0.800	1.00	1
07336	Anions by 300.0 - Nitrate	14797-55-8	1.34 J	0.800	1.50	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	1.15	0.200	1.00	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	0.563	0.180	0.500	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

USF03 00001

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster Laboratories

Sample Description: RLQQS00003 RL LCS Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339384
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	11193SLB026	07/23/2011 14:06	Linda M Hartenstine	1
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/14/2011 20:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 01:50	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 03:25	John W Perkins	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 04:20	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 04:12	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 00:34	Melissa McDermott	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 00:50	Melissa McDermott	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 01:05	Melissa McDermott	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 08:12	Melissa McDermott	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 20:29	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 22:41	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06133	Copper	SW-846 6020	1	112041026002A	07/26/2011 06:44	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 22:41	David K Beck	2

USF03 0082

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: RLQQS00003 RL LCS Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339384
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:32 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S05 SDG#: USF03-10RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 22:41	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 22:41	David K Beck	2
06148	Vanadium	SW-846 6020	2	111931026003A	07/22/2011 22:41	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 06:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201B	07/09/2011 17:41	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201B	07/09/2011 17:41	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 17:55	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201A	07/14/2011 15:25	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201B	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201A	07/13/2011 15:15	Carolyn M Mastropietro	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1

USF03 0003

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Lancaster Laboratories

Sample Description: WRBS0082S040 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339385
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:54 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

82S40 SDG#: USF03-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.	660	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.	0.44	0.44	1
	Reporting limits were raised due to interference from the sample matrix.					
GC Miscellaneous	**SW-846 8015B**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol (by Direct Injection)	64-17-5	N.D.	110	550	1
10501	Methanol (by Direct Injection)	67-56-1	N.D.	110	550	1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	41,500	6.50	21.5	1
07914	Boron	7440-42-8	17.1	0.387	5.37	1
01650	Calcium	7440-70-2	5,640	2.69	21.5	1
01654	Iron	7439-89-6	45,800	14.0	107	5
01656	Lithium	7439-93-2	72.0	0.666	2.15	1
01657	Magnesium	7439-95-4	12,100	0.473	10.7	1
06958	Manganese	7439-96-5	400	0.0387	0.537	1
10145	Phosphorus	7723-14-0	369	0.376	10.7	1
01662	Potassium	7440-09-7	6,870	12.1	53.7	1
01667	Sodium	7440-23-5	294	6.40	107	1
07968	Strontium	7440-24-6	79.1	0.0269	0.537	1
06969	Tin	7440-31-5	2.81 J	0.344	10.7	1
06970	Titanium	7440-32-6	2,160	0.382	5.37	5
10146	Zirconium	7440-67-7	4.69 J	0.494	5.37	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141 J	0.0780	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.67	0.0843	0.422	2
06126	Barium	7440-39-3	135	0.112	0.422	2
06127	Beryllium	7440-41-7	0.913	0.0169	0.105	2
06128	Cadmium	7440-43-9	0.212	0.0464	0.105	2
06131	Chromium	7440-47-3	35.4	0.127	0.422	2
06132	Cobalt	7440-48-4	11.9	0.0211	0.105	2
06133	Copper	7440-50-8	23.6	0.0877	0.439	2
06135	Lead	7439-92-1	13.0	0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.327	0.0527	0.105	2
06139	Nickel	7440-02-0	25.3	0.105	0.422	2
06141	Selenium	7782-49-2	0.287 J	0.0612	0.422	2
06142	Silver	7440-22-4	0.0345 J	0.0150	0.105	2
06145	Thallium	7440-28-0	0.489	0.0316	0.105	2
06148	Vanadium	7440-62-2	74.7	0.0232	0.105	2
06149	Zinc	7440-66-6	128	0.614	3.29	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.00915 J	0.00742	0.106	1

USF03 8884.

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories

Sample Description: WRBS0082S040 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339385
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:54 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S40 SDG#: USF03-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	5.11	0.877	1.10	1
07336	Anions by 300.0 - Nitrate	14797-55-8	2.22	0.877	1.64	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	0.961 J	0.219	1.10	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.193	0.535	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	467	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	99.7	0.50	1.0	1
07103	2.36 mm	n.a.	98.7	0.50	1.0	1
07103	1.18 mm	n.a.	98.1	0.50	1.0	1
07103	0.6 mm	n.a.	97.1	0.50	1.0	1
07103	0.3 mm	n.a.	96.3	0.50	1.0	1
07103	0.15 mm	n.a.	95.3	0.50	1.0	1
07103	0.075 mm	n.a.	93.7	0.50	1.0	1
07103	0.064 mm	n.a.	89.0	0.50	1.0	1
07103	0.05 mm	n.a.	77.0	0.50	1.0	1
07103	0.02 mm	n.a.	55.0	0.50	1.0	1
07103	0.005 mm	n.a.	33.0	0.50	1.0	1
07103	0.002 mm	n.a.	17.0	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	7.12	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
00111	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

USF03-00005

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Lancaster Laboratories

Sample Description: WRBS0082S040 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339385
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:54 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S40 SDG#: USF03-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 02:00	James H Place	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 07:10	Jenifer E Lewis	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
10501	Alcohols in Soil	SW-846 8015B	1	111940030A	07/15/2011 01:23	Elizabeth J Marin	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	111940030A	07/14/2011 20:00	Elizabeth J Marin	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:42	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/22/2011 11:42	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 21:55	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:43	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:22	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:43	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:43	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:43	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1

Urgent 2006

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Lancaster Laboratories

Sample Description: WRBS0082S040 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339385
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 12:54 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

82S40 SDG#: USF03-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201B	07/09/2011 22:06	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201B	07/09/2011 22:06	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 21:29	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201B	07/14/2011 15:26	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201B	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201B	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402B	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 0887

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Lancaster Laboratories

Sample Description: WRBS0087S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339386
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:28 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

87S05 SDG#: USF03-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	N.D.	0.69	1.7	1
10138	Acenaphthylene	208-96-8	N.D.	0.34	1.7	1
10138	Anthracene	120-12-7	N.D.	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	N.D.	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	N.D.	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	N.D.	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	N.D.	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	N.D.	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	82	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	N.D.	6.2	19	1
10138	Chrysene	218-01-9	N.D.	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	N.D.	0.69	1.7	1
10138	Diethylphthalate	84-66-2	N.D.	6.2	19	1
10138	Dimethylphthalate	131-11-3	N.D.	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	26	6.2	19	1
10138	Fluoranthene	206-44-0	N.D.	0.69	1.7	1
10138	Fluorene	86-73-7	N.D.	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	N.D.	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	N.D.	0.69	1.7	1
10138	Naphthalene	91-20-3	N.D.	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	N.D.	6.2	19	1
10138	Phenanthrene	85-01-8	N.D.	0.69	1.7	1
10138	Pyrene	129-00-0	N.D.	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	N.D.	1.2	3.7	1
10401	Dalapon	75-99-0	N.D.	4.5	9.3	1
10401	2,4-DB	94-82-6	N.D.	4.5	4.5	1
10401	Dicamba	1918-00-9	N.D.	0.41	1.2	1
10401	Dinoseb	88-85-7	N.D.	0.82	2.5	1
10401	2,4-DP (Dichloroprop)	120-36-5	N.D.	0.82	1.8	1
10401	MCPA	94-74-6	N.D.	78	260	1
10401	MCPP (Mecoprop)	93-65-2	N.D.	77	260	1
10401	2,4,5-T	93-76-5	N.D.	0.085	0.18	1
10401	2,4,5-TP	93-72-1	N.D.	0.077	0.18	1
	Reporting limits were raised for 2,4-DB due to interference from the sample matrix.					
HPLC Organics	**SW-846 8315A**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.	620	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.	0.31	0.42	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	N.D.	0.068	0.17	1
01363	Alpha BHC	319-84-6	N.D.	0.035	0.17	1
01363	Beta BHC	319-85-7	N.D.	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	N.D.	0.035	0.17	1

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Lancaster Laboratories

Sample Description: WRBS0087S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339386
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:28 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

87S05 SDG#: USF03-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	
01363	Chlordane	57-74-9	N.D.		0.83	3.5	1
01363	p,p-DDD	72-54-8	N.D.		0.068	0.35	1
01363	p,p-DDE	72-55-9	0.99		0.068	0.35	1
01363	p,p-DDT	50-29-3	1.1		0.068	0.35	1
01363	Delta BHC	319-86-8	N.D.		3.3	3.3	10
01363	Dieldrin	60-57-1	0.17	J	0.068	0.35	1
01363	Endosulfan I	959-98-8	N.D.		0.046	0.17	1
01363	Endosulfan II	33213-65-9	N.D.		0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	N.D.		0.068	0.35	1
01363	Endrin	72-20-8	N.D.		0.23	0.35	1
01363	Endrin Aldehyde	7421-93-4	N.D.		0.068	0.35	1
01363	Endrin Ketone	53494-70-5	N.D.		0.068	0.35	1
01363	Heptachlor	76-44-8	N.D.		0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	N.D.		0.035	0.17	1
01363	Methoxychlor	72-43-5	N.D.		1.7	1.7	1
01363	Mirex	2385-85-5	N.D.		1.0	1.0	1
01363	Toxaphene	8001-35-2	N.D.		2.3	6.8	1
	Reporting limits were raised for delta-BHC, mirex, methoxychlor and endrin due to interference from the sample matrix.						
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,300		6.29	20.8	1
07914	Boron	7440-42-8	10.4		0.374	5.20	1
01650	Calcium	7440-70-2	4,690		2.60	20.8	1
01654	Iron	7439-89-6	36,000		13.6	104	5
01656	Lithium	7439-93-2	46.6		0.644	2.08	1
01657	Magnesium	7439-95-4	10,300		0.457	10.4	1
06958	Manganese	7439-96-5	351		0.0374	0.520	1
10145	Phosphorus	7723-14-0	807		0.364	10.4	1
01662	Potassium	7440-09-7	5,860		11.7	52.0	1
01667	Sodium	7440-23-5	136		6.19	104	1
07968	Strontium	7440-24-6	30.7		0.0260	0.520	1
06969	Tin	7440-31-5	2.67	J	0.333	10.4	1
06970	Titanium	7440-32-6	1,500		0.0738	1.04	1
10146	Zirconium	7440-67-7	6.73		0.478	5.20	1
	SW-846 6020		mg/kg		mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.121	J	0.0740	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.68		0.0800	0.400	2
06126	Barium	7440-39-3	101		0.106	0.400	2
06127	Beryllium	7440-41-7	0.601		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.251		0.0440	0.100	2
06131	Chromium	7440-47-3	32.1		0.120	0.400	2
06132	Cobalt	7440-48-4	9.80		0.0200	0.100	2
06133	Copper	7440-50-8	15.6		0.0815	0.408	2
06135	Lead	7439-92-1	8.65		0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.463		0.0500	0.100	2
06139	Nickel	7440-02-0	17.3		0.100	0.400	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0087S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339386
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:28 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
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Austin TX 78720

87S05 SDG#: USF03-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06141	Selenium	7782-49-2	0.182 J	0.0580	0.400	2
06142	Silver	7440-22-4	0.0255 J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.362	0.0300	0.100	2
06148	Vanadium	7440-62-2	65.4	0.0220	0.100	2
06149	Zinc	7440-66-6	121	0.571	3.06	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.00907 J	0.00722	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.20	0.832	1.04	1
07336	Anions by 300.0 - Nitrate	14797-55-8	1.55 J	0.832	1.56	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	0.656 J	0.208	1.04	1
	SW-846 9012A		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.	0.178	0.495	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	OR Potential	n.a.	465	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
Wet Chemistry	**ASTM D422**		**% Passing**	**% Passing**	**% Passing**	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	99.8	0.50	1.0	1
07103	2.36 mm	n.a.	98.7	0.50	1.0	1
07103	1.18 mm	n.a.	98.4	0.50	1.0	1
07103	0.6 mm	n.a.	97.1	0.50	1.0	1
07103	0.3 mm	n.a.	95.9	0.50	1.0	1
07103	0.15 mm	n.a.	94.8	0.50	1.0	1
07103	0.075 mm	n.a.	89.7	0.50	1.0	1
07103	0.064 mm	n.a.	76.0	0.50	1.0	1
07103	0.05 mm	n.a.	49.0	0.50	1.0	1
07103	0.02 mm	n.a.	19.5	0.50	1.0	1
07103	0.005 mm	n.a.	8.5	0.50	1.0	1
07103	0.002 mm	n.a.	1.0	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	6.79	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	

USF03 8890

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Lancaster Laboratories

Sample Description: WRBS0087S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339386
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:28 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

87S05 SDG#: USF03-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
00111	Moisture Content by 160.3	n.a.	3.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	Selected SVOAs in soil by SIM	SW-846 8270C SIM	1	11194SLD026	07/15/2011 11:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11194SLD026	07/14/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11193SLB026	07/13/2011 07:15	Katheryne V Sponheimer	1
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 02:10	James H Place	1
10401	Herbicide soils 8151A Master	SW-846 8151A	1	111930026A	07/15/2011 20:51	John W Perkins	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 07:23	Jenifer E Lewis	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/20/2011 08:27	Melissa McDermott	1
01363	OC Pesticides in Solids	SW-846 8081A	1	111930027A	07/26/2011 09:09	Melissa McDermott	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111930027A	07/13/2011 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111930026A	07/13/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:46	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1

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Lancaster Laboratories

Sample Description: WRBS0087S005 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339386
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:28 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

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Austin TX 78720

87S05 SDG#: USF03-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 22:07	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:52	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	111931026003A	07/14/2011 17:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:27	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:52	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:52	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:52	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201B	07/09/2011 23:20	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201B	07/09/2011 23:20	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 21:48	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201B	07/14/2011 15:27	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201B	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201B	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402B	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USR03 8892

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Lancaster Laboratories

Sample Description: WRBS0087S040 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339387
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:50 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

87S40 SDG#: USF03-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	Formaldehyde 8315A	50-00-0	N.D.	640	1,600	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	Perchlorate EPA 6850	14797-73-0	N.D.	0.32	0.43	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol (by Direct Injection)	64-17-5	N.D.	110	530	1
10501	Methanol (by Direct Injection)	67-56-1	N.D.	110	530	1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100	6.43	21.3	1
07914	Boron	7440-42-8	11.3	0.383	5.31	1
01650	Calcium	7440-70-2	4,860	2.66	21.3	1
01654	Iron	7439-89-6	37,300	13.9	106	5
01656	Lithium	7439-93-2	51.1	0.659	2.13	1
01657	Magnesium	7439-95-4	11,500	0.468	10.6	1
06958	Manganese	7439-96-5	344	0.0383	0.531	1
10145	Phosphorus	7723-14-0	640	0.372	10.6	1
01662	Potassium	7440-09-7	4,600	12.0	53.1	1
01667	Sodium	7440-23-5	164	6.32	106	1
07968	Strontium	7440-24-6	33.5	0.0266	0.531	1
06969	Tin	7440-31-5	2.25 J	0.340	10.6	1
06970	Titanium	7440-32-6	1,540	0.0755	1.06	1
10146	Zirconium	7440-67-7	5.79	0.489	5.31	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.118 J	0.0763	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.98	0.0825	0.413	2
06126	Barium	7440-39-3	99.0	0.109	0.413	2
06127	Beryllium	7440-41-7	0.642	0.0165	0.103	2
06128	Cadmium	7440-43-9	0.158	0.0454	0.103	2
06131	Chromium	7440-47-3	32.8	0.124	0.413	2
06132	Cobalt	7440-48-4	10.0	0.0206	0.103	2
06133	Copper	7440-50-8	20.3	0.0810	0.405	2
06135	Lead	7439-92-1	8.24	0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.407	0.0516	0.103	2
06139	Nickel	7440-02-0	18.0	0.103	0.413	2
06141	Selenium	7782-49-2	0.173 J	0.0598	0.413	2
06142	Silver	7440-22-4	0.0349 J	0.0147	0.103	2
06145	Thallium	7440-28-0	0.419	0.0310	0.103	2
06148	Vanadium	7440-62-2	65.1	0.0227	0.103	2
06149	Zinc	7440-66-6	140	0.567	3.04	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	USF03 8893
00159	Mercury	7439-97-6	N.D.	0.00724	0.103	1

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*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0087S040 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339387
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:50 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

87S40 SDG#: USF03-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	Anions by 300.0 - Fluoride	16984-48-8	1.51		0.850	1.06	1
07336	Anions by 300.0 - Nitrate	14797-55-8	0.861	J	0.850	1.59	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	Cr VI by EPA 7199	18540-29-9	0.520	J	0.213	1.06	1
	SW-846 9012A		**mg/kg**		**mg/kg**	**mg/kg**	
05895	Cyanide by 9012	57-12-5	N.D.		0.188	0.523	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	OR Potential	n.a.	378		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
Wet Chemistry	**ASTM D422**		**% Passing**		**% Passing**	**% Passing**	
07103	75 mm	n.a.	100		0.50	1.0	1
07103	37.5 mm	n.a.	100		0.50	1.0	1
07103	19 mm	n.a.	100		0.50	1.0	1
07103	4.75 mm	n.a.	93.6		0.50	1.0	1
07103	3.35 mm	n.a.	87.9		0.50	1.0	1
07103	2.36 mm	n.a.	81.6		0.50	1.0	1
07103	1.18 mm	n.a.	79.2		0.50	1.0	1
07103	0.6 mm	n.a.	74.9		0.50	1.0	1
07103	0.3 mm	n.a.	72.8		0.50	1.0	1
07103	0.15 mm	n.a.	71.3		0.50	1.0	1
07103	0.075 mm	n.a.	65.5		0.50	1.0	1
07103	0.064 mm	n.a.	57.0		0.50	1.0	1
07103	0.05 mm	n.a.	40.0		0.50	1.0	1
07103	0.02 mm	n.a.	15.0		0.50	1.0	1
07103	0.005 mm	n.a.	5.5		0.50	1.0	1
07103	0.002 mm	n.a.	1.0		0.50	1.0	1
07103	0.001 mm	n.a.	N.D.		0.50	1.0	1
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**		**Std. Units**	**Std. Units**	
00394	pH by 9045C	n.a.	7.24		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
00111	Moisture Content by 160.3	n.a.	5.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

USF03 0894

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Lancaster Laboratories

Sample Description: WRBS0087S040 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339387
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:50 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

87S40 SDG#: USF03-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	Formaldehyde 8315A	SW-846 8315A	1	111950004A	07/16/2011 02:19	James H Place	1
06557	Perchlorate EPA 6850	SW-846 6850 1/2007	1	112160001A	08/05/2011 07:36	Jenifer E Lewis	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112160001A	08/04/2011 10:30	Nicholas R Rossi	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111950004A	07/14/2011 12:00	Kelli M Barto	1
10501	Alcohols in Soil	SW-846 8015B	1	111940030A	07/15/2011 01:38	Elizabeth J Marin	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	111940030A	07/14/2011 20:00	Elizabeth J Marin	1
01643	Aluminum	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111935708005	07/22/2011 11:50	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111935708005	07/21/2011 22:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06125	Arsenic	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06126	Barium	SW-846 6020	3	111931026003D	07/22/2011 23:55	David K Beck	2
06127	Beryllium	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06128	Cadmium	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06131	Chromium	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06132	Cobalt	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06133	Copper	SW-846 6020	4	112041026002A	07/26/2011 07:29	Choon Y Tian	2
06135	Lead	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06138	Molybdenum	SW-846 6020	3	111931026003C	07/22/2011 23:55	David K Beck	2
06139	Nickel	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06141	Selenium	SW-846 6020	3	111931026003B	07/22/2011 23:55	David K Beck	2
06142	Silver	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06145	Thallium	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06148	Vanadium	SW-846 6020	3	111931026003A	07/22/2011 23:55	David K Beck	2
06149	Zinc	SW-846 6020	2	112041026002A	07/26/2011 07:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111935711004	07/13/2011 18:18	Nelli S Markarian	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111935708005	07/13/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111931026003	07/13/2011 13:22	James L Mertz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: WRBS0087S040 Soil
Santa Susana Field Laboratory

LLI Sample # SW 6339387
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 10:50 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
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Austin TX 78720

87S40 SDG#: USF03-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111961026003	07/15/2011 22:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	3	112041026002	07/24/2011 11:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111935711004	07/13/2011 15:00	James L Mertz	1
07332	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621201B	07/09/2011 23:34	Ashley M Adams	1
07336	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621201B	07/09/2011 23:34	Ashley M Adams	1
05892	Cr VI by EPA 7199	SW-846 7199	1	11200243202A	07/20/2011 22:06	Elyse P Brunstetter	1
05895	Cyanide by 9012	SW-846 9012A	1	11194102201B	07/14/2011 15:33	Venia B McFadden	1
01352	Anions by 300.0 - Extract.	EPA 300.0	1	11190621201B	07/09/2011 14:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012A	1	11194102201B	07/13/2011 15:15	Carolyn M Mastropietro	1
01821	OR Potential	ASTM D1498	1	11194182103B	07/13/2011 11:45	Michelle L Lalli	1
07103	Grain Size to 1 um	ASTM D422	1	11194710301A	07/13/2011 21:00	Luz M Groff	1
00394	pH by 9045C	SW-846 9045C modified	1	11194039402B	07/13/2011 11:10	Michelle L Lalli	1
02432	Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11200243202A	07/19/2011 22:00	Daniel S Smith	1
00111	Moisture Content by 160.3	EPA 160.3 modified	2	11191820001A	07/11/2011 05:01	William C Schwebel	1

USF03 2996

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Lancaster Laboratories

Sample Description: EBQW00003 Water
Santa Susana Field Laboratory

LLI Sample # WW 6339388
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 13:45 by EW

URS Corporation
PO Box 203970
Austin TX 78720

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

EBQ03 SDG#: USF03-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	Di-n-butylphthalate	84-74-2	N.D.		1.9	4.8	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1.9	4.8	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	N.D.		0.0099	0.049	1
10137	Acenaphthylene	208-96-8	N.D.		0.0099	0.049	1
10137	Anthracene	120-12-7	N.D.		0.0099	0.049	1
10137	Benzo(a)anthracene	56-55-3	N.D.		0.0099	0.049	1
10137	Benzo(a)pyrene	50-32-8	N.D.		0.0099	0.049	1
10137	Benzo(b)fluoranthene	205-99-2	N.D.		0.0099	0.049	1
10137	Benzo(g,h,i)perylene	191-24-2	N.D.		0.0099	0.049	1
10137	Benzo(k)fluoranthene	207-08-9	N.D.		0.0099	0.049	1
10137	Butylbenzylphthalate	85-68-7	0.14	J	0.049	0.99	1
10137	Chrysene	218-01-9	N.D.		0.0099	0.049	1
10137	Dibenz(a,h)anthracene	53-70-3	N.D.		0.0099	0.049	1
10137	Diethylphthalate	84-66-2	0.22	J	0.049	0.99	1
10137	Dimethylphthalate	131-11-3	N.D.		0.049	0.99	1
10137	Fluoranthene	206-44-0	N.D.		0.0099	0.049	1
10137	Fluorene	86-73-7	0.011	J	0.0099	0.049	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.0099	0.049	1
10137	1-Methylnaphthalene	90-12-0	N.D.		0.0099	0.049	1
10137	2-Methylnaphthalene	91-57-6	N.D.		0.0099	0.049	1
10137	Naphthalene	91-20-3	0.050		0.030	0.049	1
10137	Di-n-octylphthalate	117-84-0	N.D.		0.049	0.99	1
10137	Phenanthrene	85-01-8	N.D.		0.030	0.049	1
10137	Pyrene	129-00-0	N.D.		0.0099	0.049	1
Diethylphthalate was detected in the method blank at a concentration of .062 ug/l. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	N.D.		0.15	0.48	1
10407	Dalapon	75-99-0	N.D.		0.24	1.2	1
10407	2,4-DB	94-82-6	N.D.		0.29	0.97	1
10407	Dicamba	1918-00-9	N.D.		0.077	0.29	1
10407	Dinoseb	88-85-7	N.D.		0.097	0.48	1
10407	2,4-DP (Dichlorprop)	120-36-5	N.D.		0.15	0.48	1
10407	MCPA	94-74-6	N.D.		290	970	1
10407	MCPP	93-65-2	N.D.		48	190	1
10407	2,4,5-T	93-76-5	N.D.		0.014	0.048	1
10407	2,4,5-TP	93-72-1	N.D.		0.0097	0.048	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	
04144	Formaldehyde 8315A	50-00-0	14	J	10	50	1
Perchlorate	**SW-846 6850 1/2007**		**ug/l**		**ug/l**	**ug/l**	
06386	Perchlorate EPA 6850	14797-73-0	N.D.		0.20	1.0	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	N.D.		0.0019	0.0096	1

USF03 0027

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Lancaster Laboratories

Sample Description: EBQW00003 Water
Santa Susana Field Laboratory

LLI Sample # WW 6339388
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 13:45 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

EBQ03 SDG#: USF03-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	
00177	Alpha BHC	319-84-6	0.028	0.0029	0.0096	1
00177	Beta BHC	319-85-7	N.D.	0.0028	0.0096	1
00177	Gamma BHC - Lindane	58-89-9	N.D.	0.0019	0.0096	1
00177	Chlordane	57-74-9	N.D.	0.12	0.48	1
00177	p,p-DDD	72-54-8	N.D.	0.0048	0.019	1
00177	p,p-DDE	72-55-9	N.D.	0.0048	0.019	1
00177	p,p-DDT	50-29-3	N.D.	0.0048	0.019	1
00177	Delta BHC	319-86-8	N.D.	0.0028	0.0096	1
00177	Dieldrin	60-57-1	N.D.	0.0051	0.019	1
00177	Endosulfan I	959-98-8	N.D.	0.0041	0.0096	1
00177	Endosulfan II	33213-65-9	N.D.	0.014	0.019	1
00177	Endosulfan Sulfate	1031-07-8	N.D.	0.0056	0.019	1
00177	Endrin	72-20-8	N.D.	0.0078	0.019	1
00177	Endrin Aldehyde	7421-93-4	N.D.	0.019	0.096	1
00177	Endrin Ketone	53494-70-5	N.D.	0.0048	0.019	1
00177	Heptachlor	76-44-8	0.0071 J	0.0025	0.0096	1
00177	Heptachlor Epoxide	1024-57-3	N.D.	0.0022	0.0096	1
00177	Methoxychlor	72-43-5	N.D.	0.029	0.096	1
00177	Mirex	2385-85-5	N.D.	0.081	0.24	1
00177	Toxaphene	8001-35-2	N.D.	0.96	2.9	1
GC Miscellaneous	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	N.D.	200	1,000	1
06624	Methanol	67-56-1	N.D.	200	1,000	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0801	0.200	1
08014	Boron	7440-42-8	0.00924 J	0.00220	0.0500	1
01750	Calcium	7440-70-2	N.D.	0.0705	0.200	1
01754	Iron	7439-89-6	N.D.	0.0141	0.200	1
01756	Lithium	7439-93-2	N.D.	0.00760	0.0200	1
01757	Magnesium	7439-95-4	N.D.	0.00670	0.100	1
07058	Manganese	7439-96-5	N.D.	0.000440	0.00500	1
10143	Phosphorus	7723-14-0	N.D.	0.00470	0.100	1
01762	Potassium	7440-09-7	N.D.	0.0874	0.500	1
01767	Sodium	7440-23-5	N.D.	0.0647	1.00	1
08068	Strontium	7440-24-6	0.000430 J	0.000220	0.00500	1
07069	Tin	7440-31-5	N.D.	0.00430	0.0200	1
07070	Titanium	7440-32-6	N.D.	0.000460	0.0100	1
10144	Zirconium	7440-67-7	N.D.	0.00420	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.000420	0.00100	1
06025	Arsenic	7440-38-2	N.D.	0.000950	0.00200	1
06026	Barium	7440-39-3	N.D.	0.000690	0.00200	1
06027	Beryllium	7440-41-7	N.D.	0.000130	0.000500	1
06028	Cadmium	7440-43-9	N.D.	0.000200	0.000500	1
06031	Chromium	7440-47-3	N.D.	0.000600	0.00200	1
06032	Cobalt	7440-48-4	N.D.	0.000100	0.000500	1
06033	Copper	7440-50-8	N.D.	0.000380	0.00200	1

USF03 8098

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Lancaster Laboratories

Sample Description: EBQW00003 Water
Santa Susana Field Laboratory

LLI Sample # WW 6339388
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 13:45 by EW

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URS Corporation
PO Box 203970
Austin TX 78720

EBQ03 SDG#: USF03-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	
06035	Lead	7439-92-1	N.D.	0.0000800	0.00100	1
06038	Molybdenum	7439-98-7	N.D.	0.000250	0.000500	1
06039	Nickel	7440-02-0	N.D.	0.000500	0.00200	1
06041	Selenium	7782-49-2	N.D.	0.000270	0.00200	1
06042	Silver	7440-22-4	N.D.	0.0000980	0.000500	1
06045	Thallium	7440-28-0	N.D.	0.000150	0.000500	1
06048	Vanadium	7440-62-2	N.D.	0.000180	0.000500	1
06049	Zinc	7440-66-6	N.D.	0.00400	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.0000260	0.000200	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	Anions by 300.0 - Fluoride	16984-48-8	N.D.	0.0800	0.100	1
00368	Anions by 300.0 - Nitrate	14797-55-8	N.D.	0.0500	0.100	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	Cr VI by EPA 7199	18540-29-9	N.D.	5.00	10.0	1
	SW-846 9012A		**mg/l**	**mg/l**	**mg/l**	
08255	Cyanide by 9012	57-12-5	N.D.	0.00500	0.0100	1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.4C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 4.7-11.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	11192WAB026	07/16/2011 03:31	Ryan P Byrne	1
10137	Selected SVOAs in water by SIM	SW-846 8270C SIM	1	11192WAG026	07/14/2011 11:08	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11192WAB026	07/11/2011 19:00	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11192WAG026	07/12/2011 08:52	Cynthia J Salvatori	1
04144	Formaldehyde 8315A	SW-846 8315A	1	111920003A	07/12/2011 12:00	Michele D Ham	1
10407	Herb water 8151A Master	SW-846 8151A	1	111930002A	07/13/2011 21:10	John W Perkins	1

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Lancaster Laboratories

Sample Description: EBQW00003 Water
Santa Susana Field Laboratory

LLI Sample # WW 6339388
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 13:45 by EW

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

EBQ03 SDG#: USF03-14EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06386	Perchlorate EPA 6850	SW-846 6850 1/2007	1	111960004A	07/15/2011 18:24	Jenifer E Lewis	1
00177	OC Pesticides in Water	SW-846 8081A	1	111940013A	07/14/2011 23:29	Lisa A Reinert	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111940013A	07/13/2011 15:40	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111930002A	07/12/2011 12:30	Olivia I Santiago	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111920003A	07/11/2011 14:30	Kelli M Barto	1
06624	Alcohols by 8015B	SW-846 8015B	1	111900018A	07/14/2011 06:15	Elizabeth J Marin	1
01743	Aluminum	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	111931848002	07/17/2011 21:31	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111936050003D	07/13/2011 13:12	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111936050003C	07/13/2011 13:12	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111936050003B	07/13/2011 13:12	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111936050003A	07/13/2011 13:12	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111935713004	07/12/2011 18:42	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111931848002	07/12/2011 13:16	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111936050003	07/12/2011 13:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111935713004	07/12/2011 14:40	Nelli S Markaryan	1
01504	Anions by 300.0 - Fluoride	EPA 300.0	1	11190621901A	07/09/2011 11:05	Ashley M Adams	1
00368	Anions by 300.0 - Nitrate	EPA 300.0	1	11190621901A	07/09/2011 11:05	Ashley M Adams	1
06467	Cr VI by EPA 7199	SW-846 7199	1	11190281401A	07/09/2011 11:48	Elyse P Brunstetter	1
08255	Cyanide by 9012	SW-846 9012A	1	11193117101A	07/13/2011 19:40	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012A	1	11193117101A	07/12/2011 16:20	Carolyn M Mastropietro	1

USF03 8160

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Lancaster Laboratories

Sample Description: TBQW00004 Water
Santa Susana Field Laboratory

LLI Sample # WW 6339390
LLI Group # 1255436
Account # 11312

Project Name: SSFL-Chemical Soil Background Study

Collected: 07/08/2011 07:30

Submitted: 07/09/2011 09:05
Reported: 12/13/2011 08:26

URS Corporation
PO Box 203970
Austin TX 78720

TBQ04 SDG#: USF03-16TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	N.D.	200	1,000	1
06624	Methanol	67-56-1	N.D.	200	1,000	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06624	Alcohols by 8015B	SW-846 8015B	1	111900018A	07/14/2011 06:45	Elizabeth J Marin	1

USF03 0181

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Semivolatiles by GC/MS Data

Case Narrative
Conformance/Nonconformance Summary

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

TCL SW846 Semivolatiles/Waters
TCL SW846 Semivolatiles Soil

Sample #	Client ID	Matrix Liquid	Matrix Solid	Comments
6339368	WRBS0015S005		X	
6339370	WRBS0017S005		X	
6339372	WRBS0019S005		X	
6339374	WRBS0021S005		X	
6339375	WRBS0074S005		X	
6339377	WRBS0082S005		X	Unspiked
6339378	WRBS0082S005 Matrix Spike		X	Matrix Spike
6339379	WRBS0082S005 Matrix Spike Dup		X	Matrix Spike Duplicate
6339384	WRBS0082S005 RL LCS		X	RLQ
6339386	WRBS0087S005		X	
6339388	EBQW00003	X		Equipment Blank

See QC Reference List for Associated Batch QC Samples.

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples.

ANALYSIS:

There were no dilutions performed for analyses associated with samples in this SDG.

No problems were encountered with the analysis of the samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

The retention times for a number of compounds in CCV file eg0591a 07/15a/11 (instrument HP09572) are outside of specifications due to the trimming of the column during routine maintenance.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 7/26/11 (Date) by Jessica R. Baum

USF03 0105

Quality Control and Calibration Summary Forms

Lancaster Laboratories

Quality Control Reference List
GC/MS Semivolatiles

CLIENT: URS Corporation
SDG: USF03

Fraction: Semivolatiles by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
TCL SW846 Semivolatiles Soil	11193SLB026	SBLKLB193	07/23/2011 12:26:00
		193LBLCS	07/23/2011 12:51:00
		193LBLCSD	07/23/2011 13:16:00
		6339368	07/24/2011 12:44:00
		6339370	07/24/2011 13:09:00
		6339372	07/24/2011 13:33:00
		6339374	07/24/2011 13:58:00
		6339375	07/24/2011 14:23:00
		6339377 UNSPK	07/23/2011 17:55:00
		6339378 MS	07/23/2011 18:20:00
		6339379 MSD	07/23/2011 18:45:00
		6339384 RLQ	07/23/2011 14:06:00
		6339386	07/24/2011 14:48:00
TCL SW846 Semivolatiles/Waters	11192WAB026	SBLKWB192	07/16/2011 01:27:00
		192WBLCS	07/16/2011 01:52:00
		192WBLCSD	07/16/2011 02:17:00
		6339388	07/16/2011 03:31:00

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Quality Control Summary
Method Blank
GC/MS Semivolatiles
SDG: USF03
Matrix: LIQUID

Fraction: Semivolatiles by GC/MS

11192WAB026 / SBLKWB192 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Naphthalene	07/16/11	N.D.	ug/l	1	5
2-Methylnaphthalene	07/16/11	N.D.	ug/l	1	5
1-Methylnaphthalene	07/16/11	N.D.	ug/l	1	5
Dimethylphthalate	07/16/11	N.D.	ug/l	2	5
Acenaphthylene	07/16/11	N.D.	ug/l	1	5
Acenaphthene	07/16/11	N.D.	ug/l	1	5
Diethylphthalate	07/16/11	N.D.	ug/l	2	5
Fluorene	07/16/11	N.D.	ug/l	1	5
Phenanthrene	07/16/11	N.D.	ug/l	1	5
Anthracene	07/16/11	N.D.	ug/l	1	5
Di-n-butylphthalate	07/16/11	N.D.	ug/l	2	5
Fluoranthene	07/16/11	N.D.	ug/l	1	5
Pyrene	07/16/11	N.D.	ug/l	1	5
Butylbenzylphthalate	07/16/11	N.D.	ug/l	2	5
bis(2-Ethylhexyl)phthalate	07/16/11	N.D.	ug/l	2	5
Benzo(a)anthracene	07/16/11	N.D.	ug/l	1	5
Chrysene	07/16/11	N.D.	ug/l	1	5
Di-n-octylphthalate	07/16/11	N.D.	ug/l	2	5
Benzo(b)fluoranthene	07/16/11	N.D.	ug/l	1	5
Benzo(k)fluoranthene	07/16/11	N.D.	ug/l	1	5
Benzo(a)pyrene	07/16/11	N.D.	ug/l	1	5
Indeno(1,2,3-cd)pyrene	07/16/11	N.D.	ug/l	1	5
Dibenz(a,h)anthracene	07/16/11	N.D.	ug/l	1	5
Benzo(g,h,i)perylene	07/16/11	N.D.	ug/l	1	5

USF03 01188

Lancaster Laboratories

Quality Control Summary
Method Blank
GC/MS Semivolatiles
SDG: USF03
Matrix: SOLID

Fraction: Semivolatiles by GC/MS

11193SLB026 / SBLKLB193 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Naphthalene	07/23/11	N.D.	ug/kg	17	170
2-Methylnaphthalene	07/23/11	N.D.	ug/kg	17	170
1-Methylnaphthalene	07/23/11	N.D.	ug/kg	17	170
Dimethylphthalate	07/23/11	N.D.	ug/kg	17	170
Acenaphthylene	07/23/11	N.D.	ug/kg	17	170
Acenaphthene	07/23/11	N.D.	ug/kg	17	170
Diethylphthalate	07/23/11	N.D.	ug/kg	17	170
Fluorene	07/23/11	N.D.	ug/kg	17	170
Phenanthrene	07/23/11	N.D.	ug/kg	17	170
Anthracene	07/23/11	N.D.	ug/kg	17	170
Di-n-butylphthalate	07/23/11	N.D.	ug/kg	17	170
Fluoranthene	07/23/11	N.D.	ug/kg	17	170
Pyrene	07/23/11	N.D.	ug/kg	17	170
Butylbenzylphthalate	07/23/11	N.D.	ug/kg	17	170
bis(2-Ethylhexyl)phthalate	07/23/11	N.D.	ug/kg	17	330
Benzo(a)anthracene	07/23/11	N.D.	ug/kg	17	170
Chrysene	07/23/11	N.D.	ug/kg	17	170
Di-n-octylphthalate	07/23/11	N.D.	ug/kg	17	170
Benzo(b)fluoranthene	07/23/11	N.D.	ug/kg	17	170
Benzo(k)fluoranthene	07/23/11	N.D.	ug/kg	17	170
Benzo(a)pyrene	07/23/11	N.D.	ug/kg	17	170
Indeno(1,2,3-cd)pyrene	07/23/11	N.D.	ug/kg	17	170
Dibenz(a,h)anthracene	07/23/11	N.D.	ug/kg	17	170
Benzo(g,h,i)perylene	07/23/11	N.D.	ug/kg	17	170

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Quality Control Summary
Surrogates
GC/MS Semivolatiles
SDG: USF03
Matrix: LIQUID

Fraction: Semivolatiles by GC/MS

11192WAB026	Nitrobenzene-d5		2-Fluorobiphenyl		Terphenyl-d14	
	Spike Added	100 ug/l	Spike Added	100 ug/l	Spike Added	100 ug/l
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
192WBLCS	88	52 - 120	93	63 - 114	93	34 - 118
192WBLCSD	87	52 - 120	93	63 - 114	94	34 - 118
6339388	89	52 - 120	95	63 - 114	94	34 - 118
SBLKWB192	87	52 - 120	95	63 - 114	92	34 - 118

USF03 0115

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Quality Control Summary
Surrogates
GC/MS Semivolatiles
SDG: USF03
Matrix: SOLID

Fraction: Semivolatiles by GC/MS

11193SLB026	Nitrobenzene-d5		2-Fluorobiphenyl		Terphenyl-d14	
	Spike Added	3333.333 ug/kg	Spike Added	3333.333 ug/kg	Spike Added	3333.333 ug/kg
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
193LBLCS	89	49 - 120	85	67 - 115	97	43 - 131
193LBLCSD	87	49 - 120	84	67 - 115	95	43 - 131
6339368	87	49 - 120	82	67 - 115	99	43 - 131
6339370	82	49 - 120	79	67 - 115	98	43 - 131
6339372	81	49 - 120	77	67 - 115	94	43 - 131
6339374	83	49 - 120	79	67 - 115	97	43 - 131
6339375	84	49 - 120	79	67 - 115	98	43 - 131
6339377	80	49 - 120	77	67 - 115	100	43 - 131
6339378 MS	89	49 - 120	86	67 - 115	101	43 - 131
6339379 MSD	89	49 - 120	85	67 - 115	101	43 - 131
6339384	86	49 - 120	80	67 - 115	93	43 - 131
6339386	89	49 - 120	86	67 - 115	103	43 - 131
SBLKLB193	88	49 - 120	82	67 - 115	95	43 - 131

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Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: USF03
Matrix: SOLID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

UNSPK: 6339377 MS: 6339378 MSD: 6339379 **Analyte**	Batch: **11193SLB026** (Sample number(s): 6339368, 6339370, 6339372, 6339374-6339375, 6339377-6339379, 6339384, 6339386)								
	Spike Added ug/kg	**Unspiked Conc ug/kg**	**MS Conc ug/kg**	**MSD Conc ug/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Naphthalene	1661.13	N.D.	1388.39	1409.93	84	86	72-116	2	30
2-Methylnaphthalene	1661.13	N.D.	1426.54	1448.06	86	88	76-114	1	30
1-Methylnaphthalene	1661.13	N.D.	1397.82	1405.21	84	85	73-112	1	30
Dimethylphthalate	1661.13	N.D.	1552.49	1529.84	93	93	64-118	1	30
Acenaphthylene	1661.13	N.D.	1551.17	1549.52	93	94	81-110	0	30
Acenaphthene	1661.13	N.D.	1463.54	1455.06	88	88	75-115	1	30
Diethylphthalate	1661.13	N.D.	1533.22	1528.37	92	93	66-118	0	30
Fluorene	1661.13	N.D.	1465.47	1477.72	88	90	77-111	1	30
Phenanthrene	1661.13	N.D.	1594.9	1629.69	96	99	65-125	2	30
Anthracene	1661.13	N.D.	1623.21	1631.68	98	99	75-115	1	30
Di-n-butylphthalate	1661.13	N.D.	1639.12	1644.89	99	100	67-123	0	30
Fluoranthene	1661.13	N.D.	1469.56	1477.3	88	90	73-112	1	30
Pyrene	1661.13	N.D.	1773.14	1750.26	107	106	74-126	1	30
Butylbenzylphthalate	1661.13	N.D.	1856.17	1832.17	112	111	73-134	1	30
bis(2-Ethylhexyl)phthalate	1661.13	N.D.	1858.08	1833.23	112	111	63-122	1	30
Benzo(a)anthracene	1661.13	N.D.	1614.17	1600.37	97	97	65-122	1	30
Chrysene	1661.13	N.D.	1609.83	1608.46	97	98	62-128	0	30
Di-n-octylphthalate	1661.13	N.D.	1793.	1780.1	108	108	56-126	1	30
Benzo(b)fluoranthene	1661.13	N.D.	1718.04	1725.37	103	105	59-125	0	30
Benzo(k)fluoranthene	1661.13	N.D.	1538.28	1506.23	93	92	56-132	2	30
Benzo(a)pyrene	1661.13	N.D.	1638.75	1609.18	99	98	57-126	2	30
Indeno(1,2,3-cd)pyrene	1661.13	N.D.	1733.48	1724.52	104	105	61-126	1	30
Dibenz(a,h)anthracene	1661.13	N.D.	1768.26	1774.38	106	108	65-125	0	30
Benzo(g,h,i)perylene	1661.13	N.D.	1745.17	1701.64	105	103	59-127	3	30

Results are being reported on an as received basis.

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Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: LIQUID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

LCS: 192WBLCS LCSD: 192WBLCSD	Batch: **11192WAB026** (Sample number(s): 6339388)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Naphthalene	50	45.85	45.41	92	91	77-107	1	30
2-Methylnaphthalene	50	44.63	44.7	89	89	78-107	0	30
1-Methylnaphthalene	50	47.92	47.88	96	96	78-105	0	30
Dimethylphthalate	50	36.7	37.75	73	76	39-126	3	30
Acenaphthylene	50	48.2	50.03	96	100	80-122	4	30
Acenaphthene	50	45.95	47.39	92	95	82-110	3	30
Diethylphthalate	50	46.95	47.64	94	95	75-119	1	30
Fluorene	50	47.96	48.8	96	98	82-113	2	30
Phenanthrene	50	45.63	47.65	91	95	83-112	4	30
Anthracene	50	46.51	48.19	93	96	81-111	4	30
Di-n-butylphthalate	50	47.6	49.68	95	99	85-115	4	30
Fluoranthene	50	48.25	50.47	96	101	86-116	4	30
Pyrene	50	50.54	51.95	101	104	80-115	3	30
Butylbenzylphthalate	50	50.57	52.3	101	105	77-115	3	30
bis(2-Ethylhexyl)phthalate	50	51.47	53.33	103	107	78-117	4	30
Benzo(a)anthracene	50	49.59	51.37	99	103	80-110	4	30
Chrysene	50	48.02	48.38	96	97	82-112	1	30
Di-n-octylphthalate	50	48.22	49.74	96	99	68-128	3	30
Benzo(b)fluoranthene	50	44.48	51.96	89	104	66-125	16	30
Benzo(k)fluoranthene	50	52.12	47.14	104	94	72-122	10	30
Benzo(a)pyrene	50	49.54	51.09	99	102	74-120	3	30
Indeno(1,2,3-cd)pyrene	50	50.38	51.92	101	104	69-121	3	30
Dibenz(a,h)anthracene	50	50.79	52.1	102	104	74-131	3	30
Benzo(g,h,i)perylene	50	51.92	53.47	104	107	71-125	3	30

USF03 0113

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: SOLID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

LCS: 193LBLCS LCSD: 193LBLCSD	Batch: **11193SLB026** (Sample number(s): 6339368, 6339370, 6339372, 6339374-6339375, 6339377-6339379, 6339384, 6339386)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Naphthalene	1666.67	1409.34	1410.65	85	85	73-106	0	30
2-Methylnaphthalene	1666.67	1484.3	1460.6	89	88	76-105	2	30
1-Methylnaphthalene	1666.67	1445.98	1460.48	87	88	74-105	1	30
Dimethylphthalate	1666.67	1594.12	1624.52	96	97	77-109	2	30
Acenaphthylene	1666.67	1580.78	1577.42	95	95	75-122	0	30
Acenaphthene	1666.67	1498.21	1487.5	90	89	76-111	1	30
Diethylphthalate	1666.67	1604.57	1630.52	96	98	76-111	2	30
Fluorene	1666.67	1544.18	1528.89	93	92	75-116	1	30
Phenanthrene	1666.67	1643.64	1659.82	99	100	77-113	1	30
Anthracene	1666.67	1679.4	1691.34	101	101	76-112	1	30
Di-n-butylphthalate	1666.67	1703.24	1744.88	102	105	79-112	2	30
Fluoranthene	1666.67	1639.46	1673.73	98	100	78-116	2	30
Pyrene	1666.67	1723.23	1709.91	103	103	75-115	1	30
Butylbenzylphthalate	1666.67	1765.04	1767.19	106	106	75-115	0	30
bis(2-Ethylhexyl)phthalate	1666.67	1771.57	1762.34	106	106	75-117	1	30
Benzo(a)anthracene	1666.67	1664.96	1668.53	100	100	73-112	0	30
Chrysene	1666.67	1647.66	1616.4	99	97	76-113	2	30
Di-n-octylphthalate	1666.67	1841.4	1870.03	110	112	68-130	2	30
Benzo(b)fluoranthene	1666.67	1712.14	1768.92	103	106	61-127	3	30
Benzo(k)fluoranthene	1666.67	1696.01	1675.32	102	101	67-125	1	30
Benzo(a)pyrene	1666.67	1726.75	1691.21	104	101	69-122	2	30
Indeno(1,2,3-cd)pyrene	1666.67	1640.37	1659.52	98	100	64-119	1	30
Dibenz(a,h)anthracene	1666.67	1678.02	1695.2	101	102	70-128	1	30
Benzo(g,h,i)perylene	1666.67	1608.95	1633.38	97	98	65-122	2	30

USF03 0114

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg0130.d DFTPP Injection Date: 07/05/11

Instrument ID: HP09572 DFTPP Injection Time: 20:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.4
68	Less than 2.0% of mass 69	0.36 (0.54)1
69	Mass 69 relative abundance	66.5
70	Less than 2.0% of mass 69	0.27 (0.4)1
127	40.0 - 60.0% of mass 198	57.1
197	Less than 1.0% of mass 198	0.31
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.78
275	10.0 - 30.0% of mass 198	23.1
365	Greater than 1.00% of mass 198	2.25
441	Present, and less than mass 443	7.06
442	Greater than 40.0 % of mass 198	49.5
443	17.0 - 23.0% of mass 442	8.94 (18.1)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1731 - SSTD50	eg0131a.d	07/05/11	21:36
02	CDM1111 - SSTD50	eg0132a.d	07/05/11	22:02
03	STD1731 - SSTD120	eg0133.d	07/05/11	22:27
04	STD1731 - SSTD80	eg0134.d	07/05/11	22:52
05	STD1731 - SSTD30	eg0135.d	07/05/11	23:17
06	STD1731 - SSTD15	eg0136.d	07/05/11	23:42
07	STD1731 - SSTD5	eg0137.d	07/06/11	00:07
08	8270MDL1731 - SSTD001	eg0138.d	07/06/11	00:32
09	ICV0751 - SSTD050	eg0139.d	07/06/11	00:57
10	BASICV1721 - SSTD050	eg0140.d	07/06/11	01:22
11	SBLKWC185	eg0141.d	07/06/11	01:59
12	185WCLCS	eg0142.d	07/06/11	02:24
13	185WCLCSD	eg0143.d	07/06/11	02:49
14	SBLKWD183	eg0144.d	07/06/11	03:14
15	183WDLCS	eg0145.d	07/06/11	03:39
16	183WDLCSD	eg0146.d	07/06/11	04:04
17	6325689RE	eg0147.d	07/06/11	04:28
18	6332115	eg0148.d	07/06/11	04:54

USF83 9115

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg0130.d DFTPP Injection Date: 07/05/11

Instrument ID: HP09572 DFTPP Injection Time: 20:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.4
68	Less than 2.0% of mass 69	0.36 (0.54)1
69	Mass 69 relative abundance	66.5
70	Less than 2.0% of mass 69	0.27 (0.4)1
127	40.0 - 60.0% of mass 198	57.1
197	Less than 1.0% of mass 198	0.31
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.78
275	10.0 - 30.0% of mass 198	23.1
365	Greater than 1.00% of mass 198	2.25
441	Present, and less than mass 443	7.06
442	Greater than 40.0 % of mass 198	49.5
443	17.0 - 23.0% of mass 442	8.94 (18.1)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6335020	eg0149.d	07/06/11	05:19
20	6335022	eg0150.d	07/06/11	05:44

FORM V SV

USF03 0116

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg0590.d DFTPP Injection Date: 07/15/11

Instrument ID: HP09572 DFTPP Injection Time: 21:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.3
70	Less than 2.0% of mass 69	0.23 (0.47)1
127	40.0 - 60.0% of mass 198	49.7
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.85
275	10.0 - 30.0% of mass 198	23.7
365	Greater than 1.00% of mass 198	2.33
441	Present, and less than mass 443	8.56
442	Greater than 40.0 % of mass 198	59.8
443	17.0 - 23.0% of mass 442	11.4 (19.0)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DMP1111 - SSTD50	eg0592.d	07/15/11	22:25
02	STD1891 - SSTD50	eg0591a.d	07/15/11	22:50
03	SBLKLC194	eg0592a.d	07/15/11	23:24
04	194LCLCS	eg0593.d	07/15/11	23:48
05	SBLKWB194	eg0594.d	07/16/11	00:13
06	194WBLCS	eg0595.d	07/16/11	00:38
07	194WBLCSD	eg0596.d	07/16/11	01:03
08	SBLKWB192	eg0597.d	07/16/11	01:27
09	192WBLCS	eg0598.d	07/16/11	01:52
10	192WBLCSD	eg0599.d	07/16/11	02:17
11	6337222	eg0600.d	07/16/11	02:42
12	6338269	eg0601.d	07/16/11	03:06
13	6339388	eg0602.d	07/16/11	03:31
14	6339042RE	eg0603.d	07/16/11	03:56
15	6339613	eg0604.d	07/16/11	04:20
16	6339614	eg0605.d	07/16/11	04:45
17	6339615	eg0606.d	07/16/11	05:10
18	6337088	eg0607.d	07/16/11	05:34

USP03 0117

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg0590.d DFTPP Injection Date: 07/15/11

Instrument ID: HP09572 DFTPP Injection Time: 21:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.3
70	Less than 2.0% of mass 69	0.23 (0.47)1
127	40.0 - 60.0% of mass 198	49.7
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.85
275	10.0 - 30.0% of mass 198	23.7
365	Greater than 1.00% of mass 198	2.33
441	Present, and less than mass 443	8.56
442	Greater than 40.0 % of mass 198	59.8
443	17.0 - 23.0% of mass 442	11.4 (19.0)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6337089MS	eg0608.d	07/16/11	05:59
20	6337090MSD	eg0609.d	07/16/11	06:24
21	6337084	eg0610.d	07/16/11	06:49
22	6337085	eg0611.d	07/16/11	07:14
23	6337086	eg0612.d	07/16/11	07:38
24	6337087	eg0613.d	07/16/11	08:03
25	6337092	eg0614.d	07/16/11	08:28
26	6337093	eg0615.d	07/16/11	08:52
27	6337094	eg0616.d	07/16/11	09:17
28	6337095	eg0617.d	07/16/11	09:42

USF03 0118

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg0650q.d DFTPP Injection Date: 07/18/11

Instrument ID: HP09572 DFTPP Injection Time: 23:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	60.0
68	Less than 2.0% of mass 69	0.7 (1.04)1
69	Mass 69 relative abundance	67.5
70	Less than 2.0% of mass 69	0.42 (0.62)1
127	40.0 - 60.0% of mass 198	57.3
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.96
275	10.0 - 30.0% of mass 198	26.3
365	Greater than 1.00% of mass 198	2.71
441	Present, and less than mass 443	7.36
442	Greater than 40.0 % of mass 198	56.7
443	17.0 - 23.0% of mass 442	10.8 (19.0)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1991 - SSTD50	eg0651.d	07/19/11	00:27
02	STD1991 - SSTD120	eg0652.d	07/19/11	01:16
03	STD1991 - SSTD80	eg0653.d	07/19/11	01:41
04	STD1991 - SSTD5	eg0654.d	07/19/11	02:05
05	STD1991 - SSTD15	eg0655.d	07/19/11	02:30
06	STD1991 - SSTD30	eg0656.d	07/19/11	02:55
07	8270MDL1991 - SSTD001	eg0657.d	07/19/11	03:21
08	ICV0751 - SSTD050	eg0658.d	07/19/11	03:46
09	BASICV0721 - SSTD050	eg0659.d	07/19/11	04:11
10	DMP1111 - SSTD50	eg0660.d	07/19/11	04:35
11	DMP1111 - SSTD120	eg0661.d	07/19/11	05:00
12	DMP1111 - SSTD80	eg0662.d	07/19/11	05:29
13	DMP1111 - SSTD5	eg0663.d	07/19/11	05:53
14	DMP1111 - SSTD15	eg0664.d	07/19/11	06:18
15	DMP1111 - SSTD30	eg0665.d	07/19/11	06:44
16	DMPMDL1111 - SSTD001	eg0666.d	07/19/11	07:08
17	DMPICV1111 - SSTD050	eg0667.d	07/19/11	07:33
18	6337596DL	eg0668.d	07/19/11	07:58

USF03 0119

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg0650q.d DFTPP Injection Date: 07/18/11

Instrument ID: HP09572 DFTPP Injection Time: 23:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	60.0
68	Less than 2.0% of mass 69	0.7 (1.04)1
69	Mass 69 relative abundance	67.5
70	Less than 2.0% of mass 69	0.42 (0.62)1
127	40.0 - 60.0% of mass 198	57.3
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.96
275	10.0 - 30.0% of mass 198	26.3
365	Greater than 1.00% of mass 198	2.71
441	Present, and less than mass 443	7.36
442	Greater than 40.0 % of mass 198	56.7
443	17.0 - 23.0% of mass 442	10.8 (19.0)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6337096	eg0669.d	07/19/11	08:23
20	6337097	eg0670.d	07/19/11	08:48

USF03 0120

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg1010.d DFTPP Injection Date: 07/23/11

Instrument ID: HP09572 DFTPP Injection Time: 11:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	69.1
70	Less than 2.0% of mass 69	0.2 (0.29)1
127	40.0 - 60.0% of mass 198	56.4
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.58
275	10.0 - 30.0% of mass 198	24.5
365	Greater than 1.00% of mass 198	2.16
441	Present, and less than mass 443	6.94
442	Greater than 40.0 % of mass 198	47.9
443	17.0 - 23.0% of mass 442	10.3 (21.4)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1991 - SSTD80	eg1011.d	07/23/11	11:36
02	BAS1721 - SSTD80	eg1012.d	07/23/11	12:01
03	SBLKLB193	eg1013.d	07/23/11	12:26
04	193LBLCS	eg1014.d	07/23/11	12:51
05	193LBLCSD	eg1015.d	07/23/11	13:16
06	6339384	eg1017.d	07/23/11	14:06
07	6341965	eg1018.d	07/23/11	14:31
08	6341960DL	eg1019.d	07/23/11	14:56
09	6340191DL	eg1020.d	07/23/11	15:21
10	6340199DL	eg1021.d	07/23/11	15:46
11	6341963DL	eg1024.d	07/23/11	17:30
12	6339377	eg1025.d	07/23/11	17:55
13	6339378MS	eg1026.d	07/23/11	18:20
14	6339379MSD	eg1027.d	07/23/11	18:45
15	6337203	eg1028.d	07/23/11	19:10
16	6337205	eg1029.d	07/23/11	19:35
17	6337207	eg1030.d	07/23/11	20:00
18	6337209	eg1031.d	07/23/11	20:25

USF03 0121

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg1010.d DFTPP Injection Date: 07/23/11

Instrument ID: HP09572 DFTPP Injection Time: 11:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	69.1
70	Less than 2.0% of mass 69	0.2 (0.29)1
127	40.0 - 60.0% of mass 198	56.4
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.58
275	10.0 - 30.0% of mass 198	24.5
365	Greater than 1.00% of mass 198	2.16
441	Present, and less than mass 443	6.94
442	Greater than 40.0 % of mass 198	47.9
443	17.0 - 23.0% of mass 442	10.3 (21.4)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6337212	eg1032.d	07/23/11	20:50
20	6338249	eg1033.d	07/23/11	21:15
21	6338250	eg1034.d	07/23/11	21:40
22	6338252	eg1035.d	07/23/11	22:05
23	6338261	eg1036.d	07/23/11	22:29
24	6338263	eg1037.d	07/23/11	22:55
25	6338264	eg1038.d	07/23/11	23:19

USP83 8122

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg1050.d DFTPP Injection Date: 07/24/11

Instrument ID: HP09572 DFTPP Injection Time: 09:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	68.7
70	Less than 2.0% of mass 69	0.46 (0.67)1
127	40.0 - 60.0% of mass 198	56.6
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.03
275	10.0 - 30.0% of mass 198	23.3
365	Greater than 1.00% of mass 198	2.48
441	Present, and less than mass 443	6.55
442	Greater than 40.0 % of mass 198	47.0
443	17.0 - 23.0% of mass 442	9.51 (20.3)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1991 - SSTD30	eg1051.d	07/24/11	09:31
02	DMP1111 - SSTD30	eg1052.d	07/24/11	10:14
03	SBLKLB199	eg1054.d	07/24/11	11:04
04	199LBLCS	eg1055.d	07/24/11	11:29
05	6341952DL	eg1056.d	07/24/11	11:54
06	6341954DL	eg1057.d	07/24/11	12:19
07	6339368	eg1058.d	07/24/11	12:44
08	6339370	eg1059.d	07/24/11	13:09
09	6339372	eg1060.d	07/24/11	13:33
10	6339374	eg1061.d	07/24/11	13:58
11	6339375	eg1062.d	07/24/11	14:23
12	6339386	eg1063.d	07/24/11	14:48
13	6340796	eg1064.d	07/24/11	15:13
14	6340797MS	eg1065.d	07/24/11	15:38
15	6340798MSD	eg1066.d	07/24/11	16:03
16	6340788	eg1067.d	07/24/11	16:28
17	6340789	eg1068.d	07/24/11	16:52
18	6340790	eg1069.d	07/24/11	17:17

USF83 0123

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: eg1050.d DFTPP Injection Date: 07/24/11

Instrument ID: HP09572 DFTPP Injection Time: 09:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	68.7
70	Less than 2.0% of mass 69	0.46 (0.67)1
127	40.0 - 60.0% of mass 198	56.6
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.03
275	10.0 - 30.0% of mass 198	23.3
365	Greater than 1.00% of mass 198	2.48
441	Present, and less than mass 443	6.55
442	Greater than 40.0 % of mass 198	47.0
443	17.0 - 23.0% of mass 442	9.51 (20.3)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6340791	eg1070.d	07/24/11	17:42
20	6340792	eg1071.d	07/24/11	18:07
21	6340793	eg1072.d	07/24/11	18:32
22	6340795	eg1073.d	07/24/11	18:57
23	6340800	eg1074.d	07/24/11	19:22
24	6340801	eg1075.d	07/24/11	19:46
25	6340802	eg1076.d	07/24/11	20:12

USF03 8124

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date(s): 07/05/11 07/06/11

Calibration Times: 21:36 00:07

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = eg0137.d RRF15 = eg0136.d RRF30 = eg0135.d
RRF50 = eg0131a.d RRF80 = eg0134.d RRF120 = eg0133.d

COMPOUND		RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
1,4-Dioxane		0.577	0.556	0.585	0.602	0.629	0.612		0.594	4	AVG	
N-Nitrosodimethylamine		0.985	1.036	1.105	1.136	1.115	1.108		1.081	5	AVG	
Pyridine		1.639	1.416	1.708	1.702	1.895	1.883		1.707	10	AVG	
2-Picoline		1.639	1.480	1.603	1.675	1.732	1.823		1.659	7	AVG	
N-Nitrosomethylethylamine		0.618	0.697	0.751	0.734	0.762	0.746		0.718	8	AVG	
Methyl methanesulfonate		0.926	1.023	1.015	1.045	1.062	1.056		1.021	5	AVG	
N-Nitrosodiethylamine		0.736	0.799	0.795	0.827	0.846	0.849		0.809	5	AVG	
Ethyl methanesulfonate		0.816	0.764	0.794	0.818	0.840	0.840		0.812	4	AVG	
Phenol	*	2.060	2.207	2.220	2.353	2.411	2.324		2.263	6	AVG	*
Aniline		2.393	2.524	2.565	2.712	2.763	2.768		2.621	6	AVG	
Pentachloroethane		0.469	0.508	0.525	0.527	0.540	0.541		0.518	5	AVG	
bis(2-Chloroethyl)ether		1.606	1.703	1.721	1.760	1.786	1.817		1.732	4	AVG	
2-Chlorophenol		1.326	1.486	1.549	1.623	1.656	1.680		1.553	9	AVG	
1,3-Dichlorobenzene		1.511	1.643	1.644	1.661	1.687	1.695		1.640	4	AVG	
1,4-Dichlorobenzene	*	1.625	1.651	1.675	1.723	1.747	1.760		1.697	3	AVG	*
Benzyl alcohol		0.991	1.050	1.109	1.105	1.163	1.199		1.103	7	AVG	
1,2-Dichlorobenzene		1.480	1.591	1.619	1.658	1.659	1.684		1.615	5	AVG	
Indene		2.445	2.517	2.659	2.549	2.768	2.829		2.628	6	AVG	
2-Methylphenol		1.365	1.501	1.512	1.602	1.624	1.630		1.539	7	AVG	
2,2'-oxybis(1-Chloropropane)		1.872	1.936	1.933	1.999	2.026	2.015		1.963	3	AVG	
bis(2-Chloroisopropyl)ether		1.872	1.936	1.933	1.999	2.026	2.015		1.963	3	AVG	
N-Nitrosopyrrolidine		0.822	0.921	0.907	0.975	1.026	1.008		0.943	8	AVG	
Acetophenone		2.248	2.371	2.345	2.428	2.522	2.496		2.402	4	AVG	
N-Nitroso-di-n-propylamine	#	1.501	1.587	1.584	1.675	1.713	1.729		1.632	5	AVG	#
4-Methylphenol		1.428	1.695	1.683	1.767	1.872	1.863		1.718	9	AVG	
N-Nitrosomorpholine		1.079	1.172	1.141	1.162	1.220	1.234		1.168	5	AVG	
o-Toluidine		2.460	2.726	2.696	2.817	2.901	2.907		2.751	6	AVG	
Hexachloroethane		0.590	0.612	0.653	0.653	0.679	0.702		0.648	6	AVG	
Nitrobenzene		0.434	0.452	0.467	0.478	0.478	0.475		0.464	4	AVG	
N-Nitrosopiperidine		0.183	0.189	0.189	0.196	0.197	0.198		0.192	3	AVG	
Isophorone		0.790	0.835	0.836	0.848	0.861	0.850		0.837	3	AVG	
2-Nitrophenol	*	0.144	0.171	0.183	0.198	0.202	0.203		0.184	13	AVG	*
2,4-Dimethylphenol		0.348	0.386	0.406	0.410	0.418	0.419		0.398	7	AVG	
O,O,O-triethylphosphorothioate		0.170	0.179	0.190	0.183	0.190	0.187		0.183	4	AVG	
bis(2-Chloroethoxy)methane		0.442	0.474	0.450	0.474	0.458	0.482		0.463	3	AVG	
Benzoic acid		0.246	0.300	0.277	0.312	0.340	0.351		0.304	13	AVG	
2,4-Dichlorophenol	*	0.274	0.312	0.310	0.319	0.322	0.327		0.311	6	AVG	*
1,2,4-Trichlorobenzene		0.310	0.325	0.334	0.332	0.334	0.340		0.329	3	AVG	
Naphthalene		1.038	1.061	1.090	1.103	1.102	1.109		1.084	3	AVG	
4-Chloroaniline		0.429	0.461	0.475	0.485	0.500	0.504		0.476	6	AVG	
2,6-Dichlorophenol		0.271	0.304	0.305	0.318	0.329	0.330		0.310	7	AVG	
Hexachloropropene		0.150	0.166	0.176	0.187	0.195	0.199		0.179	10	AVG	
Hexachlorobutadiene	*	0.142	0.147	0.160	0.155	0.155	0.159		0.153	5	AVG	*
Quinoline		0.716	0.752	0.735	0.742	0.764	0.750		0.743	2	AVG	
Caprolactam		0.142	0.162	0.155	0.153	0.160	0.159		0.155	5	AVG	
N-Nitrosodi-n-butylamine		0.297	0.406	0.411	0.339	0.321	0.319		0.349	14	AVG	
4-Chloro-3-methylphenol	*	0.322	0.352	0.368	0.376	0.389	0.385		0.365	7	AVG	*
Safrole		0.267	0.289	0.299	0.310	0.310	0.318		0.299	6	AVG	
cis-Isosafrole		0.636	0.722	0.746	0.745	0.723	0.722		0.716	6	AVG	
2-Methylnaphthalene		0.716	0.759	0.759	0.783	0.780	0.792		0.765	4	AVG	
1-Methylnaphthalene		0.697	0.719	0.721	0.731	0.744	0.743		0.726	2	AVG	
Hexachlorocyclopentadiene	#	0.145	0.183	0.217	0.242	0.247	0.260		0.216	20	1STDEG	#

1 Blank
7-5-11 0125

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

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Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date(s): 07/05/11 07/06/11

Calibration Times: 21:36 00:07

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = eg0137.d RRF15 = eg0136.d RRF30 = eg0135.d
RRF50 = eg0131a.d RRF80 = eg0134.d RRF120 = eg0133.d

	COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
	1,2,4,5-Tetrachlorobenzene	0.459	0.471	0.488	0.491	0.487	0.498		0.482	3	AVG	
	trans-Isosafrole	0.446	0.427	0.447	0.606	0.539	0.717		0.530	22	2NDDEG	
*	2,4,6-Trichlorophenol	0.278	0.314	0.322	0.337	0.341	0.345		0.323	8	AVG	*
	2,4,5-Trichlorophenol	0.311	0.363	0.386	0.384	0.396	0.397		0.373	9	AVG	
	Isosafrole	0.397	0.380	0.398	0.539	0.480	0.638		0.472	22	2NDDEG	
	Biphenyl	1.366	1.411	1.455	1.461	1.469	1.500		1.444	3	AVG	
	Diphenyl	1.366	1.411	1.455	1.461	1.469	1.500		1.444	3	AVG	
	1,1'-Biphenyl	1.366	1.411	1.455	1.461	1.469	1.500		1.444	3	AVG	
	2-Chloronaphthalene	1.426	1.190	1.208	1.512	1.186	1.537		1.343	12	AVG	
	1-Chloronaphthalene	1.183	1.299	1.373	1.167	1.328	1.155		1.251	8	AVG	
	Diphenyl ether	0.735	0.745	0.761	0.782	0.761	0.776		0.760	2	AVG	
	2-Nitroaniline	0.312	0.368	0.384	0.396	0.414	0.413		0.381	10	AVG	
	1,4-Naphthoquinone	0.325	0.429	0.452	0.475	0.475	0.473		0.438	13	AVG	
	1,4-Dinitrobenzene	0.128	0.169	0.187	0.201	0.212	0.213		0.185	18	1STDEG	
	Dimethylphthalate	1.310	1.336	1.350	1.350	1.364	1.361		1.345	1	AVG	
	1,3-Dinitrobenzene	0.166	0.216	0.229	0.239	0.248	0.251		0.225	14	AVG	
	2,6-Dinitrotoluene	0.265	0.301	0.312	0.324	0.331	0.334		0.311	8	AVG	
	Acenaphthylene	1.544	1.674	1.730	1.761	1.762	1.779		1.708	5	AVG	
	3-Nitroaniline	0.289	0.343	0.341	0.365	0.373	0.370		0.347	9	AVG	
*	Acenaphthene	1.081	1.115	1.131	1.144	1.152	1.147		1.128	2	AVG	*
#	2,4-Dinitrophenol	0.089	0.122	0.123	0.146	0.165	0.166		0.135	22	1STDEG	#
	Pentachlorobenzene	0.410	0.411	0.420	0.417	0.418	0.420		0.416	1	AVG	
#	4-Nitrophenol	0.180	0.231	0.223	0.232	0.247	0.241		0.226	11	AVG	#
	Dibenzofuran	1.510	1.599	1.607	1.619	1.632	1.639		1.601	3	AVG	
	2,4-Dinitrotoluene	0.342	0.415	0.407	0.418	0.440	0.435		0.410	9	AVG	
	1-Naphthylamine	1.159	1.289	1.288	1.315	1.336	1.321		1.285	5	AVG	
	2,3,4,6-Tetrachlorophenol	0.238	0.278	0.282	0.292	0.298	0.301		0.282	8	AVG	
	2-Naphthylamine	1.201	1.338	1.332	1.330	1.350	1.323		1.313	4	AVG	
	Diethylphthalate	1.223	1.291	1.294	1.282	1.326	1.307		1.287	3	AVG	
	Fluorene	1.262	1.370	1.371	1.382	1.398	1.408		1.365	4	AVG	
	Thionazin	0.258	0.260	0.250	0.266	0.272	0.268		0.262	3	AVG	
	4-Chlorophenyl-phenylether	0.595	0.620	0.631	0.633	0.644	0.637		0.627	3	AVG	
	5-Nitro-o-toluidine	0.358	0.434	0.421	0.424	0.442	0.442		0.420	8	AVG	
	4-Nitroaniline	0.357	0.392	0.382	0.380	0.390	0.386		0.381	3	AVG	
	4,6-Dinitro-2-methylphenol	0.078	0.101	0.112	0.137	0.145	0.152		0.121	24	1STDEG	
	1-Nitronaphthalene	0.138	0.146	0.156	0.163	0.169	0.171		0.157	8	AVG	
*	N-Nitrosodiphenylamine (1)	0.634	0.660	0.683	0.702	0.719	0.726		0.687	5	AVG	*
	NDPA as diphenylamine	0.627	0.656	0.683	0.702	0.719	0.726		0.685	6	AVG	
	1,2-Diphenylhydrazine	0.890	0.940	0.991	1.011	1.031	1.028		0.982	6	AVG	
	Tetraethyldithiopyrophosphate	0.114	0.129	0.140	0.146	0.149	0.151		0.138	10	AVG	
	1,3,5-Trinitrobenzene	0.043	0.068	0.075	0.094	0.103	0.106		0.082	30	1STDEG	
	Diallate (peak 1)	0.372	0.402	0.432	0.445	0.458	0.468		0.430	8	AVG	
	Phorate	0.591	0.714	0.779	0.857	0.900	0.918		0.793	16	1STDEG	
	Phenacetin	0.381	0.403	0.408	0.469	0.488	0.501		0.442	11	AVG	
	4-Bromophenyl-phenylether	0.179	0.199	0.204	0.211	0.217	0.217		0.204	7	AVG	
	Diallate (peak 2)	0.209	0.238	0.251	0.277	0.282	0.298		0.259	13	AVG	
	Hexachlorobenzene	0.188	0.191	0.197	0.196	0.204	0.209		0.198	4	AVG	
	Dimethoate	0.275	0.319	0.317	0.331	0.328	0.319		0.315	6	AVG	
*	Pentachlorophenol	0.102	0.116	0.114	0.130	0.138	0.143		0.124	13	AVG	*
	Pentachloronitrobenzene	0.083	0.088	0.090	0.091	0.097	0.097		0.091	6	AVG	
	4-Aminobiphenyl	0.698	0.758	0.775	0.725	0.726	0.674		0.726	5	AVG	
	Pronamide	0.276	0.329	0.345	0.363	0.379	0.379		0.345	11	AVG	

(1) Cannot be separated from Diphenylamine

USP83 0126

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

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LAB FILE ID: RRF5 = eg0137.d RRF15 = eg0136.d RRF30 = eg0135.d
RRF50 = eg0131a.d RRF80 = eg0134.d RRF120 = eg0133.d

	COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
	Phenanthrene	1.109	1.159	1.168	1.202	1.216	1.229		1.180	4	AVG	
	Dinoseb	0.079	0.123	0.142	0.179	0.193	0.208		0.154	31	1STDEG	
	Anthracene	1.073	1.180	1.203	1.231	1.269	1.263		1.203	6	AVG	
	Carbazole	1.026	1.105	1.116	1.140	1.164	1.166		1.119	5	AVG	
	Methyl parathion	0.166	0.227	0.240	0.257	0.260	0.252		0.234	15	1STDEG	
	Di-n-butylphthalate	1.054	1.233	1.251	1.340	1.369	1.384		1.272	10	AVG	
	Parathion	0.118	0.161	0.169	0.182	0.189	0.192		0.169	16	1STDEG	
	4-Nitroquinoline-1-oxide	0.035	0.064	0.073	0.107	0.116	0.117		0.085	39	1STDEG	
	Isodrin	0.107	0.123	0.123	0.133	0.136	0.137		0.126	9	AVG	
*	Fluoranthene	1.071	1.170	1.167	1.207	1.240	1.241		1.183	5	AVG	*
	Benzidine	0.503	0.659	0.693	0.712	0.730	0.778		0.679	14	AVG	
	Pyrene	1.126	1.228	1.268	1.261	1.260	1.245		1.231	4	AVG	
	p-Dimethylaminoazobenzene	0.182	0.224	0.247	0.255	0.268	0.262		0.240	13	AVG	
	Chlorobenzilate	0.310	0.355	0.382	0.401	0.417	0.410		0.379	11	AVG	
	3,3'-Dimethylbenzidine	0.366	0.604	0.639	0.701	0.716	0.718		0.624	22	1STDEG	
	Butylbenzylphthalate	0.446	0.532	0.566	0.569	0.591	0.576		0.547	10	AVG	
	2-Acetylaminofluorene	0.307	0.438	0.475	0.531	0.554	0.542		0.474	20	1STDEG	+
	3,3'-Dichlorobenzidine	0.333	0.394	0.408	0.432	0.445	0.446		0.410	10	AVG	
	Benzo(a)anthracene	0.996	1.074	1.094	1.126	1.150	1.147		1.098	5	AVG	
	4,4'-Methylenebis(2-Chloroanil	0.153	0.208	0.209	0.224	0.234	0.236		0.211	15	AVG	
	Chrysene	1.085	1.143	1.163	1.148	1.193	1.167		1.150	3	AVG	
	bis(2-Ethylhexyl)phthalate	0.574	0.697	0.729	0.792	0.808	0.802		0.734	12	AVG	
	6-Methylchrysene	0.688	0.758	0.766	0.808	0.822	0.806		0.775	6	AVG	
*	Di-n-octylphthalate	0.787	1.122	1.251	1.425	1.474	1.507		1.261	22	1STDEG	*
	7,12-Dimethylbenz[a]anthracene	0.452	0.538	0.588	0.604	0.633	0.634		0.575	12	AVG	
	Benzo(b)fluoranthene	1.001	1.062	1.212	1.217	1.299	1.276		1.178	10	AVG	
	Benzo(k)fluoranthene	1.053	1.225	1.159	1.248	1.237	1.375		1.216	9	AVG	
*	Benzo(a)pyrene	0.952	1.051	1.102	1.130	1.169	1.167		1.095	8	AVG	*
	3-Methylcholanthrene	0.473	0.545	0.593	0.638	0.655	0.671		0.596	13	AVG	
	Dibenz(a,h)acridine	0.559	0.698	0.741	0.838	0.855	0.891		0.764	16	1STDEG	
	Dibenz(a,j)acridine	0.765	0.907	0.940	0.971	1.017	1.022		0.937	10	AVG	
	Indeno(1,2,3-cd)pyrene	0.994	1.127	1.171	1.229	1.259	1.276		1.176	9	AVG	
	Dibenz(a,h)anthracene	0.851	0.976	0.997	1.044	1.129	1.099		1.016	10	AVG	
	Benzo(g,h,i)perylene	0.898	0.982	1.024	1.046	1.094	1.094		1.023	7	AVG	
	Diallate TRANS/CIS	0.331	0.361	0.387	0.403	0.414	0.425		0.387	9	AVG	
	2-Fluorophenol	1.256	1.372	1.433	1.467	1.507	1.512		1.424	7	AVG	
	Phenol-d5	1.823	2.004	2.007	2.163	2.194	2.207		2.066	7	AVG	
	Phenol-d6	1.823	2.004	2.007	2.163	2.194	2.207		2.066	7	AVG	
	Nitrobenzene-d5	0.417	0.443	0.456	0.463	0.471	0.469		0.453	5	AVG	
	2-Fluorobiphenyl	1.163	1.209	1.235	1.246	1.234	1.231		1.220	3	AVG	
	2,4,6-Tribromophenol	0.114	0.132	0.139	0.143	0.149	0.151		0.138	10	AVG	
	Terphenyl-d14	0.760	0.826	0.867	0.873	0.892	0.863		0.847	6	AVG	
								Average %RSD		8		

+ %RSD is less than or equal to 20%; however, value rounds to 20.

USF03 0127

4,6-Dinitro-2-methylphenol and 4-Nitrophenol are at 10 ng/ul in the 5 standard.
Benzidine Levels in the 5,15,30,50,80,120 standards are 15,45,90,150,240,360 ng/ul, respectively.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul, 30 ng/ul,40 ng/ul in the 5,15,30 standards.

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09572.i/11jul05a.b/eg0131a.d SSTD050
/chem/HP09572.i/11jul05a.b/eg0133.d SSTD120
/chem/HP09572.i/11jul05a.b/eg0134.d SSTD080
/chem/HP09572.i/11jul05a.b/eg0135.d SSTD030
/chem/HP09572.i/11jul05a.b/eg0136.d SSTD015
/chem/HP09572.i/11jul05a.b/eg0137.d SSTD005

Area Summary

	File ID:								
Internal Standard Name	eg0131a.d	eg0133.d	eg0134.d	eg0135.d	eg0136.d	eg0137.d	Avg. Area	%RSD	In Spec
1,4-Dichlorobenzene-d4	111001	103705	101715	77656	93240	91592	96485	12	Yes
Naphthalene-d8	515855	491321	479872	350793	430685	414678	447201	14	Yes
Acenaphthene-d10	345256	332983	327307	231420	295093	281410	302245	14	Yes
Phenanthrene-d10	578562	552317	549271	395898	528617	503030	517949	13	Yes
Chrysene-d12	606034	605191	584935	403357	565397	535809	550120	14	Yes
Perylene-d12	546832	530309	524622	362487	523860	498401	497752	14	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

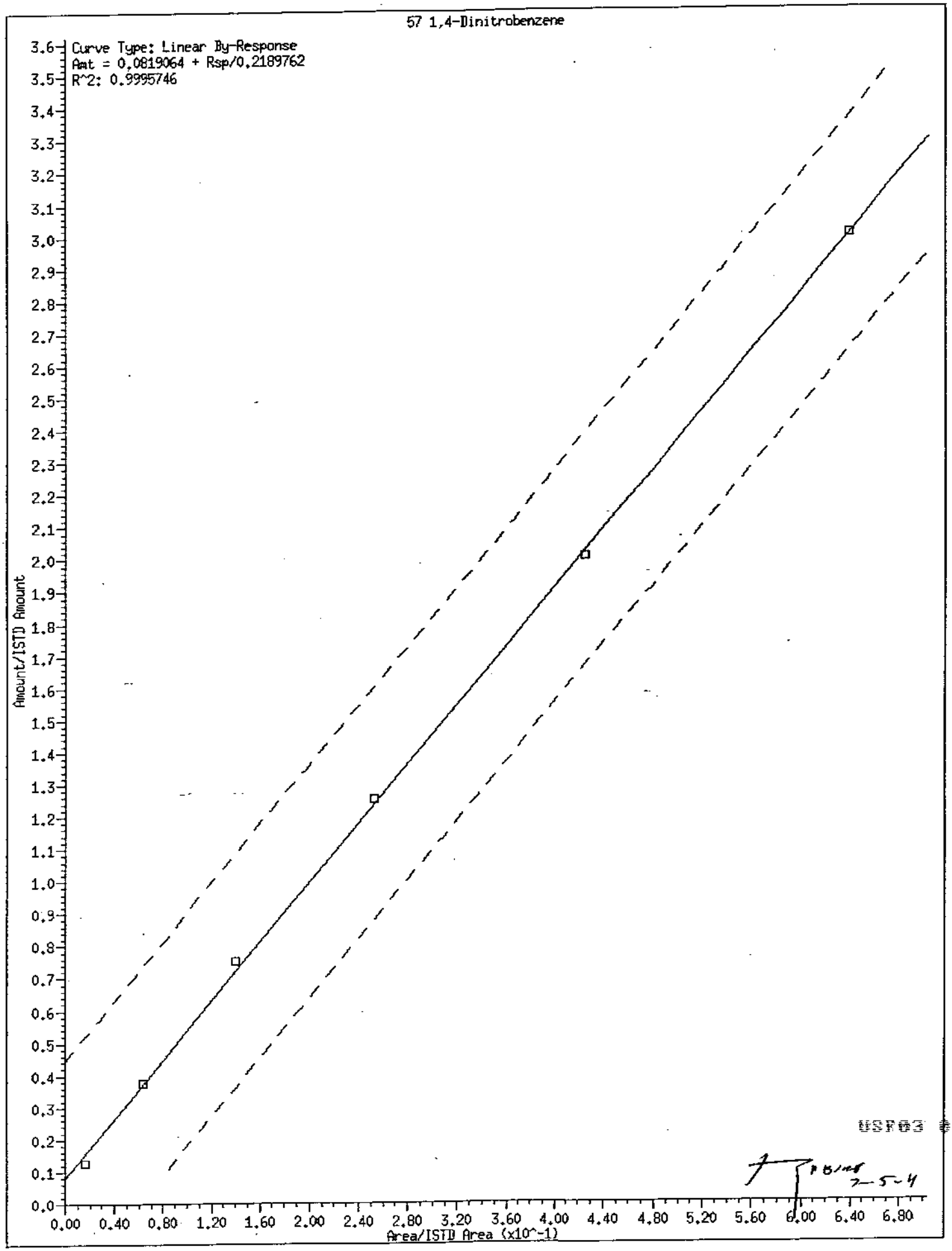
RT Summary

	File ID:						
Internal Standard Name	eg0131a.d	eg0133.d	eg0134.d	eg0135.d	eg0136.d	eg0137.d	Avg. RT
1,4-Dichlorobenzene-d4	4.988	4.994	4.994	4.988	4.988	4.988	4.990
Naphthalene-d8	6.250	6.250	6.250	6.250	6.250	6.250	6.250
Acenaphthene-d10	7.943	7.943	7.943	7.937	7.937	7.937	7.940
Phenanthrene-d10	9.361	9.367	9.361	9.355	9.355	9.355	9.359
Chrysene-d12	11.897	11.903	11.897	11.891	11.891	11.891	11.895
Perylene-d12	13.201	13.207	13.201	13.195	13.201	13.195	13.200

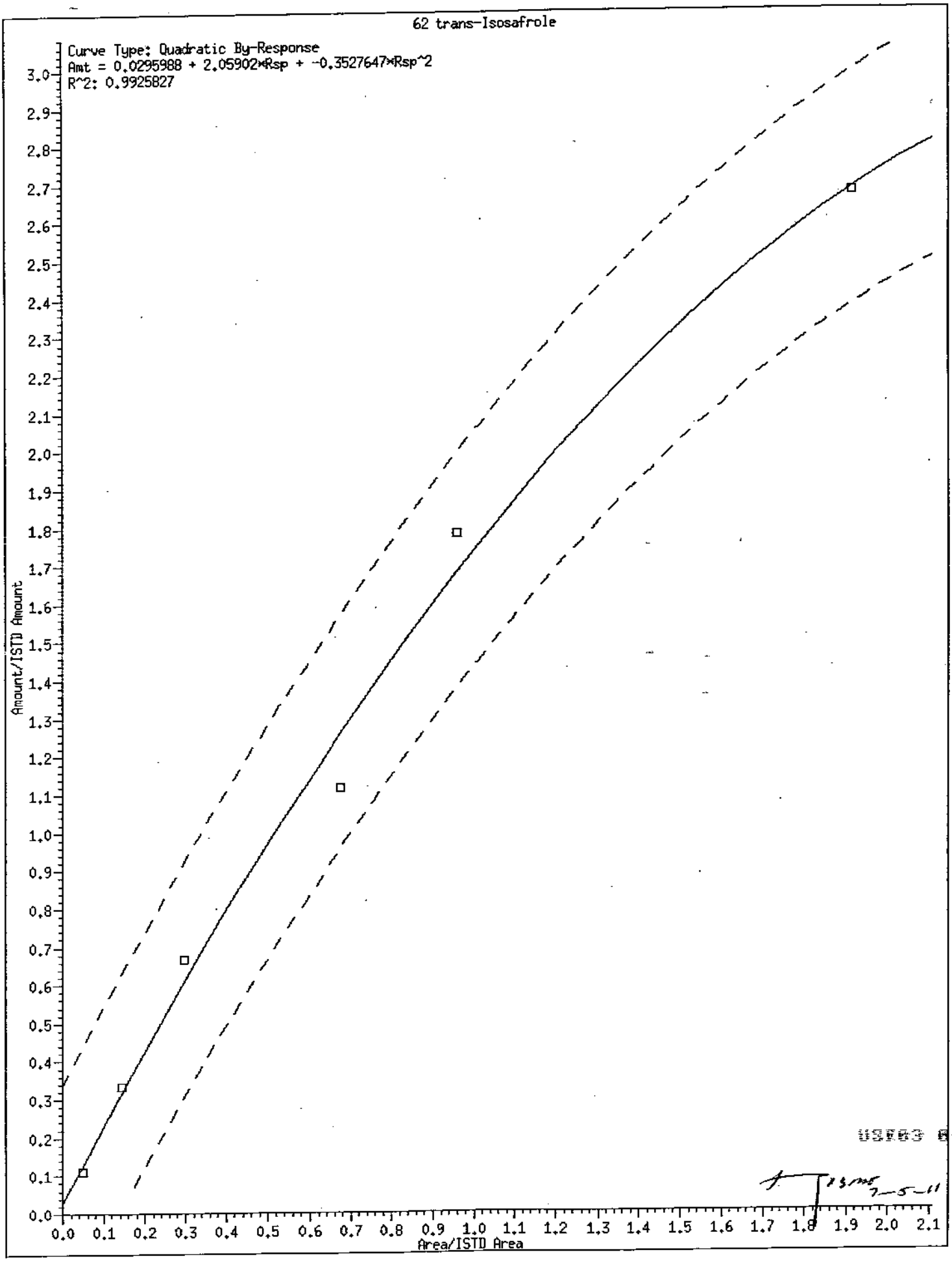
Comments: _____ 7-5-11

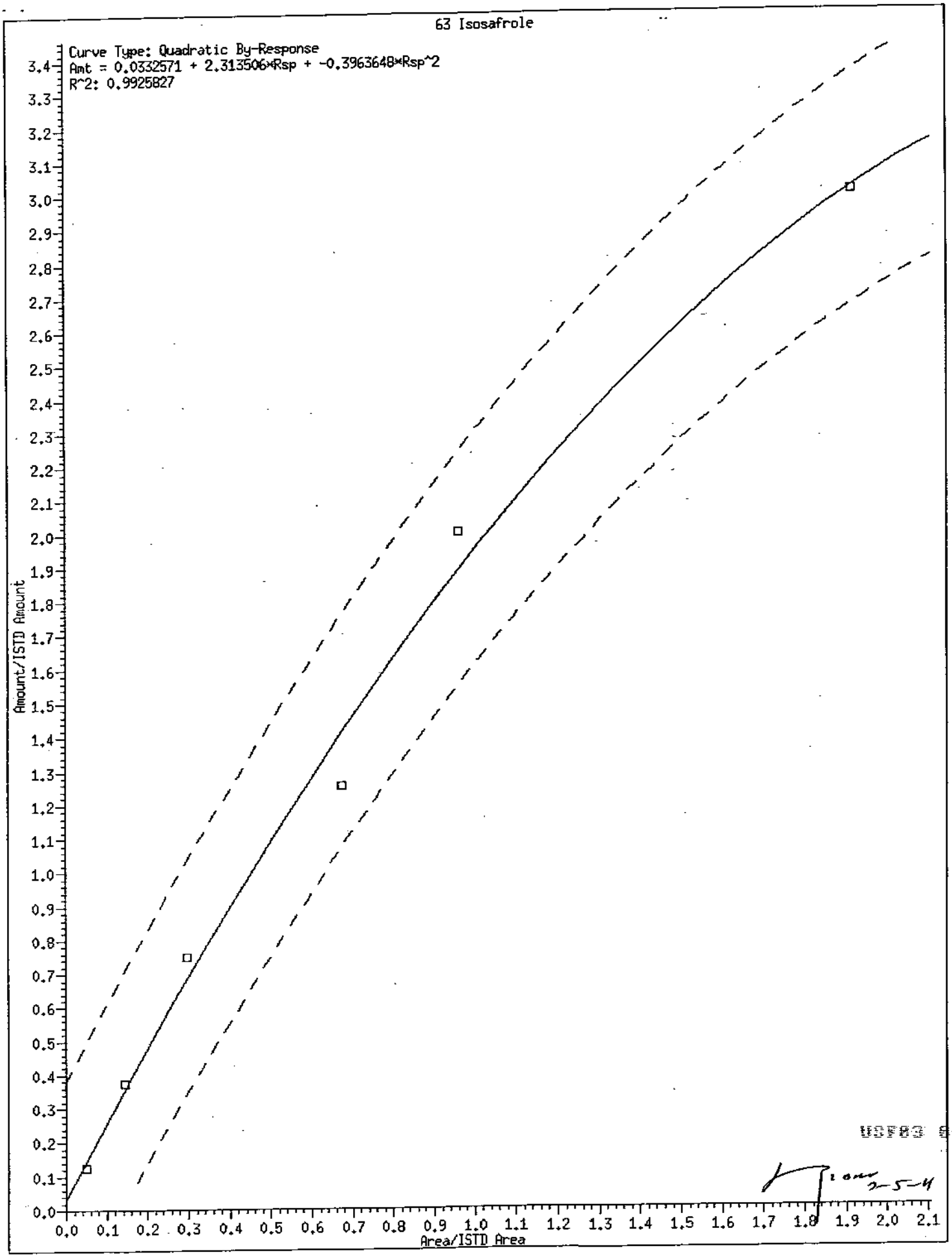
Report generated on 07/06/2011 at 01:24

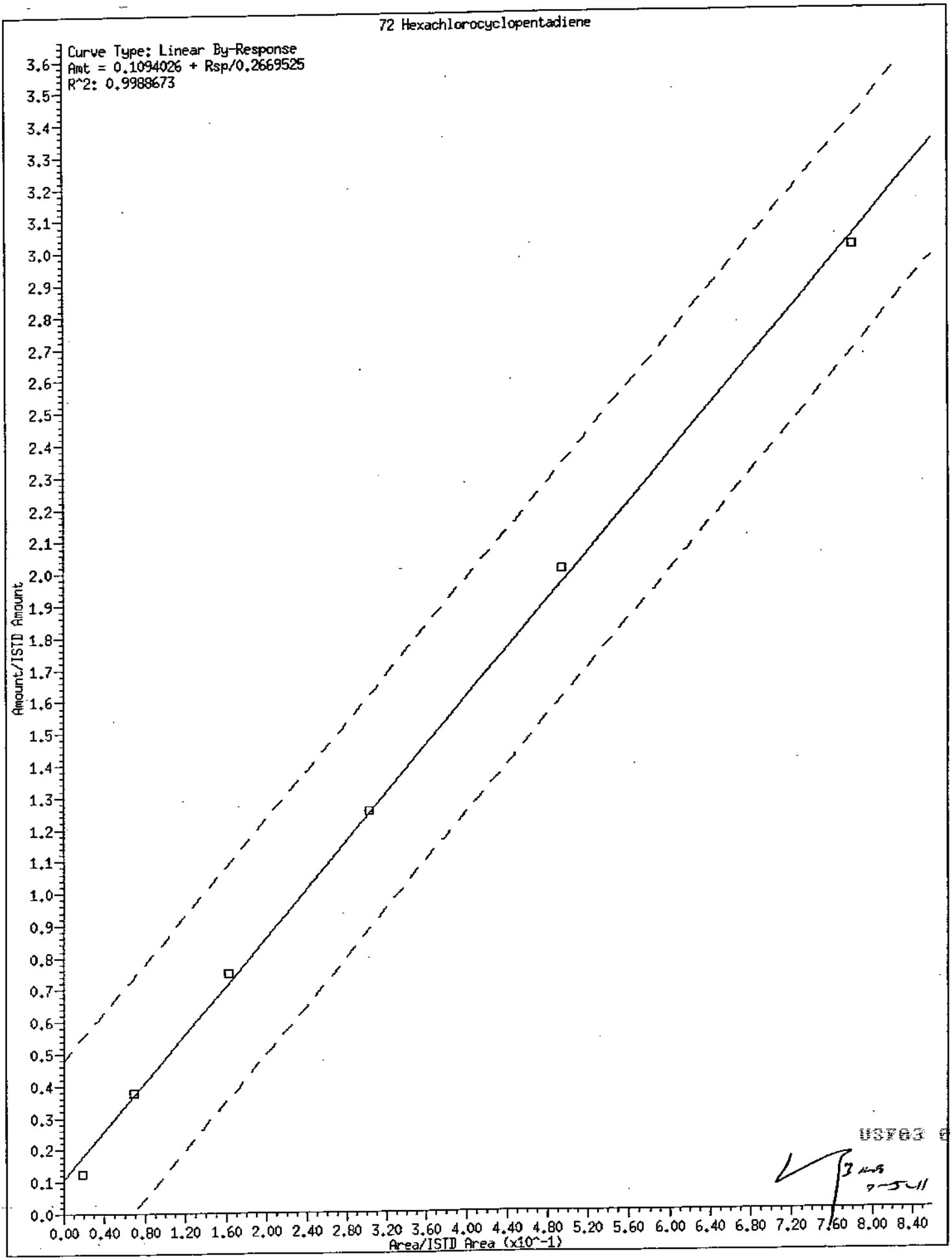
USF03 0128

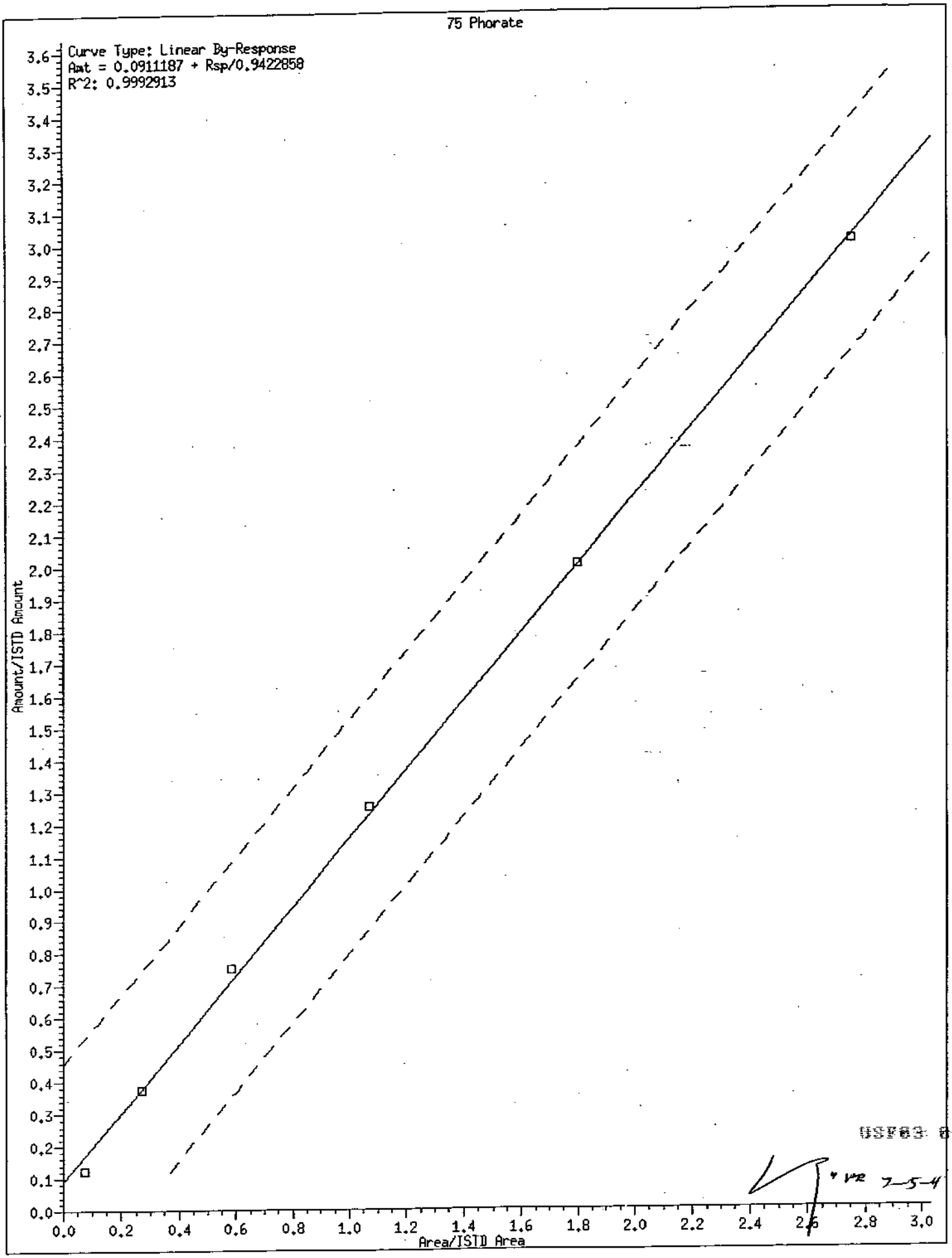

57 1,4-Dinitrobenzene
Curve Type: Linear By-Response
Amt = 0.0819064 + Rsp/0.2189762
R^2: 0.9995746
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
3.20
3.60
4.00
4.40
4.80
5.20
5.60
6.00
6.40
6.80

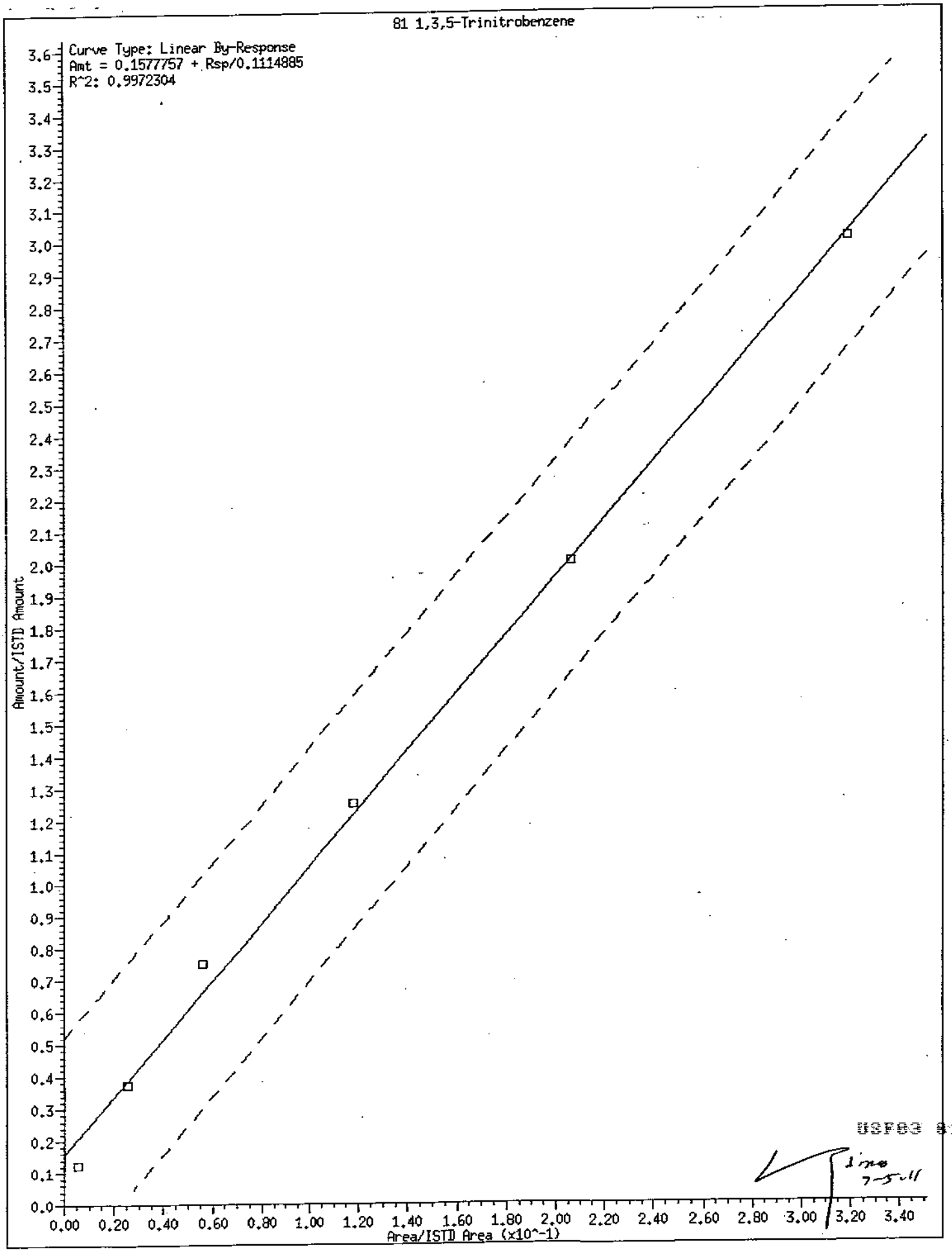
USP03 #129


62 trans-Isosafrole
Curve Type: Quadratic By-Response
Amt = 0.0295988 + 2.05902*Rsp + -0.3527647*Rsp^2
R^2: 0.9925827
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0

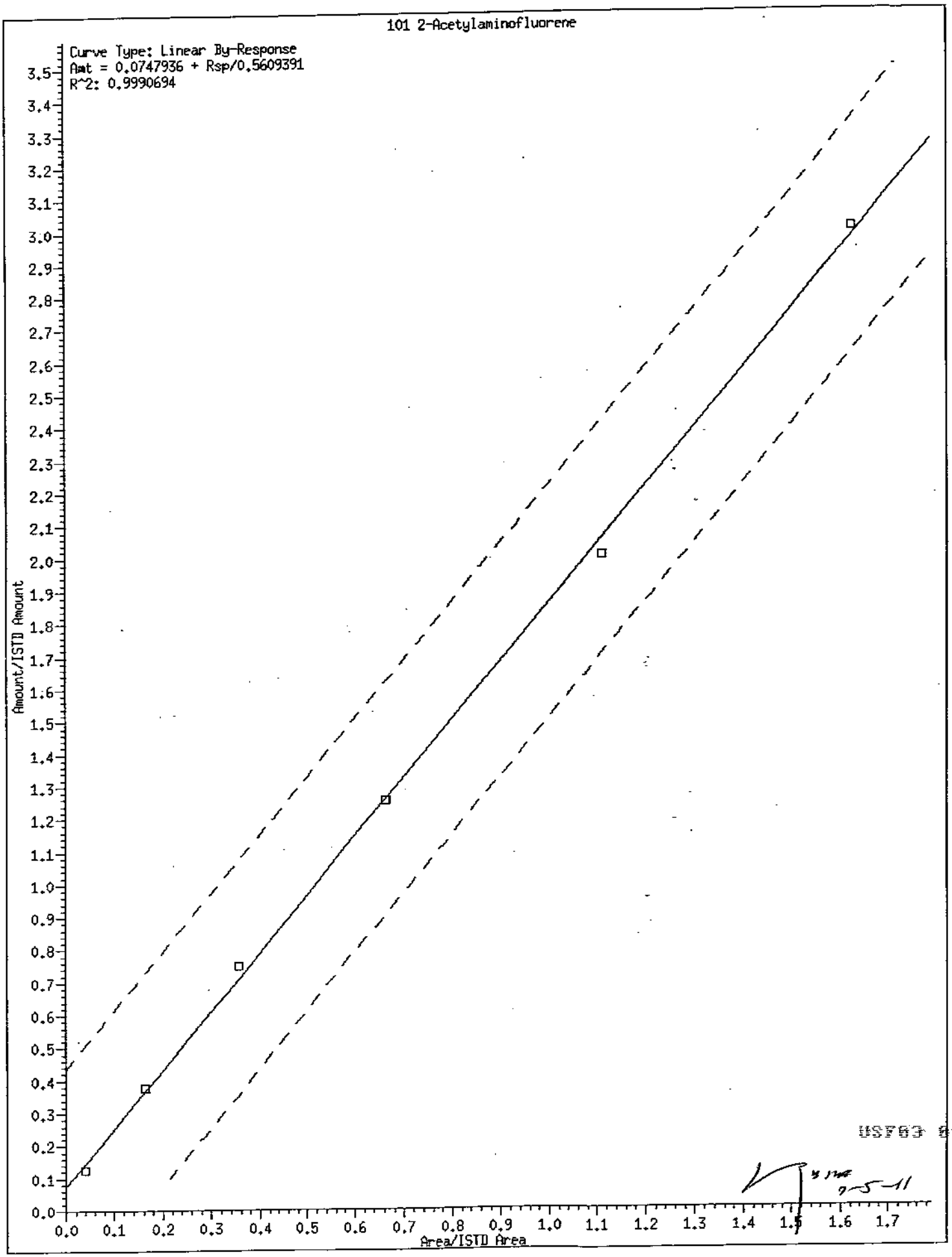

63 Isosafrole
Curve Type: Quadratic By-Response
Amt = 0.0332571 + 2.313506*Rsp + -0.3963648*Rsp^2
R^2: 0.9925827
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4


72 Hexachlorocyclopentadiene
Curve Type: Linear By-Response
Amt = 0.1094026 + Rsp/0.2669525
R^2: 0.9988673
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60 8.00 8.40

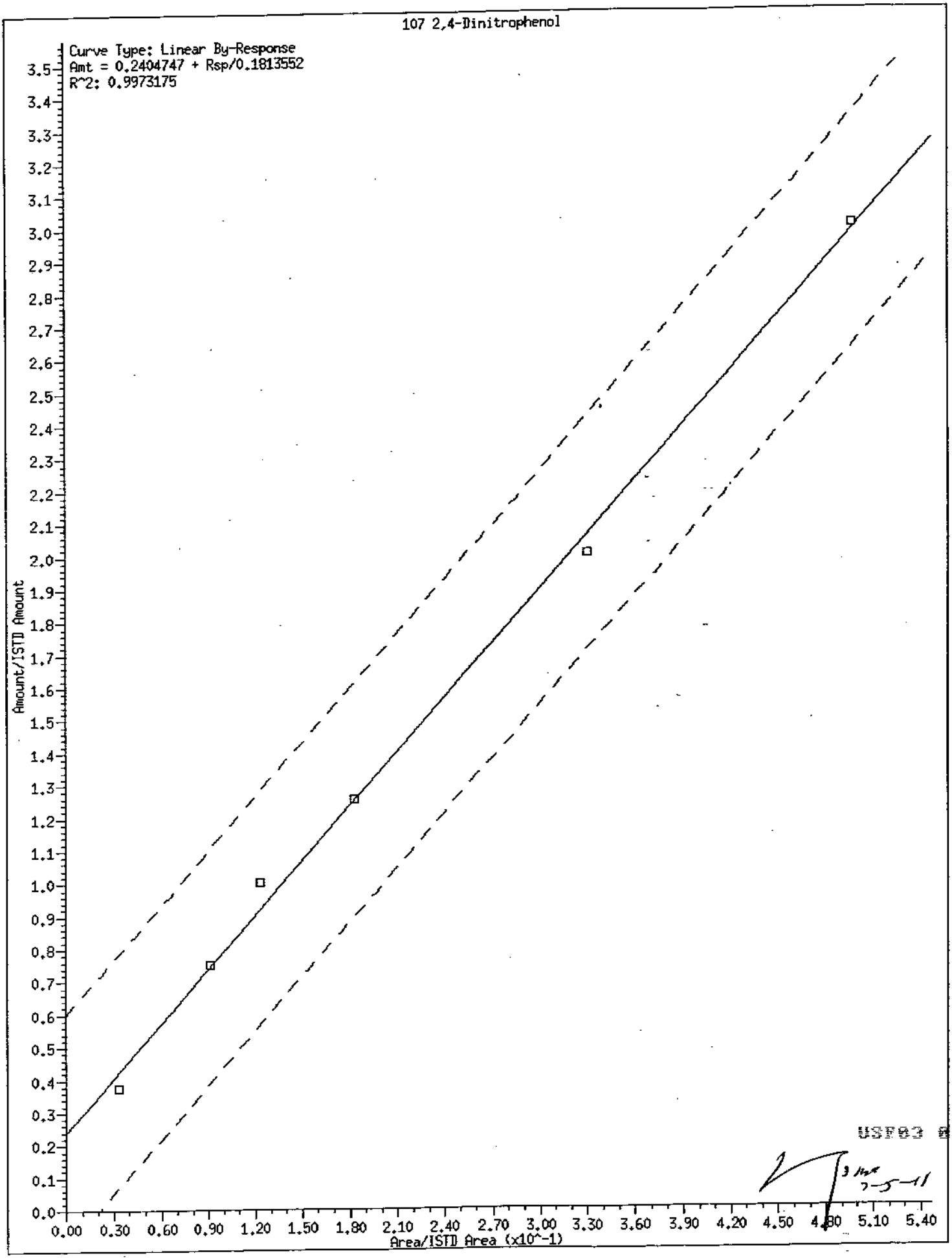

75 Phorate
Curve Type: Linear By-Response
Amt = 0.0911187 + Rsp/0.9422858
R^2: 0.9992913
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.8
3.0
0.1
0.3
0.5
0.7
0.9
1.1
1.3
1.5
1.7
1.9
2.1
2.3
2.5
2.6
2.7
2.9
3.1
3.2
3.3
3.4
3.5
3.6


81 1,3,5-Trinitrobenzene
Curve Type: Linear By-Response
Amt = 0.1577757 + Rsp/0.1114885
R^2: 0.9972304
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40
2.60
2.80
3.00
3.20
3.40

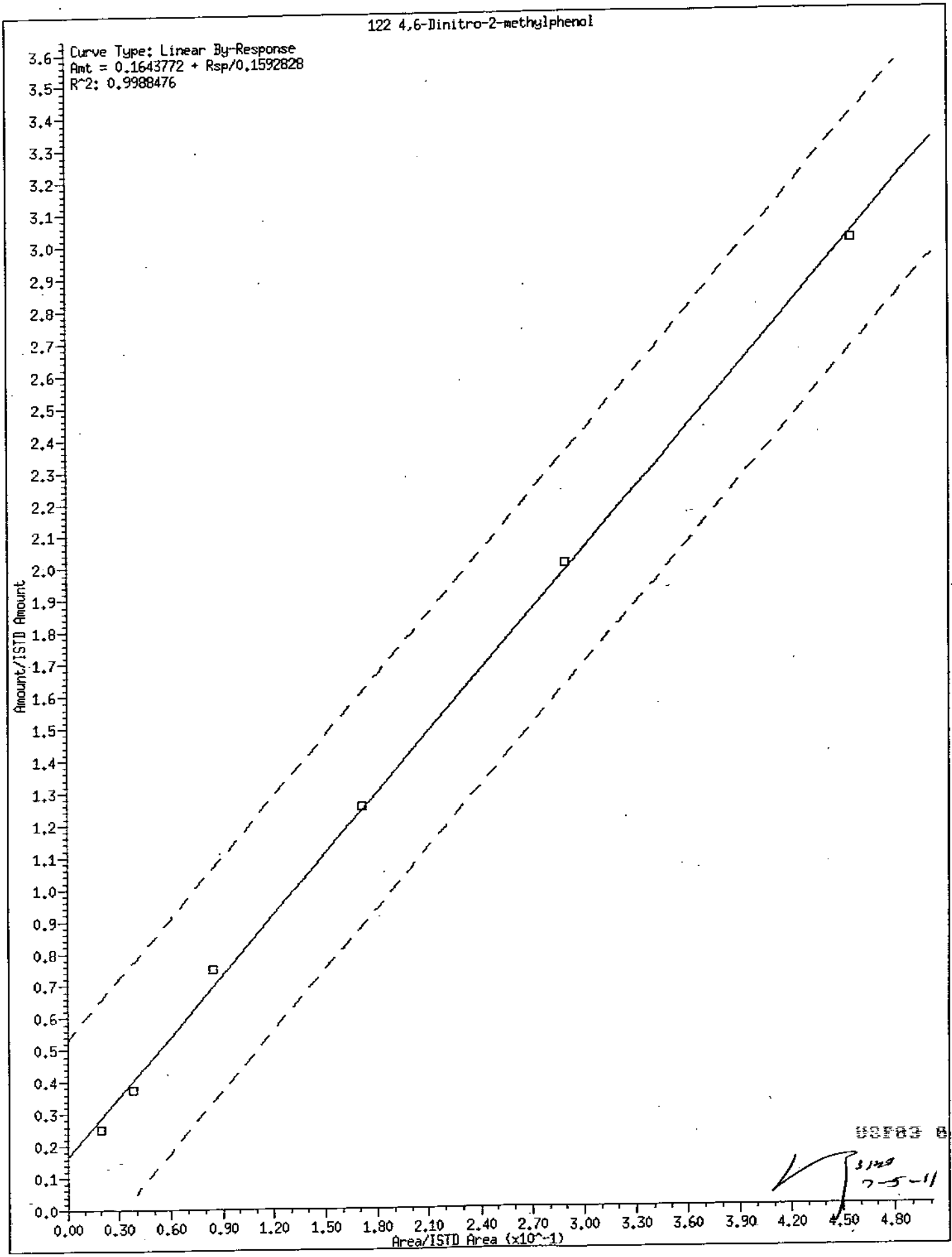
USP83 0134

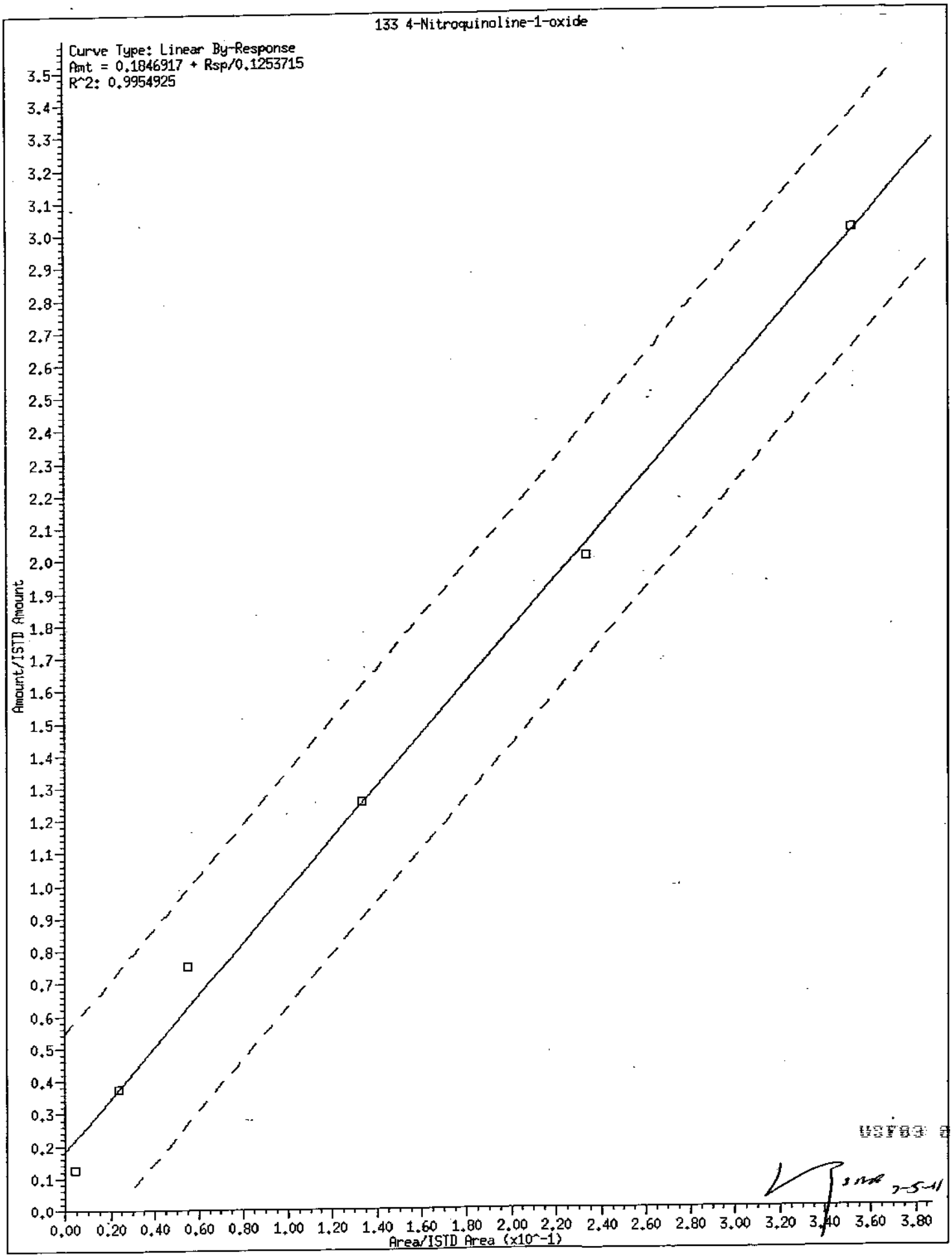

101 2-Acetylaminofluorene
Curve Type: Linear By-Response
Amt = 0.0747936 + Rsp/0.5609391
R^2: 0.9990694
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5

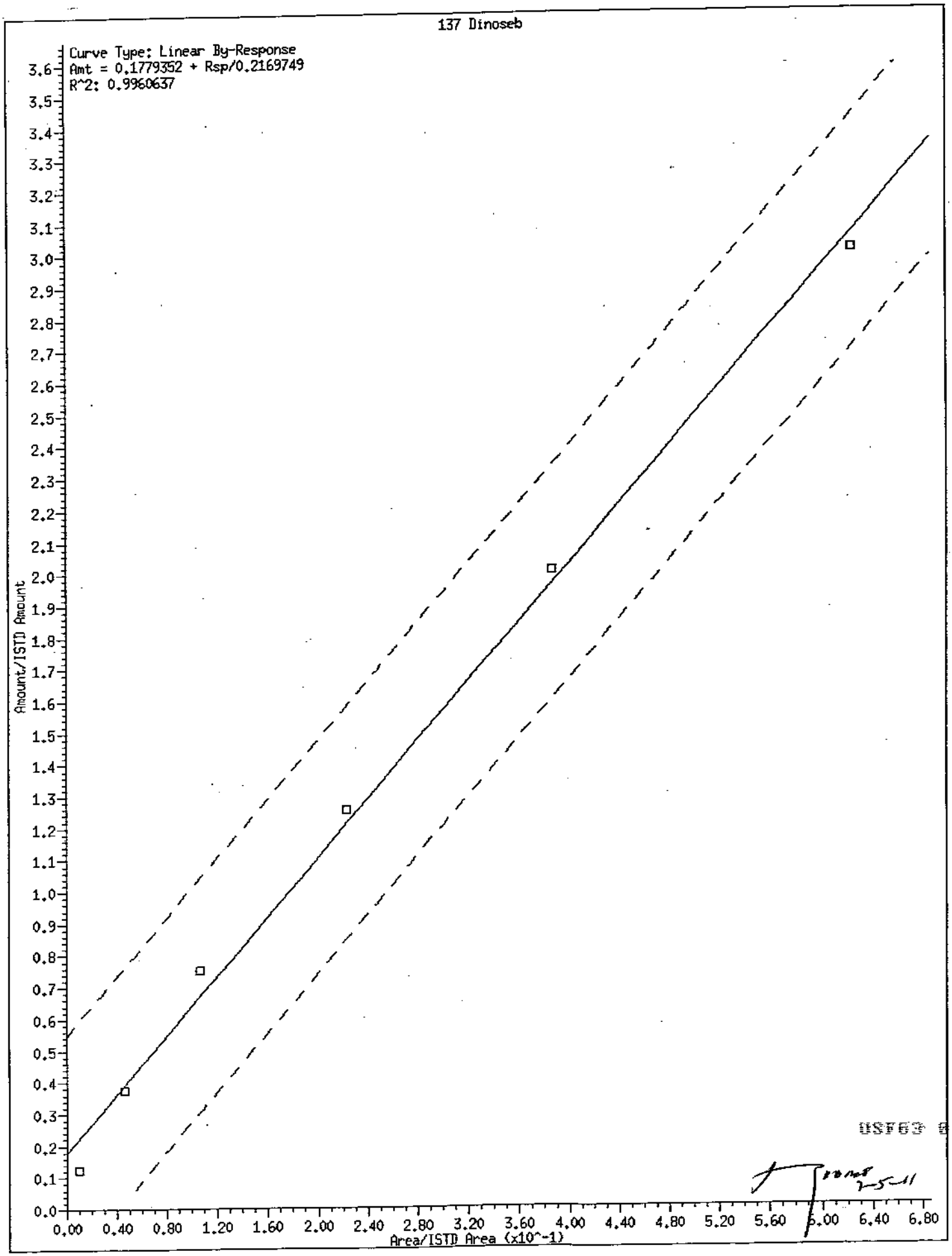
USF83 0135


107 2,4-Dinitrophenol
Curve Type: Linear By-Response
Amt = 0.2404747 + Rsp/0.1813552
R^2: 0.9973175
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50
4.80
5.10
5.40

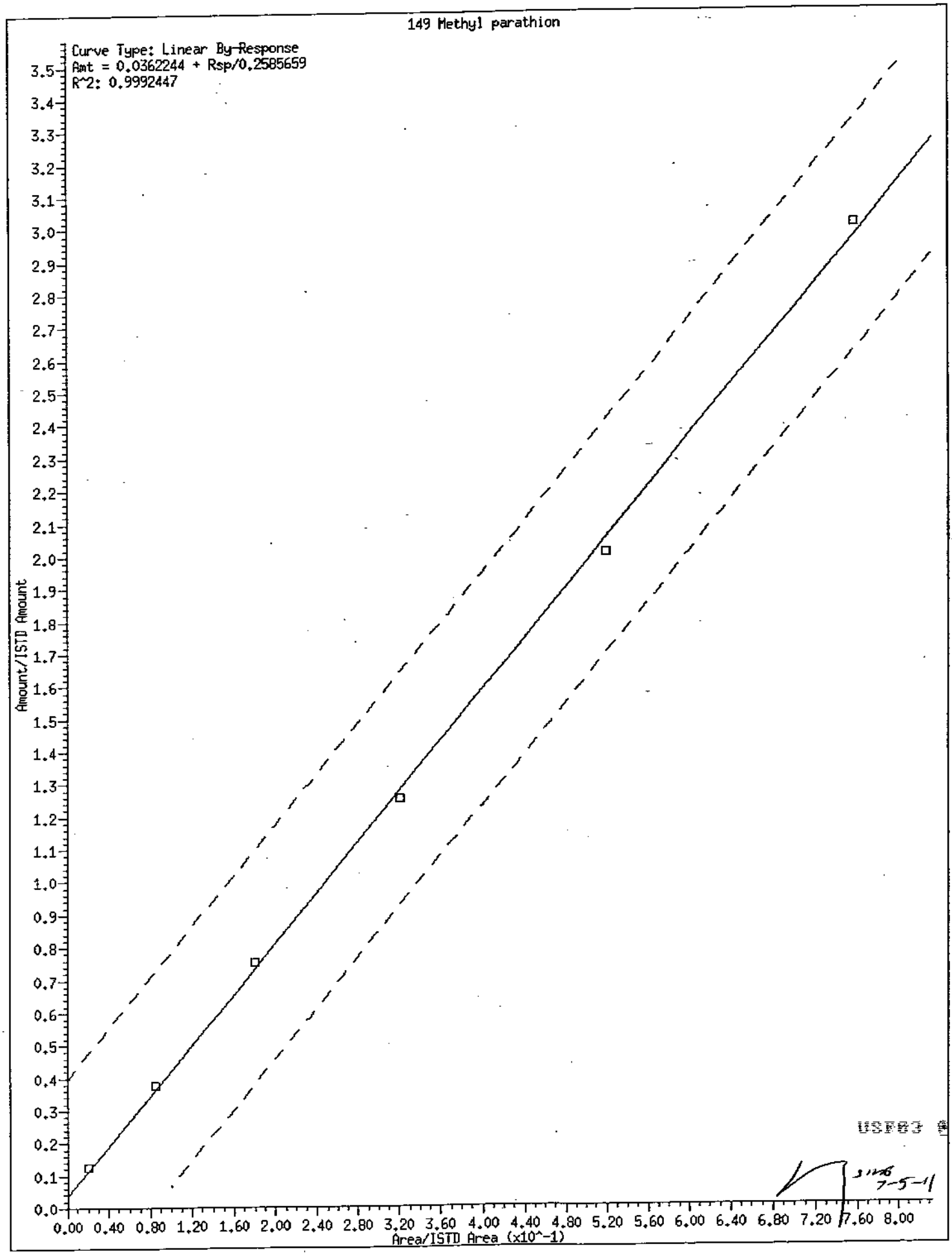
USP82 #136


122 4,6-Dinitro-2-methylphenol
Curve Type: Linear By-Response
Amt = 0.1643772 + Rsp/0.1592828
R^2: 0.9988476
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50
4.80


133 4-Nitroquinoline-1-oxide
Curve Type: Linear By-Response
Amt = 0.1846917 + Rsp/0.1253715
R^2: 0.9954925
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5
0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80

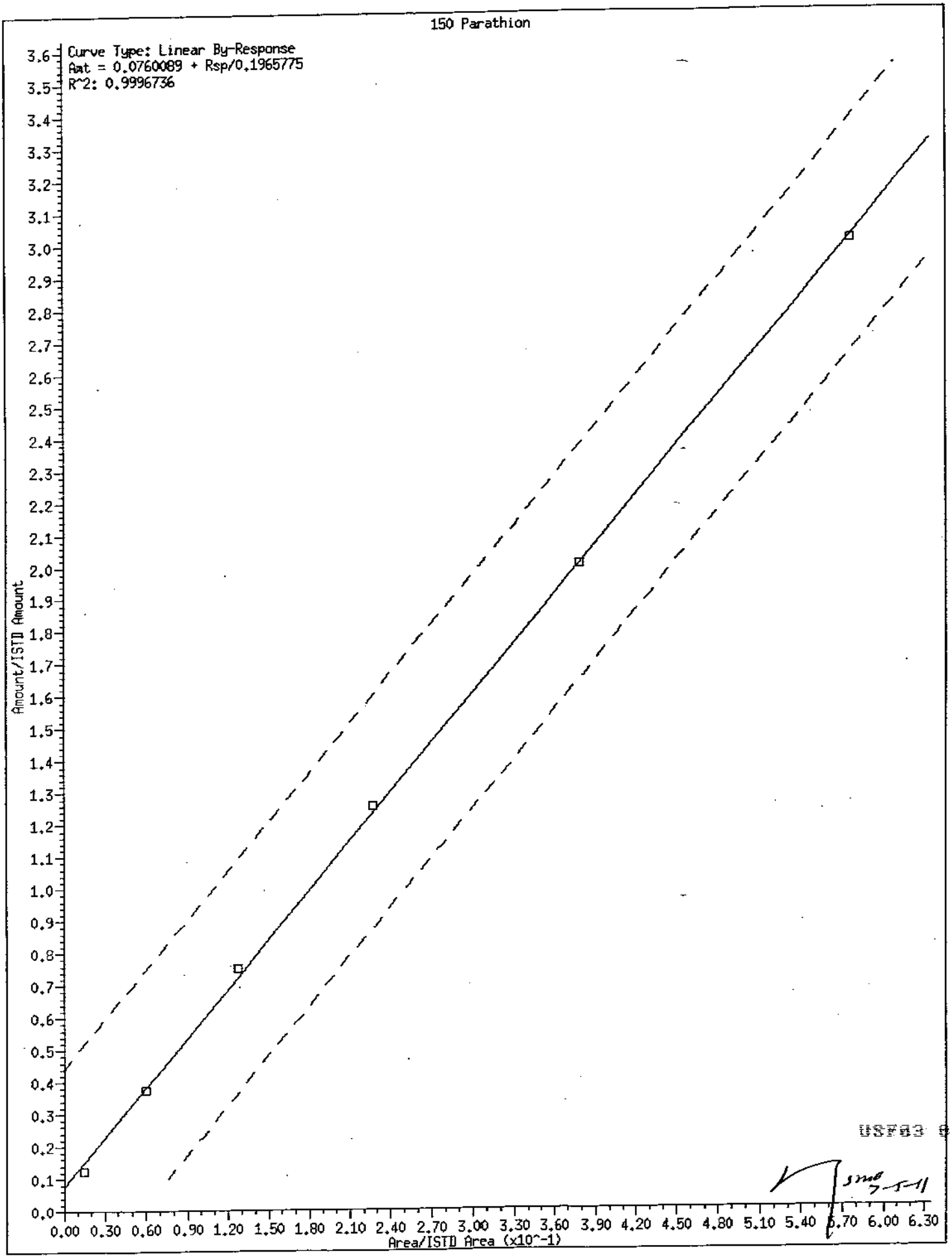

137 Dinoseb
Curve Type: Linear By-Response
Amt = 0.1779352 + Rsp/0.2169749
R^2: 0.9960637
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
3.20
3.60
4.00
4.40
4.80
5.20
5.60
6.00
6.40
6.80

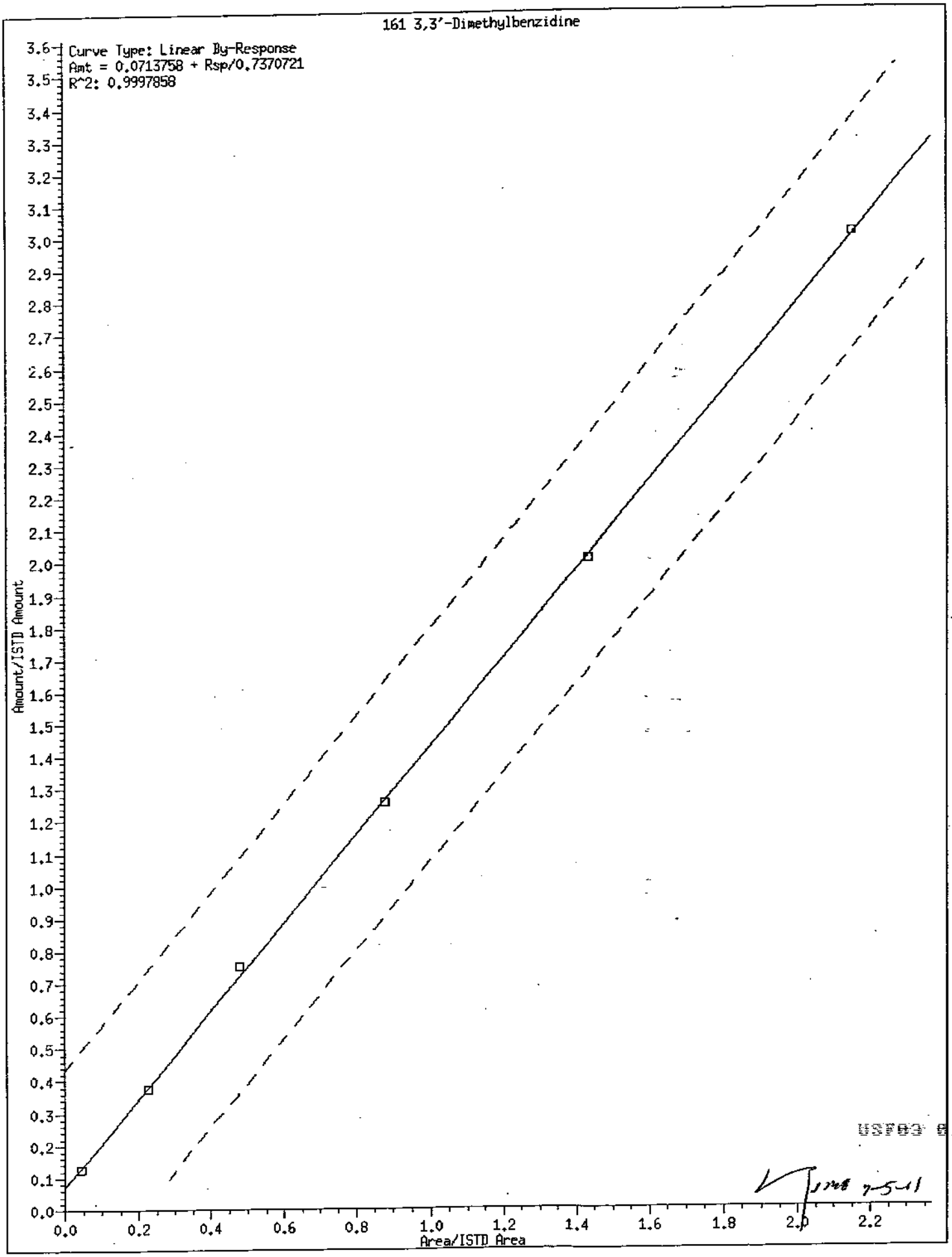
USF63 0139



USPS3 #148

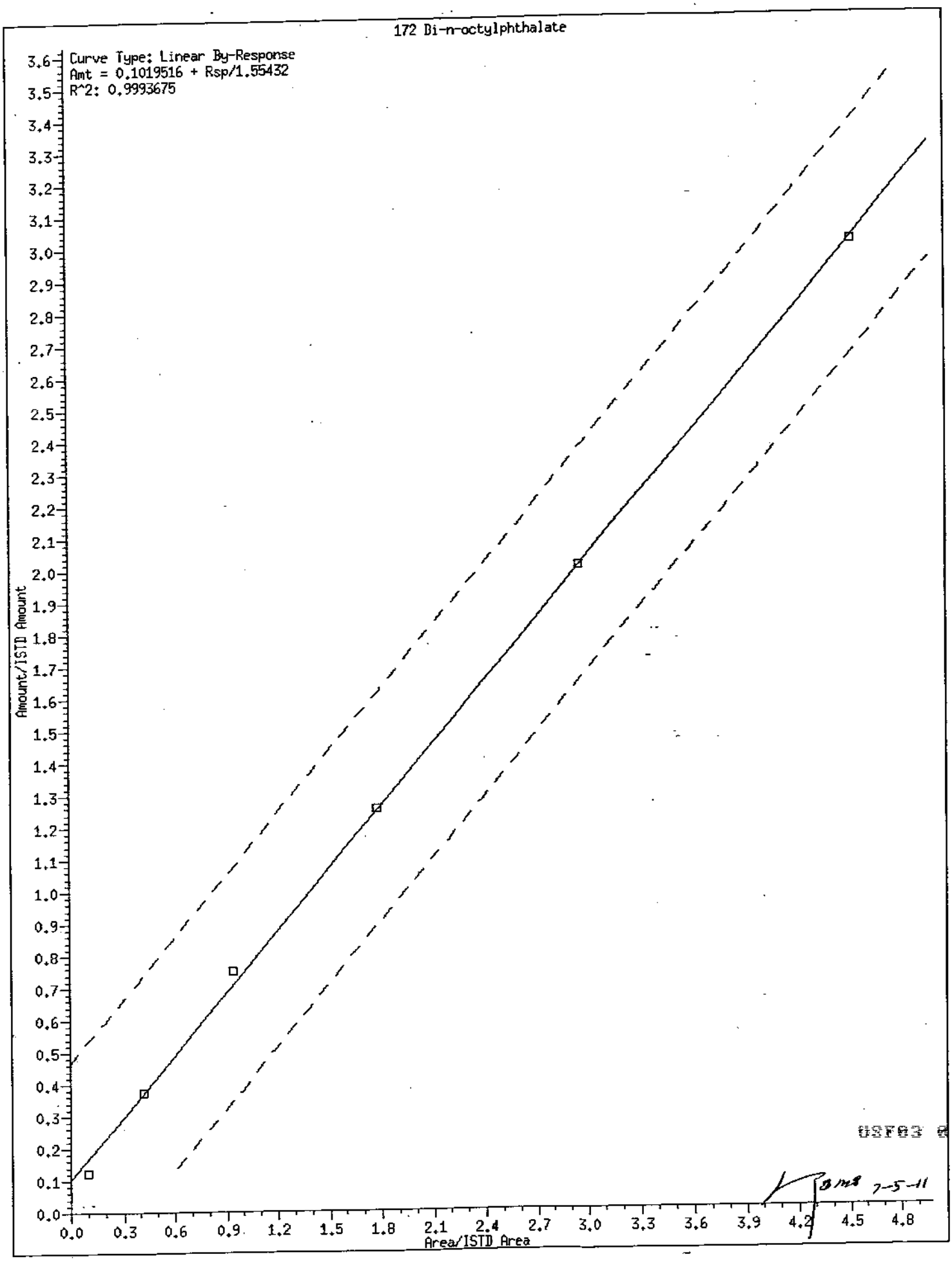
slope 7-5-11


150 Parathion
Curve Type: Linear By-Response
Amt = 0.0760089 + Rsp/0.1965775
R^2: 0.9996736
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00 6.30



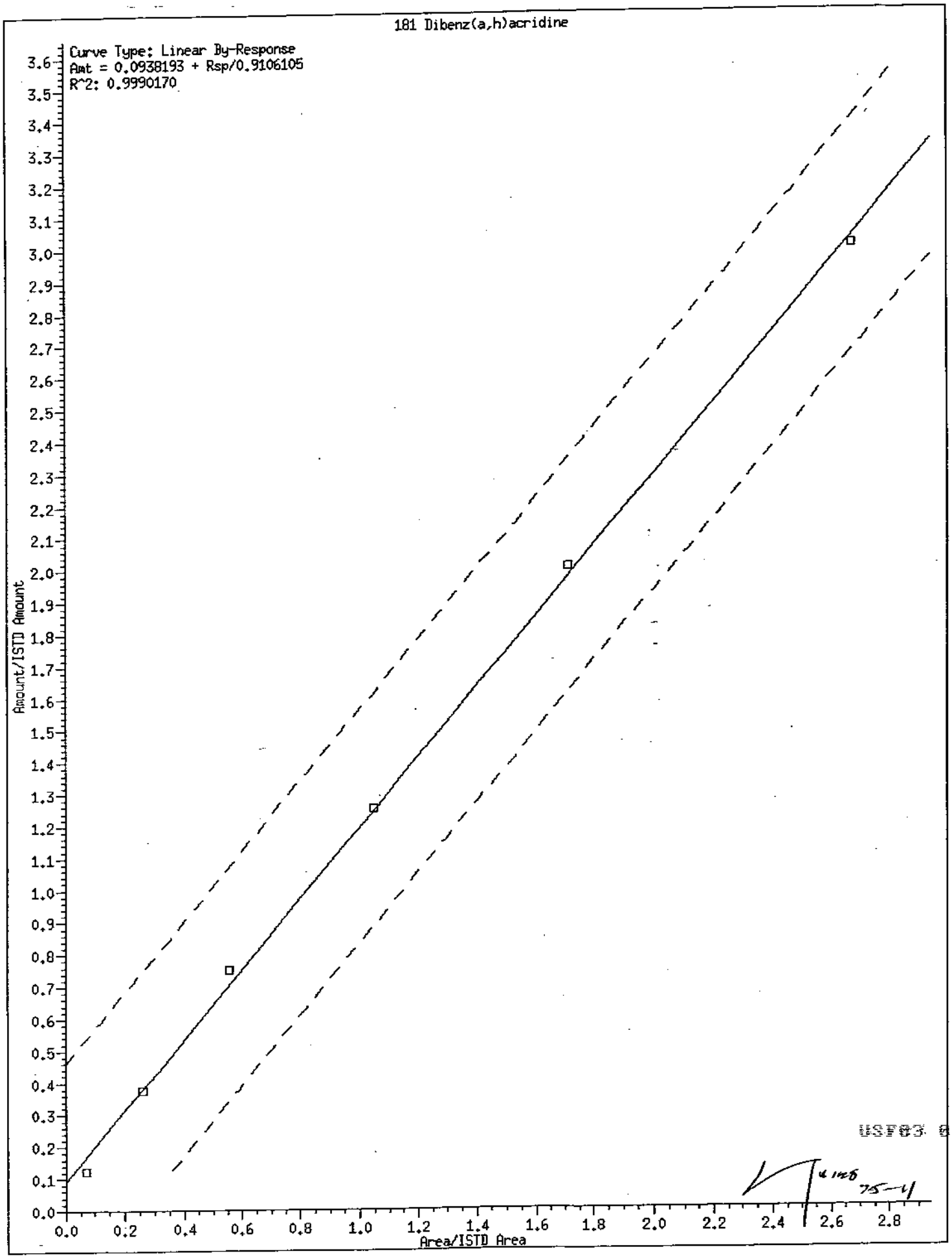
USP03 0142

JMB 7-5-11



USTR3 0143

BMB 7-5-11


181 Dibenz(a,h)acridine
Curve Type: Linear By-Response
Amt = 0.0938193 + Rsp/0.9106105
R^2: 0.9990170
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.1
3.2
3.3
3.4
3.5
3.6

USP03 0144

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C File ID: eg0139.d

ICV SAMPLE ID: ICV0751 BATCH: 11JUL05A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
1,4-Dioxane	50.00	60.32	21	30	YES
N-Nitrosomethylethylamine	50.00	53.33	7	30	YES
N-Nitrosodimethylamine	50.00	53.46	7	30	YES
Pyridine	50.00	51.69	3	30	YES
N-Nitrosodi-n-butylamine	50.00	46.45	-7	30	YES
2-Picoline	50.00	55.30	11	30	YES
N-Nitrosomorpholine	50.00	53.07	6	30	YES
Methyl methanesulfonate	50.00	52.87	6	30	YES
N-Nitrosodiethylamine	50.00	52.56	5	30	YES
2-Fluorophenol	50.00	55.23	10	30	YES
Diallate (peak 2)	12.50	12.03	-4	30	YES
Ethyl methanesulfonate	50.00	52.34	5	30	YES
Indene	50.00	49.91	0	30	YES
N-Nitrosopiperidine	50.00	52.79	6	30	YES
Phenol-d5	50.00	55.64	11	30	YES
Phenol-d6	50.00	55.64	11	30	YES
Aniline	50.00	52.58	5	30	YES
Phenol	50.00	54.50	9	30	YES
bis(2-Chloroethyl)ether	50.00	53.32	7	30	YES
2-Chlorophenol	50.00	53.45	7	30	YES
1,3-Dichlorobenzene	50.00	52.47	5	30	YES
1,4-Dichlorobenzene	50.00	52.40	5	30	YES
Thionazin	50.00	50.34	1	30	YES
N-Nitrosopyrrolidine	50.00	54.27	9	30	YES
Benzyl alcohol	50.00	54.42	9	30	YES
1,2-Dichlorobenzene	50.00	51.56	3	30	YES
Pentachloroethane	50.00	51.58	3	30	YES
2-Methylphenol	50.00	53.99	8	30	YES
2,2'-oxybis(1-Chloropropane	50.00	52.08	4	30	YES
bis(2-Chloroisopropyl)ether	50.00	52.08	4	30	YES
Acetophenone	50.00	52.37	5	30	YES
N-Nitroso-di-n-propylamine	50.00	52.80	6	30	YES
4-Methylphenol	50.00	52.59	5	30	YES
o-Toluidine	50.00	52.67	5	30	YES
Hexachloroethane	50.00	52.47	5	30	YES
Nitrobenzene-d5	50.00	53.28	7	30	YES
Nitrobenzene	50.00	52.79	6	30	YES

NC = Could not calculate

Comments: _____

TR pbmb 7-5-11

USP03 0145

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C File ID: eg0139.d

ICV SAMPLE ID: ICV0751 BATCH: 11JUL05A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Hexachloropropene	50.00	52.23	4	30	YES
Isophorone	50.00	54.95	10	30	YES
2-Nitrophenol	50.00	53.91	8	30	YES
2,4-Dimethylphenol	50.00	54.28	9	30	YES
bis(2-Chloroethoxy)methane	50.00	52.73	5	30	YES
Benzoic acid	50.00	41.17	-18	30	YES
2,4-Dichlorophenol	50.00	52.55	5	30	YES
1,2,4-Trichlorobenzene	50.00	50.12	0	30	YES
Naphthalene	50.00	52.33	5	30	YES
2,6-Dichlorophenol	50.00	52.89	6	30	YES
4-Chloroaniline	50.00	55.56	11	30	YES
1,4-Dinitrobenzene	50.00	49.20	-2	30	YES
1,3-Dinitrobenzene	50.00	55.43	11	30	YES
Hexachlorobutadiene	50.00	50.60	1	30	YES
1,4-Naphthoquinone	550.00	65.34	-88	30	NO *
Safrole	50.00	52.58	5	30	YES
trans-Isosafrole	44.50	59.47	34	30	NO +
Isosafrole	50.00	68.38	37	30	NO *
cis-Isosafrole	5.50	5.51	0	30	YES
Quinoline	50.00	54.26	9	30	YES
1-Nitronaphthalene	50.00	52.90	6	30	YES
4-Chloro-3-methylphenol	50.00	53.76	8	30	YES
2-Methylnaphthalene	50.00	50.03	0	30	YES
5-Nitro-o-toluidine	50.00	52.88	6	30	YES
1-Methylnaphthalene	50.00	52.93	6	30	YES
Hexachlorocyclopentadiene	100.00	94.59	-5	30	YES
1,2,4,5-Tetrachlorobenzene	50.00	49.00	-2	30	YES
Phorate	50.00	47.70	-5	30	YES
2,4,6-Trichlorophenol	50.00	50.51	1	30	YES
2,4,5-Trichlorophenol	50.00	50.92	2	30	YES
Diallate (peak 1)	37.50	35.93	-4	30	YES
2-Fluorobiphenyl	50.00	50.53	1	30	YES
Phenacetin	50.00	54.91	10	30	YES
1,3,5-Trinitrobenzene	50.00	47.46	-5	30	YES
Biphenyl	50.00	49.95	0	30	YES
Diphenyl	50.00	49.95	0	30	YES
1,1'-Biphenyl	50.00	49.95	0	30	YES

NC = Could not calculate

Comments: _____

USF83 8146

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C File ID: eg0139.d

ICV SAMPLE ID: ICV0751 BATCH: 11JUL05A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
2-Chloronaphthalene	50.00	57.68	15	30	YES
Diphenyl ether	50.00	49.31	-1	30	YES
2-Nitroaniline	50.00	53.66	7	30	YES
Dimethylphthalate	50.00	52.45	5	30	YES
O,O,O-triethylphosphorothio	50.00	50.04	0	30	YES
Dimethoate	50.00	51.68	3	30	YES
Pronamide	50.00	52.03	4	30	YES
2,6-Dinitrotoluene	50.00	53.69	7	30	YES
Isodrin	50.00	53.06	6	30	YES
Acenaphthylene	50.00	52.21	4	30	YES
2-Acetylaminofluorene	50.00	52.61	5	30	YES
3-Nitroaniline	50.00	53.73	7	30	YES
4-Aminobiphenyl	50.00	60.90	22	30	YES
Acenaphthene	50.00	50.83	2	30	YES
2,4-Dinitrophenol	50.00	47.49	-5	30	YES
Tetraethyldithiopyrophospha	50.00	51.01	2	30	YES
4-Nitrophenol	50.00	54.08	8	30	YES
Pentachlorobenzene	50.00	49.29	-1	30	YES
Dibenzofuran	50.00	51.64	3	30	YES
2,4-Dinitrotoluene	50.00	54.28	9	30	YES
1-Naphthylamine	100.00	106.98	7	30	YES
2,3,4,6-Tetrachlorophenol	50.00	54.77	10	30	YES
2-Naphthylamine	100.00	104.67	5	30	YES
Diethylphthalate	50.00	52.00	4	30	YES
Fluorene	50.00	52.47	5	30	YES
4-Chlorophenyl-phenylether	50.00	51.32	3	30	YES
4-Nitroaniline	50.00	52.41	5	30	YES
4,6-Dinitro-2-methylphenol	50.00	47.56	-5	30	YES
N-Nitrosodiphenylamine	50.00	51.79	4	30	YES
1,2-Diphenylhydrazine	50.00	52.24	4	30	YES
2,4,6-Tribromophenol	50.00	55.11	10	30	YES
4-Bromophenyl-phenylether	50.00	52.55	5	30	YES
Hexachlorobenzene	50.00	51.17	2	30	YES
4-Nitroquinoline-1-oxide	550.00	821.89	49	30	NO *
Pentachlorophenol	50.00	51.65	3	30	YES
Pentachloronitrobenzene	50.00	50.95	2	30	YES
Dinoseb	50.00	46.47	-7	30	YES

NC = Could not calculate

Comments: _____

USPEC 8147

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C File ID: eg0139.d

ICV SAMPLE ID: ICV0751 BATCH: 11JUL05A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Phenanthrene	50.00	52.18	4	30	YES
Anthracene	50.00	53.33	7	30	YES
Chlorobenzilate	50.00	52.38	5	30	YES
Carbazole	50.00	53.77	8	30	YES
p-Dimethylaminoazobenzene	50.00	54.38	9	30	YES
Di-n-butylphthalate	50.00	53.67	7	30	YES
Methyl parathion	50.00	50.15	0	30	YES
Parathion	50.00	55.64	11	30	YES
Fluoranthene	50.00	53.27	7	30	YES
Benzidine	250.00	317.28	27	30	YES
Pyrene	50.00	52.89	6	30	YES
Terphenyl-d14	50.00	54.14	8	30	YES
3,3'-Dimethylbenzidine	50.00	49.79	0	30	YES
Butylbenzylphthalate	50.00	54.73	9	30	YES
Benzo(a)anthracene	50.00	52.95	6	30	YES
3,3'-Dichlorobenzidine	50.00	51.03	2	30	YES
4,4'-Methylenebis(2-Chloroa	50.00	53.22	6	30	YES
Chrysene	50.00	52.35	5	30	YES
bis(2-Ethylhexyl)phthalate	50.00	55.67	11	30	YES
6-Methylchrysene	50.00	54.73	9	30	YES
Di-n-octylphthalate	50.00	47.86	-4	30	YES
Benzo(b)fluoranthene	50.00	51.52	3	30	YES
7,12-Dimethylbenz[a]anthrac	50.00	50.79	2	30	YES
Benzo(k)fluoranthene	50.00	49.70	-1	30	YES
Benzo(a)pyrene	50.00	51.00	2	30	YES
3-Methylcholanthrene	50.00	50.54	1	30	YES
Dibenz(a,h)acridine	50.00	44.23	-12	30	YES
Dibenz(a,j)acridine	50.00	52.38	5	30	YES
Indeno(1,2,3-cd)pyrene	50.00	51.16	2	30	YES
Dibenz(a,h)anthracene	50.00	50.47	1	30	YES
Benzo(g,h,i)perylene	50.00	50.45	1	30	YES
Diallate TRANS/CIS	50.00	47.96	-4	30	YES

NC = Could not calculate

Comments: _____

* Not Compounds of Interest (APP IX analysis)

PSMO 7-5-11

USF83 B148

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date(s): 07/19/11 07/19/11

Calibration Times: 00:27 02:55

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = eg0654.d RRF15 = eg0655.d RRF30 = eg0656.d
RRF50 = eg0651.d RRF80 = eg0653.d RRF120 = eg0652.d

	COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
	1,4-Dioxane	0.565	0.603	0.629	0.627	0.630	0.624		0.613	4	AVG	
	N-Nitrosodimethylamine	0.889	1.063	1.083	1.130	1.183	1.171		1.086	10	AVG	
	Pyridine	1.502	1.661	1.901	1.928	1.976	1.941		1.818	11	AVG	
	2-Picoline	1.808	1.796	1.838	1.854	1.921	1.886		1.851	3	AVG	
	N-Nitrosomethylethylamine	0.830	0.855	0.857	0.864	0.902	0.875		0.864	3	AVG	
	Methyl methanesulfonate	0.984	1.035	1.036	1.045	1.073	1.038		1.035	3	AVG	
	N-Nitrosodiethylamine	0.764	0.804	0.839	0.831	0.881	0.864		0.830	5	AVG	
	Ethyl methanesulfonate	0.798	0.824	0.853	0.837	0.866	0.839		0.836	3	AVG	
*	Phenol	2.326	2.461	2.520	2.533	2.698	2.669		2.534	5	AVG	*
	Aniline	2.724	2.789	2.903	2.890	3.046	3.016		2.895	4	AVG	
	Pentachloroethane	0.494	0.511	0.522	0.529	0.550	0.536		0.524	4	AVG	
	bis(2-Chloroethyl)ether	1.825	1.787	1.825	1.832	1.920	1.884		1.845	3	AVG	
	2-Chlorophenol	1.433	1.521	1.572	1.556	1.658	1.609		1.558	5	AVG	
	1,3-Dichlorobenzene	1.506	1.533	1.597	1.593	1.661	1.634		1.587	4	AVG	
*	1,4-Dichlorobenzene	1.578	1.566	1.648	1.642	1.710	1.696		1.640	4	AVG	*
	Benzyl alcohol	1.084	1.128	1.155	1.067	1.210	1.212		1.143	5	AVG	
	1,2-Dichlorobenzene	1.437	1.517	1.564	1.535	1.636	1.631		1.553	5	AVG	
	Indene	2.465	2.576	2.548	2.485	2.799	2.785		2.610	6	AVG	
	2-Methylphenol	1.477	1.553	1.600	1.592	1.668	1.627		1.586	4	AVG	
	2,2'-oxybis(1-Chloropropane)	2.952	2.814	2.850	2.880	2.950	2.850		2.883	2	AVG	
	bis(2-Chloroisopropyl)ether	2.952	2.814	2.850	2.880	2.950	2.853		2.883	2	AVG	
	N-Nitrosopyrrolidine	0.924	0.919	0.968	0.951	1.004	0.996		0.960	4	AVG	
	Acetophenone	2.386	2.462	2.502	2.488	2.600	2.535		2.496	3	AVG	
#	N-Nitroso-di-n-propylamine	1.560	1.685	1.722	1.724	1.821	1.782		1.716	5	AVG	#
	4-Methylphenol	1.590	1.849	1.753	1.768	2.068	2.037		1.844	10	AVG	
	N-Nitrosomorpholine	1.287	1.350	1.398	1.385	1.407	1.363		1.365	3	AVG	
	o-Toluidine	2.626	2.705	2.810	2.790	2.968	2.940		2.807	5	AVG	
	Hexachloroethane	0.617	0.621	0.650	0.651	0.689	0.677		0.651	4	AVG	
	Nitrobenzene	0.457	0.475	0.491	0.499	0.506	0.505		0.489	4	AVG	
	N-Nitrosopiperidine	0.187	0.191	0.196	0.192	0.194	0.192		0.192	2	AVG	
	Isophorone	0.824	0.854	0.882	0.891	0.898	0.872		0.870	3	AVG	
*	2-Nitrophenol	0.167	0.182	0.199	0.199	0.207	0.208		0.194	8	AVG	*
	2,4-Dimethylphenol	0.362	0.377	0.402	0.404	0.410	0.409		0.394	5	AVG	
	O,O,O-triethylphosphorothioate	0.172	0.180	0.183	0.182	0.186	0.185		0.181	3	AVG	
	bis(2-Chloroethoxy)methane	0.453	0.489	0.518	0.495	0.533	0.508		0.500	6	AVG	
	Benzoic acid	0.294	0.324	0.334	0.314	0.345	0.346		0.326	6	AVG	
*	2,4-Dichlorophenol	0.262	0.282	0.301	0.298	0.303	0.299		0.291	5	AVG	*
	1,2,4-Trichlorobenzene	0.292	0.309	0.316	0.323	0.331	0.336		0.318	5	AVG	
	Naphthalene	0.985	1.025	1.071	1.080	1.097	1.099		1.060	4	AVG	
	4-Chloroaniline	0.418	0.446	0.466	0.470	0.480	0.486		0.461	5	AVG	
	2,6-Dichlorophenol	0.258	0.282	0.296	0.298	0.305	0.309		0.291	6	AVG	
	Hexachloropropene	0.155	0.160	0.177	0.179	0.187	0.192		0.175	8	AVG	
*	Hexachlorobutadiene	0.141	0.144	0.153	0.156	0.160	0.164		0.153	6	AVG	*
	Quinoline	0.694	0.682	0.716	0.701	0.701	0.691		0.698	2	AVG	
	Caprolactam	0.136	0.146	0.148	0.151	0.146	0.141		0.144	4	AVG	
	N-Nitrosodi-n-butylamine	0.315	0.414	0.423	0.426	0.342	0.326		0.374	14	AVG	
*	4-Chloro-3-methylphenol	0.329	0.349	0.363	0.361	0.367	0.355		0.354	4	AVG	*
	Safrole	0.270	0.266	0.282	0.288	0.297	0.294		0.283	4	AVG	
	cis-Isosafrole	0.562	0.651	0.703	0.729	0.757	0.745		0.691	11	AVG	
	2-Methylnaphthalene	0.682	0.713	0.737	0.742	0.757	0.747		0.730	4	AVG	
	1-Methylnaphthalene	0.632	0.674	0.702	0.698	0.712	0.700		0.686	4	AVG	
#	Hexachlorocyclopentadiene	0.182	0.228	0.261	0.267	0.300	0.308		0.257	18	1STDEG	#

USEPA 6149

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date(s): 07/19/11 07/19/11

Calibration Times: 00:27 02:55

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = eg0654.d RRF15 = eg0655.d RRF30 = eg0656.d
RRF50 = eg0651.d RRF80 = eg0653.d RRF120 = eg0652.d

COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
1,2,4,5-Tetrachlorobenzene	0.431	0.465	0.496	0.503	0.530	0.533		0.493	8	AVG	
trans-Isosafrole	0.466	0.486	0.522	0.525	0.548	0.541		0.515	6	AVG	
2,4,6-Trichlorophenol *	0.299	0.327	0.345	0.351	0.360	0.363		0.341	7	AVG	*
2,4,5-Trichlorophenol	0.345	0.360	0.390	0.388	0.399	0.406		0.382	6	AVG	
Isosafrole	0.414	0.432	0.465	0.467	0.488	0.481		0.458	6	AVG	
Biphenyl	1.320	1.392	1.452	1.473	1.529	1.537		1.451	6	AVG	
Diphenyl	1.320	1.392	1.452	1.473	1.529	1.537		1.451	6	AVG	
1,1'-Biphenyl	1.320	1.392	1.452	1.473	1.529	1.537		1.451	6	AVG	
2-Chloronaphthalene	1.057	1.360	1.274	1.248	1.377	1.654		1.328	15	AVG	
1-Chloronaphthalene	1.100	1.009	1.026	1.059	1.026	1.035		1.043	3	AVG	
Diphenyl ether	0.709	0.745	0.787	0.784	0.819	0.811		0.776	5	AVG	
2-Nitroaniline	0.354	0.372	0.409	0.411	0.420	0.420		0.398	7	AVG	
1,4-Naphthoquinone	0.388	0.448	0.486	0.493	0.501	0.478		0.466	9	AVG	
1,4-Dinitrobenzene	0.163	0.180	0.202	0.205	0.224	0.224		0.200	12	AVG	
Dimethylphthalate	1.250	1.270	1.307	1.311	1.332	1.320		1.298	2	AVG	
1,3-Dinitrobenzene	0.202	0.225	0.237	0.241	0.250	0.252		0.235	8	AVG	
2,6-Dinitrotoluene	0.285	0.300	0.316	0.319	0.330	0.325		0.312	5	AVG	
Acenaphthylene	1.515	1.654	1.721	1.739	1.784	1.786		1.700	6	AVG	
3-Nitroaniline	0.280	0.314	0.345	0.345	0.350	0.351		0.331	9	AVG	
Acenaphthene *	1.051	1.100	1.138	1.150	1.184	1.184		1.134	5	AVG	*
2,4-Dinitrophenol #	0.116	0.147	0.159	0.154	0.180	0.188		0.157	16	1STDEG	#
Pentachlorobenzene	0.400	0.428	0.447	0.442	0.449	0.448		0.435	4	AVG	
4-Nitrophenol #	0.162	0.189	0.194	0.201	0.199	0.230		0.196	11	AVG	#
Dibenzofuran	1.509	1.550	1.648	1.652	1.686	1.704		1.625	5	AVG	
2,4-Dinitrotoluene	0.357	0.386	0.418	0.422	0.438	0.451		0.412	8	AVG	
1-Naphthylamine	1.106	1.199	1.274	1.299	1.287	1.282		1.241	6	AVG	
2,3,4,6-Tetrachlorophenol	0.258	0.292	0.298	0.299	0.312	0.312		0.295	7	AVG	
2-Naphthylamine	1.145	1.208	1.297	1.312	1.297	1.270		1.255	5	AVG	
Diethylphthalate	1.187	1.232	1.288	1.293	1.304	1.297		1.267	4	AVG	
Fluorene	1.262	1.308	1.366	1.411	1.455	1.484		1.381	6	AVG	
Thionazin	0.236	0.216	0.234	0.235	0.248	0.261		0.238	6	AVG	
4-Chlorophenyl-phenylether	0.588	0.620	0.650	0.660	0.687	0.699		0.651	6	AVG	
5-Nitro-o-toluidine	0.396	0.397	0.411	0.434	0.421	0.415		0.412	3	AVG	
4-Nitroaniline	0.350	0.374	0.383	0.374	0.370	0.363		0.369	3	AVG	
4,6-Dinitro-2-methylphenol	0.091	0.108	0.124	0.126	0.141	0.142		0.122	16	1STDEG	
1-Nitronaphthalene	0.146	0.150	0.154	0.157	0.159	0.159		0.154	3	AVG	
N-Nitrosodiphenylamine (1) *	0.618	0.636	0.679	0.679	0.697	0.682		0.665	5	AVG	*
NDPA as diphenylamine	0.618	0.636	0.678	0.679	0.696	0.682		0.665	5	AVG	
1,2-Diphenylhydrazine	0.928	0.984	1.024	1.027	1.059	1.044		1.011	5	AVG	
Tetraethyldithiopyrophosphate	0.118	0.130	0.141	0.144	0.146	0.147		0.138	8	AVG	
1,3,5-Trinitrobenzene	0.051	0.070	0.079	0.084	0.094	0.096		0.079	21	1STDEG	
Diallate (peak 1)	0.403	0.445	0.475	0.474	0.500	0.499		0.466	8	AVG	
Phorate	0.534	0.585	0.627	0.638	0.659	0.668		0.618	8	AVG	
Phenacetin	0.366	0.398	0.425	0.434	0.431	0.425		0.413	6	AVG	
4-Bromophenyl-phenylether	0.182	0.197	0.208	0.202	0.208	0.209		0.201	5	AVG	
Diallate (peak 2)	0.275	0.268	0.273	0.277	0.292	0.293		0.280	4	AVG	
Hexachlorobenzene	0.187	0.194	0.205	0.204	0.207	0.205		0.200	4	AVG	
Dimethoate	0.283	0.315	0.327	0.339	0.322	0.302		0.315	6	AVG	
Pentachlorophenol *	0.124	0.130	0.139	0.137	0.143	0.146		0.137	6	AVG	*
Pentachloronitrobenzene	0.080	0.080	0.085	0.084	0.087	0.087		0.084	4	AVG	
4-Aminobiphenyl	0.715	0.751	0.769	0.751	0.728	0.677		0.732	4	AVG	
Pronamide	0.287	0.318	0.338	0.345	0.354	0.352		0.332	8	AVG	

(1) Cannot be separated from Diphenylamine

USPCO #158

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date(s): 07/19/11 07/19/11

Calibration Times: 00:27 02:55

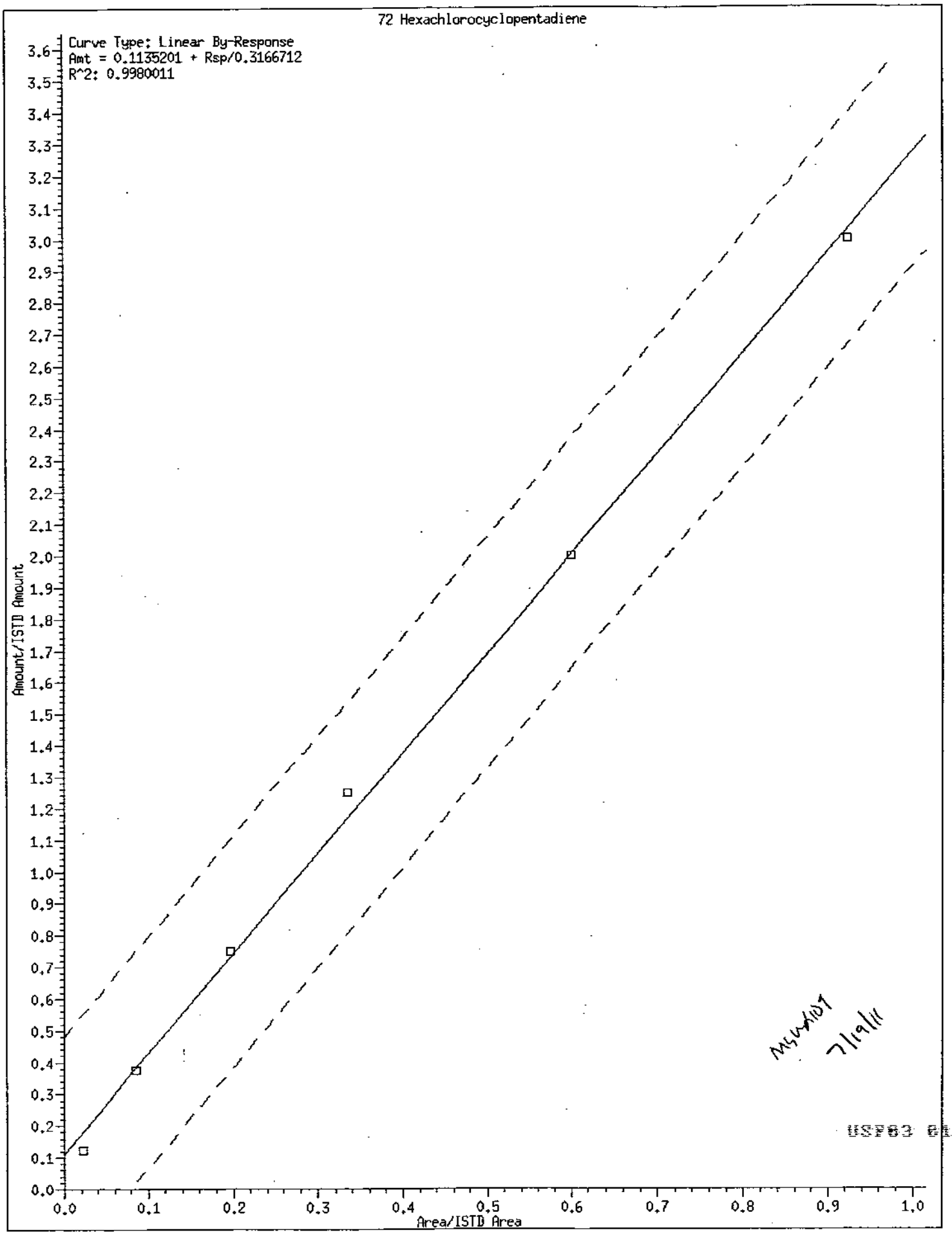
Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

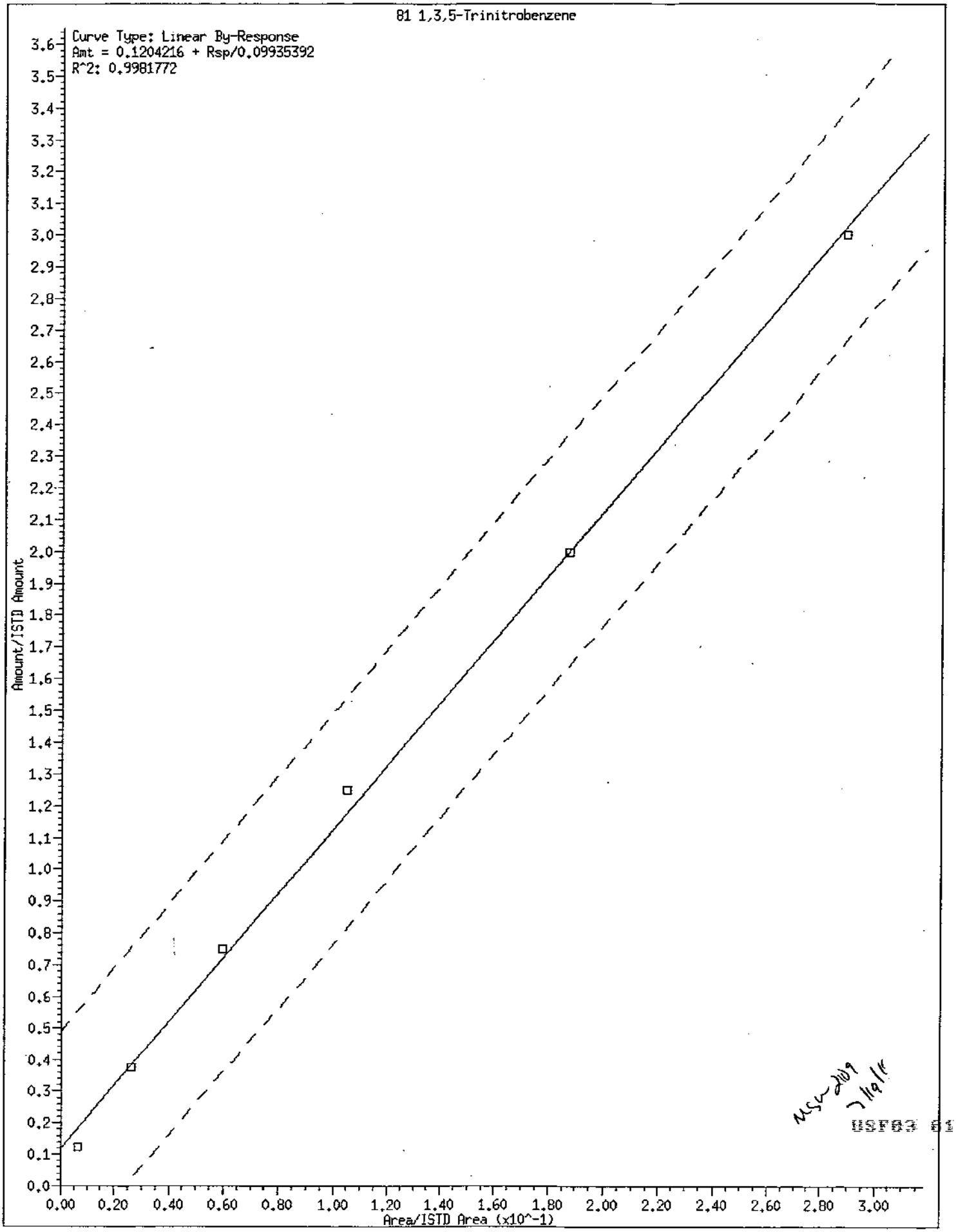
LAB FILE ID: RRF5 = eg0654.d RRF15 = eg0655.d RRF30 = eg0656.d
RRF50 = eg0651.d RRF80 = eg0653.d RRF120 = eg0652.d

	COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
	Phenanthrene	1.051	1.054	1.100	1.106	1.114	1.115		1.090	3	AVG	
	Dinoseb	0.111	0.145	0.174	0.184	0.200	0.208		0.170	21	1STDEG	
	Anthracene	1.017	1.075	1.121	1.136	1.145	1.143		1.106	5	AVG	
	Carbazole	0.968	0.997	1.059	1.065	1.068	1.059		1.036	4	AVG	
	Methyl parathion	0.211	0.235	0.255	0.258	0.251	0.237		0.241	7	AVG	
	Di-n-butylphthalate	1.065	1.155	1.247	1.276	1.289	1.298		1.222	8	AVG	
	Parathion	0.121	0.148	0.164	0.170	0.176	0.177		0.159	14	AVG	
	4-Nitroquinoline-1-oxide	0.047	0.075	0.100	0.107	0.113	0.108		0.092	28	1STDEG	
	Isodrin	0.102	0.117	0.124	0.120	0.124	0.124		0.119	7	AVG	
*	Fluoranthene	0.982	1.064	1.121	1.148	1.149	1.144		1.101	6	AVG	*
	Benzidine	0.432	0.582	0.674	0.677	0.673	0.667		0.618	16	1STDEG	
	Pyrene	1.188	1.233	1.297	1.277	1.330	1.257		1.264	4	AVG	
	p-Dimethylaminoazobenzene	0.208	0.233	0.257	0.254	0.266	0.259		0.246	9	AVG	
	Chlorobenzilate	0.338	0.368	0.394	0.397	0.411	0.399		0.384	7	AVG	
	3,3'-Dimethylbenzidine	0.277	0.519	0.591	0.620	0.618	0.629		0.542	25	1STDEG	
	Butylbenzylphthalate	0.491	0.533	0.580	0.582	0.605	0.584		0.563	8	AVG	
	2-Acetylaminofluorene	0.362	0.429	0.467	0.494	0.515	0.495		0.460	12	AVG	
	3,3'-Dichlorobenzidine	0.297	0.371	0.411	0.414	0.432	0.419		0.391	13	AVG	
	Benzo(a)anthracene	1.020	1.029	1.129	1.126	1.173	1.129		1.101	6	AVG	
	4,4'-Methylenebis(2-Chloroanil	0.174	0.188	0.214	0.217	0.229	0.217		0.206	10	AVG	
	Chrysene	1.039	1.052	1.102	1.101	1.115	1.082		1.082	3	AVG	
	bis(2-Ethylhexyl)phthalate	0.665	0.698	0.767	0.789	0.827	0.815		0.760	9	AVG	
	6-Methylchrysene	0.688	0.710	0.768	0.793	0.801	0.779		0.756	6	AVG	
*	Di-n-octylphthalate	0.920	1.157	1.270	1.362	1.433	1.490		1.272	16	1STDEG	*
	7,12-Dimethylbenz[a]anthracene	0.467	0.535	0.583	0.608	0.634	0.631		0.576	11	AVG	
	Benzo(b)fluoranthene	0.890	1.076	1.065	1.163	1.234	1.187		1.103	11	AVG	
	Benzo(k)fluoranthene	1.174	1.145	1.251	1.275	1.250	1.281		1.229	5	AVG	
*	Benzo(a)pyrene	0.968	1.005	1.052	1.057	1.122	1.114		1.053	6	AVG	*
	3-Methylcholanthrene	0.460	0.509	0.555	0.578	0.602	0.602		0.551	10	AVG	
	Dibenz(a,h)acridine	0.468	0.552	0.634	0.685	0.746	0.768		0.642	18	1STDEG	
	Dibenz(a,j)acridine	0.798	0.897	0.902	0.963	1.028	1.000		0.931	9	AVG	
	Indeno(1,2,3-cd)pyrene	0.930	0.999	1.082	1.126	1.199	1.193		1.088	10	AVG	
	Dibenz(a,h)anthracene	0.786	0.849	0.897	0.952	1.009	1.012		0.918	10	AVG	
	Benzo(g,h,i)perylene	0.838	0.837	0.884	0.932	1.004	0.985		0.913	8	AVG	
	Diallate TRANS/CIS	0.371	0.401	0.424	0.425	0.448	0.447		0.419	7	AVG	
	2-Fluorophenol	1.351	1.383	1.454	1.464	1.545	1.503		1.450	5	AVG	
	Phenol-d5	1.884	1.985	2.089	2.092	2.210	2.162		2.071	6	AVG	
	Phenol-d6	1.884	1.985	2.089	2.092	2.210	2.162		2.071	6	AVG	
	Nitrobenzene-d5	0.424	0.442	0.474	0.472	0.485	0.483		0.463	5	AVG	
	2-Fluorobiphenyl	1.144	1.209	1.271	1.280	1.331	1.327		1.260	6	AVG	
	2,4,6-Tribromophenol	0.131	0.142	0.150	0.153	0.159	0.159		0.149	7	AVG	
	Terphenyl-d14	0.767	0.800	0.853	0.845	0.891	0.853		0.835	5	AVG	
								Average %RSD		7		

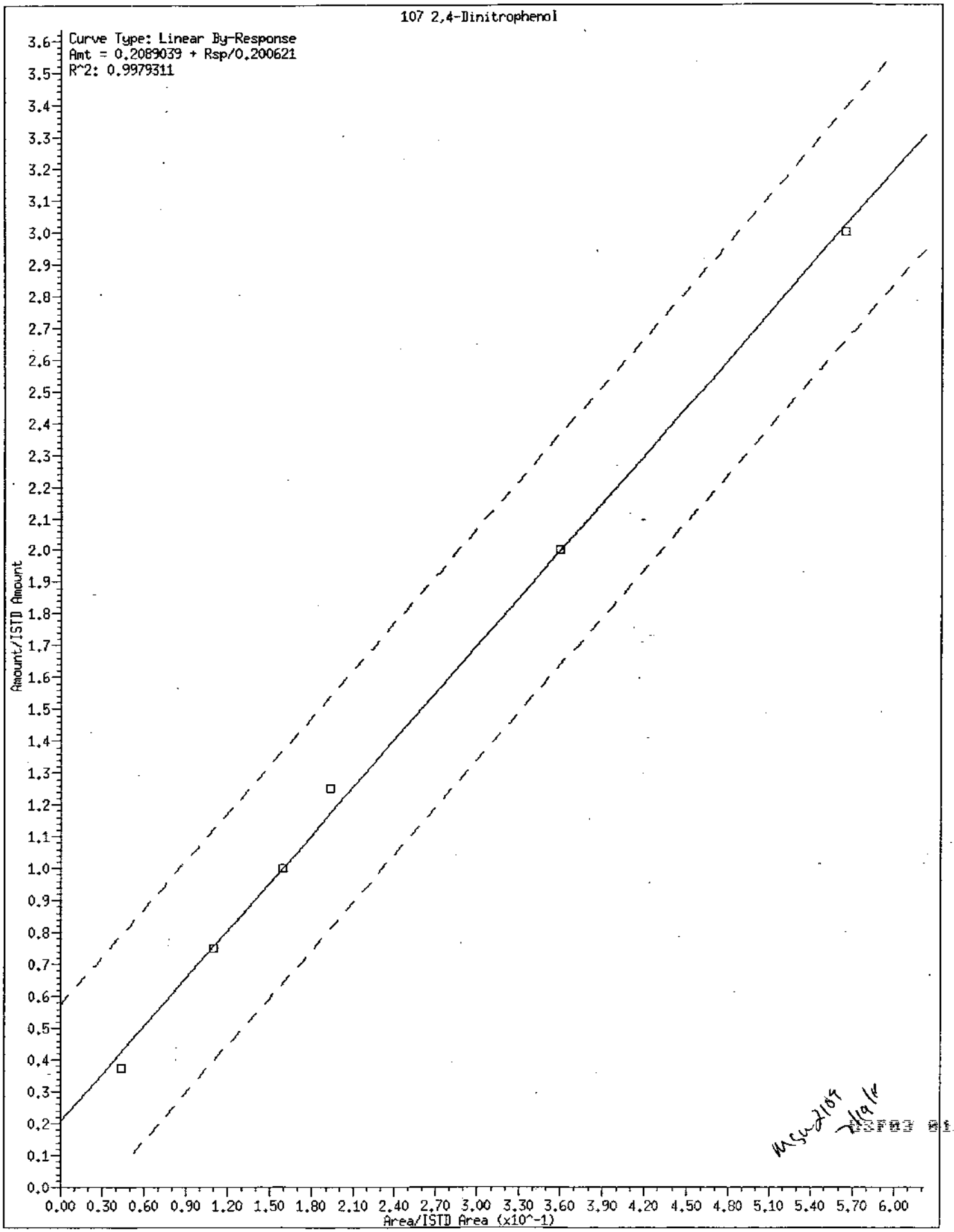
4,6-Dinitro-2-methylphenol and 4-Nitrophenol are at 10 ng/ul in the 5 standard.
Benzidine Levels in the 5,15,30,50,80,120 standards are 15,45,90,150,240,360 ng/ul, respectively.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul, 30 ng/ul,40 ng/ul in the 5,15,30 standards.

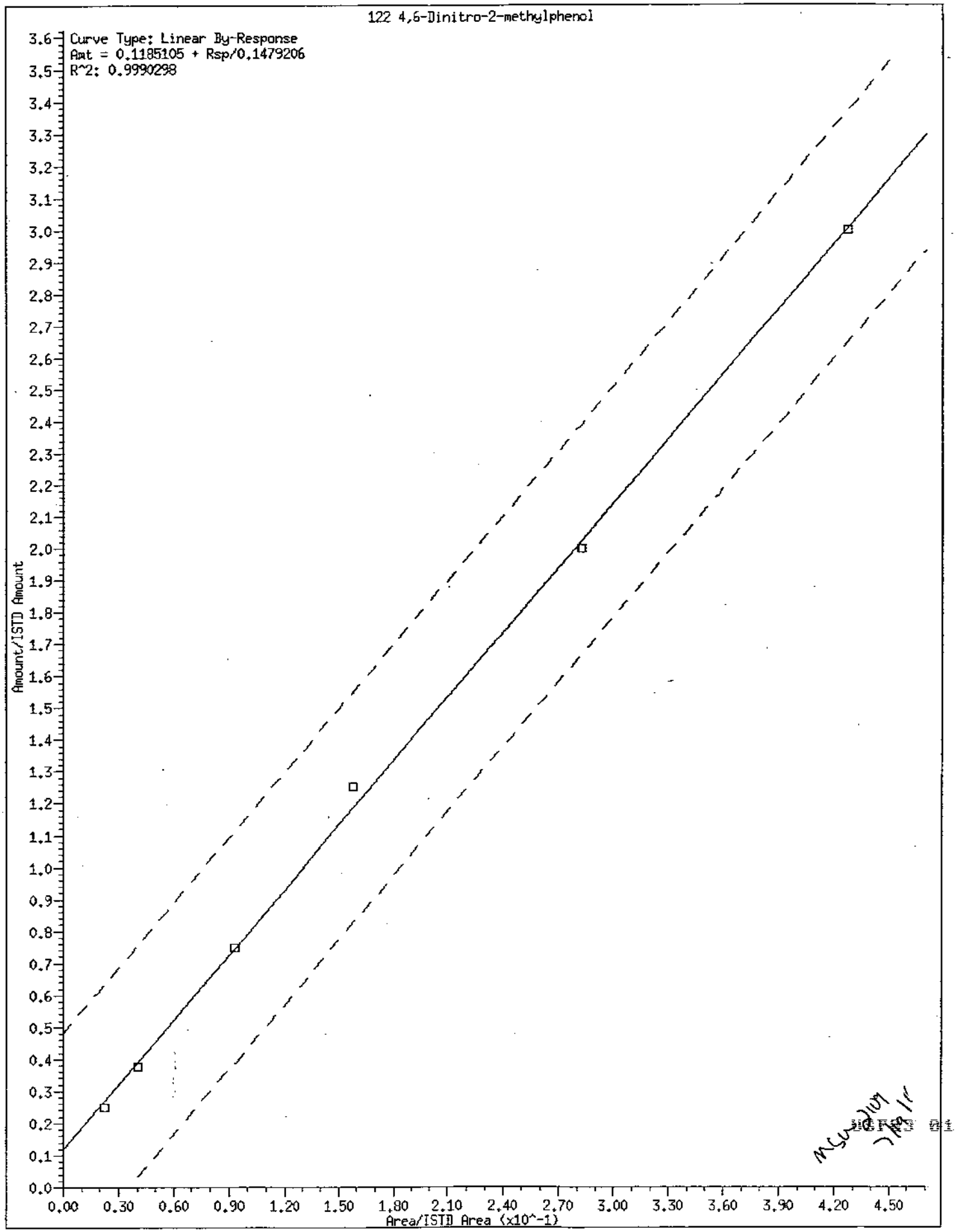
USP03 0151

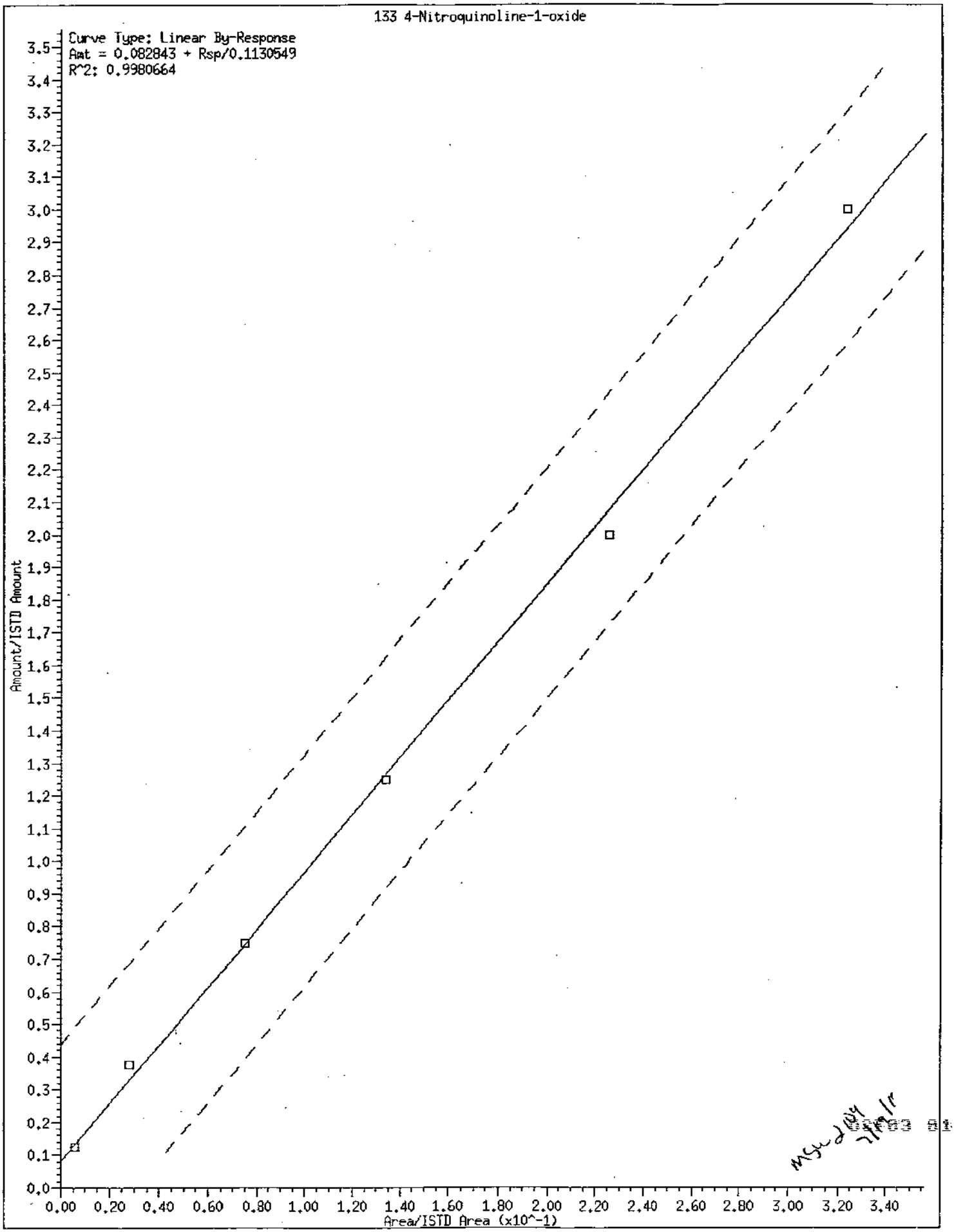

72 Hexachlorocyclopentadiene
Curve Type: Linear By-Response
Amt = 0.1135201 + Rsp/0.3166712
R^2: 0.9980011
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
MS 7/19/11
USP63 6152

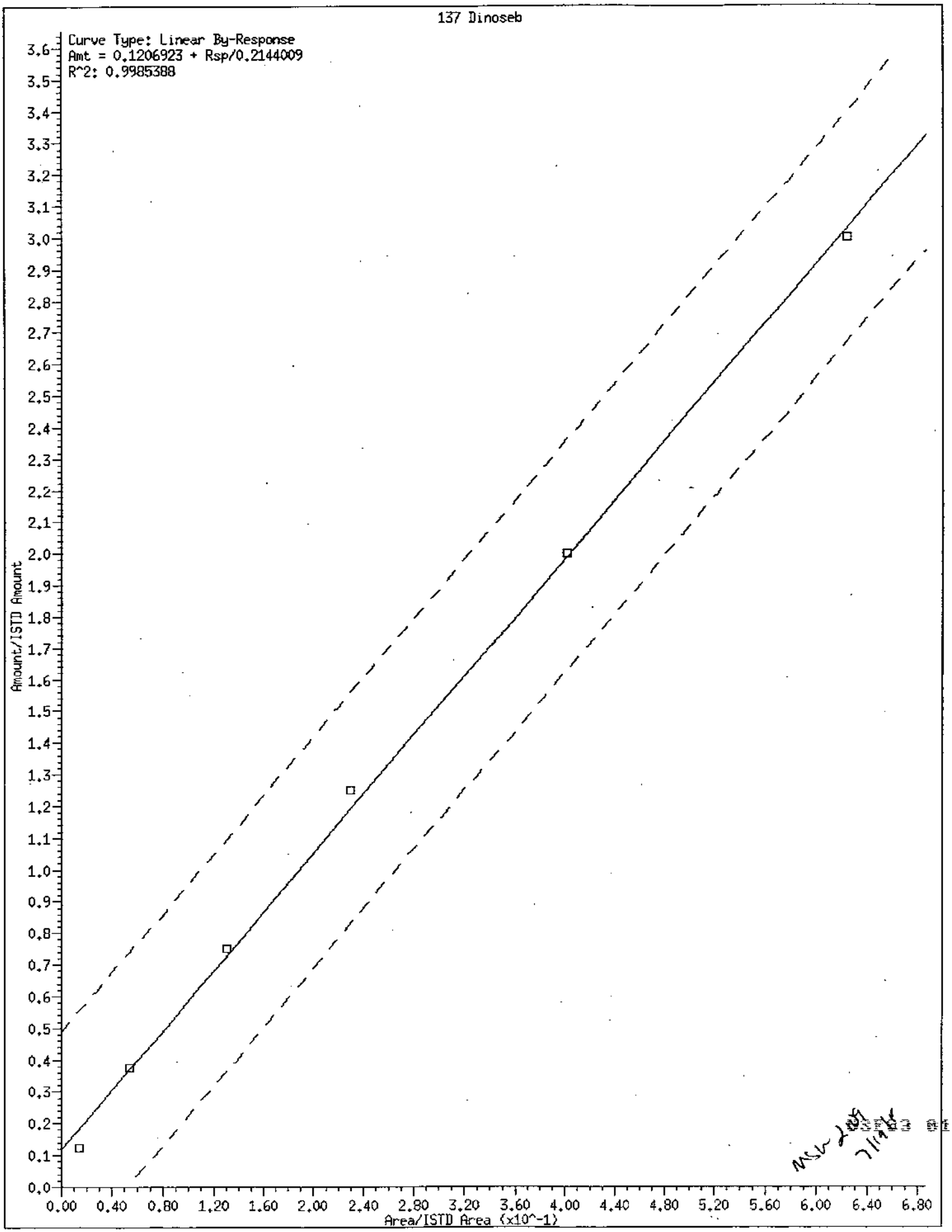

81 1,3,5-Trinitrobenzene
Curve Type: Linear By-Response
Amt = 0.1204216 + Rsp/0.09935392
R^2: 0.9981772
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40
2.60
2.80
3.00

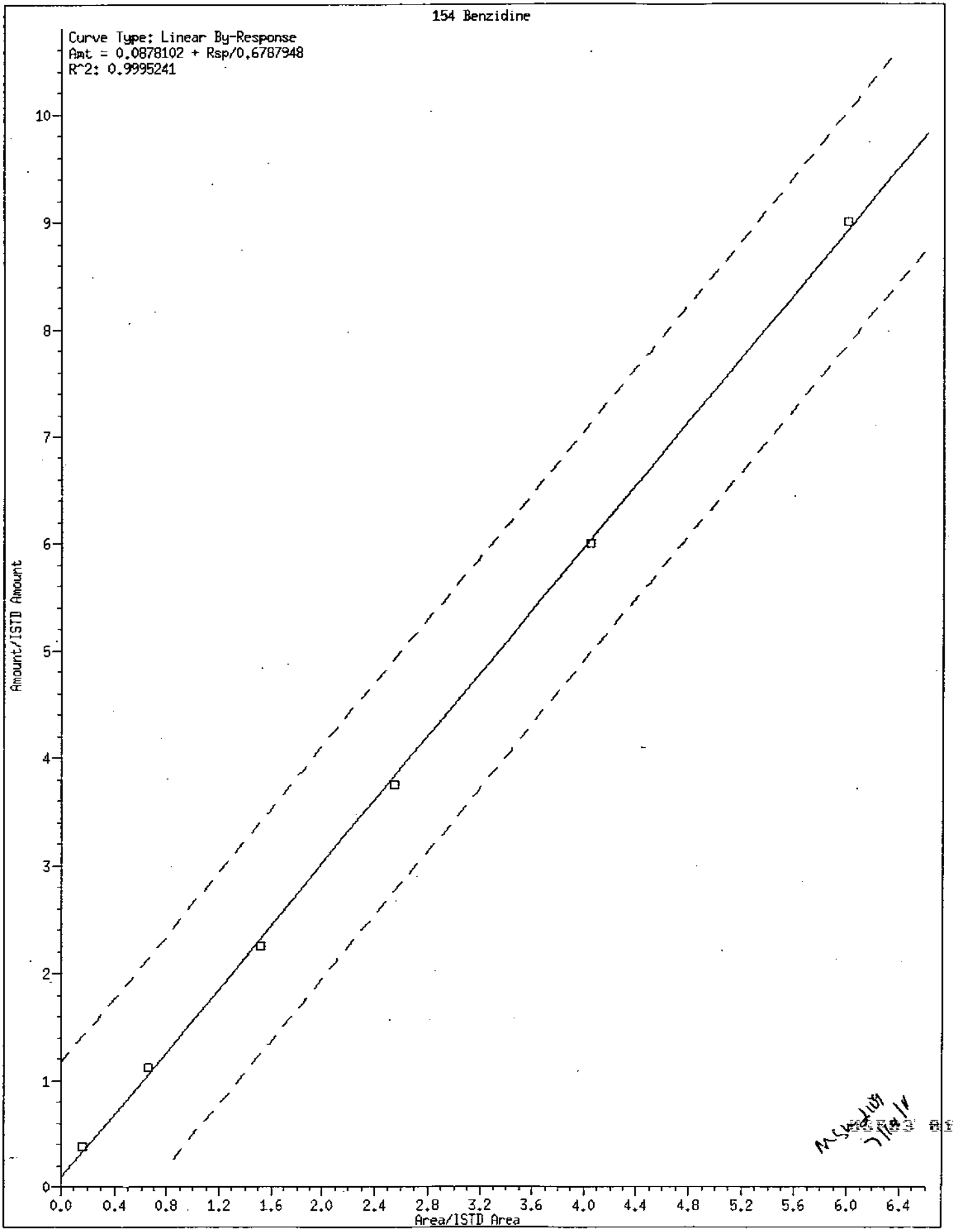
USF83 6153

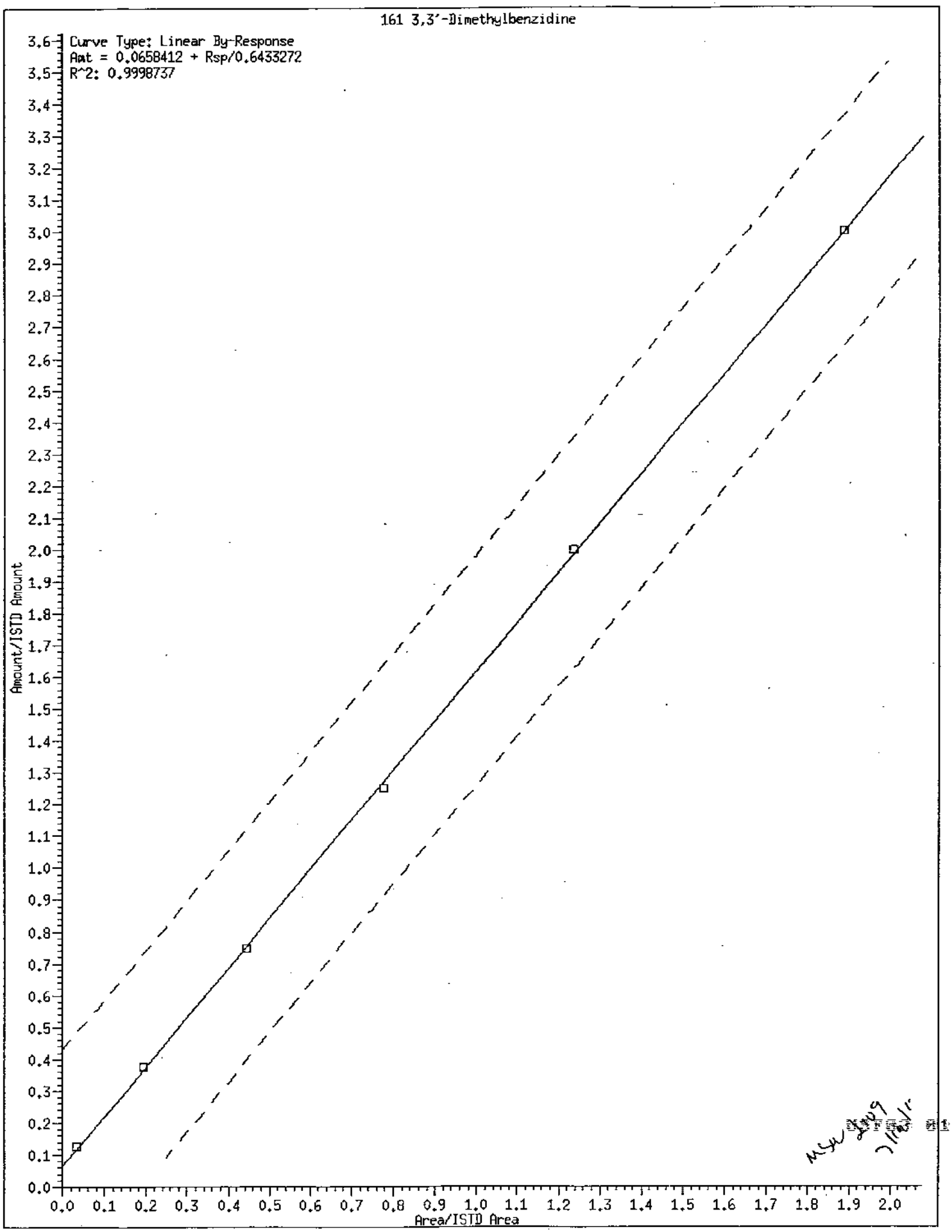

107 2,4-Dinitrophenol
Curve Type: Linear By-Response
Amt = 0.2089039 + Rsp/0.200621
R^2: 0.9979311
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00

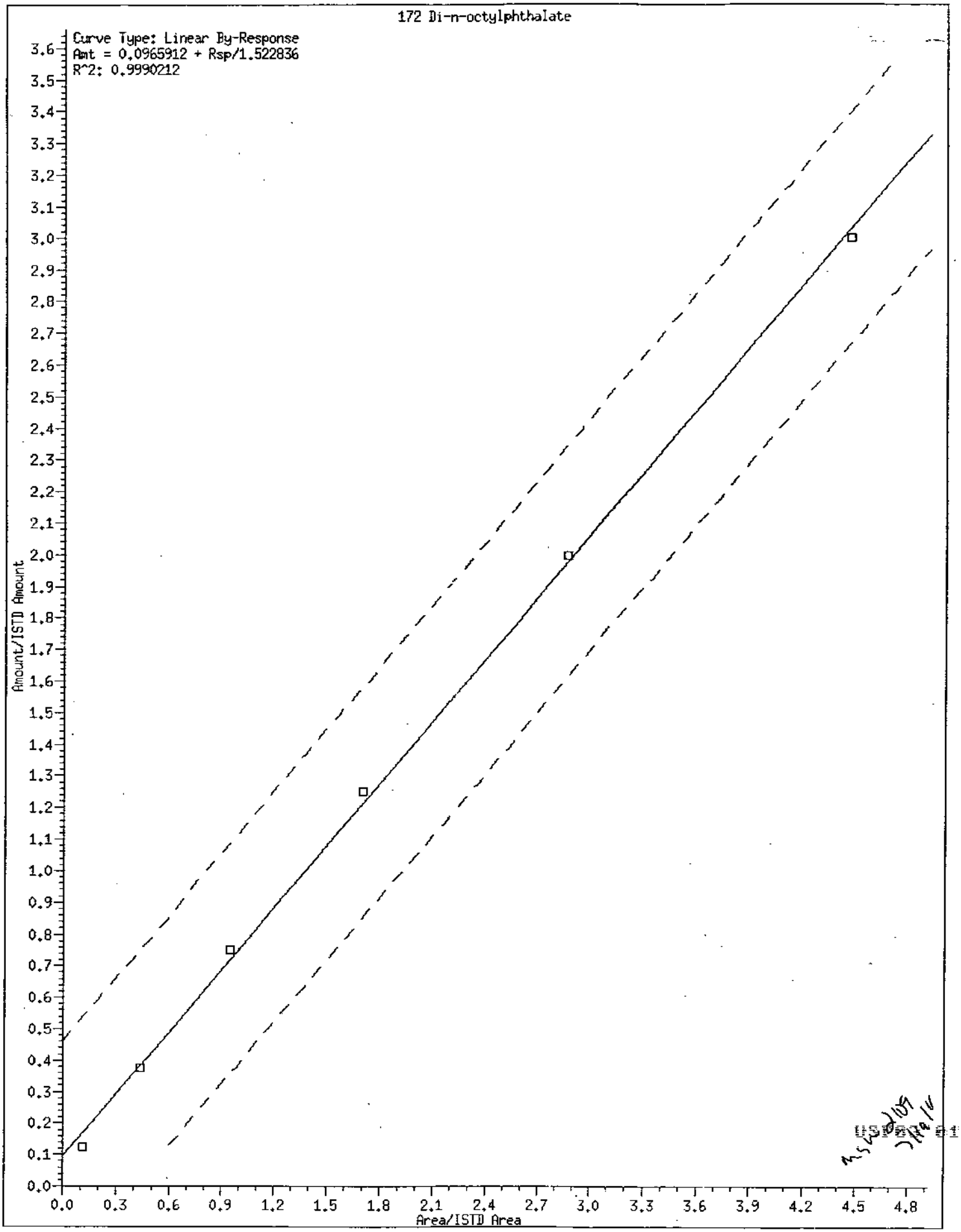

122 4,6-Dinitro-2-methylphenol
Curve Type: Linear By-Response
Amt = 0.1185105 + Rsp/0.1479206
R^2: 0.9990298
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50


133 4-Nitroquinoline-1-oxide
Curve Type: Linear By-Response
Amt = 0.082843 + Rsp/0.1130549
R^2: 0.9980664
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40
2.60
2.80
3.00
3.20
3.40


137 Dinoseb
Curve Type: Linear By-Response
Amt = 0.1206923 + Rsp/0.2144009
R^2: 0.9985388
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
3.20
3.60
4.00
4.40
4.80
5.20
5.60
6.00
6.40
6.80


154 Benzidine
Curve Type: Linear By-Response
Amt = 0.0878102 + Rsp/0.6787948
R^2: 0.9995241
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4


161 3,3'-Dimethylbenzidine
Curve Type: Linear By-Response
Amt = 0.0658412 + Rsp/0.6433272
R^2: 0.9998737
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6


172 Di-n-octylphthalate
Curve Type: Linear By-Response
Amt = 0.0965912 + Rsp/1.522836
R^2: 0.9990212
Amount/ISTD Amount
Area/ISTD Area
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
0.1
0.2
0.4
0.5
0.7
0.8
1.0
1.1
1.3
1.4
1.6
1.7
1.9
2.0
2.2
2.3
2.5
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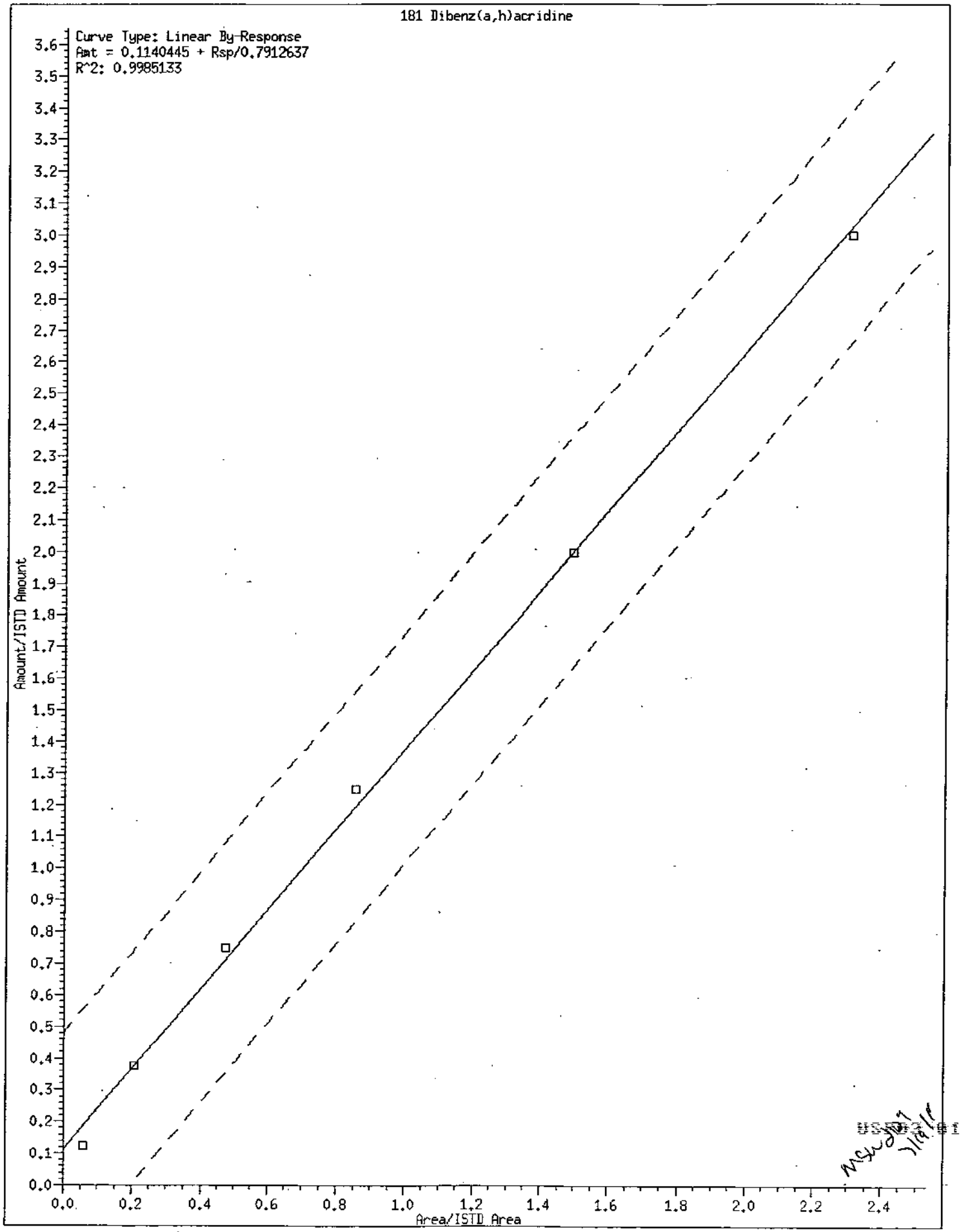
3.4
3.5
3.6


181 Dibenz(a,h)acridine
Curve Type: Linear By-Response
Amt = 0.1140445 + Rsp/0.7912637
R^2: 0.9985133
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
0.1
0.3
0.5
0.7
0.9
1.1
1.3
1.5
1.7
1.9
2.1
2.3
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09572.i/11jul18a.b/eg0651.d SSTD050
/chem/HP09572.i/11jul18a.b/eg0652.d SSTD120
/chem/HP09572.i/11jul18a.b/eg0653.d SSTD080
/chem/HP09572.i/11jul18a.b/eg0654.d SSTD005
/chem/HP09572.i/11jul18a.b/eg0655.d SSTD015
/chem/HP09572.i/11jul18a.b/eg0656.d SSTD030

Area Summary

	File ID:								
Internal Standard Name	eg0651.d	eg0652.d	eg0653.d	eg0654.d	eg0655.d	eg0656.d	Avg. Area	%RSD	In Spec
1,4-Dichlorobenzene-d4	116958	135498	124191	117236	126040	122857	123797	6	Yes
Naphthalene-d8	534720	612752	578947	556468	594196	567249	574055	5	Yes
Acenaphthene-d10	333899	369828	353719	369896	382629	361202	361862	5	Yes
Phenanthrene-d10	582806	641399	605356	646271	663997	624786	627436	5	Yes
Chrysene-d12	558311	611681	552578	600108	618853	582778	587385	5	Yes
Perylene-d12	491627	515408	482398	534339	545930	514833	514089	5	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

	File ID:						
Internal Standard Name	eg0651.d	eg0652.d	eg0653.d	eg0654.d	eg0655.d	eg0656.d	Avg. RT
1,4-Dichlorobenzene-d4	5.994	5.994	5.994	5.994	5.994	5.994	5.994
Naphthalene-d8	7.244	7.244	7.244	7.238	7.244	7.244	7.243
Acenaphthene-d10	8.961	8.967	8.961	8.961	8.961	8.961	8.962
Phenanthrene-d10	10.415	10.421	10.414	10.408	10.415	10.415	10.415
Chrysene-d12	13.023	13.029	13.023	13.017	13.017	13.017	13.021
Perylene-d12	14.459	14.465	14.458	14.458	14.453	14.459	14.459

Comments: _____

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Report generated on 07/19/2011 at 08:15

MSW 2109 7/19/11

USPBO 9162

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C File ID: eg0658.d

ICV SAMPLE ID: ICV0751 BATCH: 11JUL18A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D Window	INSPEC
1,4-Dioxane	50.00	52.11	4	30	YES
N-Nitrosomethylethylamine	50.00	52.92	6	30	YES
N-Nitrosodimethylamine	50.00	54.86	10	30	YES
Pyridine	50.00	50.61	1	30	YES
N-Nitrosodi-n-butylamine	50.00	42.85	-14	30	YES
2-Picoline	50.00	51.85	4	30	YES
N-Nitrosomorpholine	50.00	50.36	1	30	YES
Methyl methanesulfonate	50.00	49.01	-2	30	YES
N-Nitrosodiethylamine	50.00	53.73	7	30	YES
2-Fluorophenol	50.00	53.47	7	30	YES
Ethyl methanesulfonate	50.00	52.84	6	30	YES
N-Nitrosopiperidine	50.00	51.02	2	30	YES
Phenol-d5	50.00	54.56	9	30	YES
Phenol-d6	50.00	54.56	9	30	YES
Aniline	50.00	51.31	3	30	YES
Phenol	50.00	52.64	5	30	YES
bis(2-Chloroethyl)ether	50.00	52.18	4	30	YES
2-Chlorophenol	50.00	52.80	6	30	YES
1,3-Dichlorobenzene	50.00	52.43	5	30	YES
1,4-Dichlorobenzene	50.00	52.20	4	30	YES
Thionazin	50.00	48.56	-3	30	YES
N-Nitrosopyrrolidine	50.00	51.07	2	30	YES
Benzyl alcohol	50.00	53.47	7	30	YES
1,2-Dichlorobenzene	50.00	52.13	4	30	YES
Pentachloroethane	50.00	49.98	0	30	YES
2-Methylphenol	50.00	52.88	6	30	YES
2,2'-oxybis(1-Chloropropane	50.00	50.69	1	30	YES
bis(2-Chloroisopropyl)ether	50.00	50.68	1	30	YES
Acetophenone	50.00	51.07	2	30	YES
N-Nitroso-di-n-propylamine	50.00	51.92	4	30	YES
4-Methylphenol	50.00	55.30	11	30	YES
o-Toluidine	50.00	51.83	4	30	YES
Hexachloroethane	50.00	52.81	6	30	YES
Nitrobenzene-d5	50.00	52.74	5	30	YES
Nitrobenzene	50.00	52.21	4	30	YES
Hexachloropropene	50.00	54.44	9	30	YES

NC = Could not calculate

Comments: _____

03793 0153

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C File ID: eg0658.d

ICV SAMPLE ID: ICV0751 BATCH: 11JUL18A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Isophorone	50.00	52.27	5	30	YES
2-Nitrophenol	50.00	51.89	4	30	YES
2,4-Dimethylphenol	50.00	52.61	5	30	YES
bis(2-Chloroethoxy)methane	50.00	53.03	6	30	YES
Benzoic acid	50.00	49.94	0	30	YES
2,4-Dichlorophenol	50.00	51.98	4	30	YES
1,2,4-Trichlorobenzene	50.00	51.32	3	30	YES
Naphthalene	50.00	52.31	5	30	YES
2,6-Dichlorophenol	50.00	52.24	4	30	YES
4-Chloroaniline	50.00	54.01	8	30	YES
1,4-Dinitrobenzene	50.00	54.21	8	30	YES
1,3-Dinitrobenzene	50.00	53.49	7	30	YES
Hexachlorobutadiene	50.00	53.09	6	30	YES
1,4-Naphthoquinone	62.50	62.84	1	30	YES
Safrole	50.00	51.21	2	30	YES
Isosafrole	50.00	54.61	9	30	YES
1-Nitronaphthalene	50.00	52.67	5	30	YES
4-Chloro-3-methylphenol	50.00	51.08	2	30	YES
2-Methylnaphthalene	50.00	49.39	-1	30	YES
5-Nitro-o-toluidine	50.00	50.81	2	30	YES
1-Methylnaphthalene	50.00	52.75	6	30	YES
Hexachlorocyclopentadiene	100.00	103.62	4	30	YES
1,2,4,5-Tetrachlorobenzene	50.00	54.61	9	30	YES
Phorate	50.00	52.27	5	30	YES
2,4,6-Trichlorophenol	50.00	53.01	6	30	YES
2,4,5-Trichlorophenol	50.00	53.05	6	30	YES
2-Fluorobiphenyl	50.00	54.12	8	30	YES
Phenacetin	50.00	52.33	5	30	YES
1,3,5-Trinitrobenzene	50.00	49.61	-1	30	YES
Biphenyl	50.00	53.41	7	30	YES
Diphenyl	50.00	53.41	7	30	YES
1,1'-Biphenyl	50.00	53.41	7	30	YES
2-Chloronaphthalene	50.00	57.70	15	30	YES
Diphenyl ether	50.00	53.24	6	30	YES
2-Nitroaniline	50.00	53.18	6	30	YES
Dimethylphthalate	50.00	52.39	5	30	YES
O,O,O-triethylphosphorothio	50.00	49.79	0	30	YES

NC = Could not calculate

Comments: _____

USF03 01164

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C File ID: eg0658.d

ICV SAMPLE ID: ICV0751 BATCH: 11JUL18A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D Window	INSPEC
Dimethoate	50.00	46.15	-8	30	YES
Pronamide	50.00	50.93	2	30	YES
2,6-Dinitrotoluene	50.00	52.26	5	30	YES
Isodrin	50.00	50.64	1	30	YES
Acenaphthylene	50.00	54.68	9	30	YES
2-Acetylaminofluorene	50.00	56.14	12	30	YES
3-Nitroaniline	50.00	53.59	7	30	YES
4-Aminobiphenyl	50.00	61.04	22	30	YES
Acenaphthene	50.00	53.33	7	30	YES
2,4-Dinitrophenol	50.00	51.53	3	30	YES
Tetraethyldithiopyrophospha	50.00	52.24	4	30	YES
4-Nitrophenol	50.00	51.16	2	30	YES
Pentachlorobenzene	50.00	51.88	4	30	YES
Dibenzofuran	50.00	53.50	7	30	YES
2,4-Dinitrotoluene	50.00	54.27	9	30	YES
1-Naphthylamine	100.00	109.82	10	30	YES
2,3,4,6-Tetrachlorophenol	50.00	54.65	9	30	YES
2-Naphthylamine	100.00	103.85	4	30	YES
Diethylphthalate	50.00	52.61	5	30	YES
Fluorene	50.00	52.93	6	30	YES
4-Chlorophenyl-phenylether	50.00	53.60	7	30	YES
4-Nitroaniline	50.00	48.86	-2	30	YES
4,6-Dinitro-2-methylphenol	50.00	50.92	2	30	YES
N-Nitrosodiphenylamine	50.00	54.31	9	30	YES
1,2-Diphenylhydrazine	50.00	54.37	9	30	YES
2,4,6-Tribromophenol	50.00	53.41	7	30	YES
4-Bromophenyl-phenylether	50.00	54.60	9	30	YES
Hexachlorobenzene	50.00	54.03	8	30	YES
4-Nitroquinoline-1-oxide	550.00	795.53	45	30	NO → non-ccc < 50%
Pentachlorophenol	50.00	53.49	7	30	YES OK
Pentachloronitrobenzene	50.00	52.35	5	30	YES
Dinoseb	50.00	50.90	2	30	YES CM/1237
Phenanthrene	50.00	54.60	9	30	YES
Anthracene	50.00	53.27	7	30	YES 7-19-11
Chlorobenzilate	50.00	52.00	4	30	YES
Carbazole	50.00	53.07	6	30	YES
p-Dimethylaminoazobenzene	50.00	55.95	12	30	YES

NC = Could not calculate

Comments: _____

USF03 0165

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C File ID: eg0658.d

ICV SAMPLE ID: ICV0751 BATCH: 11JUL18A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Di-n-butylphthalate	50.00	53.38	7	30	YES
Methyl parathion	50.00	47.68	-5	30	YES
Parathion	50.00	52.38	5	30	YES
Fluoranthene	50.00	52.27	5	30	YES
Benzidine	250.00	300.92	20	30	YES
Pyrene	50.00	54.61	9	30	YES
Terphenyl-d14	50.00	56.00	12	30	YES
3,3'-Dimethylbenzidine	50.00	54.09	8	30	YES
Butylbenzylphthalate	50.00	54.85	10	30	YES
Benzo(a)anthracene	50.00	53.78	8	30	YES
3,3'-Dichlorobenzidine	50.00	52.68	5	30	YES
4,4'-Methylenebis(2-Chloroa	50.00	52.42	5	30	YES
Chrysene	50.00	52.40	5	30	YES
bis(2-Ethylhexyl)phthalate	50.00	55.59	11	30	YES
6-Methylchrysene	50.00	54.69	9	30	YES
Di-n-octylphthalate	50.00	49.87	0	30	YES
Benzo(b)fluoranthene	50.00	51.49	3	30	YES
7,12-Dimethylbenz[a]anthrac	50.00	51.62	3	30	YES
Benzo(k)fluoranthene	50.00	53.07	6	30	YES
Benzo(a)pyrene	50.00	52.71	5	30	YES
3-Methylcholanthrene	50.00	50.24	0	30	YES
Dibenz(a,h)acridine	50.00	49.77	0	30	YES
Dibenz(a,j)acridine	50.00	52.45	5	30	YES
Indeno(1,2,3-cd)pyrene	50.00	53.79	8	30	YES
Dibenz(a,h)anthracene	50.00	53.84	8	30	YES
Benzo(g,h,i)perylene	50.00	53.16	6	30	YES

NC = Could not calculate

Comments: _____

USF03 0166

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/15/11 Time: 22:50

Lab File ID: eg0591a.d Init. Calib. Date(s): 07/05/11 07/06/11

Init. Calib. Times(s): 21:36 00:07

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.594	0.543	45.740	50.0	-9
	N-Nitrosodimethylamine	1.081	1.086	50.270	50.0	1
	Pyridine	1.707	1.822	53.370	50.0	7
	2-Picoline	1.659	1.832	55.220	50.0	10
	N-Nitrosomethylethylamine	0.718	0.821	57.160	50.0	14
	Methyl methanesulfonate	1.021	0.932	45.650	50.0	-9
	N-Nitrosodiethylamine	0.809	0.819	50.650	50.0	1
	Ethyl methanesulfonate	0.812	0.796	49.030	50.0	-2
*	Phenol	2.263	2.159	47.720	50.0	-5*
	Aniline	2.621	2.631	50.200	50.0	0
	Pentachloroethane	0.518	0.540	52.080	50.0	4
	bis(2-Chloroethyl)ether	1.732	1.740	50.250	50.0	0
	2-Chlorophenol	1.553	1.589	51.160	50.0	2
	1,3-Dichlorobenzene	1.640	1.689	51.490	50.0	3
*	1,4-Dichlorobenzene	1.697	1.717	50.590	50.0	1*
	Benzyl alcohol	1.103	1.064	48.250	50.0	-3
	1,2-Dichlorobenzene	1.615	1.634	50.580	50.0	1
	Indene	2.628	2.449	46.600	50.0	-7
	2-Methylphenol	1.539	1.532	49.770	50.0	0
	2,2'-oxybis(1-Chloropropane)	1.963	1.556	39.630	50.0	-21
	bis(2-Chloroisopropyl)ether	1.963	1.556	39.630	50.0	-21
	N-Nitrosopyrrolidine	0.943	0.920	48.760	50.0	-2
	Acetophenone	2.402	2.355	49.030	50.0	-2
#	N-Nitroso-di-n-propylamine	1.632	1.489	45.620	50.0	-9#
	4-Methylphenol	1.718	1.660	48.320	50.0	-3
	N-Nitrosomorpholine	1.168	0.933	39.940	50.0	-20
	o-Toluidine	2.751	2.725	49.520	50.0	-1
	Hexachloroethane	0.648	0.660	50.930	50.0	2
	Nitrobenzene	0.464	0.449	48.340	50.0	-3
	N-Nitrosopiperidine	0.192	0.194	50.580	50.0	1
	Isophorone	0.837	0.813	48.560	50.0	-3
*	2-Nitrophenol	0.184	0.207	56.470	50.0	13*
	2,4-Dimethylphenol	0.398	0.406	51.070	50.0	2
	O,O,O-triethylphosphorothioate	0.183	0.196	53.410	50.0	7
	bis(2-Chloroethoxy)methane	0.463	0.610	65.830	50.0	32
	Benzoic acid	0.304	0.228	37.410	50.0	-25

00503 0167

7-18-11

FORM VII SV-1

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/15/11 Time: 22:50

Lab File ID: eg0591a.d Init. Calib. Date(s): 07/05/11 07/06/11

Init. Calib. Times(s): 21:36 00:07

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
* 2,4-Dichlorophenol	0.311	0.317	51.000	50.0	2*
1,2,4-Trichlorobenzene	0.329	0.352	53.400	50.0	7
Naphthalene	1.084	1.112	51.320	50.0	3
4-Chloroaniline	0.476	0.474	49.840	50.0	0
2,6-Dichlorophenol	0.310	0.315	50.910	50.0	2
Hexachloropropene	0.179	0.199	55.640	50.0	11
* Hexachlorobutadiene	0.153	0.170	55.590	50.0	11*
Quinoline	0.743	0.721	48.520	50.0	-3
Caprolactam	0.155	0.152	48.990	50.0	-2
N-Nitrosodi-n-butylamine	0.349	0.394	56.510	50.0	13
* 4-Chloro-3-methylphenol	0.365	0.374	51.280	50.0	3*
Safrole	0.299	0.308	51.460	50.0	3
cis-Isosafrole	0.716	0.755	5.800	5.5	6
2-Methylnaphthalene	0.765	0.763	49.880	50.0	0
1-Methylnaphthalene	0.726	0.720	49.630	50.0	-1
# Hexachlorocyclopentadiene	0.216	0.290	58.770	50.0	18#
1,2,4,5-Tetrachlorobenzene	0.482	0.527	54.620	50.0	9
trans-Isosafrole	0.530	0.868	67.560	44.5	52
* 2,4,6-Trichlorophenol	0.323	0.368	57.000	50.0	14*
2,4,5-Trichlorophenol	0.373	0.405	54.300	50.0	9
Isosafrole	0.472	0.786	76.930	50.0	54
Biphenyl	1.444	1.483	51.370	50.0	3
Diphenyl	1.444	1.483	51.370	50.0	3
1,1'-Biphenyl	1.444	1.483	51.370	50.0	3
2-Chloronaphthalene	1.343	1.932	71.910	50.0	44
1-Chloronaphthalene	1.251	1.273	50.890	50.0	2
Diphenyl ether	0.760	0.799	52.580	50.0	5
2-Nitroaniline	0.381	0.409	53.730	50.0	7
1,4-Naphthoquinone	0.438	0.487	55.620	50.0	11
1,4-Dinitrobenzene	0.185	0.219	53.270	50.0	7
Dimethylphthalate	1.345	1.361	50.580	50.0	1
1,3-Dinitrobenzene	0.225	0.248	55.200	50.0	10
2,6-Dinitrotoluene	0.311	0.331	53.240	50.0	6
Acenaphthylene	1.708	1.766	51.700	50.0	3
3-Nitroaniline	0.347	0.352	50.670	50.0	1
* Acenaphthene	1.128	1.149	50.910	50.0	2*

USF03 0160

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/15/11 Time: 22:50

Lab File ID: eg0591a.d Init. Calib. Date(s): 07/05/11 07/06/11

Init. Calib. Times(s): 21:36 00:07

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
#	2,4-Dinitrophenol	0.135	0.186	60.960	50.0	22#
	Pentachlorobenzene	0.416	0.451	54.200	50.0	8
#	4-Nitrophenol	0.226	0.191	42.280	50.0	-15#
	Dibenzofuran	1.601	1.627	50.820	50.0	2
	2,4-Dinitrotoluene	0.410	0.437	53.310	50.0	7
	1-Naphthylamine	1.285	1.295	50.400	50.0	1
	2,3,4,6-Tetrachlorophenol	0.282	0.324	57.610	50.0	15
	2-Naphthylamine	1.313	1.322	50.360	50.0	1
	Diethylphthalate	1.287	1.334	51.820	50.0	4
	Fluorene	1.365	1.402	51.340	50.0	3
	Thionazin	0.262	0.262	49.970	50.0	0
	4-Chlorophenyl-phenylether	0.627	0.653	52.140	50.0	4
	5-Nitro-o-toluidine	0.420	0.419	49.890	50.0	0
	4-Nitroaniline	0.381	0.376	49.330	50.0	-1
	4,6-Dinitro-2-methylphenol	0.121	0.154	54.970	50.0	10
	1-Nitronaphthalene	0.157	0.160	51.060	50.0	2
*	N-Nitrosodiphenylamine (1)	0.687	0.698	50.750	50.0	2*
	NDPA as diphenylamine	0.685	0.698	50.890	50.0	2
	1,2-Diphenylhydrazine	0.982	0.891	45.390	50.0	-9
	Tetraethyldithiopyrophosphate	0.138	0.137	49.480	50.0	-1
	1,3,5-Trinitrobenzene	0.082	0.106	54.040	50.0	8
	Diallate (peak 1)	0.430	0.437	38.150	37.5	2
	Phorate	0.793	0.573	34.050	50.0	-32
	Phenacetin	0.442	0.430	48.730	50.0	-3
	4-Bromophenyl-phenylether	0.204	0.222	54.350	50.0	9
	Diallate (peak 2)	0.259	0.266	12.840	12.5	3
	Hexachlorobenzene	0.198	0.210	53.160	50.0	6
	Dimethoate	0.315	0.326	51.840	50.0	4
*	Pentachlorophenol	0.124	0.146	58.870	50.0	18*
	Pentachloronitrobenzene	0.091	0.089	49.170	50.0	-2
	4-Aminobiphenyl	0.726	0.726	49.970	50.0	0
	Pronamide	0.345	0.360	52.220	50.0	4
	Phenanthrene	1.180	1.184	50.160	50.0	0
	Dinoseb	0.154	0.215	56.600	50.0	13
	Anthracene	1.203	1.227	50.970	50.0	2
	Carbazole	1.119	1.117	49.910	50.0	0

USF03 8169

(1) Cannot be Separated from Diphenylamine

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/15/11 Time: 22:50

Lab File ID: eg0591a.d Init. Calib. Date(s): 07/05/11 07/06/11

Init. Calib. Times(s): 21:36 00:07

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
	Methyl parathion	0.234	0.257	51.200	50.0	2
	Di-n-butylphthalate	1.272	1.314	51.650	50.0	3
	Parathion	0.169	0.176	47.890	50.0	-4
	4-Nitroquinoline-1-oxide	0.085	0.125	57.150	50.0	14
	Isodrin	0.126	0.132	52.250	50.0	5
*	Fluoranthene	1.183	1.226	51.820	50.0	4*
	Benzidine	0.679	0.709	156.570	150.0	4
	Pyrene	1.231	1.315	53.390	50.0	7
	p-Dimethylaminoazobenzene	0.240	0.274	57.090	50.0	14
	Chlorobenzilate	0.379	0.389	51.280	50.0	3
	3,3'-Dimethylbenzidine	0.624	0.710	51.000	50.0	2
	Butylbenzylphthalate	0.547	0.586	53.570	50.0	7
	2-Acetylaminofluorene	0.474	0.560	52.940	50.0	6
	3,3'-Dichlorobenzidine	0.410	0.451	54.990	50.0	10
	Benzo(a)anthracene	1.098	1.150	52.390	50.0	5
	4,4'-Methylenebis(2-Chloroanil	0.211	0.227	53.830	50.0	8
	Chrysene	1.150	1.196	52.020	50.0	4
	bis(2-Ethylhexyl)phthalate	0.734	0.800	54.550	50.0	9
	6-Methylchrysene	0.775	0.835	53.910	50.0	8
*	Di-n-octylphthalate	1.261	1.570	54.580	50.0	9*
	7,12-Dimethylbenz[a]anthracene	0.575	0.656	57.110	50.0	14
	Benzo(b)fluoranthene	1.178	1.334	56.620	50.0	13
	Benzo(k)fluoranthene	1.216	1.329	54.640	50.0	9
*	Benzo(a)pyrene	1.095	1.263	57.680	50.0	15*
	3-Methylcholanthrene	0.596	0.720	60.400	50.0	21
	Dibenz(a,h)acridine	0.764	0.944	55.560	50.0	11
	Dibenz(a,j)acridine	0.937	1.116	59.520	50.0	19
	Indeno(1,2,3-cd)pyrene	1.176	1.350	57.400	50.0	15
	Dibenz(a,h)anthracene	1.016	1.174	57.780	50.0	16
	Benzo(g,h,i)perylene	1.023	1.165	56.940	50.0	14
	Diallate TRANS/CIS	0.387	0.394	50.990	50.0	2
	2-Fluorophenol	1.424	1.477	51.850	50.0	4
	Phenol-d5	2.066	2.065	49.970	50.0	0
	Phenol-d6	2.066	2.065	49.970	50.0	0
	Nitrobenzene-d5	0.453	0.440	48.590	50.0	-3

USF03 0178

FORM VII SV-1

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/15/11 Time: 22:50

Lab File ID: eg0591a.d Init. Calib. Date(s): 07/05/11 07/06/11

Init. Calib. Times(s): 21:36 00:07

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
2-Fluorobiphenyl	1.220	1.288	52.790	50.0	6
2,4,6-Tribromophenol	0.138	0.168	60.920	50.0	22
Terphenyl-d14	0.847	0.940	55.480	50.0	11
			Average %Drift:		8

USF03 0171

Continuing Calibration
Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09572.i/11jul05a.b/eg0131a.d **
/chem/HP09572.i/11jul05a.b/eg0133.d
/chem/HP09572.i/11jul05a.b/eg0134.d
/chem/HP09572.i/11jul05a.b/eg0135.d
/chem/HP09572.i/11jul05a.b/eg0136.d
/chem/HP09572.i/11jul05a.b/eg0137.d

** indicates the Mid Level Calibration Standard.

Mid Level Calibration Standard is used for comparison.

Current Continuing Calibration Standard:

/chem/HP09572.i/11jul15a.b/eg0591a.d

Area Summary

File ID:

Internal Standard Name	eg0591a.d	ICAL Area	Low Limit	High Limit	In Spec
1,4-Dichlorobenzene-d4	135357	111001	55500	222002	Yes
Naphthalene-d8	599454	515855	257928	1031710	Yes
Acenaphthene-d10	384971	345256	172628	690512	Yes
Phenanthrene-d10	655705	578562	289281	1157124	Yes
Chrysene-d12	654069	606034	303017	1212068	Yes
Perylene-d12	552660	546832	273416	1093664	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

RT Summary

File ID:

Internal Standard Name	eg0591a.d	ICAL RT	In Spec
1,4-Dichlorobenzene-d4	4.432	4.988	No
Naphthalene-d8	5.724	6.250	No
Acenaphthene-d10	7.399	7.943	No
Phenanthrene-d10	8.799	9.361	No
Chrysene-d12	11.300	11.897	No
Perylene-d12	12.550	13.201	No

A "No" indicates the retention time is greater than 30 seconds from the RT of the referenced standard.

Comments: ⊕ Due to maintenance

USEPA_0172

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/23/11 Time: 11:36

Lab File ID: eg1011.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF80	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.613	0.632	82.480	80.0	3
	N-Nitrosodimethylamine	1.086	1.250	92.050	80.0	15
	Pyridine	1.818	1.996	87.820	80.0	10
	2-Picoline	1.851	2.023	87.440	80.0	9
	N-Nitrosomethylethylamine	0.864	0.966	89.440	80.0	12
	Methyl methanesulfonate	1.035	1.104	85.330	80.0	7
	N-Nitrosodiethylamine	0.830	0.924	89.010	80.0	11
	Ethyl methanesulfonate	0.836	0.907	86.730	80.0	8
*	Phenol	2.534	2.836	89.530	80.0	12*
	Aniline	2.895	3.171	87.640	80.0	10
	Pentachloroethane	0.524	0.532	81.310	80.0	2
	bis(2-Chloroethyl)ether	1.845	1.993	86.380	80.0	8
	2-Chlorophenol	1.558	1.681	86.300	80.0	8
	1,3-Dichlorobenzene	1.587	1.693	85.350	80.0	7
*	1,4-Dichlorobenzene	1.640	1.742	84.970	80.0	6*
	Benzyl alcohol	1.143	1.274	89.170	80.0	11
	1,2-Dichlorobenzene	1.553	1.712	88.160	80.0	10
	Indene	2.610	2.873	88.090	80.0	10
	2-Methylphenol	1.586	1.698	85.640	80.0	7
	2,2'-oxybis(1-Chloropropane)	2.883	2.334	64.780	80.0	-19
	bis(2-Chloroisopropyl)ether	2.883	2.334	64.760	80.0	-19
	N-Nitrosopyrrolidine	0.960	1.061	88.370	80.0	10
	Acetophenone	2.496	2.620	83.990	80.0	5
#	N-Nitroso-di-n-propylamine	1.716	1.867	87.070	80.0	9#
	4-Methylphenol	1.844	2.122	92.060	80.0	15
	N-Nitrosomorpholine	1.365	1.275	74.750	80.0	-7
	o-Toluidine	2.807	3.098	88.320	80.0	10
	Hexachloroethane	0.651	0.704	86.490	80.0	8
	Nitrobenzene	0.489	0.503	82.380	80.0	3
	N-Nitrosopiperidine	0.192	0.197	82.060	80.0	3
	Isophorone	0.870	0.887	81.580	80.0	2
*	2-Nitrophenol	0.194	0.211	87.190	80.0	9*
	2,4-Dimethylphenol	0.394	0.413	83.830	80.0	5
	O,O,O-triethylphosphorothioate	0.181	0.186	82.000	80.0	2
	bis(2-Chloroethoxy)methane	0.500	0.531	84.980	80.0	6
	Benzoic acid	0.326	0.326	79.900	80.0	0

USF03 0173

(*) = NOT VALID

mm 07/28/11

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/23/11 Time: 11:36

Lab File ID: eg1011.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF80	ACTUAL CONC.	TRUE CONC.	% DRIFT
*	2,4-Dichlorophenol	0.291	0.309	84.910	80.0	6*
	1,2,4-Trichlorobenzene	0.318	0.338	85.020	80.0	6
	Naphthalene	1.060	1.076	81.240	80.0	2
	4-Chloroaniline	0.461	0.477	82.750	80.0	3
	2,6-Dichlorophenol	0.291	0.312	85.840	80.0	7
	Hexachloropropene	0.175	0.195	89.340	80.0	12
*	Hexachlorobutadiene	0.153	0.160	83.630	80.0	5*
	Quinoline	0.698	0.694	79.540	80.0	-1
	Caprolactam	0.144	0.148	81.760	80.0	2
	N-Nitrosodi-n-butylamine	0.374	0.335	71.660	80.0	-10
*	4-Chloro-3-methylphenol	0.354	0.363	82.030	80.0	3*
	Safrole	0.283	0.304	86.060	80.0	8
	cis-Isosafrole	0.691	0.738	9.390	8.8	7
	2-Methylnaphthalene	0.730	0.733	80.340	80.0	0
	1-Methylnaphthalene	0.686	0.704	82.080	80.0	3
#	Hexachlorocyclopentadiene	0.257	0.300	80.280	80.0	0#
	1,2,4,5-Tetrachlorobenzene	0.493	0.502	81.480	80.0	2
	trans-Isosafrole	0.515	0.538	74.420	71.2	5
*	2,4,6-Trichlorophenol	0.341	0.357	83.900	80.0	5*
	2,4,5-Trichlorophenol	0.382	0.394	82.630	80.0	3
	Isosafrole	0.458	0.479	83.620	80.0	5
	Biphenyl	1.451	1.431	78.900	80.0	-1
	Diphenyl	1.451	1.431	78.900	80.0	-1
	1,1'-Biphenyl	1.451	1.431	78.900	80.0	-1
	2-Chloronaphthalene	1.328	1.246	75.080	80.0	-6
	1-Chloronaphthalene	1.043	1.090	83.650	80.0	5
	Diphenyl ether	0.776	0.765	78.860	80.0	-1
	2-Nitroaniline	0.398	0.402	80.790	80.0	1
	1,4-Naphthoquinone	0.466	0.466	80.070	80.0	0
	1,4-Dinitrobenzene	0.200	0.243	97.520	80.0	22
	Dimethylphthalate	1.298	1.310	80.740	80.0	1
	1,3-Dinitrobenzene	0.235	0.220	74.900	80.0	-6
	2,6-Dinitrotoluene	0.312	0.325	83.190	80.0	4
	Acenaphthylene	1.700	1.707	80.340	80.0	0
	3-Nitroaniline	0.331	0.348	84.070	80.0	5
*	Acenaphthene	1.134	1.128	79.530	80.0	-1*

USF03 0174

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7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/23/11 Time: 11:36

Lab File ID: eg1011.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

			ACTUAL	TRUE	%
COMPOUND	RRF	RRF80	CONC.	CONC.	DRIFT
# 2,4-Dinitrophenol	0.157	0.183	81.510	80.0	2#
Pentachlorobenzene	0.435	0.456	83.860	80.0	5
# 4-Nitrophenol	0.196	0.218	89.000	80.0	11#
Dibenzofuran	1.625	1.631	80.280	80.0	0
2,4-Dinitrotoluene	0.412	0.428	83.090	80.0	4
1-Naphthylamine	1.241	1.245	80.270	80.0	0
2,3,4,6-Tetrachlorophenol	0.295	0.304	82.320	80.0	3
2-Naphthylamine	1.255	1.261	80.370	80.0	0
Diethylphthalate	1.267	1.274	80.450	80.0	1
Fluorene	1.381	1.367	79.210	80.0	-1
Thionazin	0.238	0.248	83.380	80.0	4
4-Chlorophenyl-phenylether	0.651	0.640	78.720	80.0	-2
5-Nitro-o-toluidine	0.412	0.396	76.900	80.0	-4
4-Nitroaniline	0.369	0.352	76.400	80.0	-4
4,6-Dinitro-2-methylphenol	0.122	0.154	88.040	80.0	10
1-Nitronaphthalene	0.154	0.163	84.500	80.0	6
* N-Nitrosodiphenylamine (1)	0.665	0.706	84.900	80.0	6*
NDPA as diphenylamine	0.665	0.706	84.890	80.0	6
1,2-Diphenylhydrazine	1.011	1.089	86.180	80.0	8
Tetraethyldithiopyrophosphate	0.138	0.153	88.730	80.0	11
1,3,5-Trinitrobenzene	0.079	0.104	88.220	80.0	10
Diallate (peak 1)	0.466	0.527	67.820	60.0	13
Phorate	0.618	0.954	123.460	80.0	54
Phenacetin	0.413	0.457	88.460	80.0	11
4-Bromophenyl-phenylether	0.201	0.216	86.240	80.0	8
Diallate (peak 2)	0.280	0.310	22.180	20.0	11
Hexachlorobenzene	0.200	0.217	86.660	80.0	8
Dimethoate	0.315	0.351	89.160	80.0	11
* Pentachlorophenol	0.137	0.143	83.910	80.0	5*
Pentachloronitrobenzene	0.084	0.092	87.810	80.0	10
4-Aminobiphenyl	0.732	0.717	78.320	80.0	-2
Pronamide	0.332	0.359	86.350	80.0	8
Phenanthrene	1.090	1.176	86.310	80.0	8
Dinoseb	0.170	0.216	85.570	80.0	7
Anthracene	1.106	1.191	86.170	80.0	8
Carbazole	1.036	1.068	82.480	80.0	3

(1) Cannot be Separated from Diphenylamine

USF03 0175

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/23/11 Time: 11:36

Lab File ID: eg1011.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

			ACTUAL	TRUE	%
COMPOUND	RRF	RRF80	CONC.	CONC.	DRIFT
Methyl parathion	0.241	0.268	89.030	80.0	11
Di-n-butylphthalate	1.222	1.339	87.690	80.0	10
Parathion	0.159	0.188	94.430	80.0	18
4-Nitroquinoline-1-oxide	0.092	0.108	79.420	80.0	-1
Isodrin	0.119	0.125	84.540	80.0	6
* Fluoranthene	1.101	1.134	82.420	80.0	3*
Benzidine	0.618	0.713	255.740	240.0	7
Pyrene	1.264	1.299	82.230	80.0	3
p-Dimethylaminoazobenzene	0.246	0.278	90.370	80.0	13
Chlorobenzilate	0.384	0.418	87.060	80.0	9
3,3'-Dimethylbenzidine	0.542	0.694	88.910	80.0	11
Butylbenzylphthalate	0.563	0.604	85.890	80.0	7
2-Acetylaminofluorene	0.460	0.546	95.000	80.0	19
3,3'-Dichlorobenzidine	0.391	0.446	91.290	80.0	14
Benzo(a)anthracene	1.101	1.181	85.810	80.0	7
4,4'-Methylenebis(2-Chloroanil	0.206	0.227	88.020	80.0	10
Chrysene	1.082	1.104	81.680	80.0	2
bis(2-Ethylhexyl)phthalate	0.760	0.859	90.390	80.0	13
6-Methylchrysene	0.756	0.822	86.960	80.0	9
* Di-n-octylphthalate	1.272	1.556	85.620	80.0	7*
7,12-Dimethylbenz[a]anthracene	0.576	0.608	84.390	80.0	5
Benzo(b)fluoranthene	1.103	1.238	89.820	80.0	12
Benzo(k)fluoranthene	1.229	1.186	77.190	80.0	-4
* Benzo(a)pyrene	1.053	1.118	84.930	80.0	6*
3-Methylcholanthrene	0.551	0.657	95.380	80.0	19
Dibenz(a,h)acridine	0.642	0.888	94.330	80.0	18
Dibenz(a,j)acridine	0.931	0.942	80.870	80.0	1
Indeno(1,2,3-cd)pyrene	1.088	1.193	87.700	80.0	10
Dibenz(a,h)anthracene	0.918	0.998	87.040	80.0	9
Benzo(g,h,i)perylene	0.913	0.985	86.250	80.0	8
Diallate TRANS/CIS	0.419	0.473	90.000	80.0	13
2-Fluorophenol	1.450	1.583	87.310	80.0	9
Phenol-d5	2.071	2.368	91.490	80.0	14
Phenol-d6	2.071	2.368	91.490	80.0	14
Nitrobenzene-d5	0.463	0.497	85.840	80.0	7

USF03 8176

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7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/23/11 Time: 11:36

Lab File ID: eg1011.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF80	ACTUAL CONC.	TRUE CONC.	% DRIFT
2-Fluorobiphenyl	1.260	1.267	80.430	80.0	1
2,4,6-Tribromophenol	0.149	0.167	89.570	80.0	12
Terphenyl-d14	0.835	0.942	90.290	80.0	13
				Average %Drift:	7

USF03 0177

Continuing Calibration
Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09572.i/11jul18a.b/eg0651.d **
/chem/HP09572.i/11jul18a.b/eg0652.d
/chem/HP09572.i/11jul18a.b/eg0653.d
/chem/HP09572.i/11jul18a.b/eg0654.d
/chem/HP09572.i/11jul18a.b/eg0655.d
/chem/HP09572.i/11jul18a.b/eg0656.d

** indicates the Mid Level Calibration Standard.

Mid Level Calibration Standard is used for comparison.

Current Continuing Calibration Standard:

/chem/HP09572.i/11jul23.b/eg1011.d

Area Summary

Internal Standard Name	File ID: eg1011.d	ICAL Area	Low Limit	High Limit	In Spec
1,4-Dichlorobenzene-d4	139444	116958	58479	233916	Yes
Naphthalene-d8	662929	534720	267360	1069440	Yes
Acenaphthene-d10	417125	333899	166950	667798	Yes
Phenanthrene-d10	669190	582806	291403	1165612	Yes
Chrysene-d12	617199	558311	279156	1116622	Yes
Perylene-d12	542158	491627	245814	983254	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

RT Summary

Internal Standard Name	File ID: eg1011.d	ICAL RT	In Spec
1,4-Dichlorobenzene-d4	5.808	5.994	Yes
Naphthalene-d8	7.065	7.244	Yes
Acenaphthene-d10	8.775	8.961	Yes
Phenanthrene-d10	10.229	10.415	Yes
Chrysene-d12	12.825	13.023	Yes
Perylene-d12	14.237	14.459	Yes

A "No" indicates the retention time is greater than 30 seconds from the RT of the referenced standard.

Comments: 07/23/11

USF03 0179

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/24/11 Time: 09:31

Lab File ID: eg1051.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.613	0.628	30.750	30.0	3
	N-Nitrosodimethylamine	1.086	1.201	33.160	30.0	11
	Pyridine	1.818	1.963	32.390	30.0	8
	2-Picoline	1.851	1.950	31.610	30.0	5
	N-Nitrosomethylethylamine	0.864	0.924	32.080	30.0	7
	Methyl methanesulfonate	1.035	1.100	31.870	30.0	6
	N-Nitrosodiethylamine	0.830	0.892	32.240	30.0	7
	Ethyl methanesulfonate	0.836	0.887	31.810	30.0	6
*	Phenol	2.534	2.622	31.030	30.0	3*
	Aniline	2.895	2.976	30.850	30.0	3
	Pentachloroethane	0.524	0.525	30.100	30.0	0
	bis(2-Chloroethyl)ether	1.845	1.946	31.630	30.0	5
	2-Chlorophenol	1.558	1.634	31.460	30.0	5
	1,3-Dichlorobenzene	1.587	1.624	30.700	30.0	2
*	1,4-Dichlorobenzene	1.640	1.697	31.050	30.0	3*
	Benzyl alcohol	1.143	1.174	30.810	30.0	3
	1,2-Dichlorobenzene	1.553	1.608	31.060	30.0	4
	Indene	2.610	2.658	30.550	30.0	2
	2-Methylphenol	1.586	1.640	31.020	30.0	3
	2,2'-oxybis(1-Chloropropane)	2.883	2.284	23.770	30.0	-21
	bis(2-Chloroisopropyl)ether	2.883	2.284	23.770	30.0	-21
	N-Nitrosopyrrolidine	0.960	1.027	32.060	30.0	7
	Acetophenone	2.496	2.512	30.190	30.0	1
#	N-Nitroso-di-n-propylamine	1.716	1.738	30.400	30.0	1#
	4-Methylphenol	1.844	1.971	32.060	30.0	7
	N-Nitrosomorpholine	1.365	1.271	27.940	30.0	-7
	o-Toluidine	2.807	2.834	30.290	30.0	1
	Hexachloroethane	0.651	0.665	30.650	30.0	2
	Nitrobenzene	0.489	0.511	31.390	30.0	5
	N-Nitrosopiperidine	0.192	0.194	30.340	30.0	1
	Isophorone	0.870	0.903	31.120	30.0	4
*	2-Nitrophenol	0.194	0.205	31.770	30.0	6*
	2,4-Dimethylphenol	0.394	0.405	30.820	30.0	3
	O,O,O-triethylphosphorothioate	0.181	0.184	30.450	30.0	2
	bis(2-Chloroethoxy)methane	0.500	0.518	31.130	30.0	4
	Benzoic acid	0.326	0.339	41.570	40.0	4

USF03 0179

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/24/11 Time: 09:31

Lab File ID: eg1051.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
*	2,4-Dichlorophenol	0.291	0.299	30.820	30.0	3*
	1,2,4-Trichlorobenzene	0.318	0.323	30.530	30.0	2
	Naphthalene	1.060	1.061	30.040	30.0	0
	4-Chloroaniline	0.461	0.458	29.790	30.0	-1
	2,6-Dichlorophenol	0.291	0.296	30.540	30.0	2
	Hexachloropropene	0.175	0.188	32.210	30.0	7
*	Hexachlorobutadiene	0.153	0.156	30.490	30.0	2*
	Quinoline	0.698	0.716	30.780	30.0	3
	Caprolactam	0.144	0.159	33.130	30.0	10
	N-Nitrosodi-n-butylamine	0.374	0.440	35.250	30.0	18
*	4-Chloro-3-methylphenol	0.354	0.370	31.380	30.0	5*
	Safrole	0.283	0.295	31.270	30.0	4
	cis-Isosafrole	0.691	0.753	3.590	3.3	9
	2-Methylnaphthalene	0.730	0.727	29.890	30.0	0
	1-Methylnaphthalene	0.686	0.690	30.170	30.0	1
#	Hexachlorocyclopentadiene	0.257	0.255	28.700	30.0	-4#
	1,2,4,5-Tetrachlorobenzene	0.493	0.480	29.240	30.0	-3
	trans-Isosafrole	0.515	0.525	27.270	26.7	2
*	2,4,6-Trichlorophenol	0.341	0.348	30.610	30.0	2*
	2,4,5-Trichlorophenol	0.382	0.395	31.030	30.0	3
	Isosafrole	0.458	0.468	30.640	30.0	2
	Biphenyl	1.451	1.403	29.020	30.0	-3
	Diphenyl	1.451	1.403	29.020	30.0	-3
	1,1'-Biphenyl	1.451	1.403	29.020	30.0	-3
	2-Chloronaphthalene	1.328	1.204	27.200	30.0	-9
	1-Chloronaphthalene	1.043	1.071	30.810	30.0	3
	Diphenyl ether	0.776	0.752	29.090	30.0	-3
	2-Nitroaniline	0.398	0.412	31.080	30.0	4
	1,4-Naphthoquinone	0.466	0.469	30.220	30.0	1
	1,4-Dinitrobenzene	0.200	0.249	37.360	30.0	25
	Dimethylphthalate	1.298	1.318	30.450	30.0	2
	1,3-Dinitrobenzene	0.235	0.216	27.660	30.0	-8
	2,6-Dinitrotoluene	0.312	0.327	31.430	30.0	5
	Acenaphthylene	1.700	1.721	30.380	30.0	1
	3-Nitroaniline	0.331	0.359	32.540	30.0	8
*	Acenaphthene	1.134	1.111	29.380	30.0	-2*

USPB3 81B8

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/24/11 Time: 09:31

Lab File ID: eg1051.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
#	2,4-Dinitrophenol	0.157	0.176	43.480	40.0	9#
	Pentachlorobenzene	0.435	0.433	29.800	30.0	-1
#	4-Nitrophenol	0.196	0.240	36.730	30.0	22#
	Dibenzofuran	1.625	1.591	29.370	30.0	-2
	2,4-Dinitrotoluene	0.412	0.436	31.700	30.0	6
	1-Naphthylamine	1.241	1.281	30.960	30.0	3
	2,3,4,6-Tetrachlorophenol	0.295	0.308	31.320	30.0	4
	2-Naphthylamine	1.255	1.297	31.000	30.0	3
	Diethylphthalate	1.267	1.290	30.550	30.0	2
	Fluorene	1.381	1.366	29.670	30.0	-1
	Thionazin	0.238	0.242	30.460	30.0	2
	4-Chlorophenyl-phenylether	0.651	0.632	29.130	30.0	-3
	5-Nitro-o-toluidine	0.412	0.431	31.350	30.0	5
	4-Nitroaniline	0.369	0.378	30.730	30.0	2
	4,6-Dinitro-2-methylphenol	0.122	0.140	33.120	30.0	10
	1-Nitronaphthalene	0.154	0.157	30.500	30.0	2
*	N-Nitrosodiphenylamine (1)	0.665	0.674	30.380	30.0	1*
	NDPA as diphenylamine	0.665	0.673	30.360	30.0	1
	1,2-Diphenylhydrazine	1.011	1.050	31.150	30.0	4
	Tetraethyldithiopyrophosphate	0.138	0.144	31.460	30.0	5
	1,3,5-Trinitrobenzene	0.079	0.094	33.290	30.0	11
	Diallate (peak 1)	0.466	0.485	23.400	22.5	4
	Phorate	0.618	0.666	32.330	30.0	8
	Phenacetin	0.413	0.453	32.930	30.0	10
	4-Bromophenyl-phenylether	0.201	0.207	30.990	30.0	3
	Diallate (peak 2)	0.280	0.288	7.730	7.5	3
	Hexachlorobenzene	0.200	0.207	31.020	30.0	3
	Dimethoate	0.315	0.370	35.230	30.0	17
*	Pentachlorophenol	0.137	0.142	41.700	40.0	4*
	Pentachloronitrobenzene	0.084	0.091	32.720	30.0	9
	4-Aminobiphenyl	0.732	0.764	31.310	30.0	4
	Pronamide	0.332	0.350	31.620	30.0	5
	Phenanthrene	1.090	1.154	31.770	30.0	6
	Dinoseb	0.170	0.194	31.950	30.0	6
	Anthracene	1.106	1.169	31.720	30.0	6
	Carbazole	1.036	1.093	31.650	30.0	5

(1) Cannot be Separated from Diphenylamine

USF03 0181

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/24/11 Time: 09:31

Lab File ID: eg1051.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

			ACTUAL	TRUE	%
COMPOUND	RRF	RRF30	CONC.	CONC.	DRIFT
Methyl parathion	0.241	0.286	35.560	30.0	19
Di-n-butylphthalate	1.222	1.295	31.800	30.0	6
Parathion	0.159	0.180	33.990	30.0	13
4-Nitroquinoline-1-oxide	0.092	0.101	30.200	30.0	1
Isodrin	0.119	0.123	31.180	30.0	4
* Fluoranthene	1.101	1.154	31.430	30.0	5*
Benzidine	0.618	0.722	99.290	90.0	10
Pyrene	1.264	1.230	29.200	30.0	-3
p-Dimethylaminoazobenzene	0.246	0.257	31.260	30.0	4
Chlorobenzilate	0.384	0.392	30.620	30.0	2
3,3'-Dimethylbenzidine	0.542	0.715	35.960	30.0	20
Butylbenzylphthalate	0.563	0.572	30.480	30.0	2
2-Acetylaminofluorene	0.460	0.527	34.360	30.0	15
3,3'-Dichlorobenzidine	0.391	0.434	33.320	30.0	11
Benzo(a)anthracene	1.101	1.143	31.140	30.0	4
4,4'-Methylenebis(2-Chloroanil	0.206	0.228	33.220	30.0	11
Chrysene	1.082	1.083	30.030	30.0	0
bis(2-Ethylhexyl)phthalate	0.760	0.788	31.090	30.0	4
6-Methylchrysene	0.756	0.805	31.940	30.0	6
* Di-n-octylphthalate	1.272	1.438	32.190	30.0	7*
7,12-Dimethylbenz[a]anthracene	0.576	0.590	30.730	30.0	2
Benzo(b)fluoranthene	1.103	1.181	32.140	30.0	7
Benzo(k)fluoranthene	1.229	1.180	28.790	30.0	-4
* Benzo(a)pyrene	1.053	1.084	30.880	30.0	3*
3-Methylcholanthrene	0.551	0.632	34.410	30.0	15
Dibenz(a,h)acridine	0.642	0.834	36.180	30.0	21
Dibenz(a,j)acridine	0.931	0.908	29.260	30.0	-2
Indeno(1,2,3-cd)pyrene	1.088	1.153	31.780	30.0	6
Dibenz(a,h)anthracene	0.918	0.995	32.540	30.0	8
Benzo(g,h,i)perylene	0.913	0.955	31.370	30.0	5
Diallate TRANS/CIS	0.419	0.436	31.130	30.0	4
2-Fluorophenol	1.450	1.490	30.820	30.0	3
Phenol-d5	2.071	2.233	32.350	30.0	8
Phenol-d6	2.071	2.233	32.350	30.0	8
Nitrobenzene-d5	0.463	0.493	31.960	30.0	7

USF03 6982

FORM VII SV-1

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09572 Calibration Date: 07/24/11 Time: 09:31

Lab File ID: eg1051.d Init. Calib. Date(s): 07/19/11 07/19/11

Init. Calib. Times(s): 00:27 02:55

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
2-Fluorobiphenyl	1.260	1.221	29.060	30.0	-3
2,4,6-Tribromophenol	0.149	0.175	35.170	30.0	17
Terphenyl-d14	0.835	0.885	31.790	30.0	6
			Average %Drift:		6

USF03 0103

Continuing Calibration
Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09572.i/11jul18a.b/eg0651.d **
/chem/HP09572.i/11jul18a.b/eg0652.d
/chem/HP09572.i/11jul18a.b/eg0653.d
/chem/HP09572.i/11jul18a.b/eg0654.d
/chem/HP09572.i/11jul18a.b/eg0655.d
/chem/HP09572.i/11jul18a.b/eg0656.d

** indicates the Mid Level Calibration Standard.

Mid Level Calibration Standard is used for comparison.

Current Continuing Calibration Standard:

/chem/HP09572.i/11jul24.b/eg1051.d

Area Summary

Internal Standard Name	File ID: eg1051.d	ICAL Area	Low Limit	High Limit	In Spec
1,4-Dichlorobenzene-d4	124225	116958	58479	233916	Yes
Naphthalene-d8	579409	534720	267360	1069440	Yes
Acenaphthene-d10	373907	333899	166950	667798	Yes
Phenanthrene-d10	645284	582806	291403	1165612	Yes
Chrysene-d12	645368	558311	279156	1116622	Yes
Perylene-d12	580169	491627	245814	983254	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

RT Summary

Internal Standard Name	File ID: eg1051.d	ICAL RT	In Spec
1,4-Dichlorobenzene-d4	5.784	5.994	Yes
Naphthalene-d8	7.035	7.244	Yes
Acenaphthene-d10	8.751	8.961	Yes
Phenanthrene-d10	10.199	10.415	Yes
Chrysene-d12	12.789	13.023	Yes
Perylene-d12	14.207	14.459	Yes

A "No" indicates the retention time is greater than 30 seconds from the RT of the referenced standard.

Comments: mm 7/25/11

USF03 8194

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg0591a.d Date Analyzed: 07/15/11

Instrument ID: HP09572 Time Analyzed: 22:50

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	135357	4.432	599454	5.724	384971	7.399
UPPER LIMIT	270714	4.932	1198908	6.224	769942	7.899
LOWER LIMIT	67679	3.932	299727	5.224	192486	6.899
LLI SAMPLE NO.						
01 SBLKLC194	139429	4.424	601024	5.716	388664	7.397
02 194LCLCS	128180	4.430	569948	5.722	379536	7.403
03 SBLKWB194	123677	4.430	523885	5.716	341554	7.397
04 194WBLCS	108046	4.430	485110	5.722	324832	7.403
05 194WBLCSD	118372	4.430	541304	5.722	366769	7.403
06 SBLKWB192	116292	4.430	508589	5.716	334170	7.397
07 192WBLCS	107533	4.430	487753	5.722	333537	7.403
08 192WBLCSD	111035	4.430	517959	5.722	350593	7.403
09 6337222	110860	4.430	479561	5.716	316316	7.397
10 6338269	114324	4.430	500397	5.716	324841	7.397
11 6339388	118887	4.430	511096	5.716	338984	7.397
12 6339042RE	127328	4.430	554221	5.716	359753	7.397
13 6339613	137284	4.430	607492	5.716	398824	7.397
14 6339614	129010	4.430	565608	5.716	367665	7.397
15 6339615	132252	4.430	582817	5.716	386111	7.397
16 6337088	135660	4.430	598105	5.716	398116	7.397
17 6337089MS	124581	4.430	560199	5.722	372790	7.403

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF63 9105

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg0591a.d Date Analyzed: 07/15/11

Instrument ID: HP09572 Time Analyzed: 22:50

		IS4(PHN)			IS5(CRY)			IS6(PRY)	
		AREA #	RT #		AREA #	RT #		AREA #	RT #
	12 HOUR STD	655705	8.799		654069	11.300		552660	12.550
	UPPER LIMIT	1311410	9.299		1308138	11.800		1105320	13.050
	LOWER LIMIT	327853	8.299		327035	10.800		276330	12.050
	LLI SAMPLE NO.								
01	SBLKLC194	700339	8.791		673603	11.292		572709	12.542
02	194LCLCS	651014	8.797		594924	11.298		513913	12.542
03	SBLKWB194	610532	8.791		589937	11.292		521450	12.542
04	194WBLCS	557487	8.791		538185	11.298		489338	12.542
05	194WBLCSD	620055	8.797		590156	11.298		538021	12.548
06	SBLKWB192	584335	8.791		577942	11.292		536340	12.542
07	192WBLCS	578742	8.791		550841	11.298		512296	12.542
08	192WBLCSD	605161	8.797		576062	11.298		523260	12.542
09	6337222	556672	8.791		558690	11.292		511648	12.542
10	6338269	583091	8.791		565781	11.292		519377	12.542
11	6339388	585864	8.791		576939	11.292		522409	12.542
12	6339042RE	615416	8.791		594866	11.292		536504	12.542
13	6339613	675052	8.791		630791	11.292		558748	12.542
14	6339614	632821	8.791		595419	11.292		538918	12.536
15	6339615	670565	8.791		636774	11.292		566251	12.542
16	6337088	706954	8.791		633191	11.292		529178	12.542
17	6337089MS	633098	8.791		582858	11.298		490216	12.542

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 0106

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg0591a.d Date Analyzed: 07/15/11

Instrument ID: HP09572 Time Analyzed: 22:50

		IS1(DCB)			IS2(NPT)			IS3(ANT)		
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	135357		4.432		599454		5.724		384971		7.399	
	UPPER LIMIT	270714		4.932		1198908		6.224		769942		7.899	
	LOWER LIMIT	67679		3.932		299727		5.224		192486		6.899	
	LLI SAMPLE NO.												
18	6337090MSD	128802		4.430		578432		5.722		382110		7.403	
19	6337084	128131		4.424		561223		5.716		377856		7.397	
20	6337085	123042		4.430		535518		5.716		354874		7.397	
21	6337086	122673		4.424		541602		5.716		362071		7.397	
22	6337087	120461		4.424		531405		5.716		352997		7.397	
23	6337092	125267		4.424		544349		5.716		360956		7.397	
24	6337093	116265		4.430		525147		5.716		349405		7.397	
25	6337094	110255		4.424		484611		5.716		326336		7.397	
26	6337095	114212		4.424		506412		5.716		335716		7.397	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF83 0107

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg0591a.d Date Analyzed: 07/15/11

Instrument ID: HP09572 Time Analyzed: 22:50

		IS4(PHN)		IS5(CRY)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	655705	8.799	654069	11.300	552660	12.550
	UPPER LIMIT	1311410	9.299	1308138	11.800	1105320	13.050
	LOWER LIMIT	327853	8.299	327035	10.800	276330	12.050
	LLI SAMPLE NO.						
18	6337090MSD	656328	8.791	593352	11.298	511287	12.542
19	6337084	678208	8.791	641723	11.292	535897	12.542
20	6337085	652585	8.791	619314	11.292	518414	12.536
21	6337086	662299	8.791	625480	11.292	533551	12.536
22	6337087	643222	8.791	605619	11.292	510647	12.536
23	6337092	659423	8.791	620722	11.292	519619	12.536
24	6337093	641994	8.791	608915	11.286	523503	12.536
25	6337094	604739	8.791	552670	11.286	464446	12.536
26	6337095	607131	8.791	569973	11.292	487525	12.536

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

US783 5108

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg1011.d Date Analyzed: 07/23/11

Instrument ID: HP09572 Time Analyzed: 11:36

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	139444	5.808	662929	7.065	417125	8.776
UPPER LIMIT	278888	6.308	1325858	7.565	834250	9.276
LOWER LIMIT	69722	5.308	331465	6.565	208563	8.276
LLI SAMPLE NO.						
01 SBLKLB193	139074	5.808	639806	7.059	426865	8.776
02 193LBLCS	148492	5.808	692984	7.059	450741	8.775
03 193LBLCSD	148017	5.808	703722	7.059	457102	8.775
04 6339384	147580	5.808	679722	7.059	456155	8.769
05 6341965	129306	5.802	613941	7.053	413267	8.770
06 6341960DL	146625	5.802	683118	7.053	449436	8.770
07 6340191DL	136551	5.802	627878	7.058	427192	8.769
08 6340199DL	148474	5.802	691972	7.053	437290	8.769
09 6341963DL	132368	5.802	618865	7.052	389842	8.769
10 6339377	142995	5.808	677485	7.053	433273	8.770
11 6339378MS	152914	5.808	713016	7.059	447386	8.775
12 6339379MSD	147158	5.808	694008	7.058	444281	8.775
13 6337203	151634	5.808	706521	7.058	456276	8.769
14 6337205	157611	5.808	748247	7.053	470123	8.769
15 6337207	149905	5.808	702802	7.053	458556	8.770
16 6337209	152567	5.808	715207	7.059	471086	8.770
17 6337212	150786	5.808	707293	7.058	457674	8.769

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 #189

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg1011.d Date Analyzed: 07/23/11

Instrument ID: HP09572 Time Analyzed: 11:36

	IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD		669190		10.229		617199		12.825		542158		14.237	
	UPPER LIMIT		1338380		10.729		1234398		13.325		1084316		14.737	
	LOWER LIMIT		334595		9.729		308600		12.325		271079		13.737	
	LLI SAMPLE NO.													
01	SBLKLB193		759863		10.217		691432		12.814		588826		14.231	
02	193LBLCS		738004		10.223		629415		12.819		515222		14.237	
03	193LBLCSD		747278		10.223		648839		12.819		521245		14.231	
04	6339384		802212		10.217		716058		12.813		590486		14.231	
05	6341965		694640		10.217		537245		12.808		431605		14.231	
06	6341960DL		736407		10.217		609041		12.808		553085		14.231	
07	6340191DL		705299		10.217		598226		12.807		538624		14.231	
08	6340199DL		677278		10.217		557766		12.807		528882		14.231	
09	6341963DL		611951		10.217		497323		12.807		459104		14.231	
10	6339377		669427		10.217		487116		12.808		418959		14.231	
11	6339378MS		697293		10.223		503387		12.813		425065		14.231	
12	6339379MSD		678695		10.223		505820		12.813		432616		14.231	
13	6337203		689998		10.217		492006		12.807		422742		14.231	
14	6337205		709285		10.217		493811		12.807		436264		14.231	
15	6337207		689749		10.217		492708		12.808		420328		14.231	
16	6337209		692377		10.217		487332		12.808		426176		14.231	
17	6337212		694027		10.217		491526		12.807		415907		14.231	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk.
* Values outside of QC limits.

USF03 0198

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg1011.d Date Analyzed: 07/23/11

Instrument ID: HP09572 Time Analyzed: 11:36

	IS1(DCB) AREA #	IS1(DCB) RT #	IS2(NPT) AREA #	IS2(NPT) RT #	IS3(ANT) AREA #	IS3(ANT) RT #
	12 HOUR STD	139444	5.808	662929	7.065	417125	8.776
	UPPER LIMIT	278888	6.308	1325858	7.565	834250	9.276
	LOWER LIMIT	69722	5.308	331465	6.565	208563	8.276
	LLI SAMPLE NO.						
18	6338249	157536	5.808	738575	7.058	465127	8.769
19	6338250	155182	5.808	733167	7.058	461245	8.775
20	6338252	146222	5.808	699308	7.059	445995	8.770
21	6338261	156806	5.808	737910	7.058	465256	8.775
22	6338263	148999	5.808	709904	7.059	450457	8.770
23	6338264	151728	5.808	712121	7.059	441106	8.769

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 0191

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg1011.d Date Analyzed: 07/23/11

Instrument ID: HP09572 Time Analyzed: 11:36

		IS4(PHN)			IS5(CRY)			IS6(PRY)	
		AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	669190		10.229		617199		12.825		542158		14.237	
	UPPER LIMIT	1338380		10.729		1234398		13.325		1084316		14.737	
	LOWER LIMIT	334595		9.729		308600		12.325		271079		13.737	
	LLI SAMPLE NO.												
18	6338249	704227		10.217		472209		12.807		431145		14.231	
19	6338250	669002		10.217		463506		12.813		418561		14.231	
20	6338252	659772		10.217		469893		12.808		396303		14.231	
21	6338261	684751		10.217		477107		12.807		429306		14.231	
22	6338263	665487		10.217		466214		12.808		410194		14.231	
23	6338264	653082		10.217		464949		12.808		413646		14.231	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF83 8192

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg1051.d Date Analyzed: 07/24/11

Instrument ID: HP09572 Time Analyzed: 09:31

		IS1(DCB)			IS2(NPT)			IS3(ANT)	
		AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	124225		5.784		579409		7.035		373907		8.751	
	UPPER LIMIT	248450		6.284		1158818		7.535		747814		9.251	
	LOWER LIMIT	62113		5.284		289705		6.535		186954		8.251	
	LLI SAMPLE NO.												
01	SBLKLB199	116725		5.778		517200		7.035		337584		8.745	
02	199LBLCS	124088		5.784		584827		7.035		390089		8.752	
03	6341952DL	94061		5.778		431658		7.035		288067		8.746	
04	6341954DL	115327		5.784		556287		7.064		328792		8.757	
05	6339368	138678		5.784		640325		7.035		423882		8.751	
06	6339370	127434		5.784		584166		7.034		380218		8.751	
07	6339372	131910		5.784		618647		7.035		407828		8.751	
08	6339374	132652		5.784		625860		7.034		410584		8.751	
09	6339375	128955		5.784		610420		7.035		404463		8.752	
10	6339386	131165		5.784		612923		7.034		395596		8.751	
11	6340796	137840		5.784		617494		7.035		360228		8.752	
12	6340797MS	127153		5.784		547278		7.040		314301		8.757	
13	6340798MSD	107393		5.790		433796		7.047		269659		8.763	
14	6340788	131737		5.802		576764		7.053		330486		8.775	
15	6340789	116235		5.796		528150		7.053		308637		8.770	
16	6340790	122632		5.796		550731		7.053		318691		8.769	
17	6340791	135571		5.796		593198		7.047		350043		8.769	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USPB3 8193

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg1051.d Date Analyzed: 07/24/11

Instrument ID: HP09572 Time Analyzed: 09:31

	IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
12 HOUR STD	645284		10.199		645368		12.789		580169		14.207	
UPPER LIMIT	1290568		10.699		1290736		13.289		1160338		14.707	
LOWER LIMIT	322642		9.699		322684		12.289		290085		13.707	
LLI SAMPLE NO.												
01 SBLKLB199	632183		10.193		619734		12.784		526887		14.201	
02 199LBLCS	660456		10.199		592430		12.790		472244		14.201	
03 6341952DL	511042		10.193		521634		12.784		476145		14.201	
04 6341954DL	546889		10.211		498377		12.784		464114		14.201	
05 6339368	695525		10.193		534225		12.784		446080		14.201	
06 6339370	651013		10.193		530771		12.783		451507		14.201	
07 6339372	686974		10.193		558458		12.783		456961		14.201	
08 6339374	678009		10.199		527710		12.783		444663		14.201	
09 6339375	680538		10.199		536718		12.784		439787		14.201	
10 6339386	634262		10.193		466798		12.783		404400		14.207	
11 6340796	531273		10.199		426864		12.790		398987		14.213	
12 6340797MS	471071		10.205		429337		12.801		429832		14.249	
13 6340798MSD	407312		10.211		416777		12.825		379694		14.315	
14 6340788	460460		10.223		424015		12.819		413902		14.249	
15 6340789	434739		10.223		385970		12.820		378797		14.243	
16 6340790	461072		10.217		391409		12.813		381748		14.243	
17 6340791	506954		10.217		432321		12.813		413504		14.237	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USV83 6194

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg1051.d Date Analyzed: 07/24/11

Instrument ID: HP09572 Time Analyzed: 09:31

		IS1(DCB)			IS2(NPT)			IS3(ANT)	
		AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	124225		5.784		579409		7.035		373907		8.751	
	UPPER LIMIT	248450		6.284		1158818		7.535		747814		9.251	
	LOWER LIMIT	62113		5.284		289705		6.535		186954		8.251	
	LLI SAMPLE NO.												
18	6340792	132022		5.796		588745		7.047		348628		8.764	
19	6340793	122491		5.796		544283		7.047		313538		8.764	
20	6340795	113634		5.796		544820		7.047		340580		8.763	
21	6340800	132661		5.796		564369		7.047		325115		8.763	
22	6340801	137937		5.796		584906		7.047		321653		8.763	
23	6340802	121978		5.796		514459		7.052		289154		8.769	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USP83 8195

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): eg1051.d Date Analyzed: 07/24/11

Instrument ID: HP09572 Time Analyzed: 09:31

		IS4(PHN)			IS5(CRY)			IS6(PRY)	
		AREA	#	RT	AREA	#	RT	AREA	#	RT	#
	12 HOUR STD	645284		10.199	645368		12.789	580169		14.207	
	UPPER LIMIT	1290568		10.699	1290736		13.289	1160338		14.707	
	LOWER LIMIT	322642		9.699	322684		12.289	290085		13.707	
	LLI SAMPLE NO.										
18	6340792	498494		10.217	410592		12.814	393984		14.237	
19	6340793	459797		10.217	399204		12.813	375758		14.237	
20	6340795	487028		10.217	382300		12.807	367142		14.237	
21	6340800	480848		10.217	435576		12.813	417907		14.243	
22	6340801	460508		10.217	416919		12.813	407473		14.243	
23	6340802	431980		10.223	418584		12.825	437740		14.285	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 8196

Sample Data

US703 8197

Lancaster Laboratories

LOQ/MDL Summary
GC/MS Semivolatiles

SDG: USF03

Fraction: Semivolatiles by GC/MS

04688: TCL SW846 Semivolatiles Soil Analyte Name	Default MDL	Default LOQ	Units
Naphthalene	3	17	ug/kg
2-Methylnaphthalene	3	17	ug/kg
1-Methylnaphthalene	3	17	ug/kg
Dimethylphthalate	67	170	ug/kg
Acenaphthylene	3	17	ug/kg
Acenaphthene	3	17	ug/kg
Diethylphthalate	67	170	ug/kg
Fluorene	3	17	ug/kg
Phenanthrene	3	17	ug/kg
Anthracene	3	17	ug/kg
Di-n-butylphthalate	67	170	ug/kg
Fluoranthene	3	17	ug/kg
Pyrene	3	17	ug/kg
Butylbenzylphthalate	67	170	ug/kg
bis(2-Ethylhexyl)phthalate	67	170	ug/kg
Benzo(a)anthracene	3	17	ug/kg
Chrysene	3	17	ug/kg
Di-n-octylphthalate	67	170	ug/kg
Benzo(b)fluoranthene	3	17	ug/kg
Benzo(k)fluoranthene	3	17	ug/kg
Benzo(a)pyrene	3	17	ug/kg
Indeno(1,2,3-cd)pyrene	3	17	ug/kg
Dibenz(a,h)anthracene	3	17	ug/kg
Benzo(g,h,i)perylene	3	17	ug/kg

04678: TCL SW846 Semivolatiles/Waters Analyte Name	Default MDL	Default LOQ	Units
Naphthalene	0.1	0.5	ug/l
2-Methylnaphthalene	0.1	0.5	ug/l
1-Methylnaphthalene	0.1	0.5	ug/l
Dimethylphthalate	2	5	ug/l
Acenaphthylene	0.1	0.5	ug/l
Acenaphthene	0.1	0.5	ug/l
Diethylphthalate	2	5	ug/l
Fluorene	0.1	0.5	ug/l
Phenanthrene	0.1	0.5	ug/l
Anthracene	0.1	0.5	ug/l
Di-n-butylphthalate	2	5	ug/l
Fluoranthene	0.1	0.5	ug/l
Pyrene	0.1	0.5	ug/l
Butylbenzylphthalate	2	5	ug/l
bis(2-Ethylhexyl)phthalate	2	5	ug/l
Benzo(a)anthracene	0.1	0.5	ug/l
Chrysene	0.1	0.5	ug/l
Di-n-octylphthalate	2	5	ug/l
Benzo(b)fluoranthene	0.1	0.5	ug/l
Benzo(k)fluoranthene	0.1	0.5	ug/l

USF03 0198

Lancaster Laboratories

LOQ/MDL Summary
GC/MS Semivolatiles

SDG: USF03

Fraction: Semivolatiles by GC/MS

04678: TCL SW846 Semivolatiles/Waters Analyte Name	Default MDL	Default LOQ	Units
Benzo(a)pyrene	0.1	0.5	ug/l
Indeno(1,2,3-cd)pyrene	0.1	0.5	ug/l
Dibenz(a,h)anthracene	0.1	0.5	ug/l
Benzo(g,h,i)perylene	0.1	0.5	ug/l

USF03 0199

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339368

Data file: /chem/HP09572.i/11jul24.b/eg1058.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 12:44 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:27 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.784(0.000)	619	152.0	138678(12)	40.00	
53) Naphthalene-d8	7.035(0.000)	828	136.0	640325(11)	40.00	
103) Acenaphthene-d10	8.751(0.000)	1115	164.0	423882(13)	40.00	
140) Phenanthrene-d10	10.193(0.006)	1356	188.0	695525(8)	40.00	
166) Chrysene-d12	12.784(0.006)	1789	240.0	534225(-17)	40.00	
177) Perylene-d12	14.201(0.006)	2026	264.0	446080(-23)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.335(0.000)	82	641331	86.505	87%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.105(0.000)	172	1095762	82.042	82%		67 - 115
157) Terphenyl-d14	(5)	11.773(-0.001)	244	1099617	98.627	99%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)				ND	ND			0.50
69) 2-Methylnaphthalene	(2)				ND	ND			0.50
71) 1-Methylnaphthalene	(2)				ND	ND			0.50
92) Dimethylphthalate	(3)				ND	ND			0.50
100) Acenaphthylene	(3)				ND	ND			0.50
106) Acenaphthene	(3)				ND	ND			0.50
118) Diethylphthalate	(3)				ND	ND			0.50
119) Fluorene	(3)				ND	ND			0.50
141) Phenanthrene	(4)				ND	ND			0.50
143) Anthracene	(4)				ND	ND			0.50
148) Di-n-butylphthalate	(4)				ND	ND			0.50
153) Fluoranthene	(4)				ND	ND			0.50
155) Pyrene	(5)				ND	ND			0.50
162) Butylbenzylphthalate	(5)				ND	ND			0.50
164) Benzo(a)anthracene	(5)				ND	ND			0.50
168) Chrysene	(5)				ND	ND			0.50
169) bis(2-Ethylhexyl)phthalate	(5)	12.849(0.000)	149	7120	0.701	23.15			0.50
172) Di-n-octylphthalate	(6)				ND	ND			0.50
173) Benzo(b)fluoranthene	(6)				ND	ND			0.50
175) Benzo(k)fluoranthene	(6)				ND	ND			0.50
176) Benzo(a)pyrene	(6)				ND	ND			0.50
185) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			0.50
187) Dibenz(a,h)anthracene	(6)				ND	ND			0.50
188) Benzo(g,h,i)perylene	(6)				ND	ND			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0200

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339368

Data file: /chem/HP09572.i/11jul24.b/eg1058.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 12:44 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:27 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

THIS SPACE WAS LEFT BLANK INTENTIONALLY

Total number of targets = 24

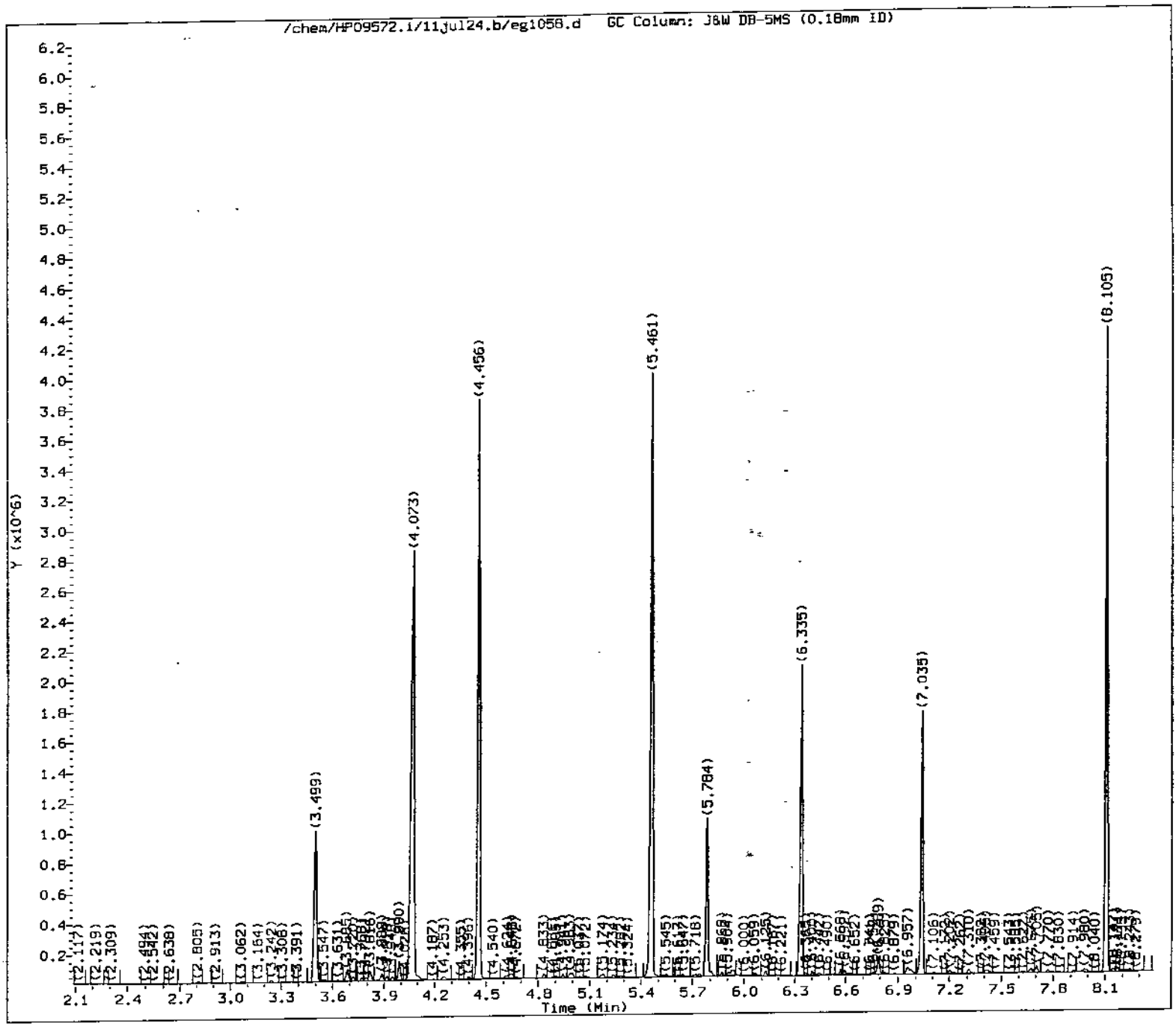
Comments:

Analyst: Date: 07/27/11
Auditor: Date:

Mark A. Ratcliff
Senior Specialist

Page 2 of 7 JUL 27 2011

USP83 8281



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1058.d
Injection date and time: 24-JUL-2011 12:44

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 11:45

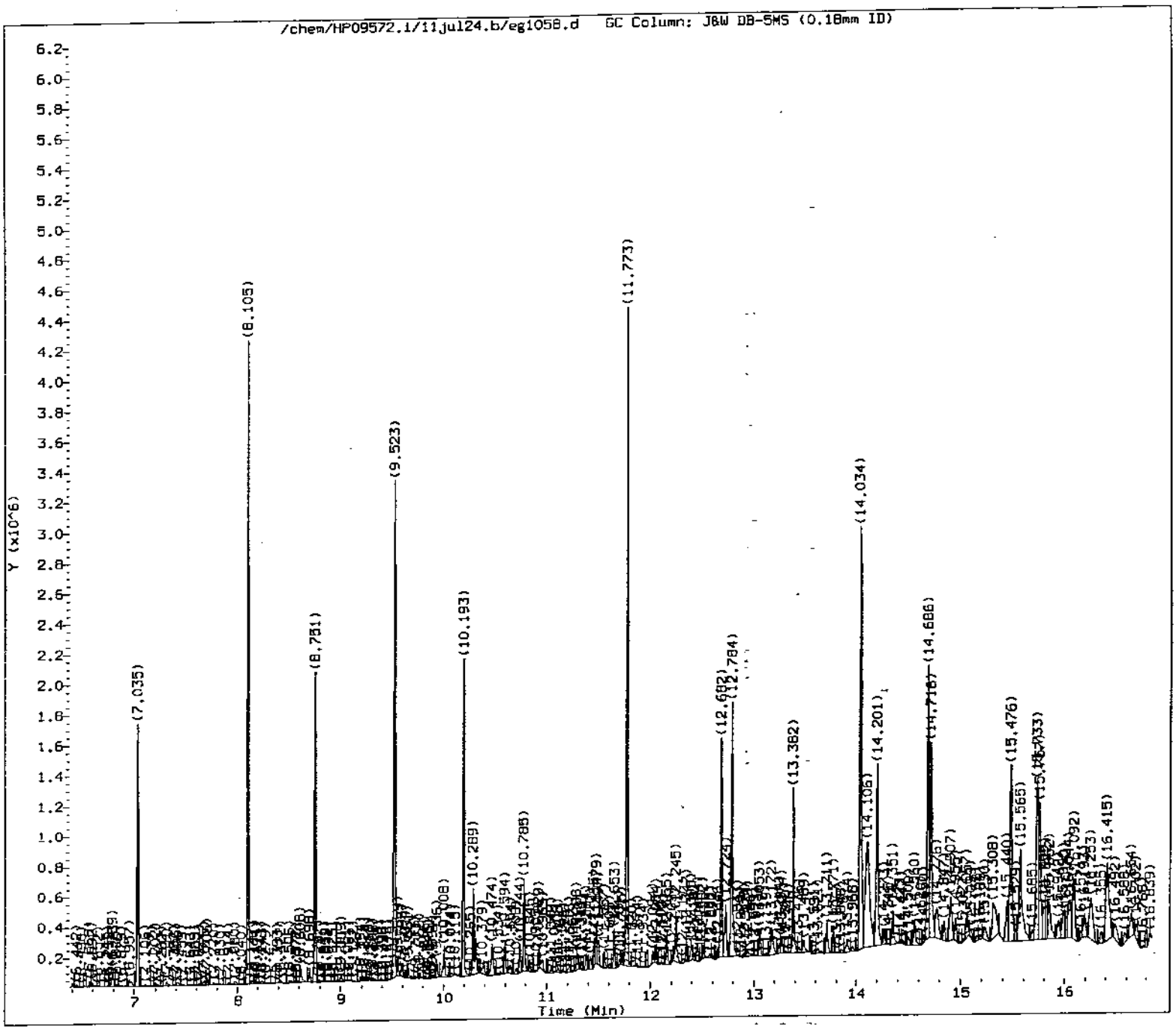
Sublist used: URSsoil

Date, time and analyst ID of latest file update: 24-Jul-2011 14:22 lmh00956

Sample Name: XXXXX

Lab Sample ID: 6339368

USF03 0282



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1058.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 12:44 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 14:22 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339368

lmh 1907/24/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1058.d
Injection date and time: 24-JUL-2011 12:44

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 11:45

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 24-Jul-2011 14:22 lmh00956

Sample Name: XXXXX

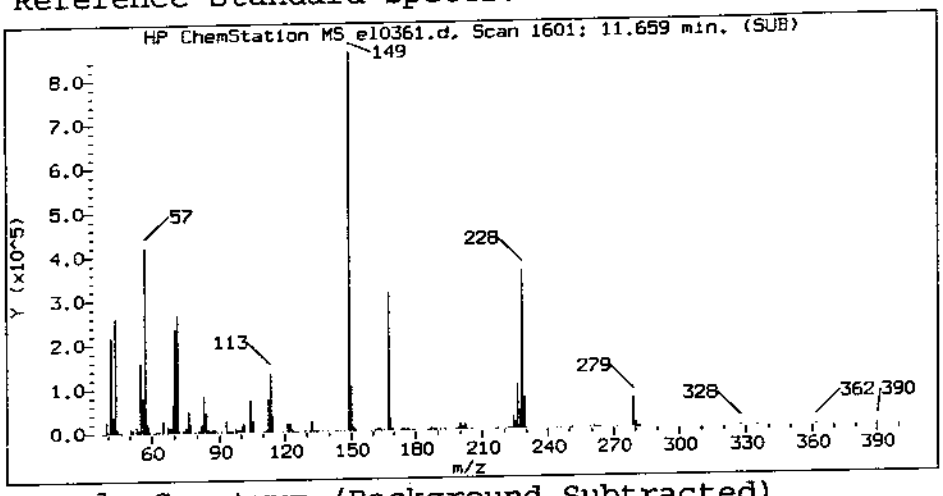
Lab Sample ID: 6339368

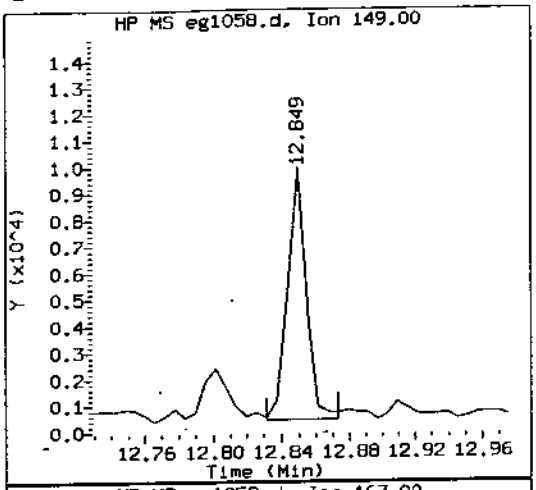
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.784	152	138678	40.0000
53)	Naphthalene-d8	(2)	7.035	136	640325	40.0000
103)	Acenaphthene-d10	(3)	8.751	164	423882	40.0000
140)	Phenanthrene-d10	(4)	10.193	188	695525	40.0000
166)	Chrysene-d12	(5)	12.784	240	534225	40.0000
169)	bis(2-Ethylhexyl)phthalate	(5)	12.849	149	7120M	0.7014
177)	Perylene-d12	(6)	14.201	264	446080	40.0000
42)	Nitrobenzene-d5	(2)	6.335	82	641331	86.5046
79)	2-Fluorobiphenyl	(3)	8.105	172	1095762	82.0418
157)	Terphenyl-d14	(5)	11.773	244	1099617	98.6266

M = Compound was manually integrated.

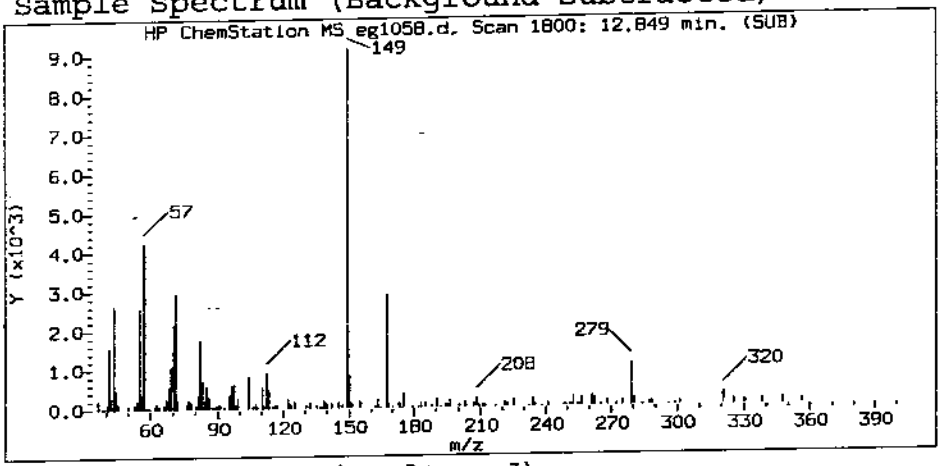
A = User selected an alternate hit

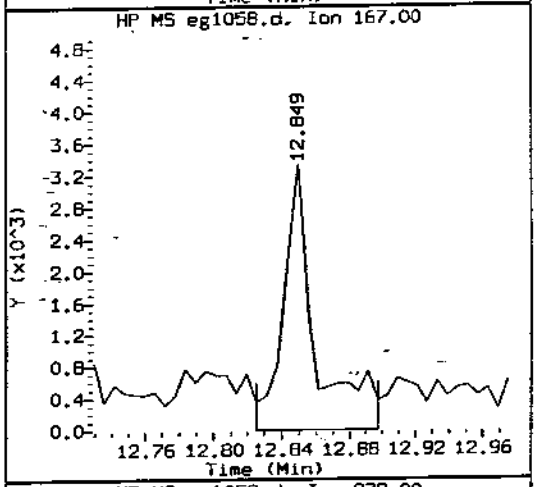
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



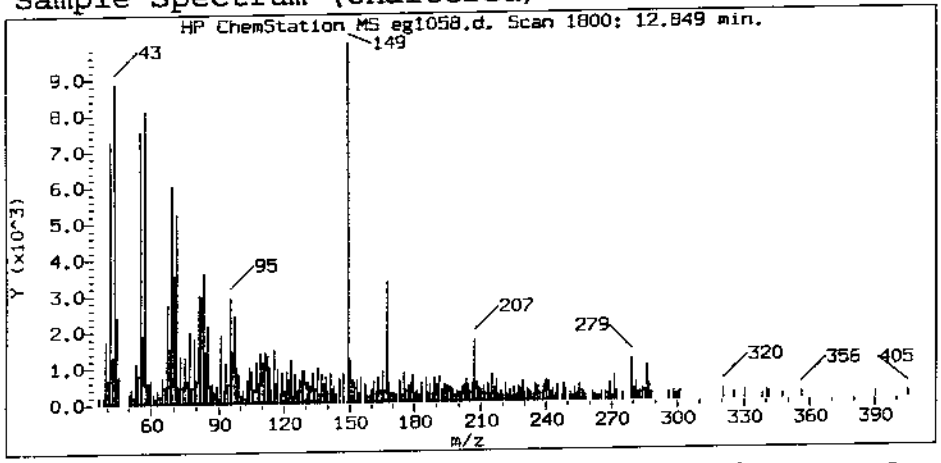


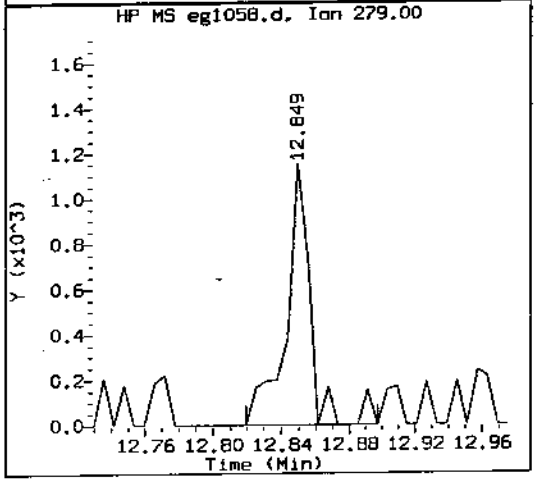
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul24.b/eg1058.d
Injection date and time: 24-JUL-2011 12:44

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 11:45

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 24-Jul-2011 14:18 lmh00956

Sample Name: XXXXX

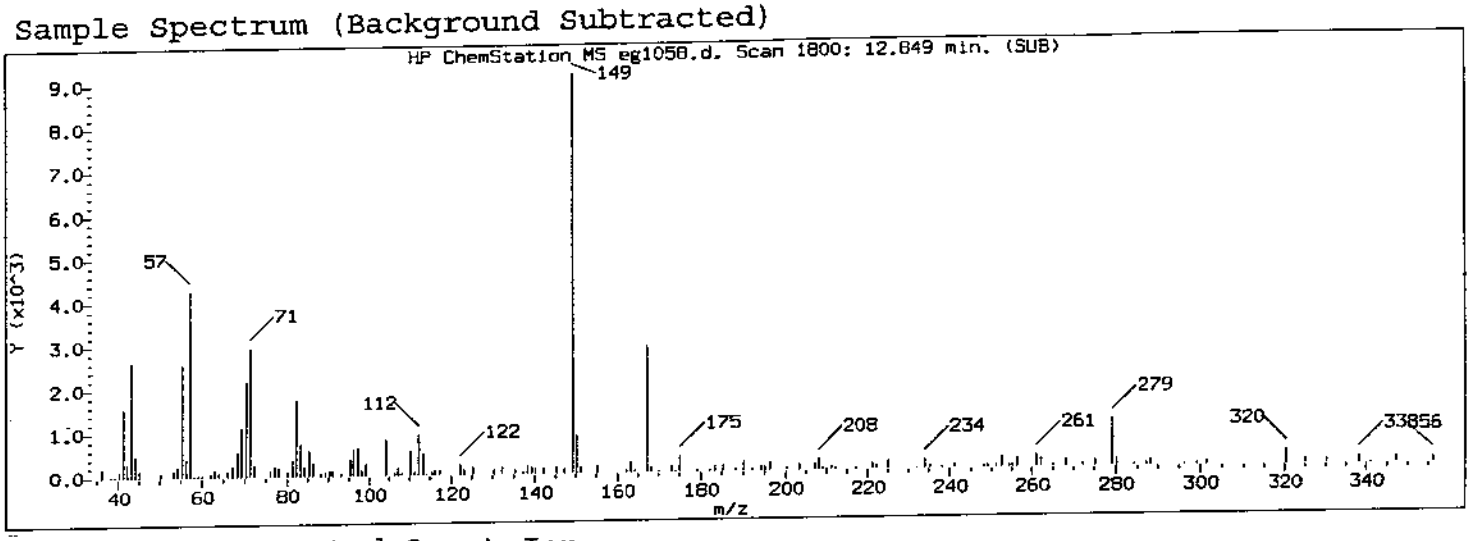
Lab Sample ID: 6339368

Compound Number	: 169
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1800
Retention Time (minutes)	: 12.849
Quant Ion	: 149.0
Area (flag)	: 7120 M
Concentration (ng/ul)	: 0.7015

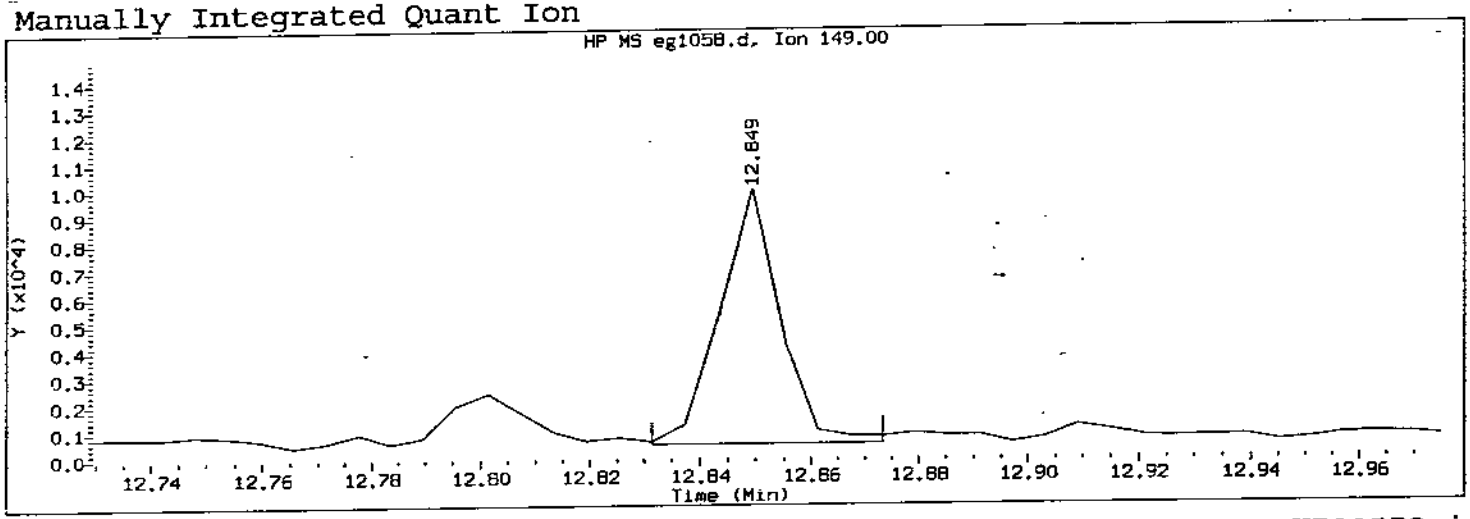
USF03 8285

Hit Data Report for data file /chem/HP09572.i/11jul24.b/eg1058.d, generated on 07/24/2011 at 14:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul24.b/eg1058.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 12:44 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 14:18 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339368

Compound Number	:	169
Compound Name	:	bis(2-Ethylhexyl)phthalate
Scan Number	:	1800
Retention Time (minutes)	:	12.849
Quant Ion	:	149
Area (flag)	:	7120 M
Concentration (ng/ul)	:	0.7015
Integration start scan	:	1796 Integration stop scan: 1803
Y at integration start	:	474 Y at integration end: 474

Reason for manual integration (circle one): missed peak improper integration

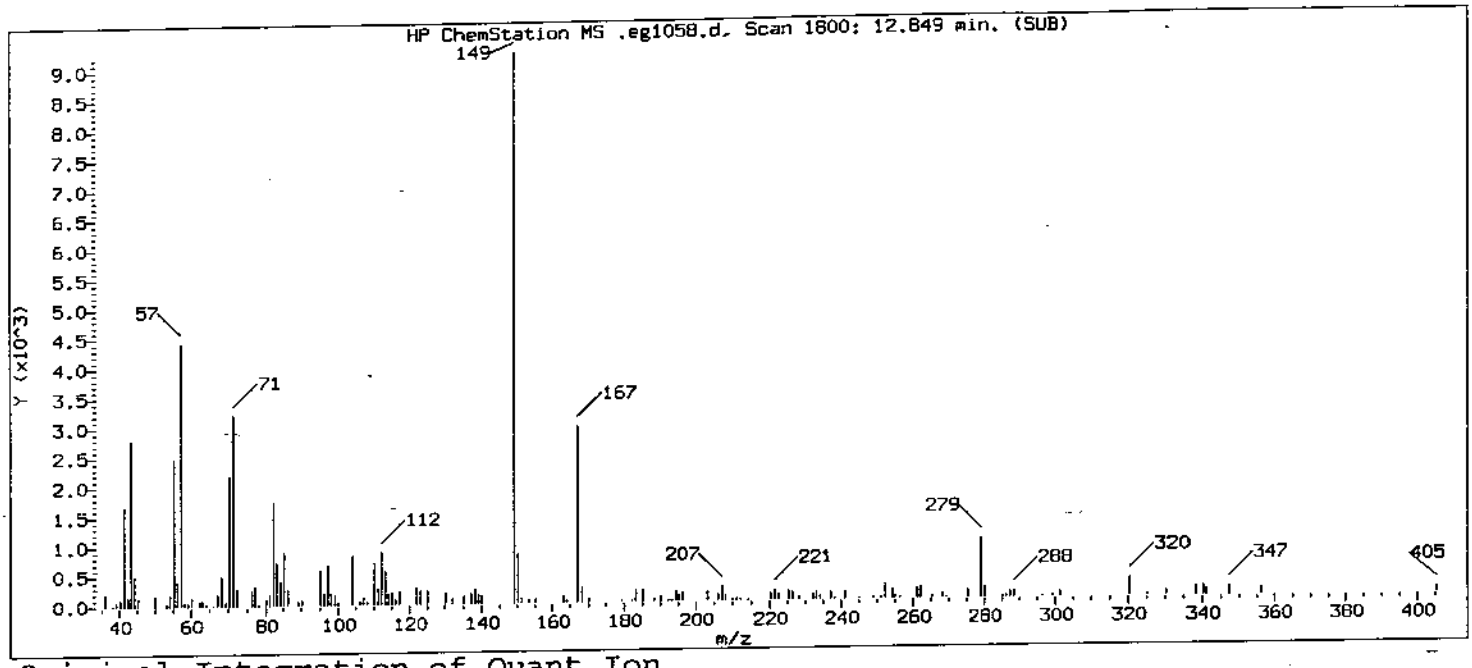
Analyst responsible for change: [signature] 07/25/11

GC/MS audit/management approval: [signature] Mark A. Ratcliff Senior Specialist JUL 25 2011

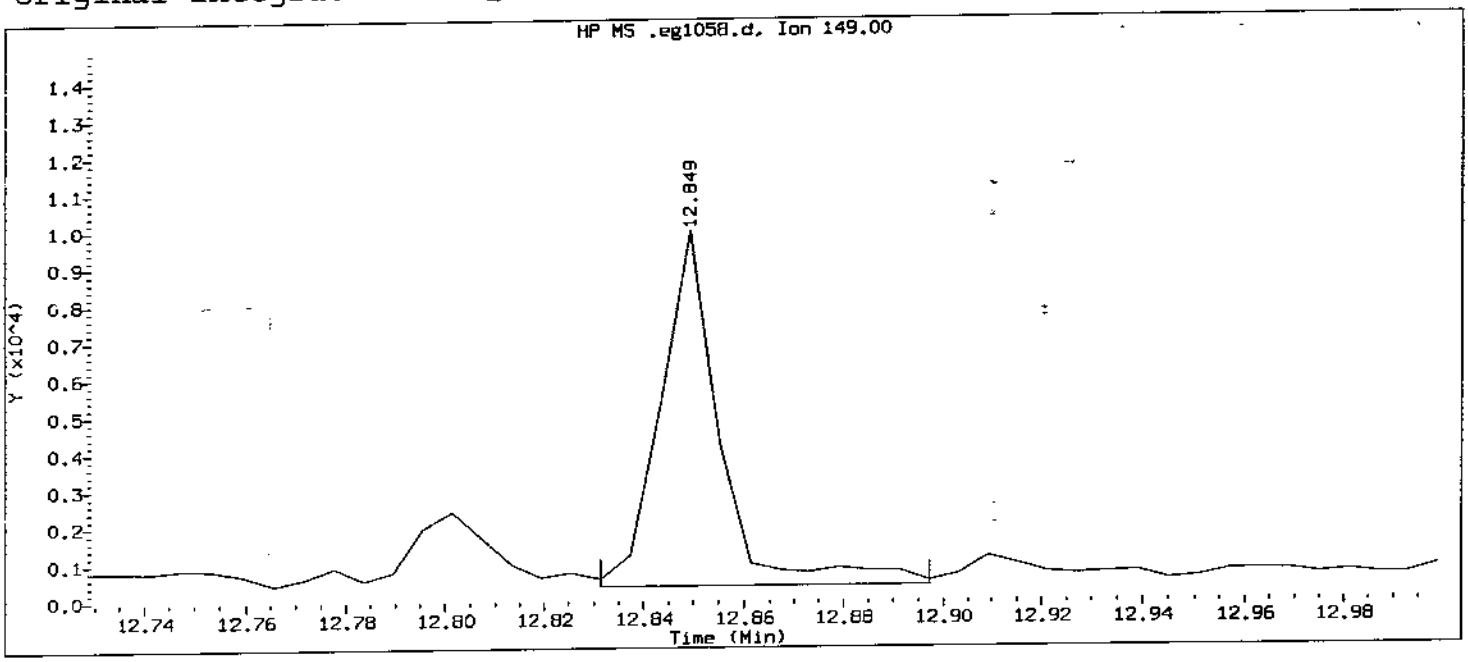
USF03 0286

Manual Integration Report for data file /chem/HP09572.i/11jul24.b/eg1058.d, generated on 07/24/2011 at 14:20

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul24.b/eg1058.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 12:44 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: all1
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 13:04 Automation

Sample Name: XXXXX Lab Sample ID: 6339368

Compound Number	: 169
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1800
Retention Time (minutes)	: 12.849
Quant Ion	: 149
Area	: 7889
Concentration (ng/ul)	: 0.7772
Integration start scan	: 1796 Integration stop scan: 1807
Y at integration start	: 360 Y at integration end: 360

USF03 02877

Original Integration Report for data file /chem/HP09572.i/11jul24.b/eg1058.d, generated on 07/24/2011 at 14:20

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339370

Data file: /chem/HP09572.i/11jul24.b/eg1059.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 13:09 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:27 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.784(0.000)	619	152.0	127434(3)	40.00	
53) Naphthalene-d8	7.034(0.000)	828	136.0	584166(1)	40.00	
103) Acenaphthene-d10	8.751(0.000)	1115	164.0	380218(2)	40.00	
140) Phenanthrene-d10	10.193(0.006)	1356	188.0	651013(1)	40.00	
166) Chrysene-d12	12.783(0.006)	1789	240.0	530771(-18)	40.00	
177) Perylene-d12	14.201(0.006)	2026	264.0	451507(-22)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.335(0.000)	82	551606	81.555	82%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.105(0.000)	172	949337	79.241	79%		67 - 115
157) Terphenyl-d14	(5)	11.772(-0.001)	244	1086736	98.106	98%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)				ND	ND			0.50
69) 2-Methylnaphthalene	(2)				ND	ND			0.50
71) 1-Methylnaphthalene	(2)				ND	ND			0.50
92) Dimethylphthalate	(3)				ND	ND			0.50
100) Acenaphthylene	(3)				ND	ND			0.50
106) Acenaphthene	(3)				ND	ND			0.50
118) Diethylphthalate	(3)				ND	ND			0.50
119) Fluorene	(3)				ND	ND			0.50
141) Phenanthrene	(4)				ND	ND			0.50
143) Anthracene	(4)				ND	ND			0.50
148) Di-n-butylphthalate	(4)				ND	ND			0.50
153) Fluoranthene	(4)				ND	ND			0.50
155) Pyrene	(5)				ND	ND			0.50
162) Butylbenzylphthalate	(5)				ND	ND			0.50
164) Benzo(a)anthracene	(5)				ND	ND			0.50
168) Chrysene	(5)				ND	ND			0.50
169) bis(2-Ethylhexyl)phthalate	(5)				ND	ND			0.50
172) Di-n-octylphthalate	(6)				ND	ND			0.50
173) Benzo(b)fluoranthene	(6)				ND	ND			0.50
175) Benzo(k)fluoranthene	(6)				ND	ND			0.50
176) Benzo(a)pyrene	(6)				ND	ND			0.50
185) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			0.50
187) Dibenz(a,h)anthracene	(6)				ND	ND			0.50
188) Benzo(g,h,i)perylene	(6)				ND	ND			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0208

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339370

Data file: /chem/HP09572.i/11jul24.b/eg1059.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 13:09 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:27 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul

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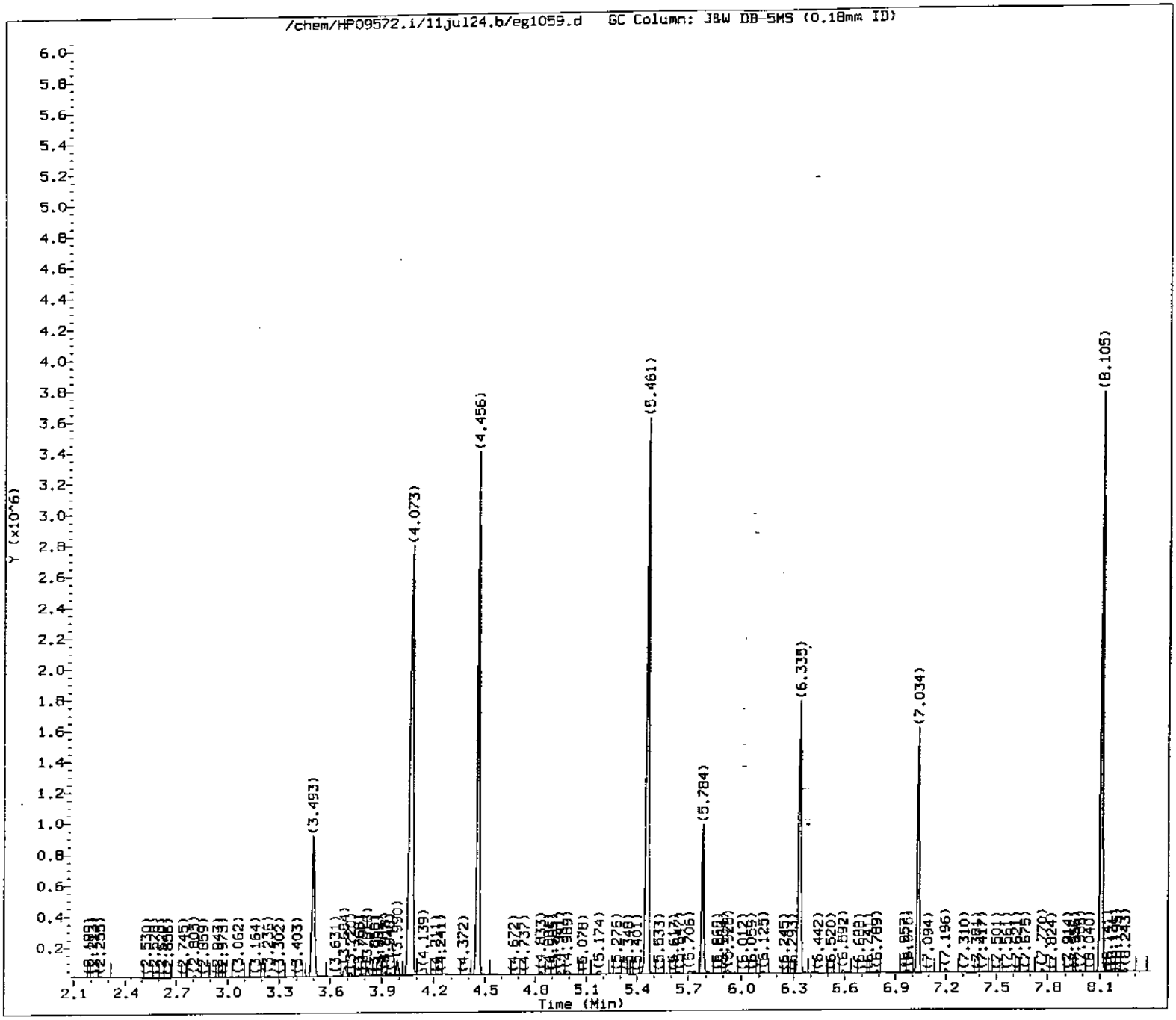
Total number of targets = 24

Comments:

Analyst: Mark A. Ratcliff Senior Specialist Date: 07/27/11
Auditor: Date:

USF03 0289



Quant Report

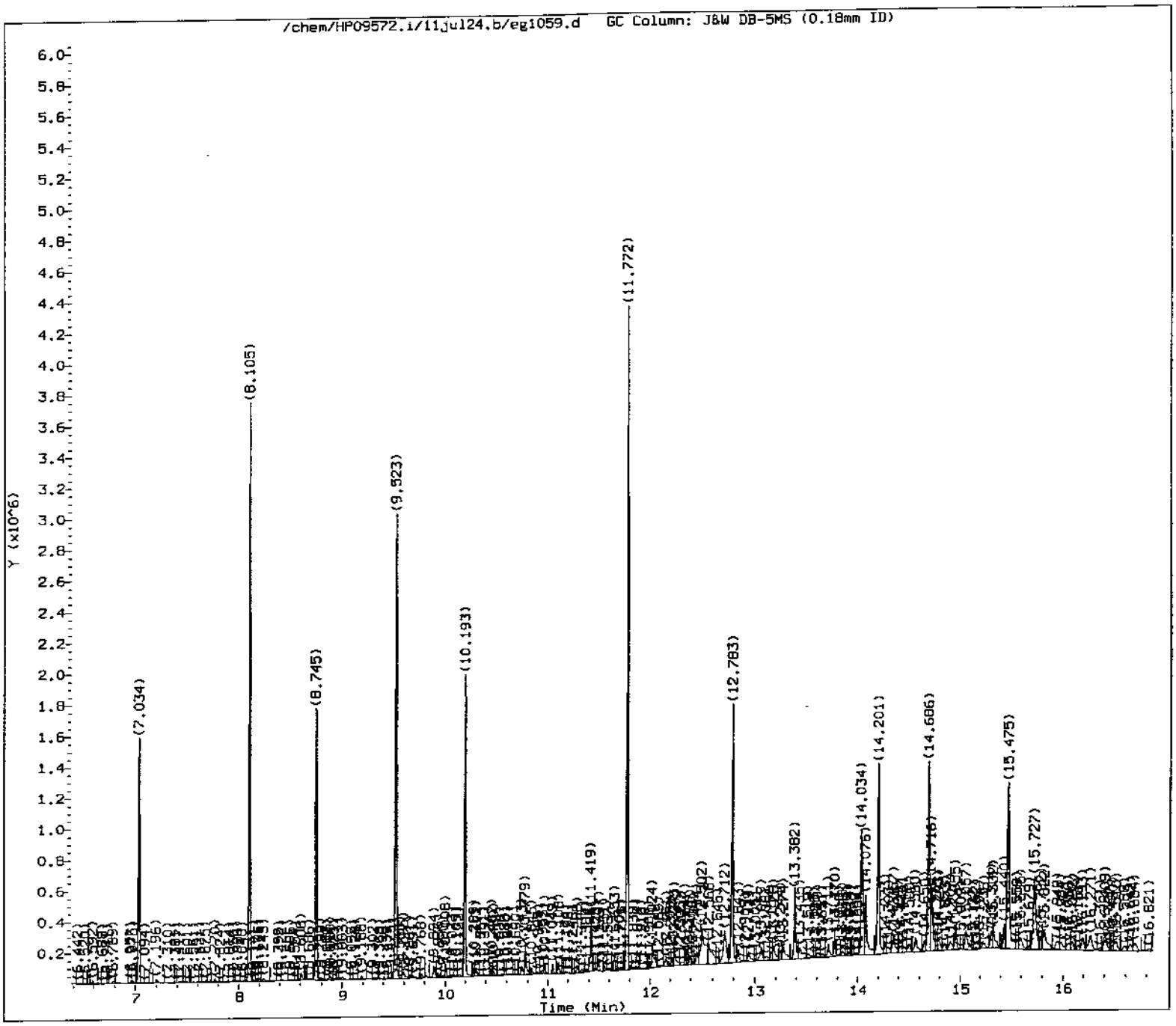
Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1059.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 13:09 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 14:23 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339370

USF03 0218



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1059.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 13:09 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 14:23 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339370

USF03 0211

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1059.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 13:09 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 14:23 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339370

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27) 1,4-Dichlorobenzene-d4	(1)	5.784	152	127434	40.0000
53) Naphthalene-d8	(2)	7.034	136	584166	40.0000
103) Acenaphthene-d10	(3)	8.751	164	380218	40.0000
140) Phenanthrene-d10	(4)	10.193	188	651013	40.0000
166) Chrysene-d12	(5)	12.783	240	530771	40.0000
177) Perylene-d12	(6)	14.201	264	451507	40.0000
42) Nitrobenzene-d5	(2)	6.335	82	551606	81.5549
79) 2-Fluorobiphenyl	(3)	8.105	172	949337	79.2413
157) Terphenyl-d14	(5)	11.772	244	1086736	98.1056

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0212

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339372

Data file: /chem/HP09572.i/11jul24.b/eg1060.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 13:33 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:28 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.2 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.784(0.000)	619	152.0	131910(6)	40.00	
53) Naphthalene-d8	7.035(0.000)	828	136.0	618647(7)	40.00	
103) Acenaphthene-d10	8.751(0.000)	1115	164.0	407828(9)	40.00	
140) Phenanthrene-d10	10.193(0.006)	1356	188.0	686974(6)	40.00	
166) Chrysene-d12	12.783(0.006)	1789	240.0	558458(-13)	40.00	
177) Perylene-d12	14.201(0.006)	2026	264.0	456961(-21)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.335(0.000)	82	577079	80.566	81%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.105(0.000)	172	983180	76.510	77%		67 - 115
157) Terphenyl-d14	(5)	11.772(-0.001)	244	1096445	94.075	94%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)					ND	ND			0.50
69) 2-Methylnaphthalene	(2)					ND	ND			0.50
71) 1-Methylnaphthalene	(2)					ND	ND			0.50
92) Dimethylphthalate	(3)					ND	ND			0.50
100) Acenaphthylene	(3)					ND	ND			0.50
106) Acenaphthene	(3)					ND	ND			0.50
118) Diethylphthalate	(3)					ND	ND			0.50
119) Fluorene	(3)					ND	ND			0.50
141) Phenanthrene	(4)					ND	ND			0.50
143) Anthracene	(4)					ND	ND			0.50
148) Di-n-butylphthalate	(4)					ND	ND			0.50
153) Fluoranthene	(4)					ND	ND			0.50
155) Pyrene	(5)					ND	ND			0.50
162) Butylbenzylphthalate	(5)					ND	ND			0.50
164) Benzo(a)anthracene	(5)					ND	ND			0.50
168) Chrysene	(5)					ND	ND			0.50
169) bis(2-Ethylhexyl)phthalate	(5)					ND	ND			0.50
172) Di-n-octylphthalate	(6)					ND	ND			0.50
173) Benzo(b)fluoranthene	(6)					ND	ND			0.50
175) Benzo(k)fluoranthene	(6)					ND	ND			0.50
176) Benzo(a)pyrene	(6)					ND	ND			0.50
185) Indeno(1,2,3-cd)pyrene	(6)					ND	ND			0.50
187) Dibenz(a,h)anthracene	(6)					ND	ND			0.50
188) Benzo(g,h,i)perylene	(6)					ND	ND			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0213

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339372

Data file: /chem/HP09572.i/11jul24.b/eg1060.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 13:33 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:28 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.2 g Final Extract Volume (Vt): 1000 ul

THIS SPACE WAS LEFT BLANK INTENTIONALLY

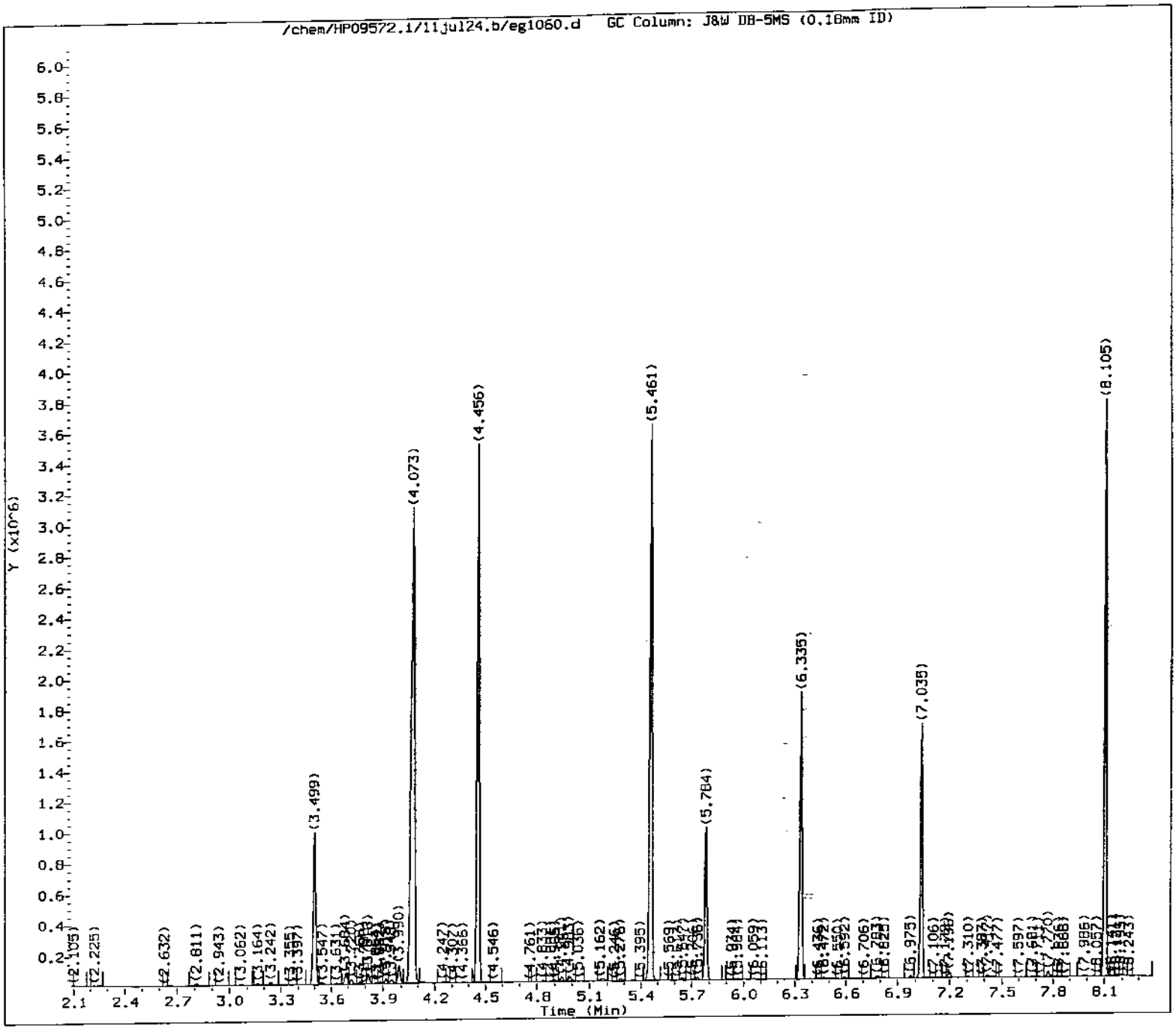
Total number of targets = 24

Comments:

Analyst: Date: 07/27/11
Auditor: Date:

Mark A. Ratcliff
Senior Specialist

JUL 27 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1060.d
Injection date and time: 24-JUL-2011 13:33

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 11:45

Sublist used: URSsoil

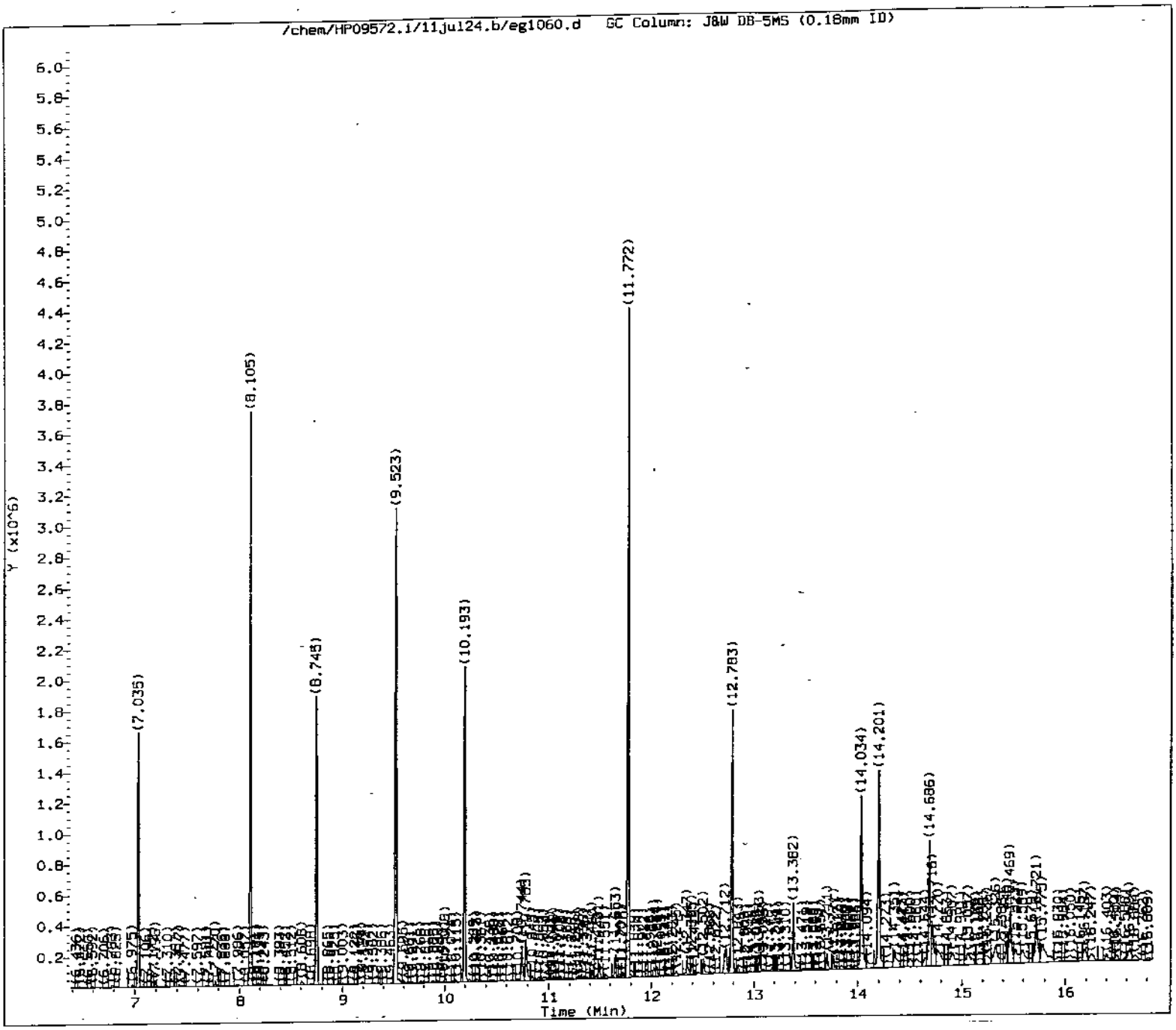
Date, time and analyst ID of latest file update: 24-Jul-2011 14:24 lmh00956

Sample Name: XXXXX

Lab Sample ID: 6339372

USP83 8215

lmh 7/27/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1060.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 13:33 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 14:24 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339372

USPA3 8216

07/27/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1060.d
Injection date and time: 24-JUL-2011 13:33

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 14:24 lmh00956

Sublist used: URSsoil

Sample Name: XXXXX

Lab Sample ID: 6339372

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27) 1,4-Dichlorobenzene-d4	(1)	5.784	152	131910	40.0000
53) Naphthalene-d8	(2)	7.035	136	618647	40.0000
103) Acenaphthene-d10	(3)	8.751	164	407828	40.0000
140) Phenanthrene-d10	(4)	10.193	188	686974	40.0000
166) Chrysene-d12	(5)	12.783	240	558458	40.0000
177) Perylene-d12	(6)	14.201	264	456961	40.0000
42) Nitrobenzene-d5	(2)	6.335	82	577079	80.5656
79) 2-Fluorobiphenyl	(3)	8.105	172	983180	76.5103
157) Terphenyl-d14	(5)	11.772	244	1096445	94.0748

M = Compound was manually integrated.

A = User selected an alternate hit

USF03 8217

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339374

Data file: /chem/HP09572.i/11jul24.b/eg1061.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 13:58 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:28 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.784 (0.000)	619	152.0	132652 (7)	40.00	
53) Naphthalene-d8	7.034 (0.000)	828	136.0	625860 (8)	40.00	
103) Acenaphthene-d10	8.751 (0.000)	1115	164.0	410584 (10)	40.00	
140) Phenanthrene-d10	10.199 (0.000)	1357	188.0	678009 (5)	40.00	
166) Chrysene-d12	12.783 (0.006)	1789	240.0	527710 (-18)	40.00	
177) Perylene-d12	14.201 (0.006)	2026	264.0	444663 (-23)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.335 (0.000)	82	603855	83.332	83%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.105 (0.000)	172	1021686	78.973	79%		67 - 115
157) Terphenyl-d14	(5)	11.772 (-0.001)	244	1064438	96.650	97%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)				ND	ND			0.50
69) 2-Methylnaphthalene	(2)				ND	ND			0.50
71) 1-Methylnaphthalene	(2)				ND	ND			0.50
92) Dimethylphthalate	(3)				ND	ND			0.50
100) Acenaphthylene	(3)				ND	ND			0.50
106) Acenaphthene	(3)				ND	ND			0.50
118) Diethylphthalate	(3)				ND	ND			0.50
119) Fluorene	(3)				ND	ND			0.50
141) Phenanthrene	(4)				ND	ND			0.50
143) Anthracene	(4)				ND	ND			0.50
148) Di-n-butylphthalate	(4)				ND	ND			0.50
153) Fluoranthene	(4)				ND	ND			0.50
155) Pyrene	(5)				ND	ND			0.50
162) Butylbenzylphthalate	(5)				ND	ND			0.50
164) Benzo(a)anthracene	(5)				ND	ND			0.50
168) Chrysene	(5)				ND	ND			0.50
169) bis(2-Ethylhexyl)phthalate	(5)	12.849 (0.000)	149	6125	0.611	20.16			0.50
172) Di-n-octylphthalate	(6)				ND	ND			0.50
173) Benzo(b)fluoranthene	(6)				ND	ND			0.50
175) Benzo(k)fluoranthene	(6)				ND	ND			0.50
176) Benzo(a)pyrene	(6)				ND	ND			0.50
185) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			0.50
187) Dibenz(a,h)anthracene	(6)				ND	ND			0.50
188) Benzo(g,h,i)perylene	(6)				ND	ND			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0210

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339374

Data file: /chem/HP09572.i/11jul24.b/eg1061.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 13:58 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:28 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

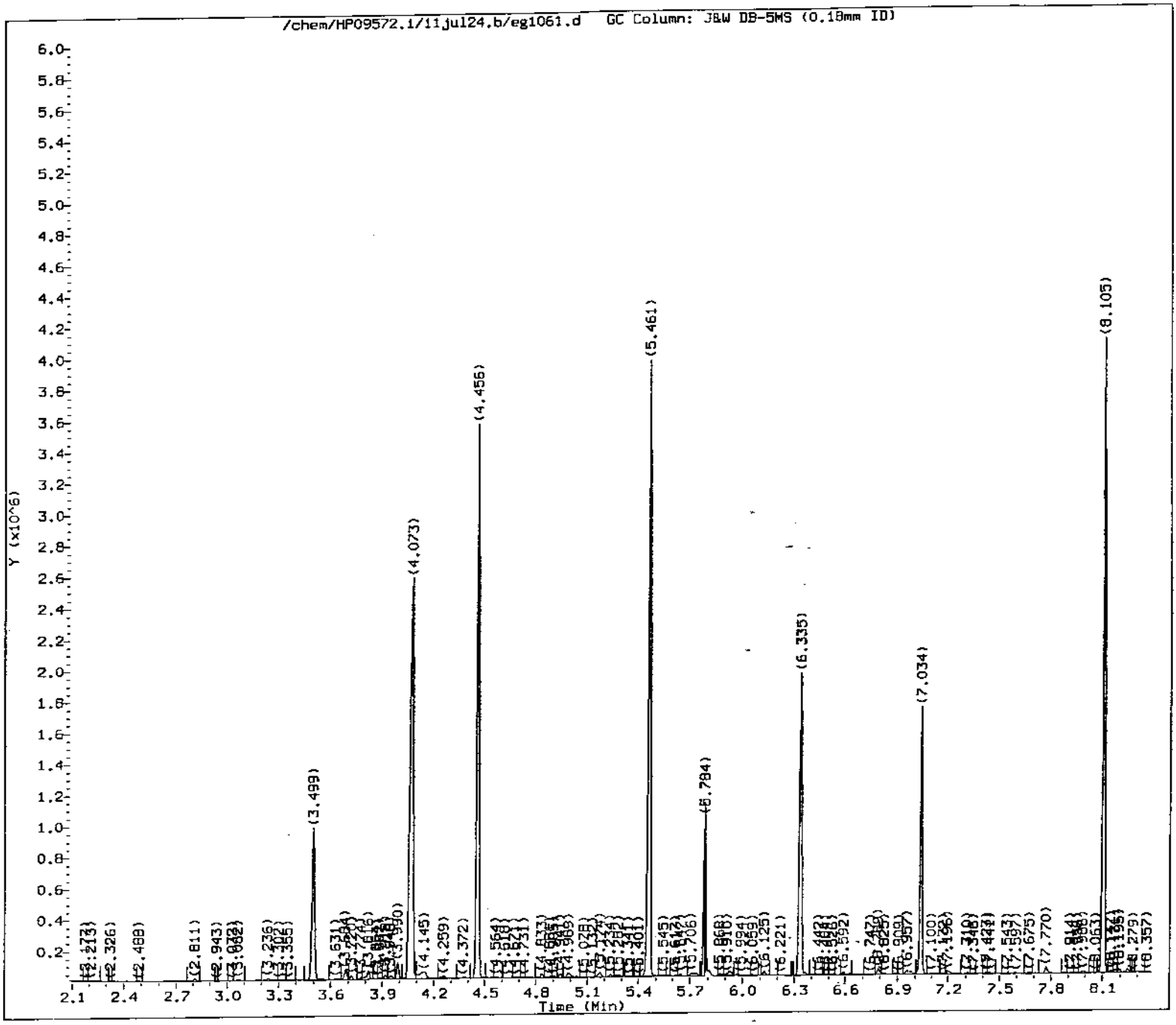
Comments: _____

Analyst: _____ Date: 07/27/11
Auditor: _____ Date: _____

Mark A. Ratcliff
Senior Specialist

JUL 27 2011

USF03 0219



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1061.d
Injection date and time: 24-JUL-2011 13:58

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 11:45

Sublist used: URSsoil

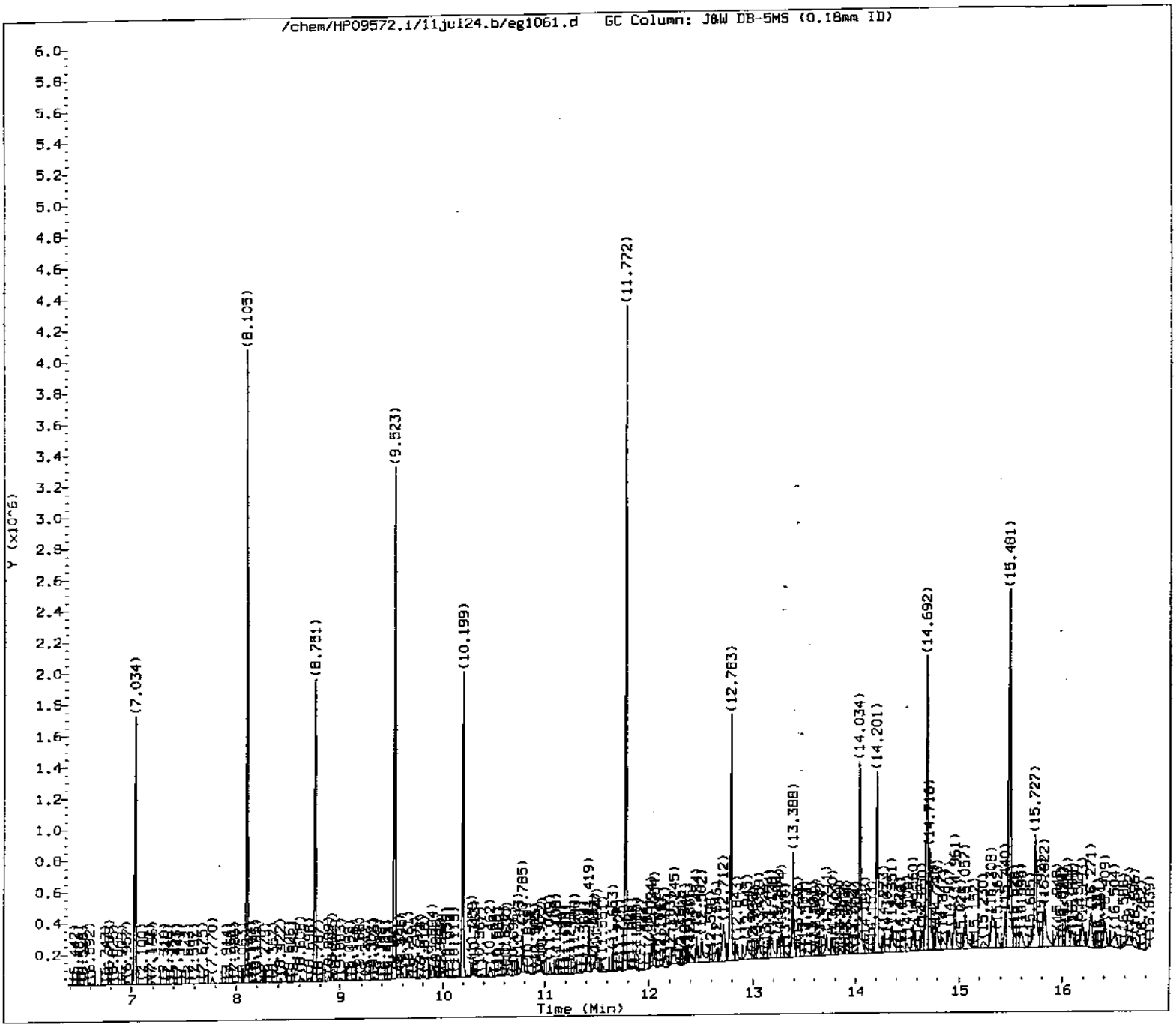
Date, time and analyst ID of latest file update: 24-Jul-2011 14:26 lmh00956

Sample Name: XXXXX

Lab Sample ID: 6339374

USF03 8220

lmh 07/27/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1061.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 13:58 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 14:26 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339374

USF03 0221

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1061.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 13:58 Analyst ID: lmh00956

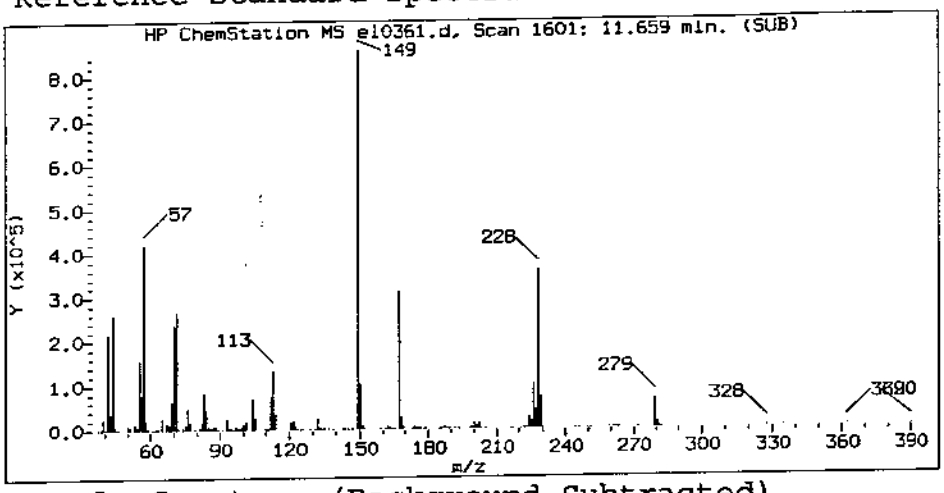
Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 14:26 lmh00956

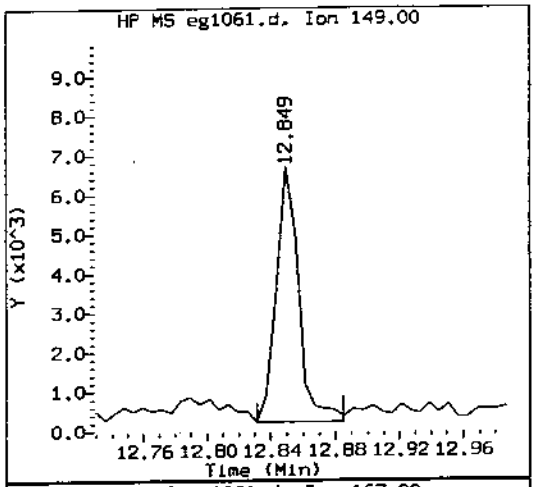
Sample Name: XXXXX Lab Sample ID: 6339374

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27) 1,4-Dichlorobenzene-d4	(1)	5.784	152	132652	40.0000
53) Naphthalene-d8	(2)	7.034	136	625860	40.0000
103) Acenaphthene-d10	(3)	8.751	164	410584	40.0000
140) Phenanthrene-d10	(4)	10.199	188	678009	40.0000
166) Chrysene-d12	(5)	12.783	240	527710	40.0000
169) bis(2-Ethylhexyl)phthalate	(5)	12.849	149	6125	0.6109
177) Perylene-d12	(6)	14.201	264	444663	40.0000
42) Nitrobenzene-d5	(2)	6.335	82	603855	83.3322
79) 2-Fluorobiphenyl	(3)	8.105	172	1021686	78.9731
157) Terphenyl-d14	(5)	11.772	244	1064438	96.6500

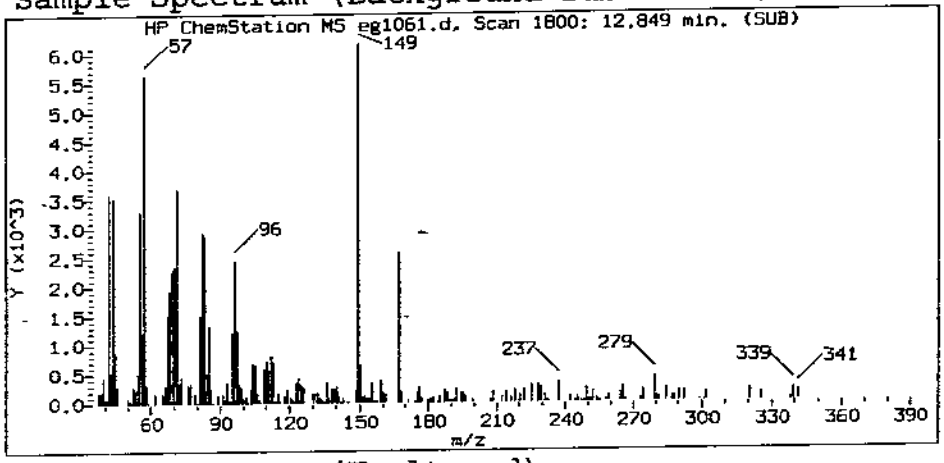
M = Compound was manually integrated. A = User selected an alternate hit

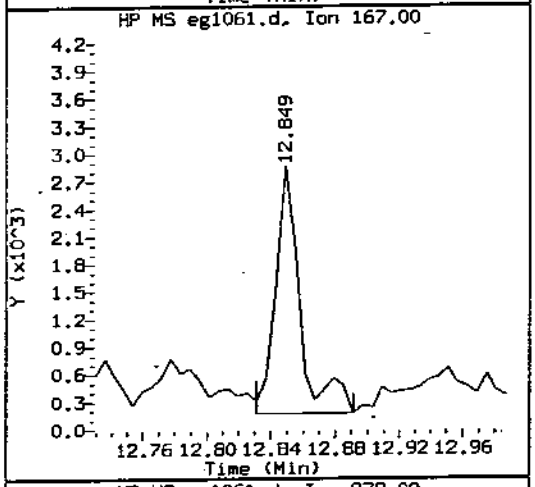
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



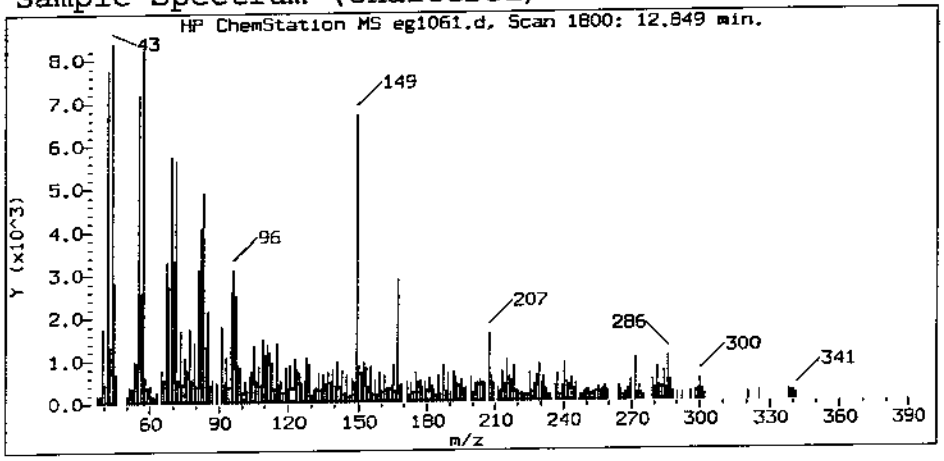


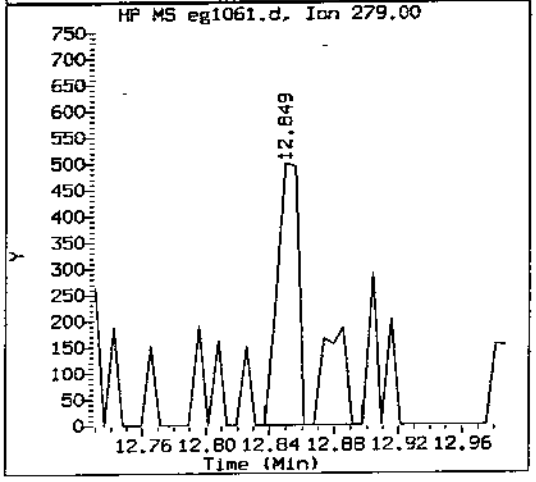
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul24.b/eg1061.d
Injection date and time: 24-JUL-2011 13:58

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 11:45

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 24-Jul-2011 14:19 lmh00956

Sample Name: XXXXX

Lab Sample ID: 6339374

Compound Number	: 169
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1800
Retention Time (minutes)	: 12.849
Quant Ion	: 149.0
Area (flag)	: 6125
Concentration (ng/ul)	: 0.6109

USP63 8223

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339375

Data file: /chem/HP09572.i/11jul24.b/eg1062.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 14:23 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:28 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.784	(0.000)	619	152.0	128955	(4)	40.00	
53) Naphthalene-d8	7.035	(0.000)	828	136.0	610420	(5)	40.00	
103) Acenaphthene-d10	8.752	(0.000)	1115	164.0	404463	(8)	40.00	
140) Phenanthrene-d10	10.199	(0.000)	1357	188.0	680538	(5)	40.00	
166) Chrysene-d12	12.784	(0.006)	1789	240.0	536718	(-17)	40.00	
177) Perylene-d12	14.201	(0.006)	2026	264.0	439787	(-24)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.335	(0.000)	82	594823	84.162	84%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.105	(0.000)	172	1011294	79.353	79%		67 - 115
157) Terphenyl-d14	(5)	11.773	(-0.001)	244	1099856	98.190	98%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)					ND	ND			0.50
69) 2-Methylnaphthalene	(2)					ND	ND			0.50
71) 1-Methylnaphthalene	(2)					ND	ND			0.50
92) Dimethylphthalate	(3)					ND	ND			0.50
100) Acenaphthylene	(3)					ND	ND			0.50
106) Acenaphthene	(3)					ND	ND			0.50
118) Diethylphthalate	(3)					ND	ND			0.50
119) Fluorene	(3)					ND	ND			0.50
141) Phenanthrene	(4)					ND	ND			0.50
143) Anthracene	(4)					ND	ND			0.50
148) Di-n-butylphthalate	(4)					ND	ND			0.50
153) Fluoranthene	(4)					ND	ND			0.50
155) Pyrene	(5)					ND	ND			0.50
162) Butylbenzylphthalate	(5)					ND	ND			0.50
164) Benzo(a)anthracene	(5)					ND	ND			0.50
168) Chrysene	(5)					ND	ND			0.50
169) bis(2-Ethylhexyl)phthalate	(5)					ND	ND			0.50
172) Di-n-octylphthalate	(6)					ND	ND			0.50
173) Benzo(b)fluoranthene	(6)					ND	ND			0.50
175) Benzo(k)fluoranthene	(6)					ND	ND			0.50
176) Benzo(a)pyrene	(6)					ND	ND			0.50
185) Indeno(1,2,3-cd)pyrene	(6)					ND	ND			0.50
187) Dibenz(a,h)anthracene	(6)					ND	ND			0.50
188) Benzo(g,h,i)perylene	(6)					ND	ND			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0224

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339375

Data file: /chem/HP09572.i/11jul24.b/eg1062.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 14:23 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:28 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul

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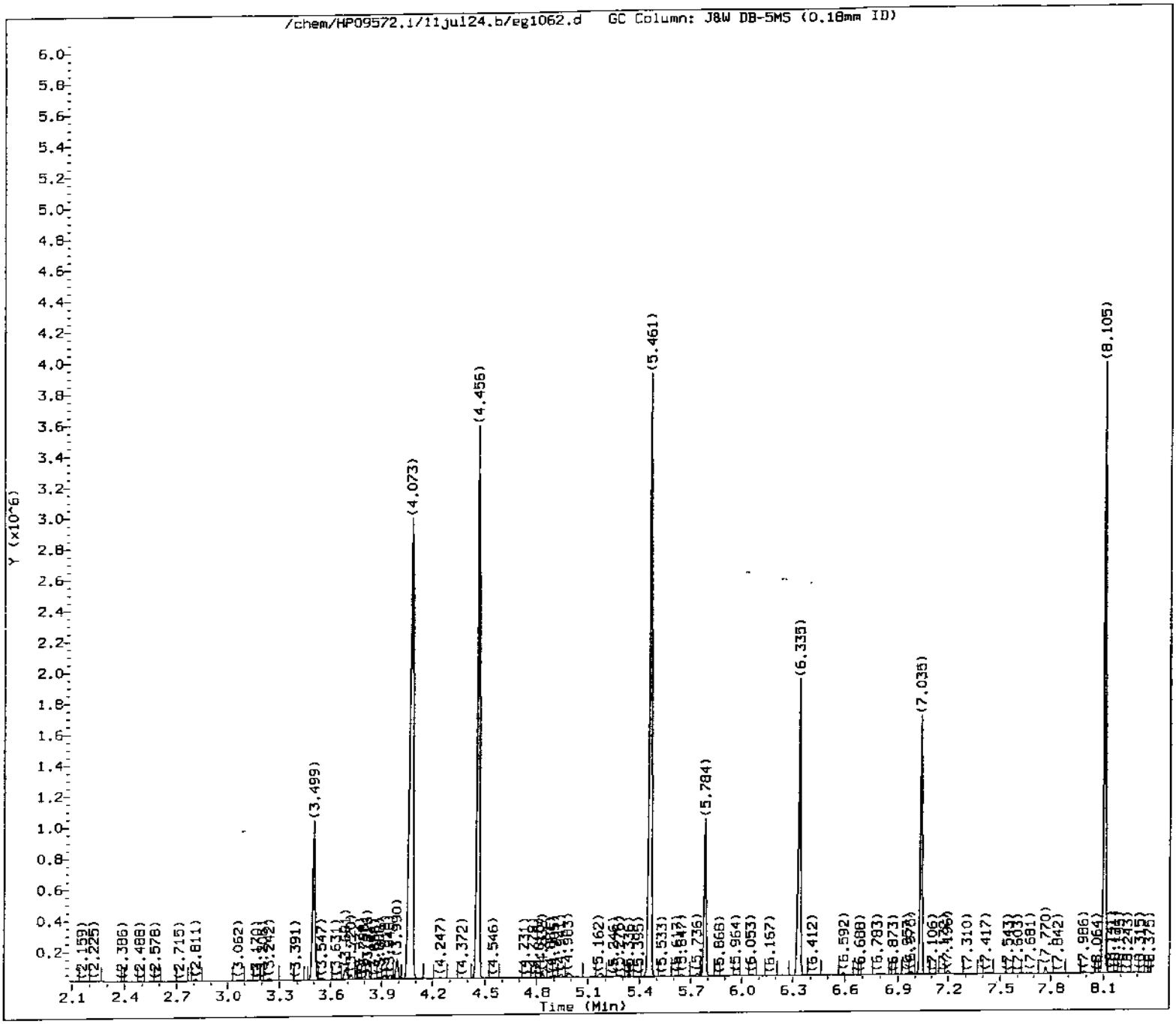
Total number of targets = 24

Comments:

Analyst: Mark A. Ratcliff Date: 07/27/11
Senior Specialist
Auditor: Date:

JUL 27 2011

USF03 8225



Quant Report

Target Revision 3.5

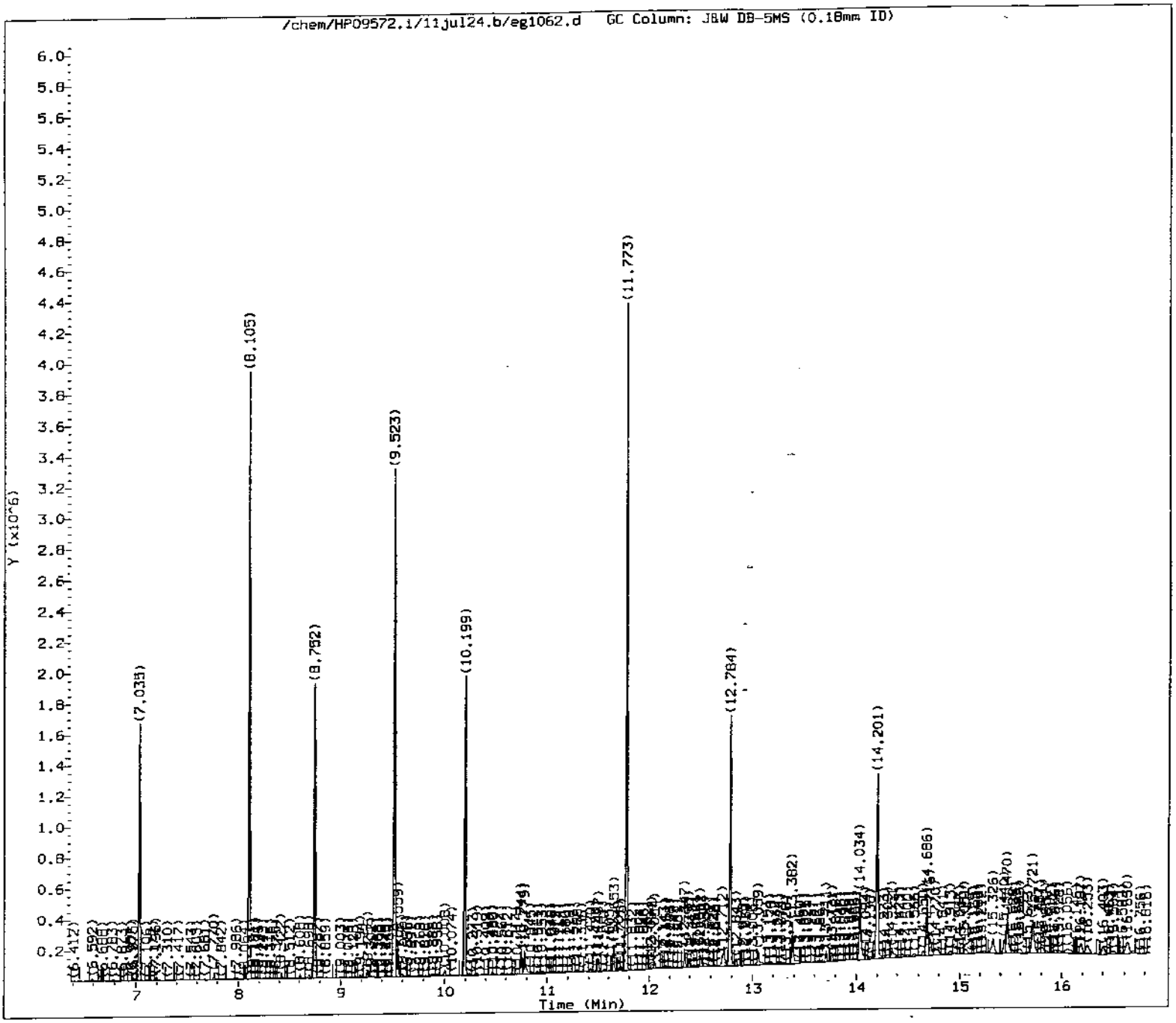
Data File: /chem/HP09572.i/11jul24.b/eg1062.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 14:23 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 25-Jul-2011 00:34 bkg00522

Sample Name: XXXXX Lab Sample ID: 6339375

USF03 8226

BG
7-26-11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1062.d
Injection date and time: 24-JUL-2011 14:23

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 11:45

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 25-Jul-2011 00:34 bkg00522

Sample Name: XXXXX

Lab Sample ID: 6339375

BG 7-15-11

USF03 0227

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1062.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 14:23 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 25-Jul-2011 00:34 bkg00522

Sample Name: XXXXX Lab Sample ID: 6339375

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.784	152	128955	40.0000
53)	Naphthalene-d8	(2)	7.035	136	610420	40.0000
103)	Acenaphthene-d10	(3)	8.752	164	404463	40.0000
140)	Phenanthrene-d10	(4)	10.199	188	680538	40.0000
166)	Chrysene-d12	(5)	12.784	240	536718	40.0000
177)	Perylene-d12	(6)	14.201	264	439787	40.0000
42)	Nitrobenzene-d5	(2)	6.335	82	594823	84.1621
79)	2-Fluorobiphenyl	(3)	8.105	172	1011294	79.3529
157)	Terphenyl-d14	(5)	11.773	244	1099856	98.1899

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0226

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339377

Data file: /chem/HP09572.i/11jul23.b/eg1025.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 17:55 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:16 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.4 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.808	(0.000)	623	152.0	142995	(3)	40.00	
53) Naphthalene-d8	7.053	(0.012)	831	136.0	677485	(2)	40.00	
103) Acenaphthene-d10	8.770	(0.006)	1118	164.0	433273	(4)	40.00	
140) Phenanthrene-d10	10.217	(0.012)	1360	188.0	669427	(0)	40.00	
166) Chrysene-d12	12.808	(0.018)	1793	240.0	487116	(-21)	40.00	
177) Perylene-d12	14.231	(0.006)	2031	264.0	418959	(-23)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.359	(-0.001)	82	625620	79.757	80%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.123	(0.000)	172	1054585	77.247	77%		67 - 115
157) Terphenyl-d14	(5)	11.797	(-0.001)	244	1020129	100.346	100%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)					ND	ND			0.50
69) 2-Methylnaphthalene	(2)					ND	ND			0.50
71) 1-Methylnaphthalene	(2)					ND	ND			0.50
92) Dimethylphthalate	(3)					ND	ND			0.50
100) Acenaphthylene	(3)					ND	ND			0.50
106) Acenaphthene	(3)					ND	ND			0.50
118) Diethylphthalate	(3)					ND	ND			0.50
119) Fluorene	(3)					ND	ND			0.50
141) Phenanthrene	(4)					ND	ND			0.50
143) Anthracene	(4)					ND	ND			0.50
148) Di-n-butylphthalate	(4)					ND	ND			0.50
153) Fluoranthene	(4)					ND	ND			0.50
155) Pyrene	(5)					ND	ND			0.50
162) Butylbenzylphthalate	(5)					ND	ND			0.50
164) Benzo(a)anthracene	(5)					ND	ND			0.50
168) Chrysene	(5)					ND	ND			0.50
169) bis(2-Ethylhexyl)phthalate	(5)					ND	ND			0.50
172) Di-n-octylphthalate	(6)					ND	ND			0.50
173) Benzo(b)fluoranthene	(6)					ND	ND			0.50
175) Benzo(k)fluoranthene	(6)					ND	ND			0.50
176) Benzo(a)pyrene	(6)					ND	ND			0.50
185) Indeno(1,2,3-cd)pyrene	(6)					ND	ND			0.50
187) Dibenz(a,h)anthracene	(6)					ND	ND			0.50
188) Benzo(g,h,i)perylene	(6)					ND	ND			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 8229

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339377

Data file: /chem/HP09572.i/11jul23.b/eg1025.d Blank Data file reference:**/chem/HP09572.i/11jul23.b/eg1013.d**
Injection date and time: 23-JUL-2011 17:55 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:16 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: **URSsoil**
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.4 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

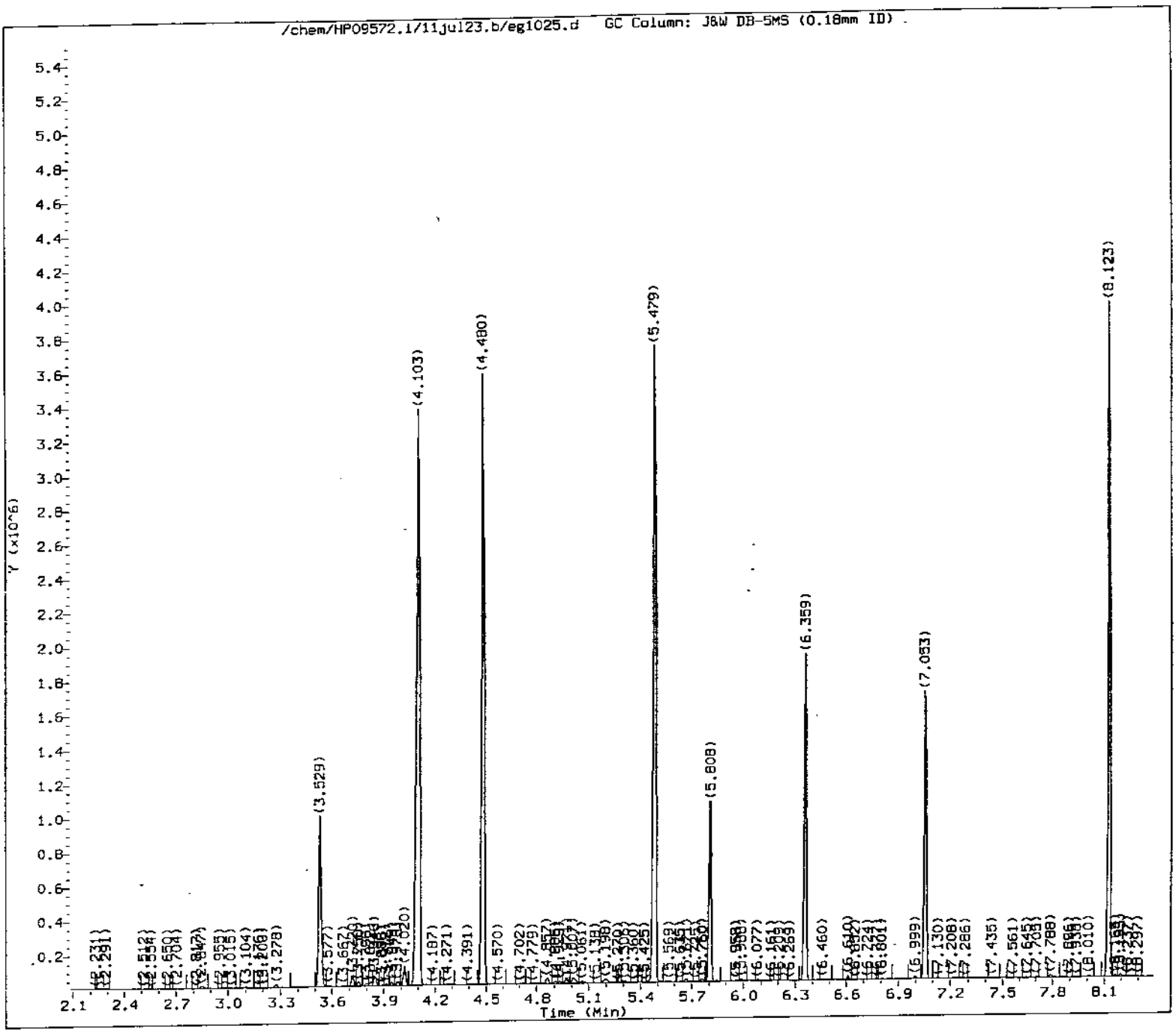
Comments: _____

Analyst: _____ Date: 07/27/11
Auditor: _____ Date: _____

Mark A. Ratcliff
Senior Specialist

JUL 27 2011

USTR3 0230



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1025.d
Injection date and time: 23-JUL-2011 17:55

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

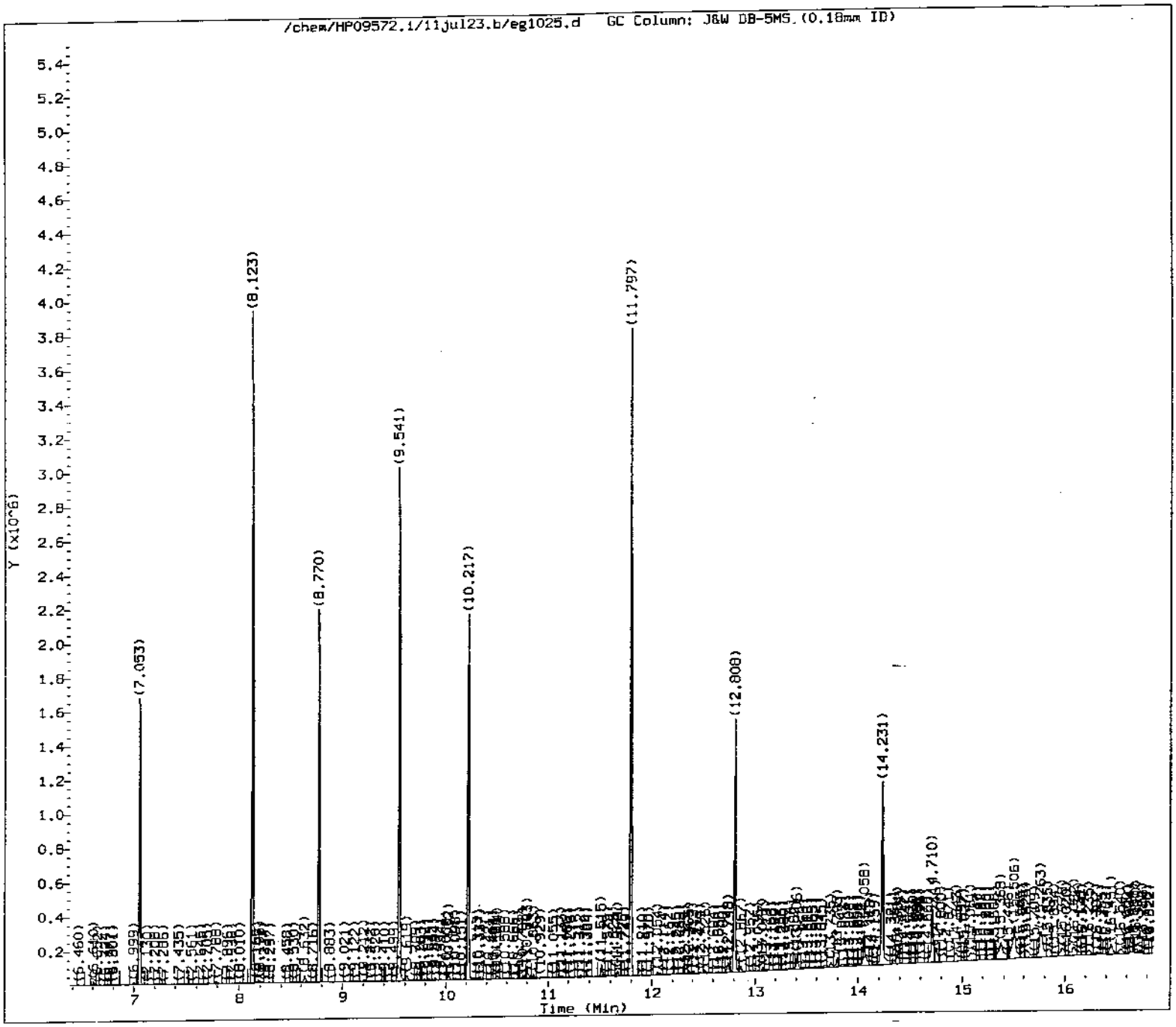
Sublist used: URSsoil

Date, time and analyst ID of latest file update: 24-Jul-2011 13:46 lmh00956

Sample Name: XXXXX

Lab Sample ID: 6339377

USP83 8231



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1025.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 17:55 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 24-Jul-2011 13:46 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339377

USF83 0232

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1025.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 17:55 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 24-Jul-2011 13:46 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339377

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.808	152	142995	40.0000
53)	Naphthalene-d8	(2)	7.053	136	677485	40.0000
103)	Acenaphthene-d10	(3)	8.770	164	433273	40.0000
140)	Phenanthrene-d10	(4)	10.217	188	669427	40.0000
166)	Chrysene-d12	(5)	12.808	240	487116	40.0000
177)	Perylene-d12	(6)	14.231	264	418959	40.0000
42)	Nitrobenzene-d5	(2)	6.359	82	625620	79.7569
79)	2-Fluorobiphenyl	(3)	8.123	172	1054585	77.2474
157)	Terphenyl-d14	(5)	11.797	244	1020129	100.3459

M = Compound was manually integrated. A = User selected an alternate hit

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339384

Data file: /chem/HP09572.i/11jul23.b/eg1017.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 14:06 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:15 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.808	(0.000)	623	152.0	147580	(6)	40.00	
53) Naphthalene-d8	7.059	(0.006)	832	136.0	679722	(3)	40.00	
103) Acenaphthene-d10	8.769	(0.006)	1118	164.0	456155	(9)	40.00	
140) Phenanthrene-d10	10.217	(0.012)	1360	188.0	802212	(20)	40.00	
166) Chrysene-d12	12.813	(0.012)	1794	240.0	716058	(16)	40.00	
177) Perylene-d12	14.231	(0.006)	2031	264.0	590486	(9)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.359	(0.000)	82	673199	85.540	86%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.129	(-0.001)	172	1151791	80.136	80%		67 - 115
157) Terphenyl-d14	(5)	11.796	(-0.001)	244	1390989	93.079	93%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)	7.076	(0.000)	128	80456	4.468	148.93			0.50
69) 2-Methylnaphthalene	(2)	7.758	(0.000)	142	54758	4.415	147.18			0.50
71) 1-Methylnaphthalene	(2)	7.848	(0.001)	142	49732	4.264	142.15			0.50
92) Dimethylphthalate	(3)	8.530	(0.001)	163	72890	4.923	164.09			0.50
100) Acenaphthylene	(3)	8.632	(0.001)	152	90117	4.649	154.98			0.50
106) Acenaphthene	(3)	8.799	(0.001)	153	56755	4.387	146.23			0.50
118) Diethylphthalate	(3)	9.218	(0.001)	149	72917	5.048	168.25			0.50
119) Fluorene	(3)	9.308	(0.000)	166	71391	4.533	151.11			0.50
141) Phenanthrene	(4)	10.241	(0.000)	178	108500	4.963	165.43			0.50
143) Anthracene	(4)	10.289	(0.001)	178	108540	4.893	163.09			0.50
148) Di-n-butylphthalate	(4)	10.821	(0.000)	149	123170	5.027	167.57			0.50
153) Fluoranthene	(4)	11.402	(-0.001)	202	110526	5.005	166.82			0.50
155) Pyrene	(5)	11.617	(0.000)	202	114509	5.062	168.75			0.50
162) Butylbenzylphthalate	(5)	12.287	(0.000)	149	50835	5.047	168.23			0.50
164) Benzo(a)anthracene	(5)	12.801	(0.000)	228	98881	5.017	167.25			0.50
168) Chrysene	(5)	12.837	(0.000)	228	96964	5.008	166.92			0.50
169) bis(2-Ethylhexyl)phthalate	(5)	12.873	(0.000)	149	72991	5.365	178.82			0.50
172) Di-n-octylphthalate	(6)	13.525	(0.000)	149	107622	8.651	288.37			0.50
173) Benzo(b)fluoranthene	(6)	13.860	(0.001)	252	85286	5.239	174.64			0.50
175) Benzo(k)fluoranthene	(6)	13.890	(0.001)	252	91535	5.044	168.12			0.50
176) Benzo(a)pyrene	(6)	14.171	(0.001)	252	80796	5.198	173.28			0.50
185) Indeno(1,2,3-cd)pyrene	(6)	15.290	(0.002)	276	77143	4.803	160.09			0.50
187) Dibenz(a,h)anthracene	(6)	15.320	(0.001)	278	67363	4.974	165.79			0.50
188) Benzo(g,h,i)perylene	(6)	15.595	(0.002)	276	67621	5.016	167.19			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0234

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Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339384

Data file: /chem/HP09572.i/11jul23.b/eg1017.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 14:06 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:15 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: **URSsoil**
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

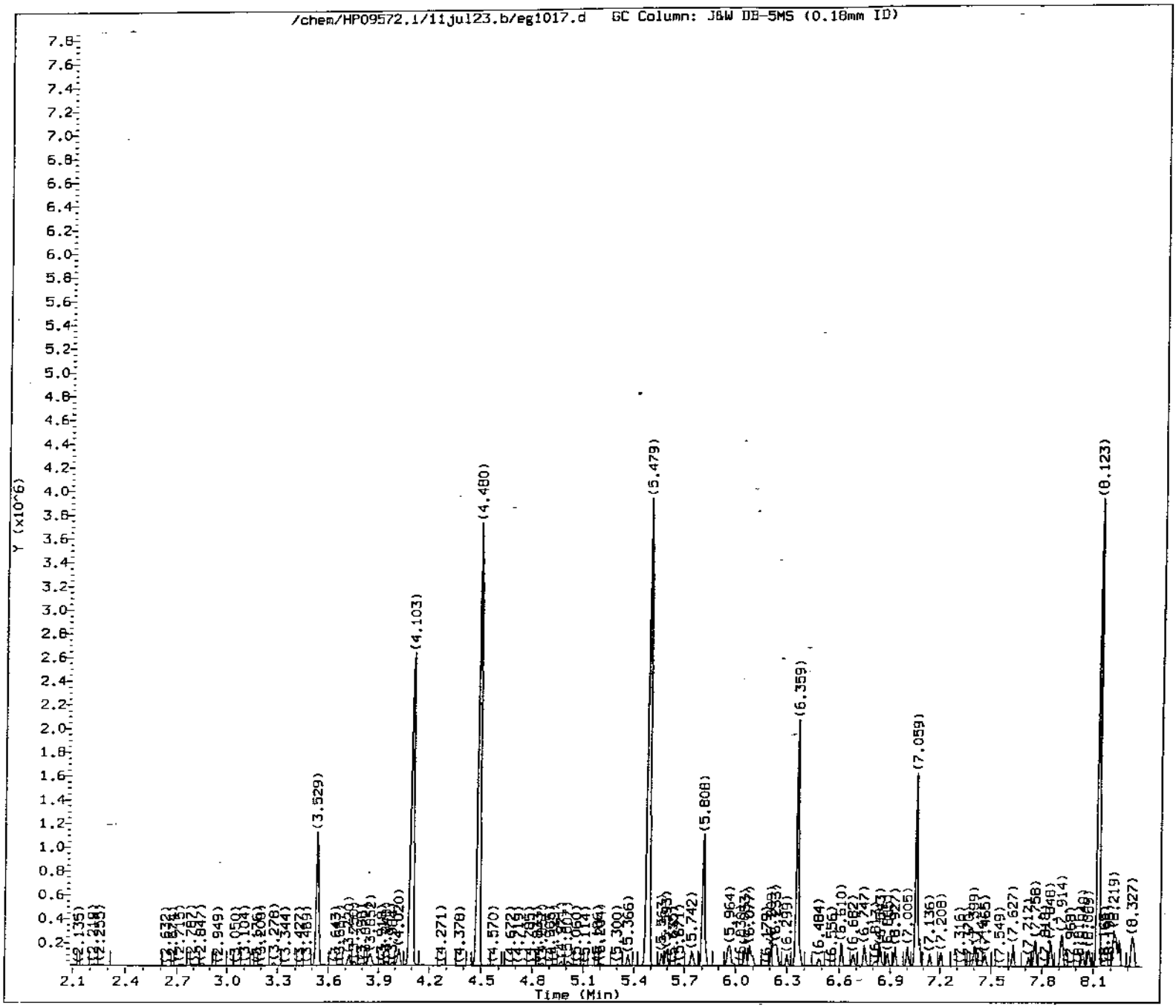
Comments:

Analyst: Date: 07/27/11
Auditor: Date:

Mark A. Ratcliff
Senior Specialist

JUL 27 2011

USF03 3235



Quant Report

Target Revision 3.5

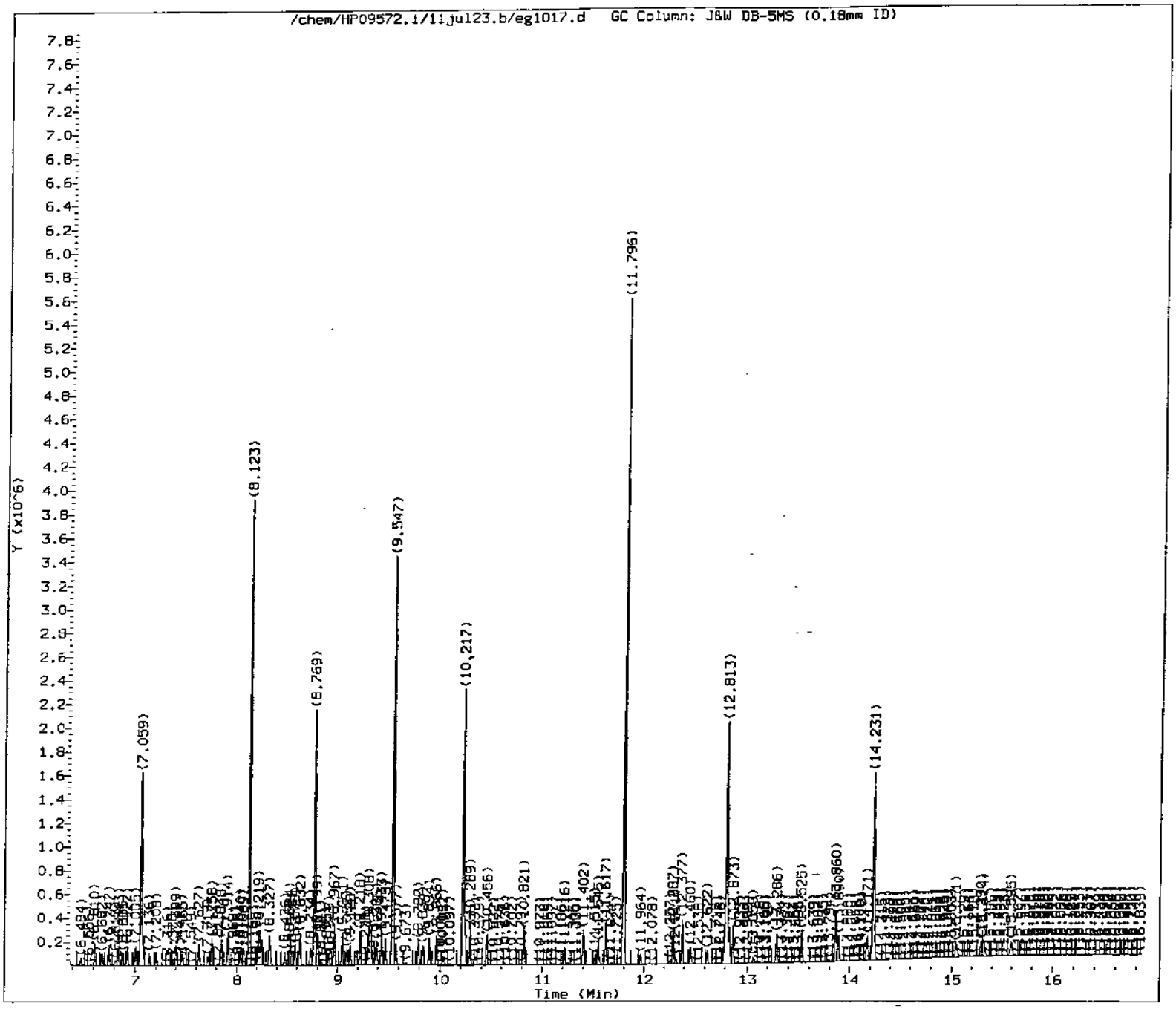
Data File: /chem/HP09572.i/11jul23.b/eg1017.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 14:06 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339384

USF03 8236

7/28/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1017.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 14:06 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339384

USF83 8237

lmh 07/23/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1017.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 14:06 Analyst ID: lmh00956

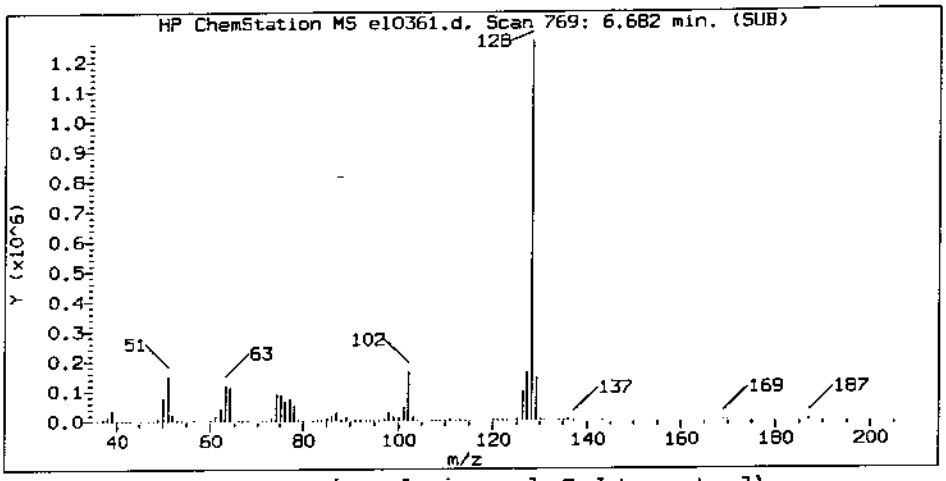
Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

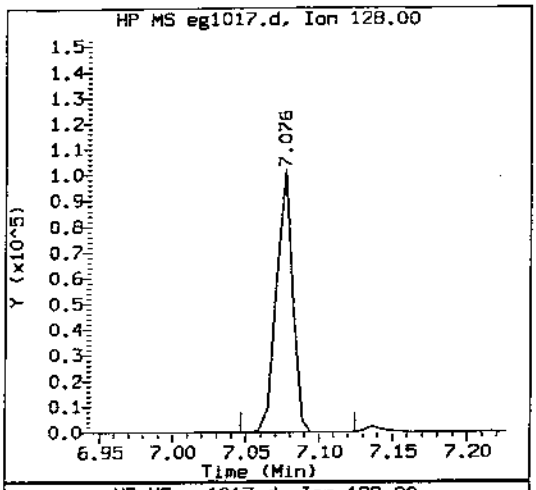
Sample Name: XXXXX Lab Sample ID: 6339384

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.808	152	147580	40.0000
53)	Naphthalene-d8	(2)	7.059	136	679722	40.0000
54)	Naphthalene	(2)	7.076	128	80456	4.4680
69)	2-Methylnaphthalene	(2)	7.758	142	54758	4.4154
71)	1-Methylnaphthalene	(2)	7.848	142	49732	4.2645
92)	Dimethylphthalate	(3)	8.530	163	72890	4.9227
100)	Acenaphthylene	(3)	8.632	152	90117	4.6493
103)	Acenaphthene-d10	(3)	8.769	164	456155	40.0000
106)	Acenaphthene	(3)	8.799	153	56755	4.3868
118)	Diethylphthalate	(3)	9.218	149	72917	5.0476
119)	Fluorene	(3)	9.308	166	71391	4.5333
140)	Phenanthrene-d10	(4)	10.217	188	802212	40.0000
141)	Phenanthrene	(4)	10.241	178	108500	4.9629
143)	Anthracene	(4)	10.289	178	108540	4.8926
148)	Di-n-butylphthalate	(4)	10.821	149	123170	5.0272
153)	Fluoranthene	(4)	11.402	202	110526	5.0047
155)	Pyrene	(5)	11.617	202	114509	5.0625
162)	Butylbenzylphthalate	(5)	12.287	149	50835	5.0468
164)	Benzo(a)anthracene	(5)	12.801	228	98881	5.0175
166)	Chrysene-d12	(5)	12.813	240	716058	40.0000
168)	Chrysene	(5)	12.837	228	96964	5.0076
169)	bis(2-Ethylhexyl)phthalate	(5)	12.873	149	72991	5.3647
172)	Di-n-octylphthalate	(6)	13.525	149	107622	8.6510
173)	Benzo(b)fluoranthene	(6)	13.860	252	85286 A	5.2392
175)	Benzo(k)fluoranthene	(6)	13.890	252	91535	5.0437
176)	Benzo(a)pyrene	(6)	14.171	252	80796	5.1984
177)	Perylene-d12	(6)	14.231	264	590486	40.0000
185)	Indeno(1,2,3-cd)pyrene	(6)	15.290	276	77143	4.8026
187)	Dibenz(a,h)anthracene	(6)	15.320	278	67363	4.9738
188)	Benzo(g,h,i)perylene	(6)	15.595	276	67621	5.0157
42)	Nitrobenzene-d5	(2)	6.359	82	673199	85.5400
79)	2-Fluorobiphenyl	(3)	8.129	172	1151791	80.1355
157)	Terphenyl-d14	(5)	11.796	244	1390989	93.0792

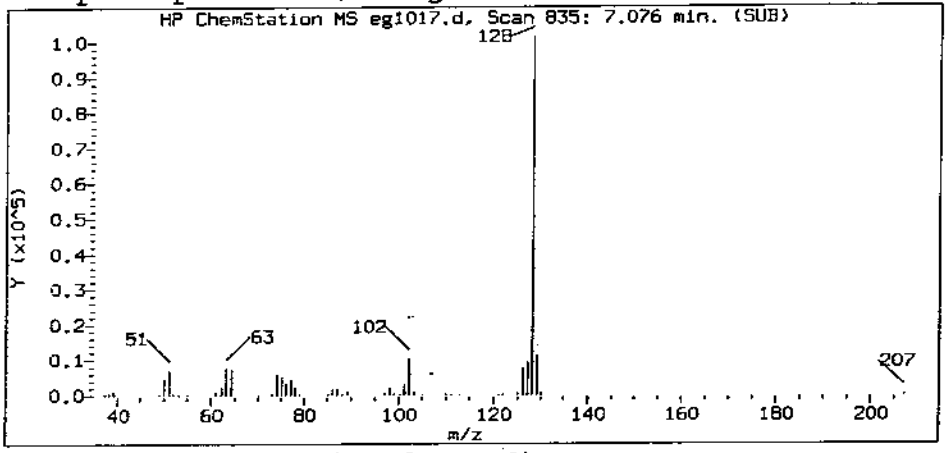
M = Compound was manually integrated. A = User selected an alternate hit

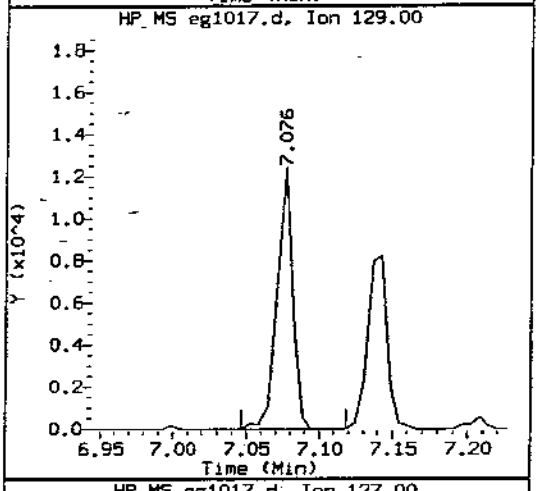
Reference Standard Spectrum for Naphthalene



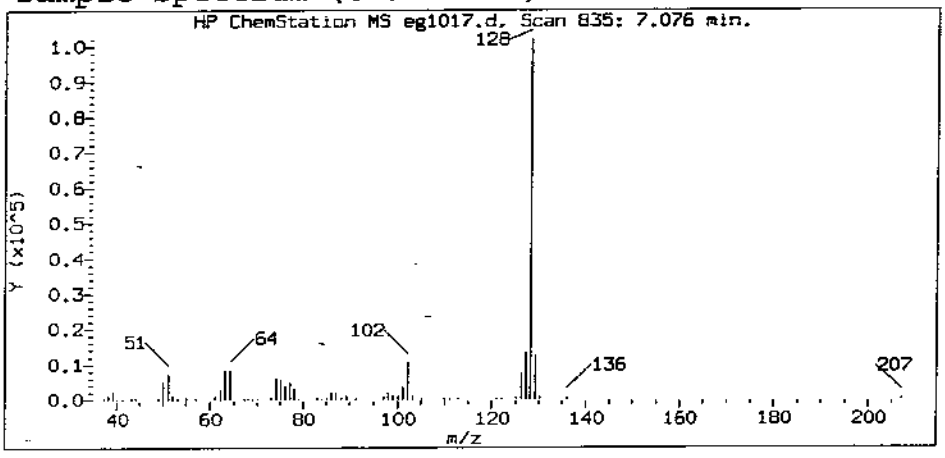


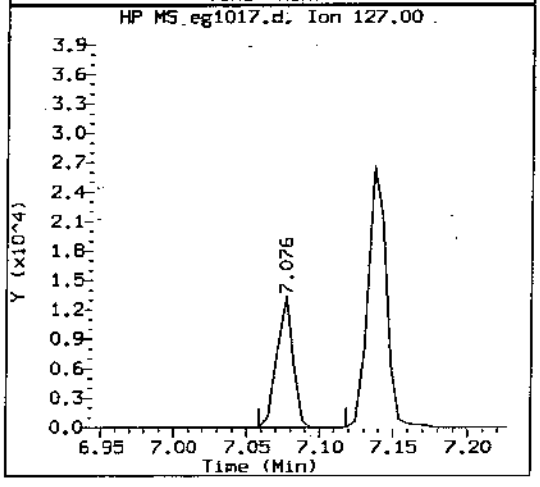
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

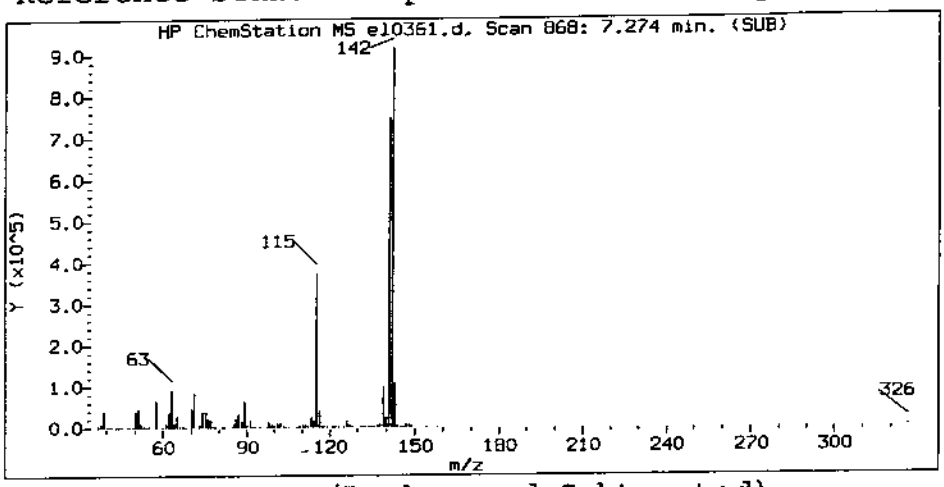
Sample Name: XXXXX

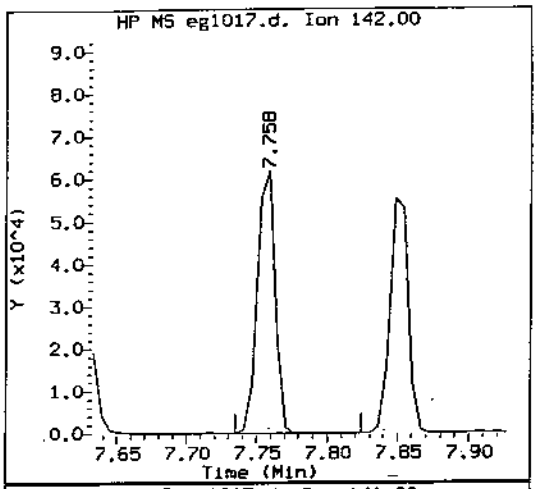
Lab Sample ID: 6339384

Compound Number	: 54
Compound Name	: Naphthalene
Scan Number	: 835
Retention Time (minutes)	: 7.076
Quant Ion	: 128.0
Area (flag)	: 80456
Concentration (ng/ul)	: 4.4680

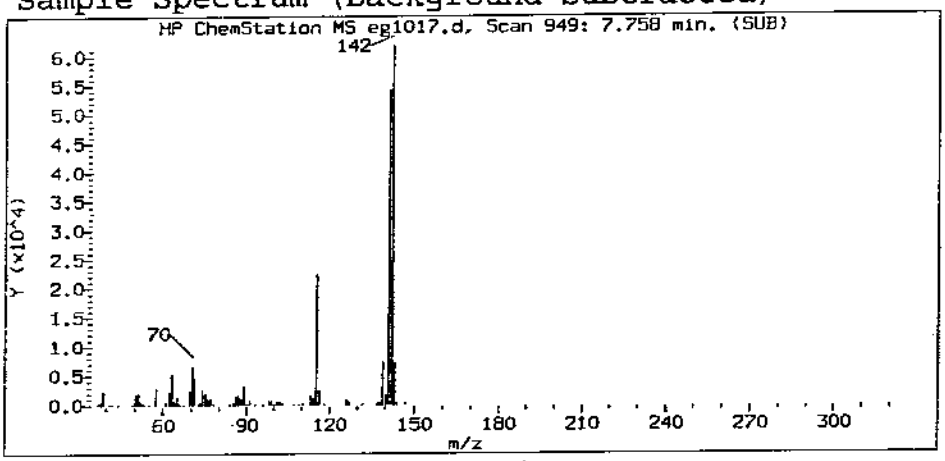
USF03 8239

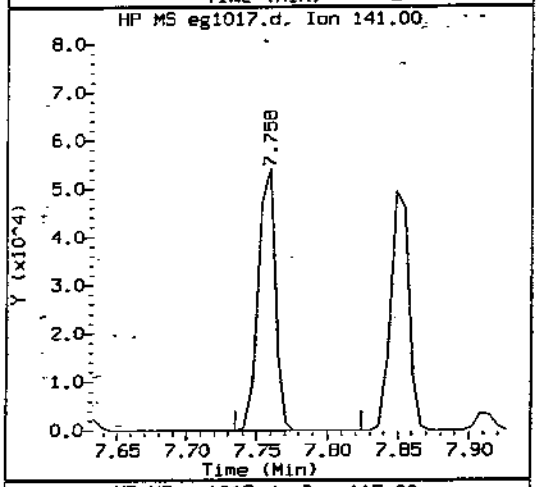
Reference Standard Spectrum for 2-Methylnaphthalene



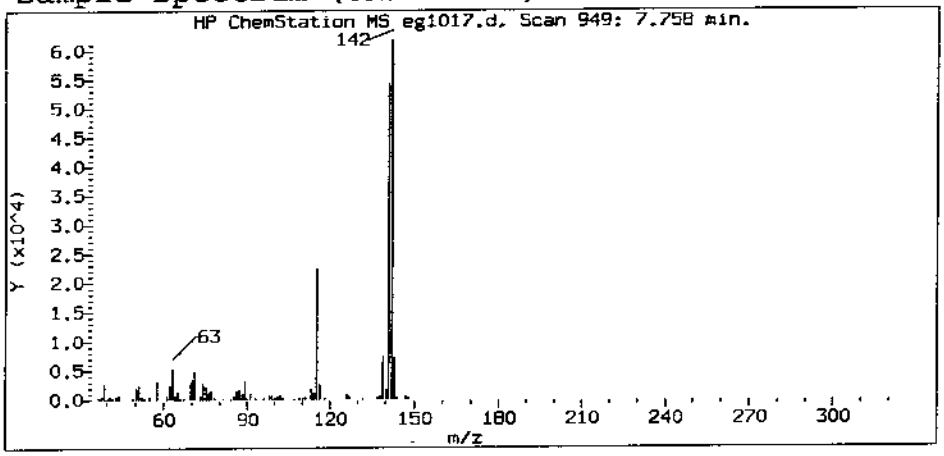


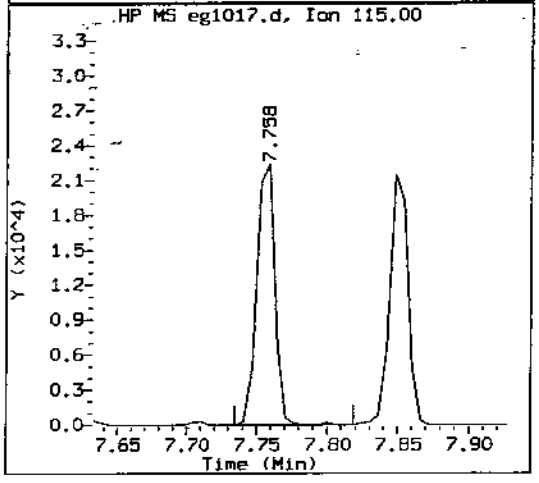
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

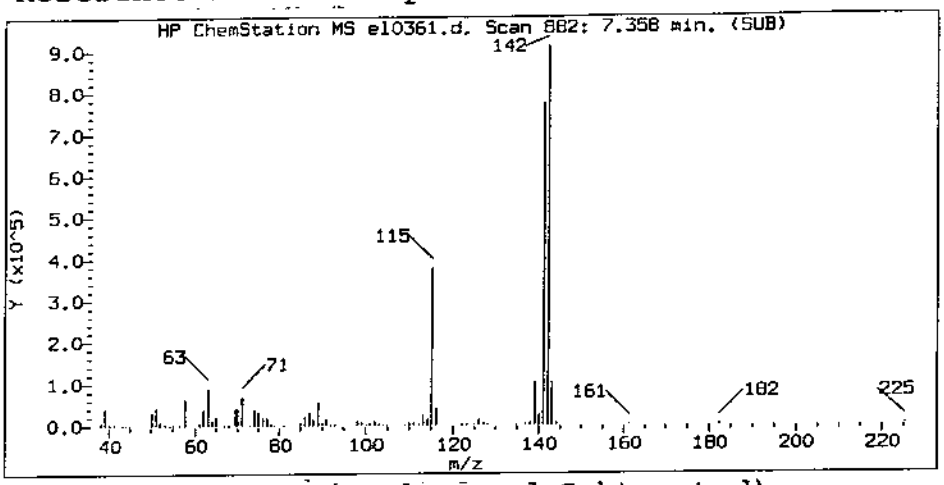
Sample Name: XXXXX

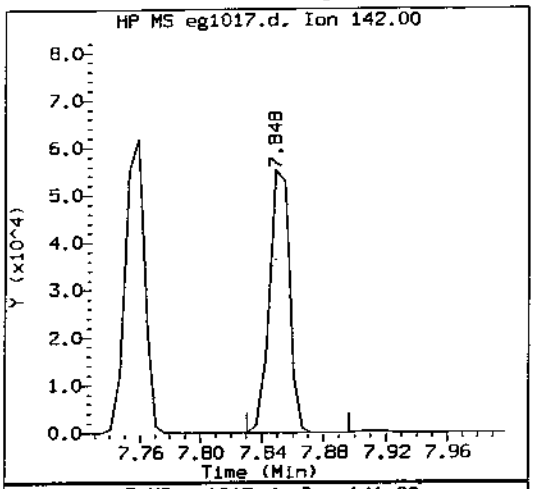
Lab Sample ID: 6339384

Compound Number	: 69
Compound Name	: 2-Methylnaphthalene
Scan Number	: 949
Retention Time (minutes)	: 7.758
Quant Ion	: 142.0
Area (flag)	: 54758
Concentration (ng/ul)	: 4.4154

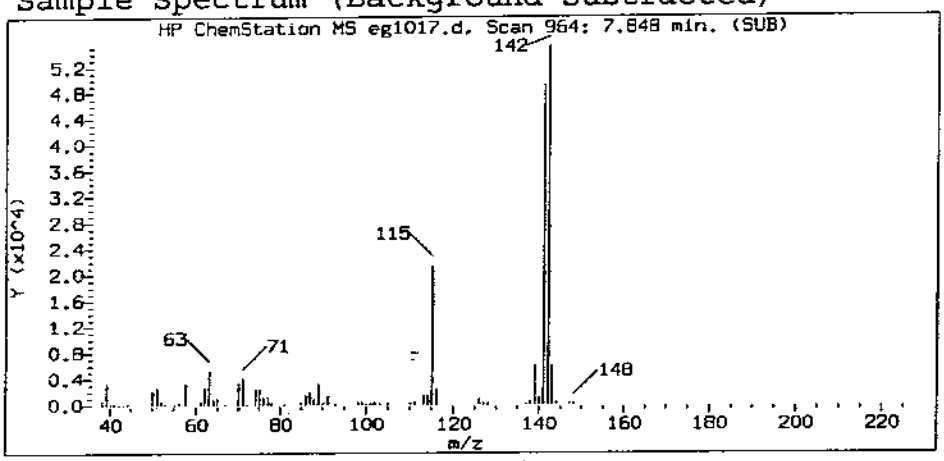
USF03 0246

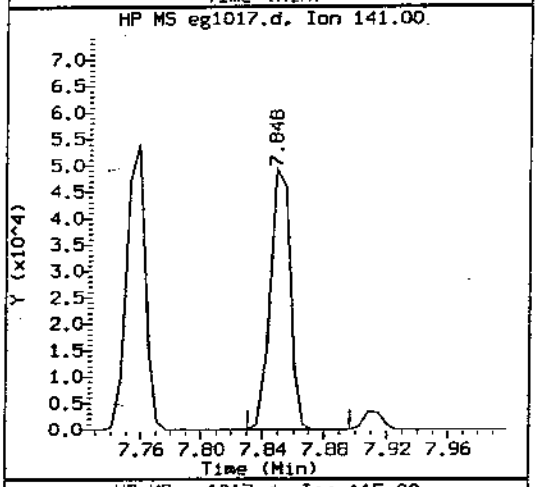
Reference Standard Spectrum for 1-Methylnaphthalene



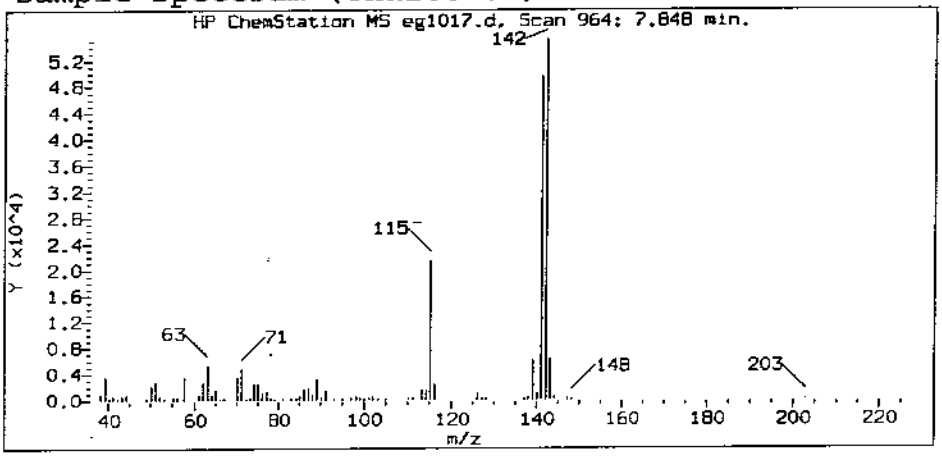


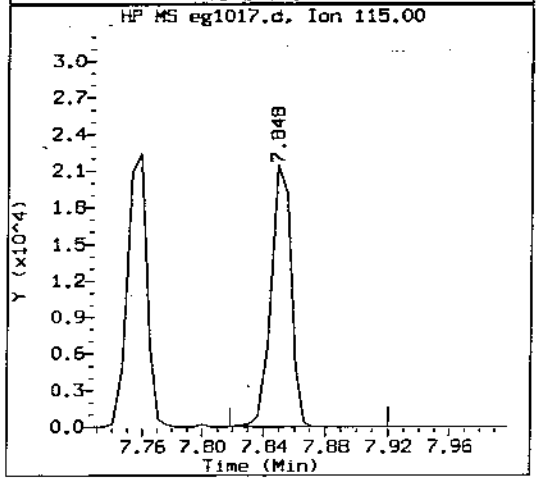
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

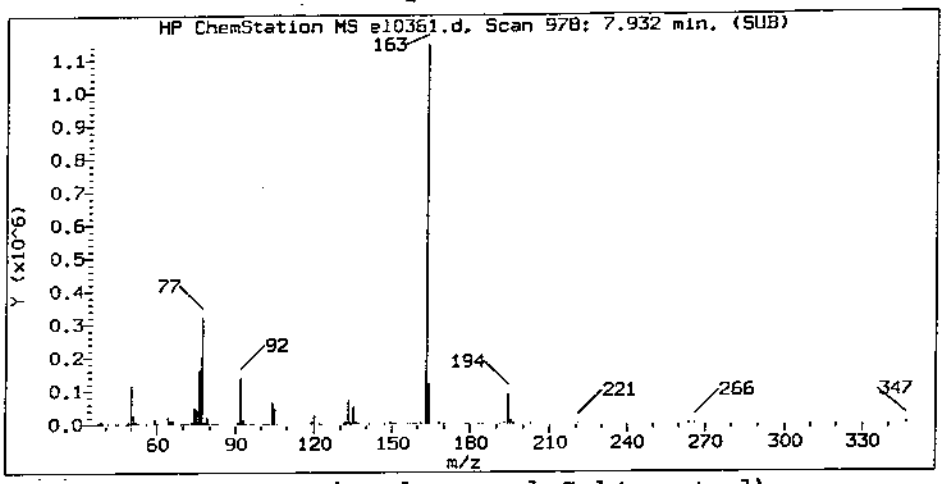
Sample Name: XXXXX

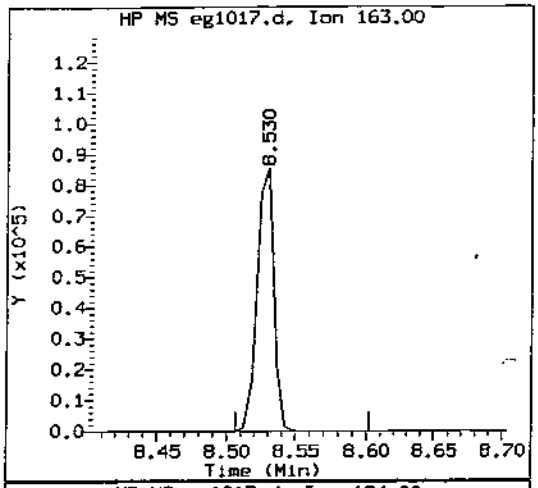
Lab Sample ID: 6339384

Compound Number	: 71
Compound Name	: 1-Methylnaphthalene
Scan Number	: 964
Retention Time (minutes)	: 7.848
Quant Ion	: 142.0
Area (flag)	: 49732
Concentration (ng/ul)	: 4.2645

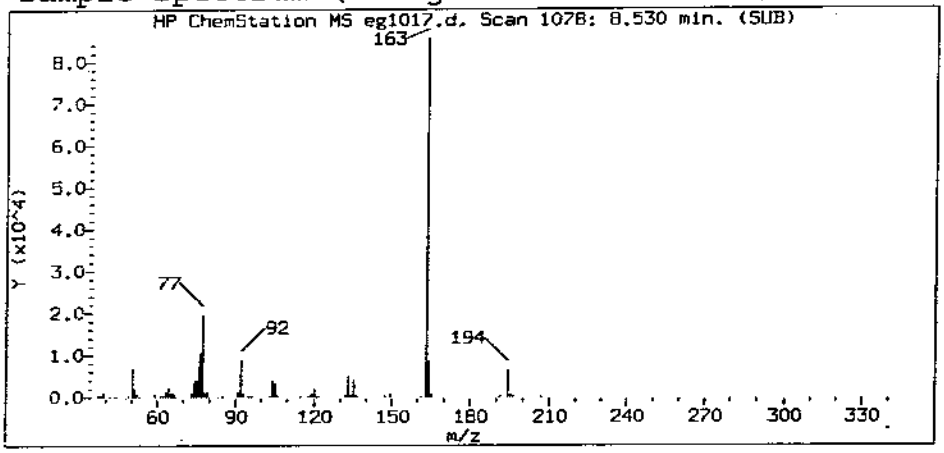
USF03 5241

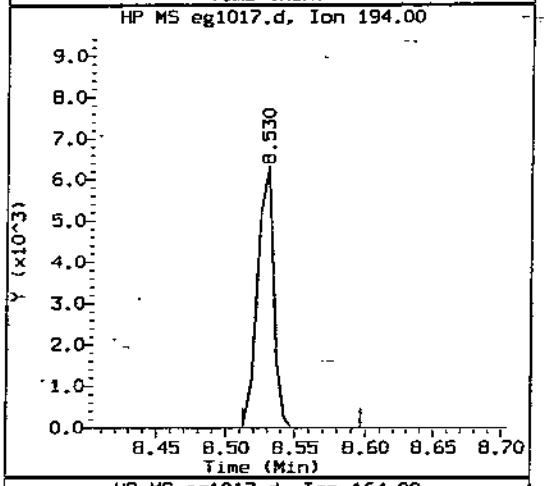
Reference Standard Spectrum for Dimethylphthalate



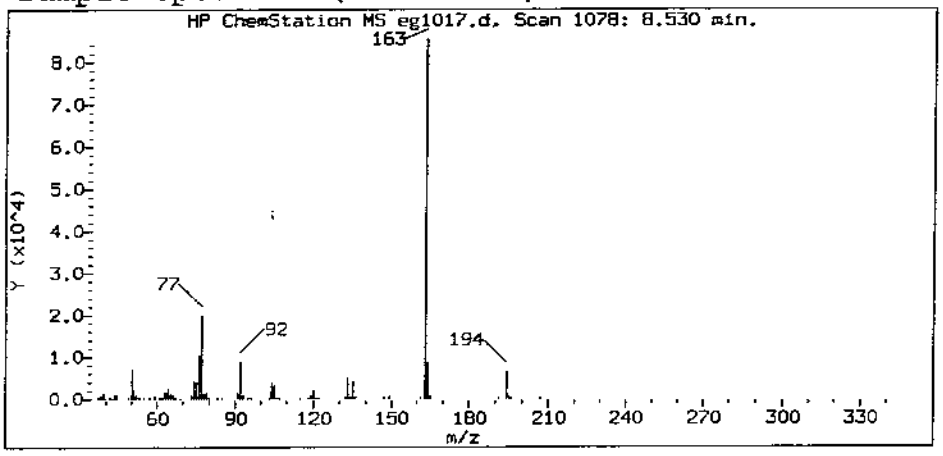


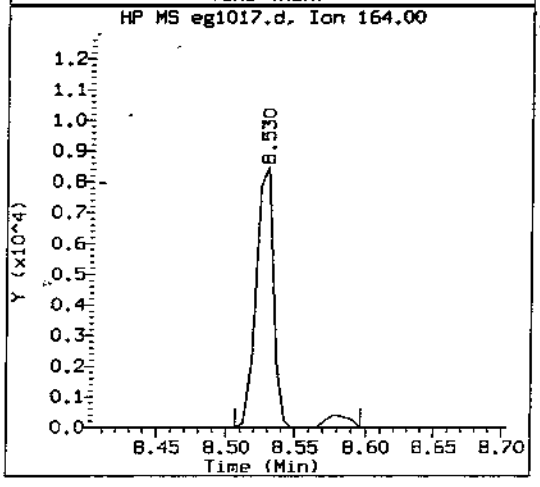
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

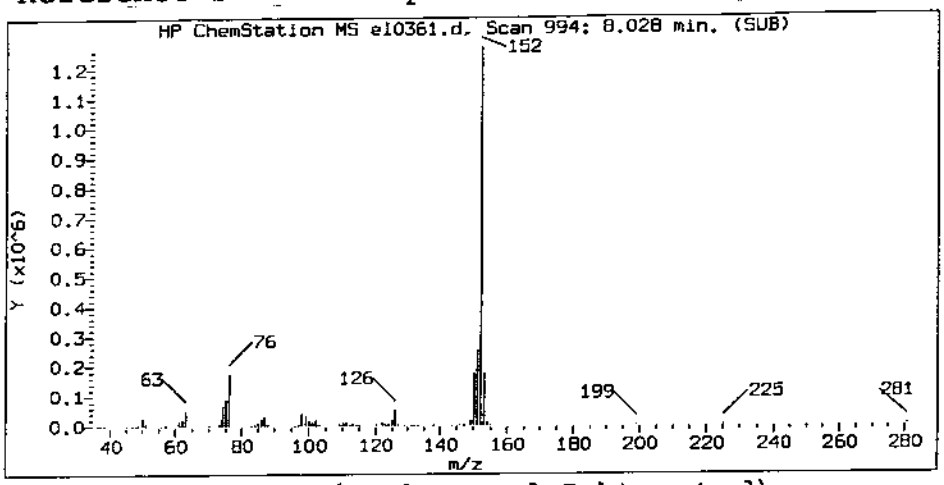
Sample Name: XXXXX

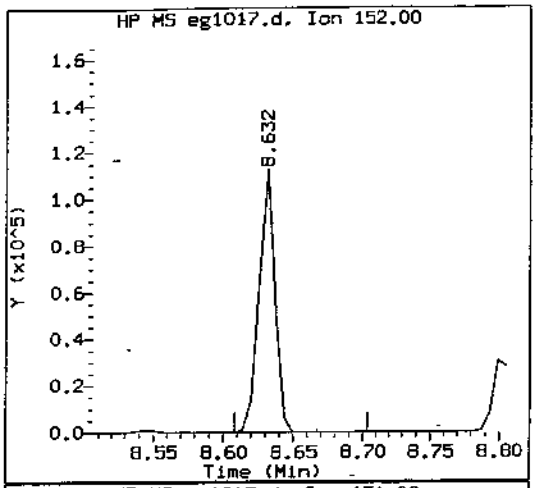
Lab Sample ID: 6339384

Compound Number	: 92
Compound Name	: Dimethylphthalate
Scan Number	: 1078
Retention Time (minutes)	: 8.530
Quant Ion	: 163.0
Area (flag)	: 72890
Concentration (ng/ul)	: 4.9227

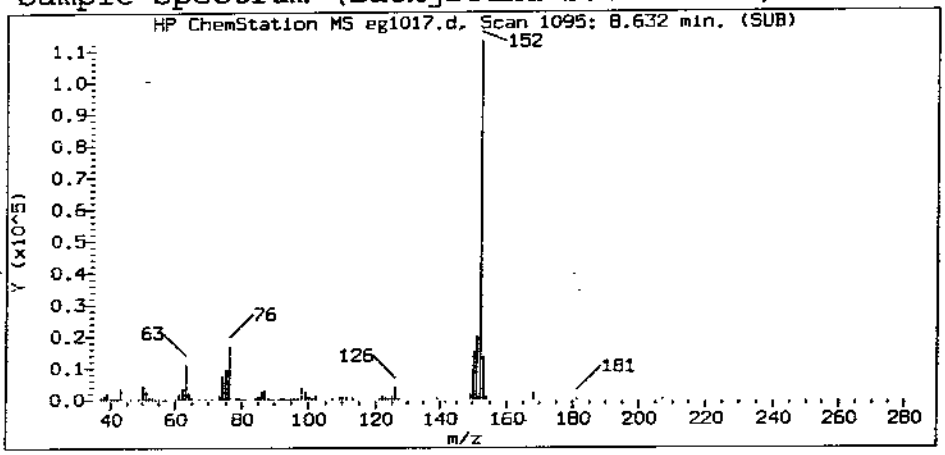
USF83-8242

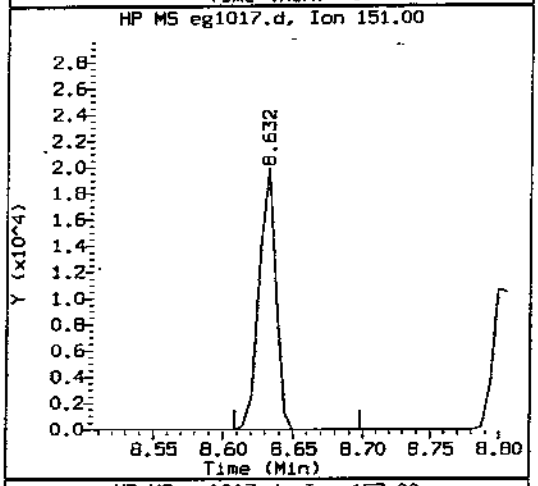
Reference Standard Spectrum for Acenaphthylene



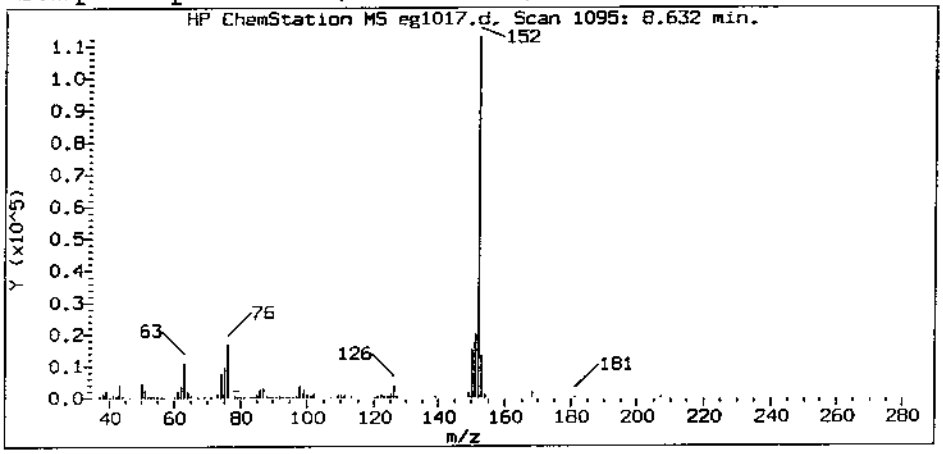


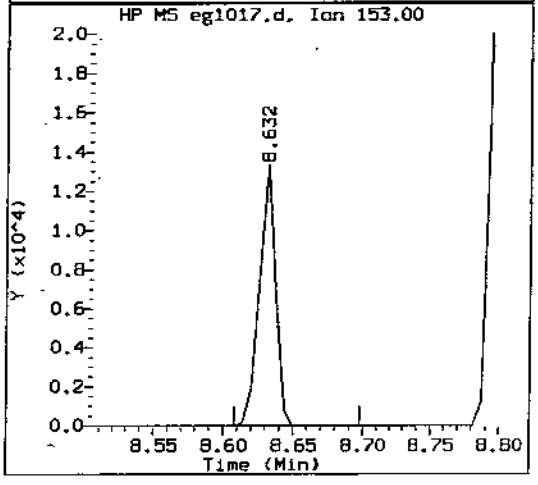
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

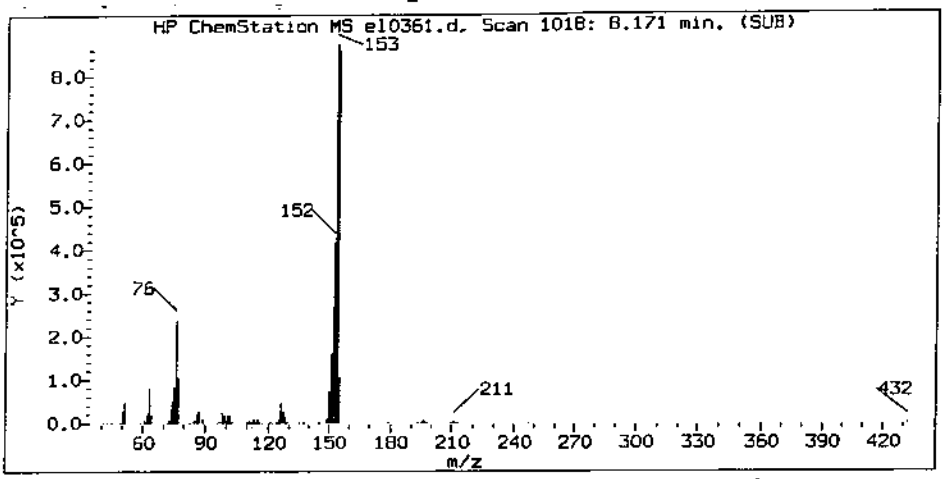
Sample Name: XXXXX

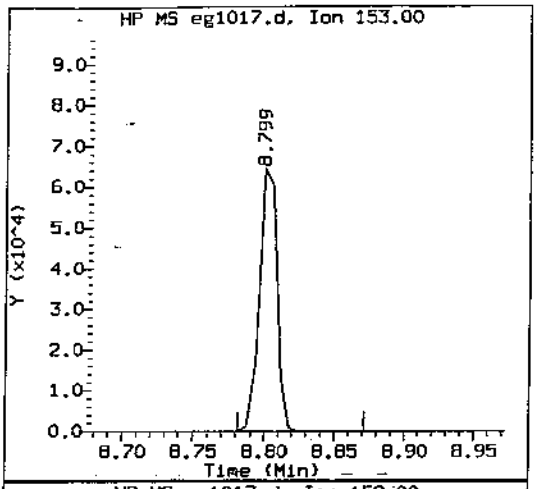
Lab Sample ID: 6339384

Compound Number	: 100
Compound Name	: Acenaphthylene
Scan Number	: 1095
Retention Time (minutes)	: 8.632
Quant Ion	: 152.0
Area (flag)	: 90117
Concentration (ng/ul)	: 4.6493

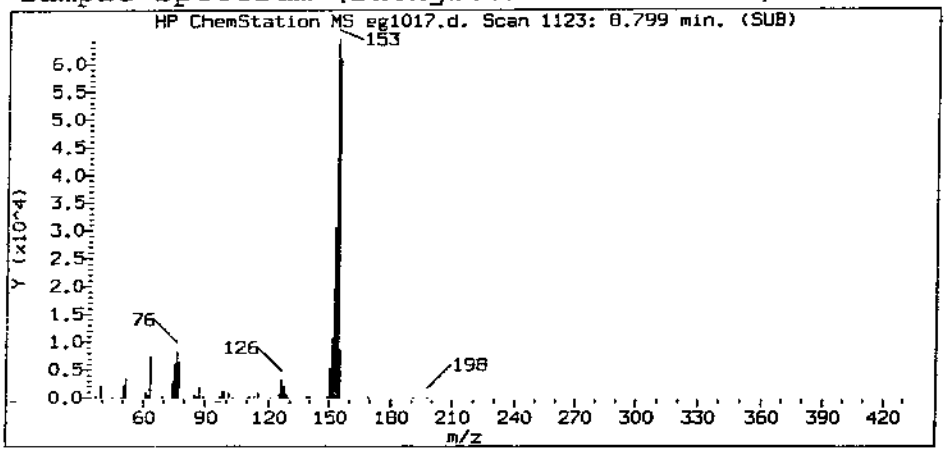
USF03 0243

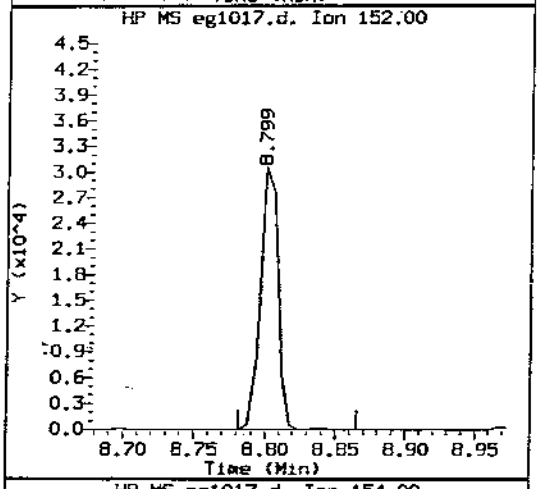
Reference Standard Spectrum for Acenaphthene



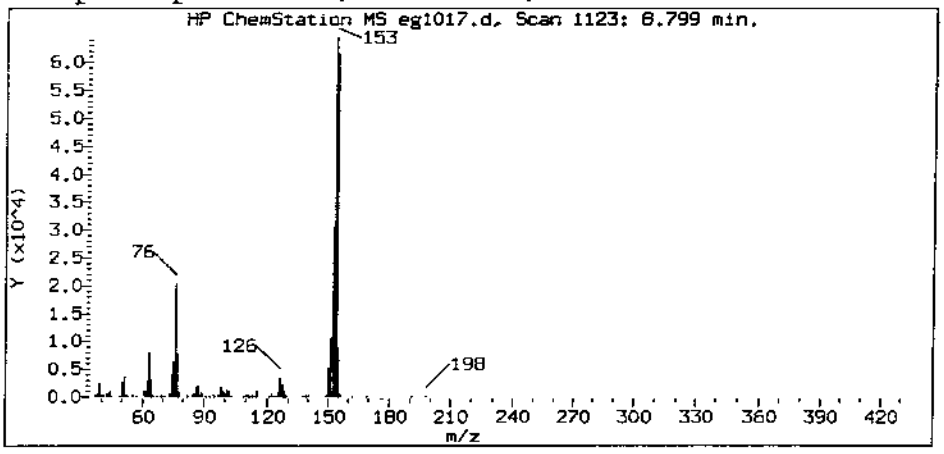


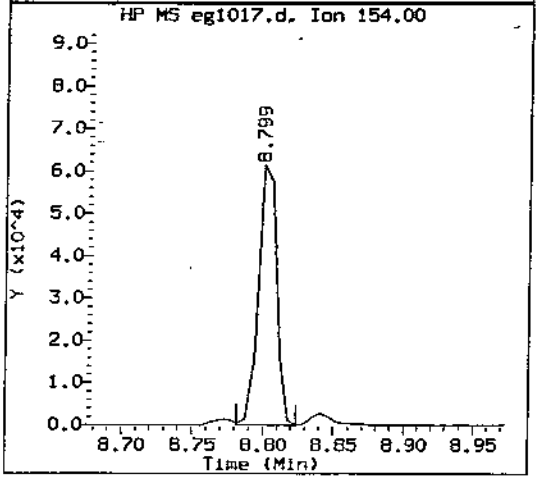
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

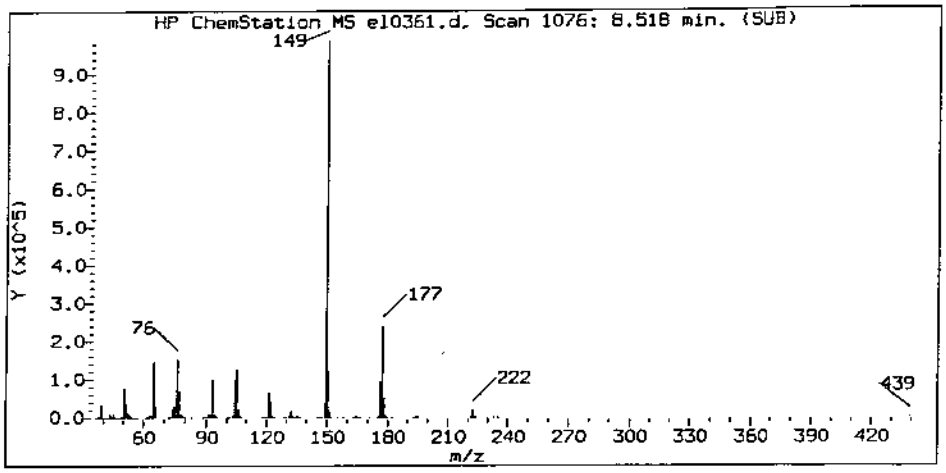
Sample Name: XXXXX

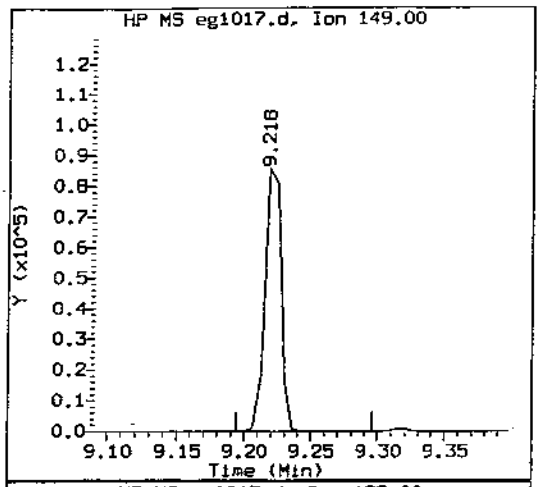
Lab Sample ID: 6339384

Compound Number	: 106
Compound Name	: Acenaphthene
Scan Number	: 1123
Retention Time (minutes)	: 8.799
Quant Ion	: 153.0
Area (flag)	: 56755
Concentration (ng/ul)	: 4.3868

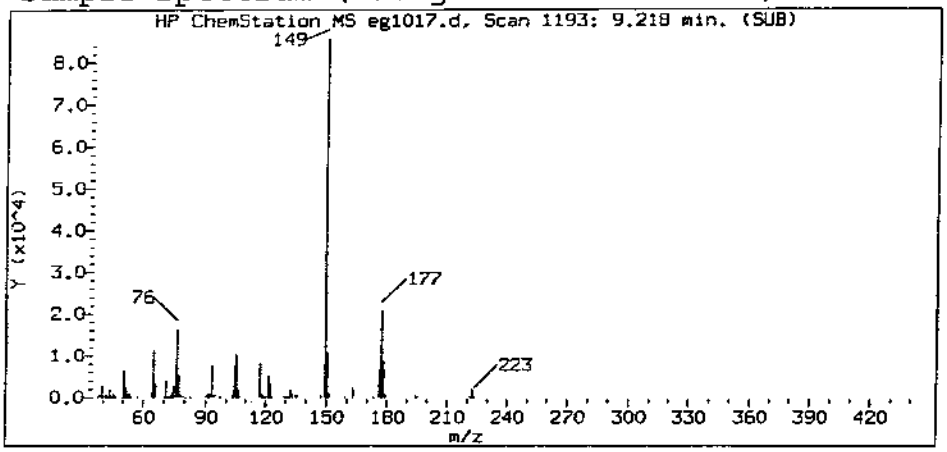
USF03 0244

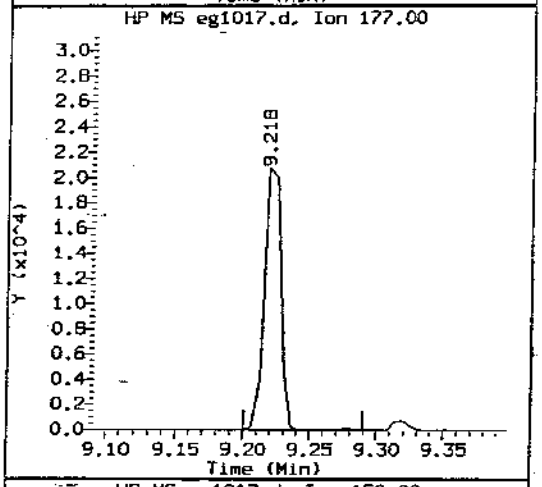
Reference Standard Spectrum for Diethylphthalate



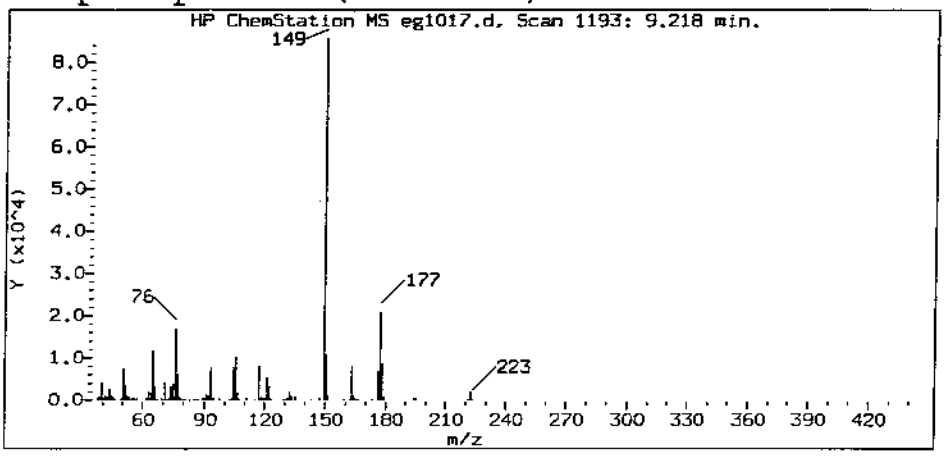


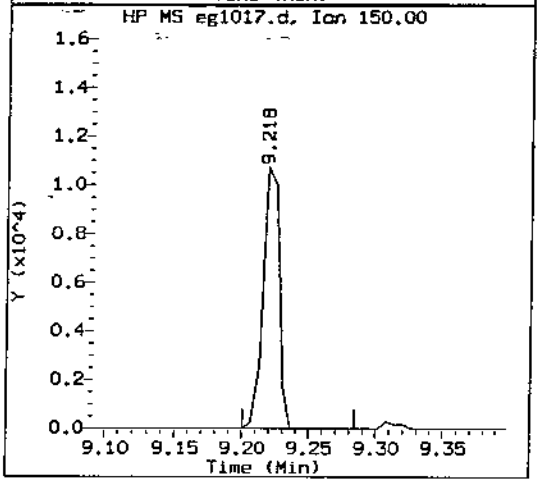
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 14:06 Analyst ID: lmh00956

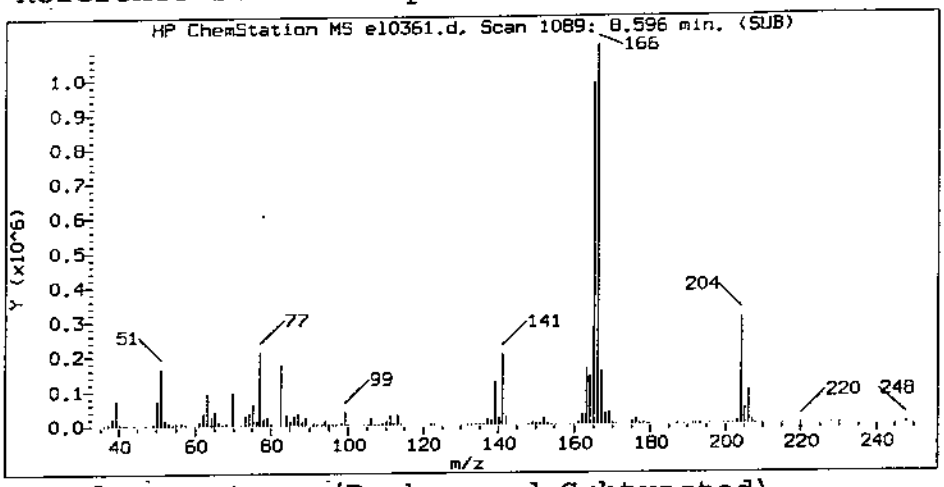
Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

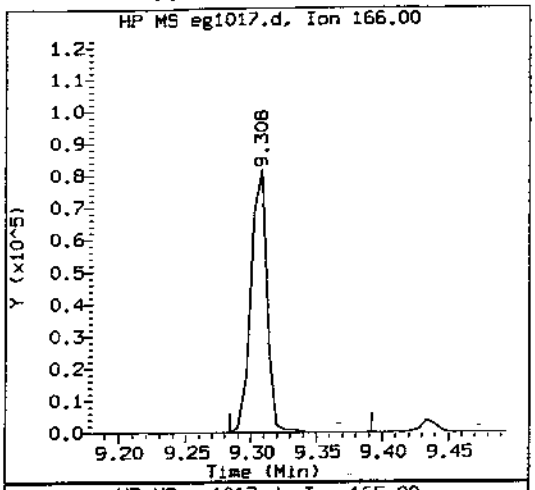
Sample Name: XXXXX Lab Sample ID: 6339384

Compound Number	: 118
Compound Name	: Diethylphthalate
Scan Number	: 1193
Retention Time (minutes)	: 9.218
Quant Ion	: 149.0
Area (flag)	: 72917
Concentration (ng/ul)	: 5.0476

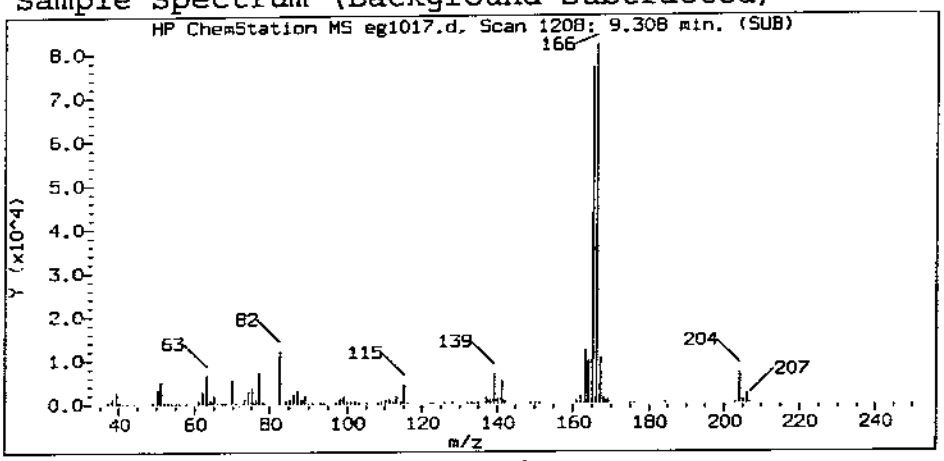
USF03 0245

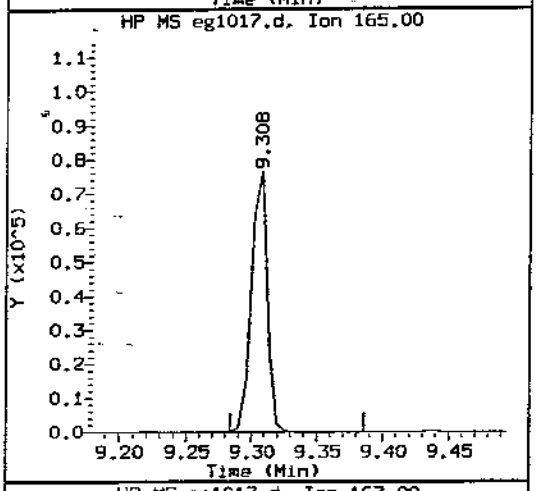
Reference Standard Spectrum for Fluorene



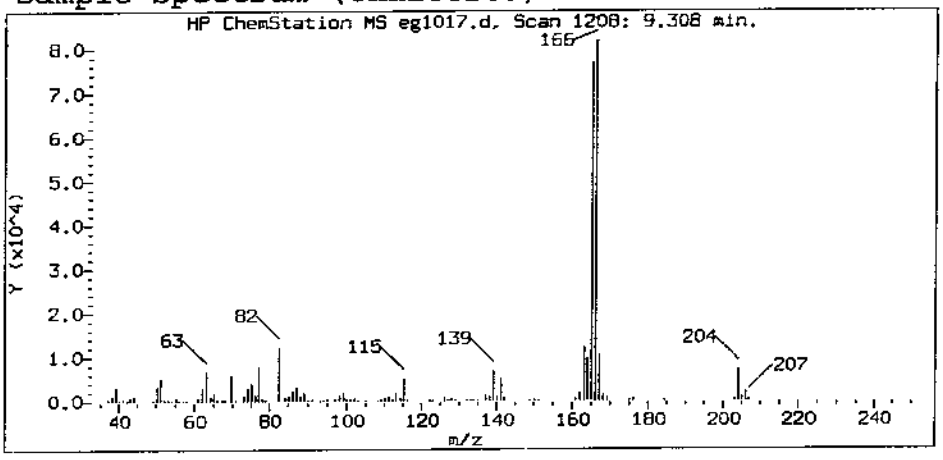


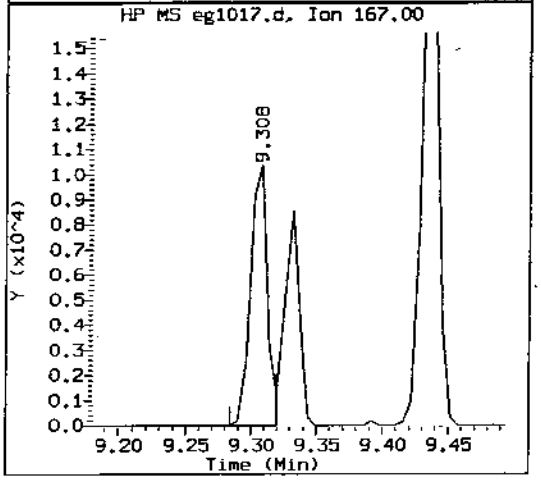
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

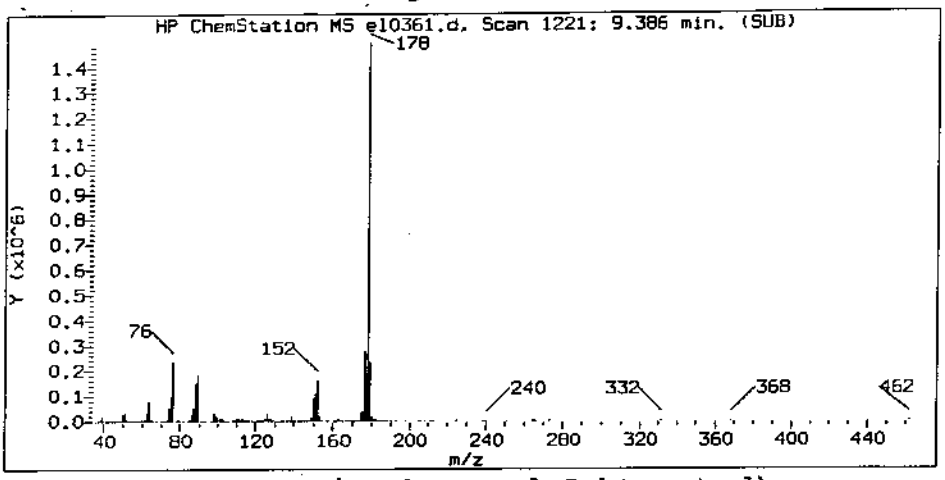
Sample Name: XXXXX

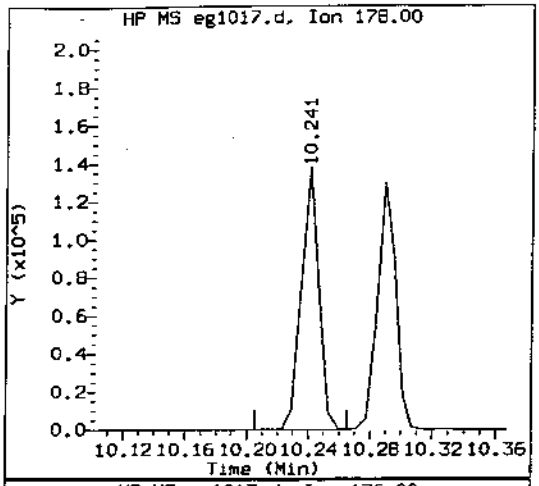
Lab Sample ID: 6339384

Compound Number	: 119
Compound Name	: Fluorene
Scan Number	: 1208
Retention Time (minutes)	: 9.308
Quant Ion	: 166.0
Area (flag)	: 71391
Concentration (ng/ul)	: 4.5333

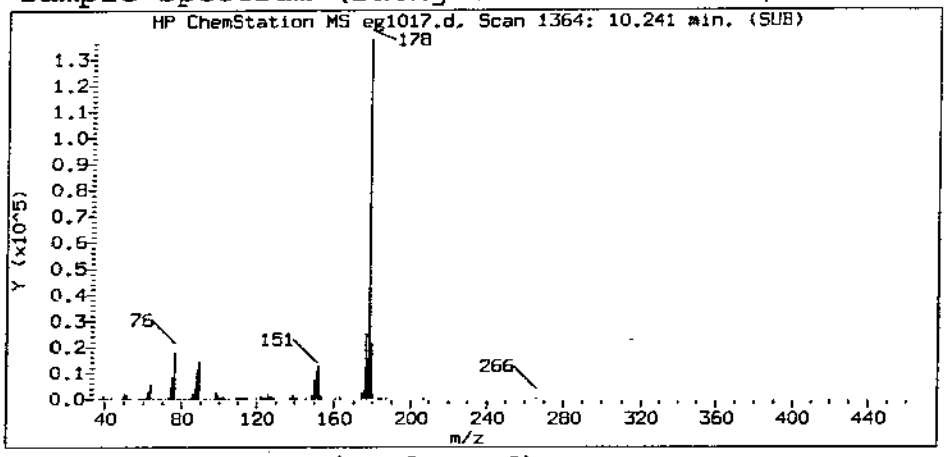
USF03 0046

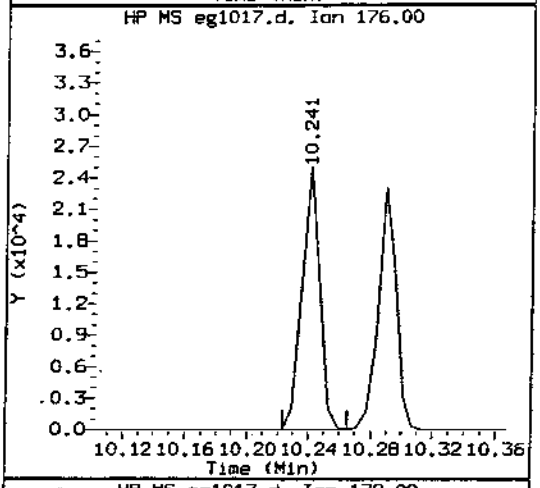
Reference Standard Spectrum for Phenanthrene



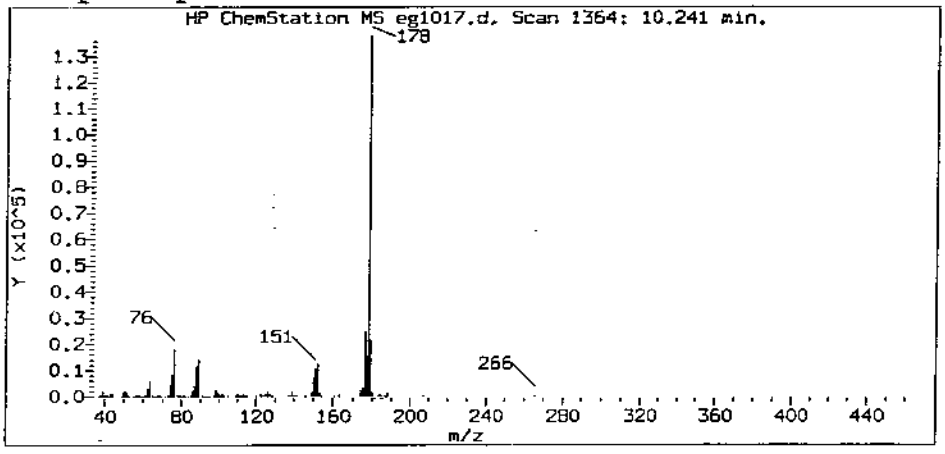


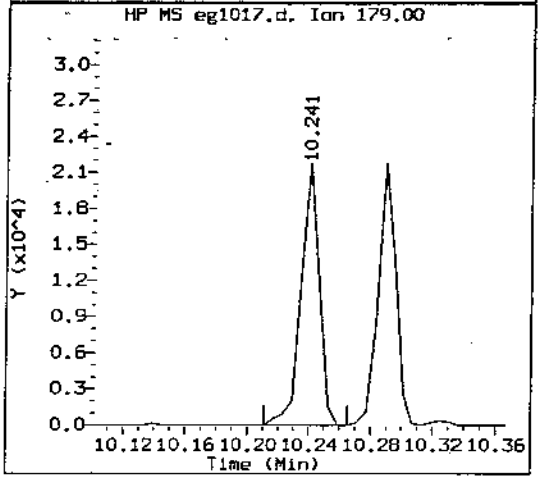
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

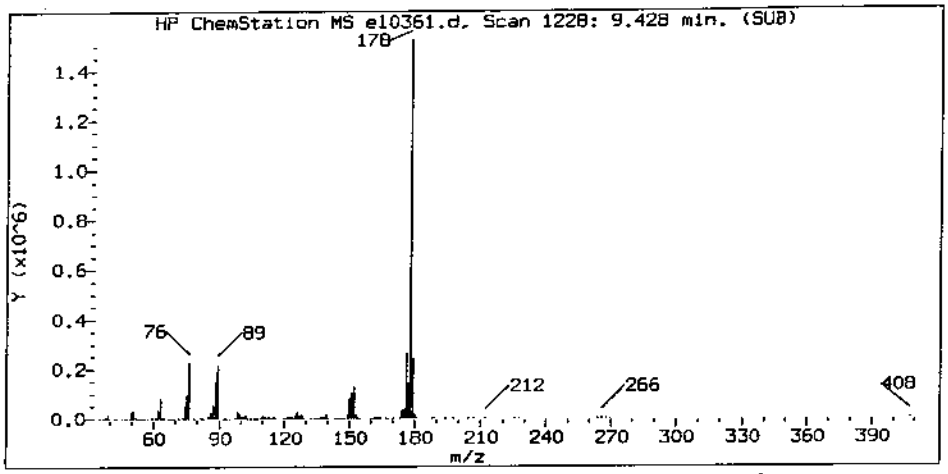
Sample Name: XXXXX

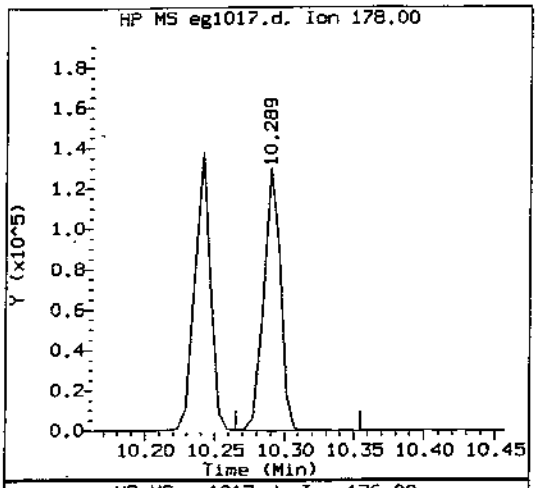
Lab Sample ID: 6339384

Compound Number	: 141
Compound Name	: Phenanthrene
Scan Number	: 1364
Retention Time (minutes)	: 10.241
Quant Ion	: 178.0
Area (flag)	: 108500
Concentration (ng/ul)	: 4.9629

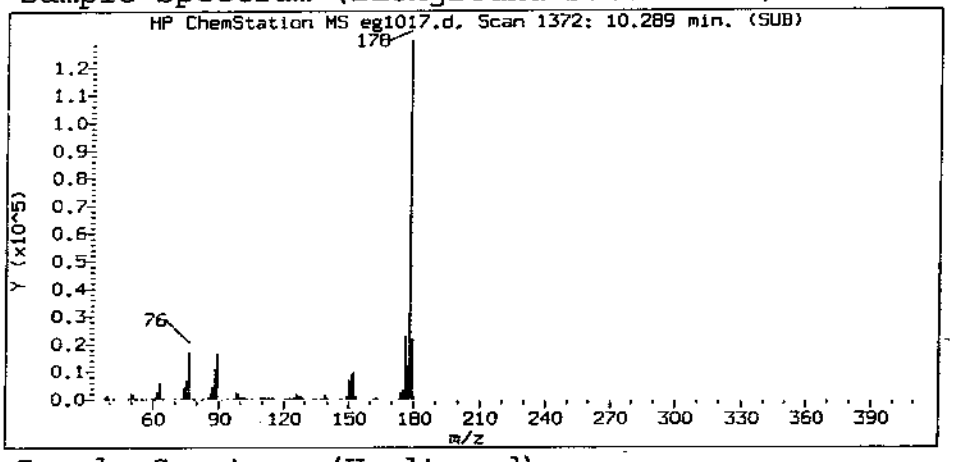
USF03 8247

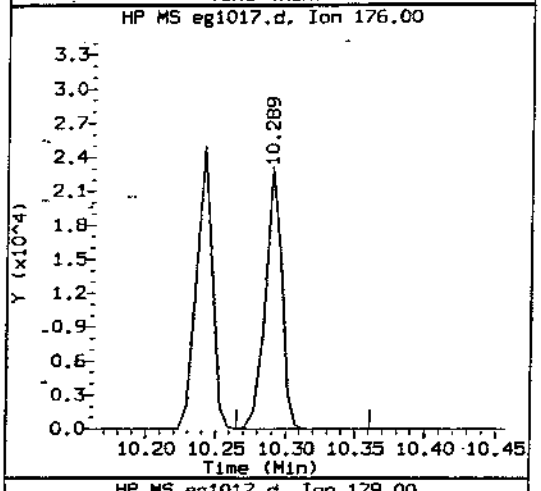
Reference Standard Spectrum for Anthracene



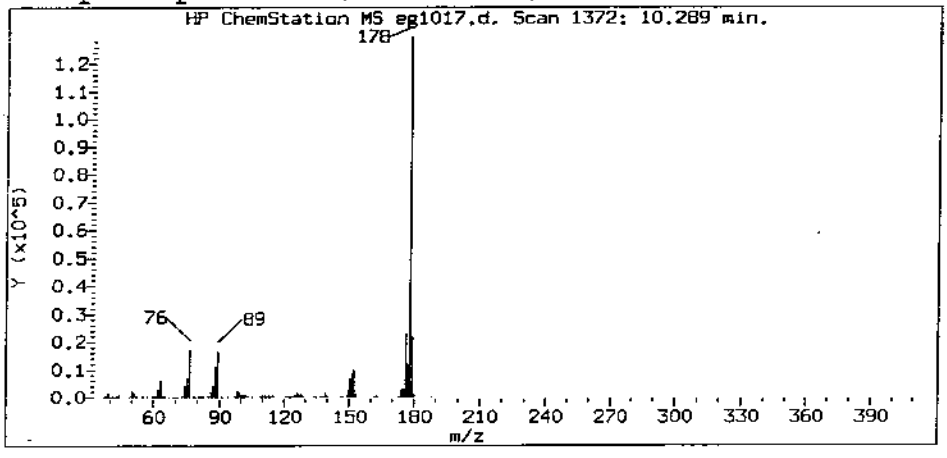


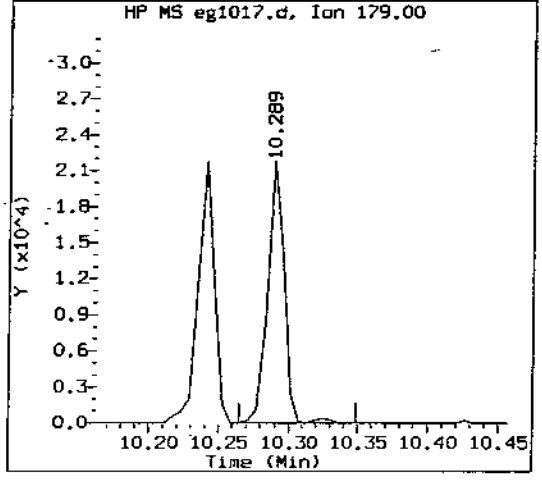
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

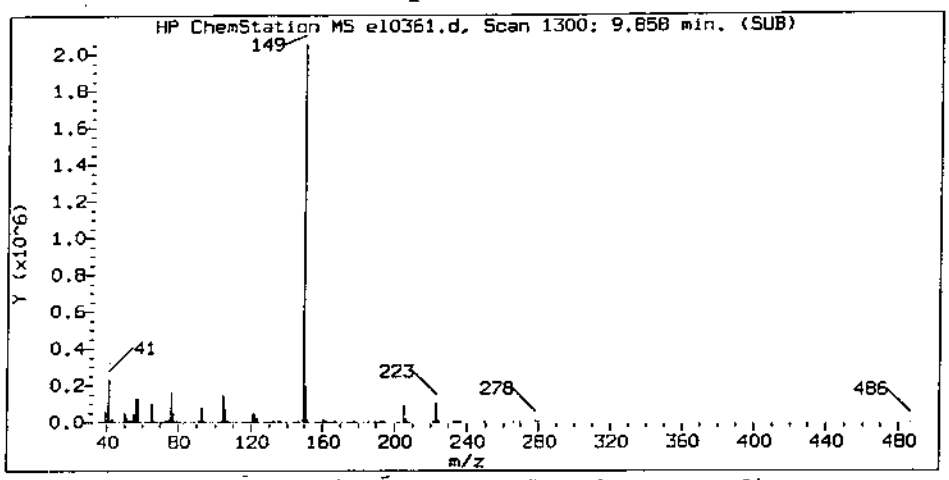
Sample Name: XXXXX

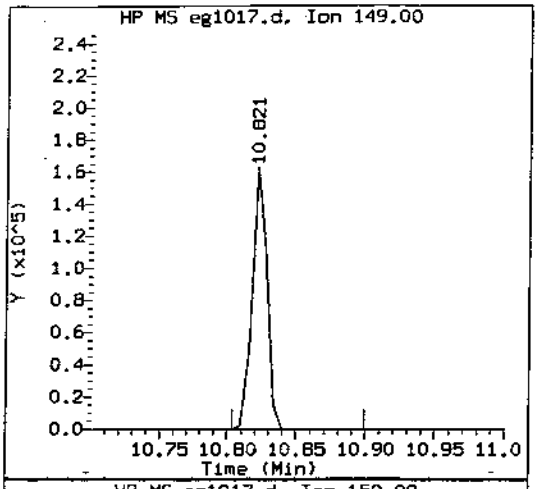
Lab Sample ID: 6339384

Compound Number	: 143
Compound Name	: Anthracene
Scan Number	: 1372
Retention Time (minutes)	: 10.289
Quant Ion	: 178.0
Area (flag)	: 108540
Concentration (ng/ul)	: 4.8926

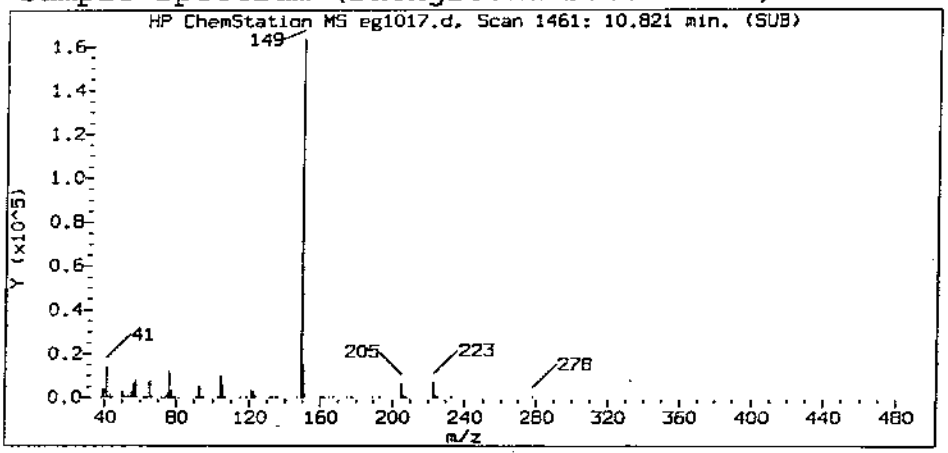
USF03 0240

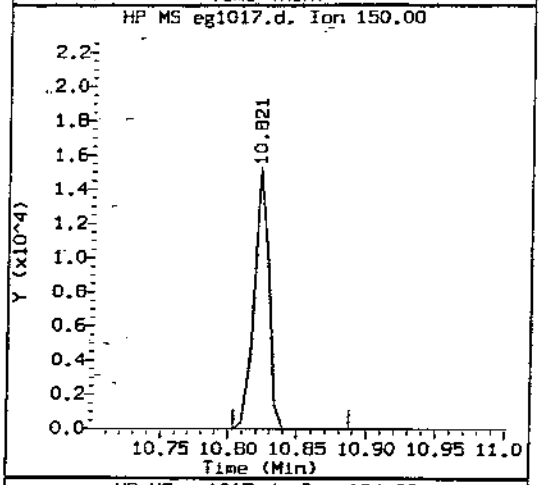
Reference Standard Spectrum for Di-n-butylphthalate



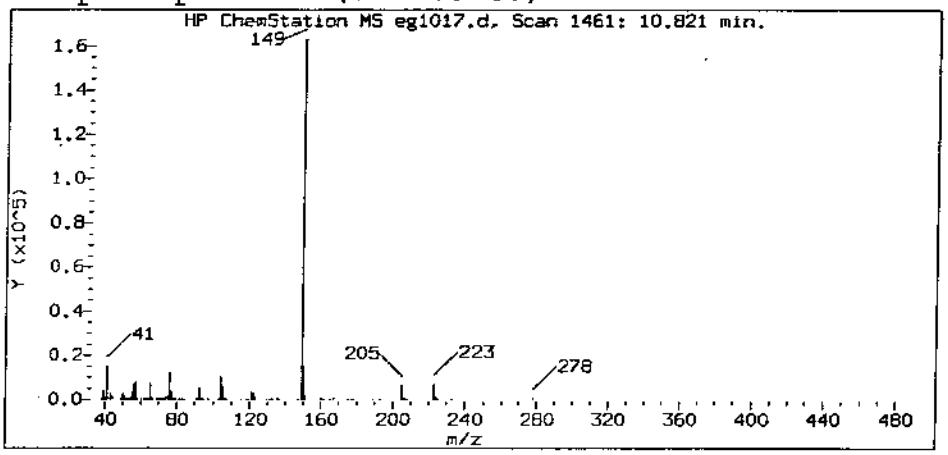


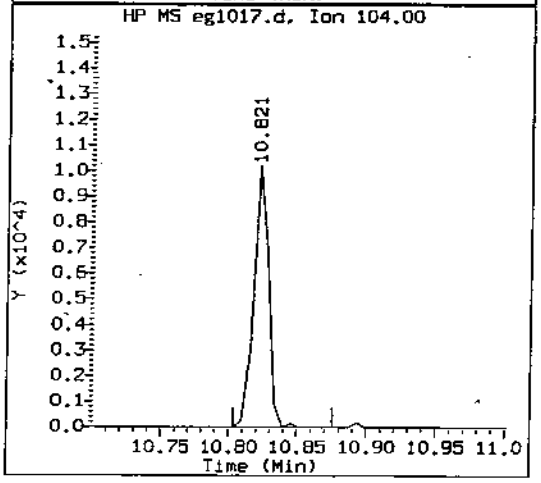
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

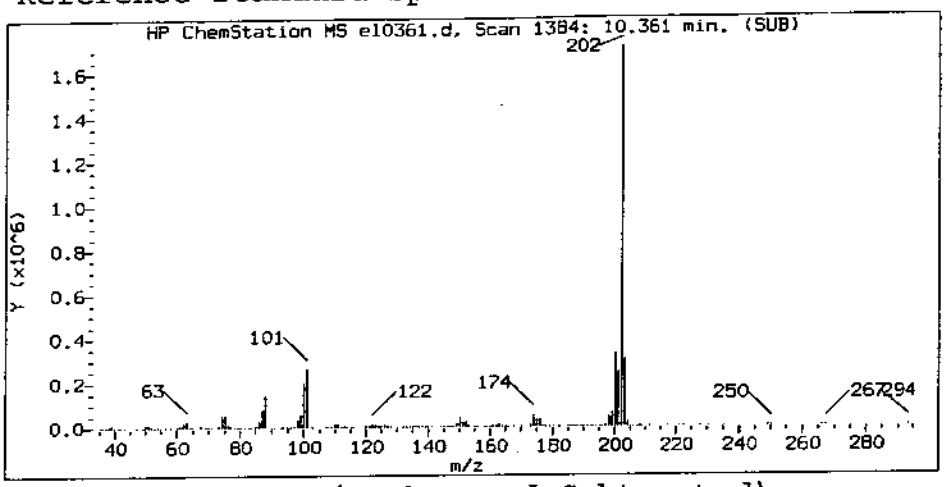
Sample Name: XXXXX

Lab Sample ID: 6339384

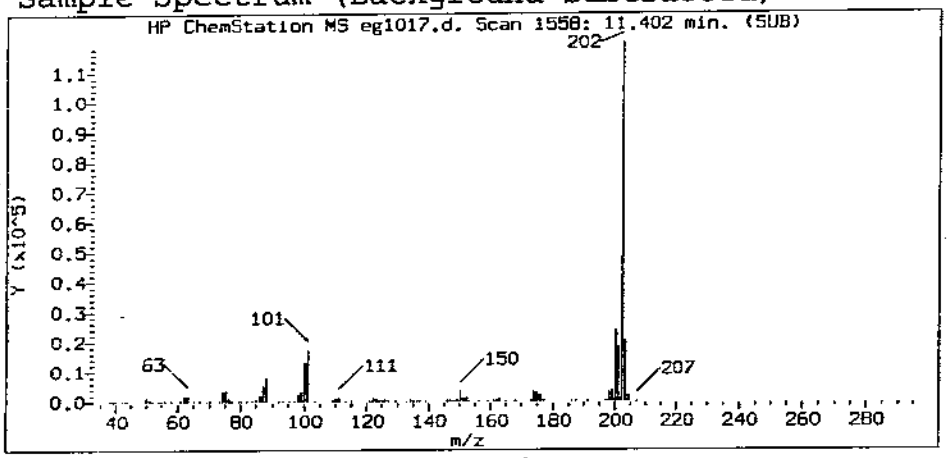
Compound Number	: 148
Compound Name	: Di-n-butylphthalate
Scan Number	: 1461
Retention Time (minutes)	: 10.821
Quant Ion	: 149.0
Area (flag)	: 123170
Concentration (ng/ul)	: 5.0272

USP03 8249

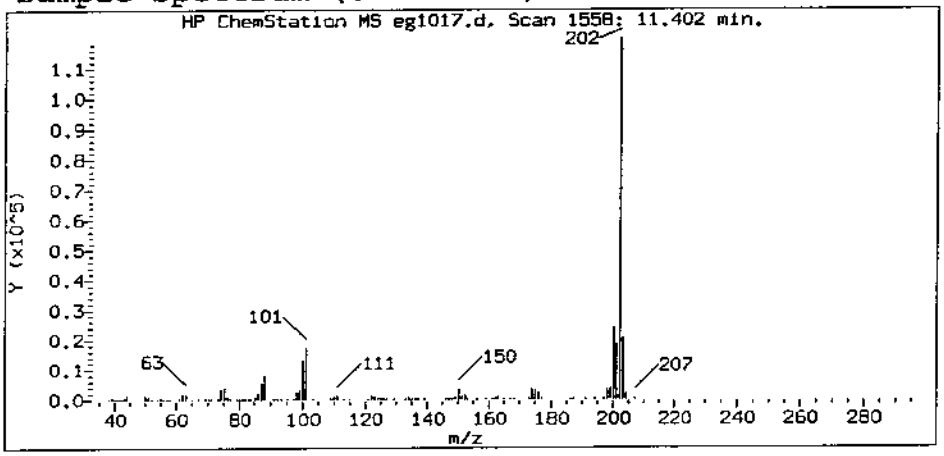
Reference Standard Spectrum for Fluoranthene

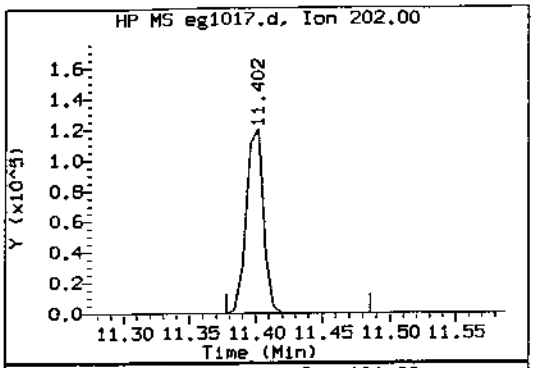


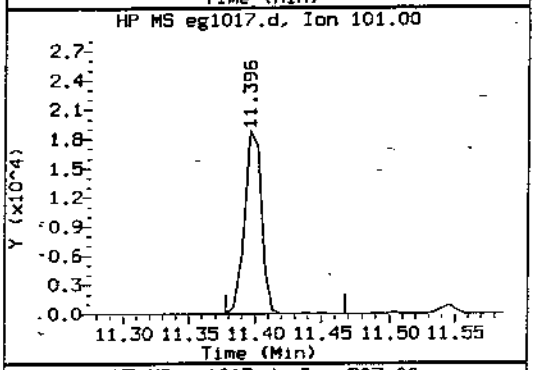
Sample Spectrum (Background Subtracted)

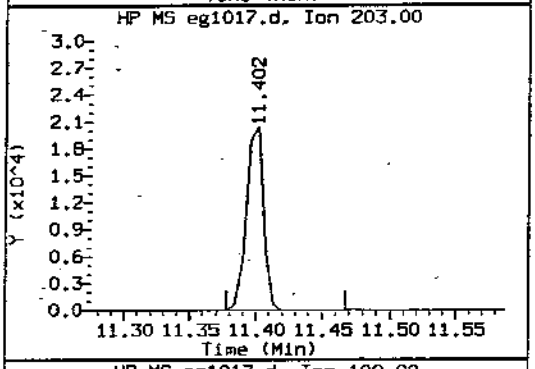


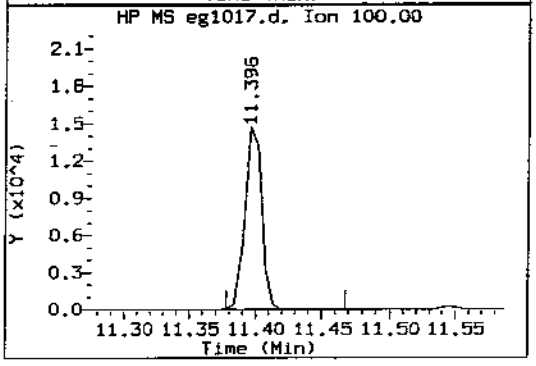
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

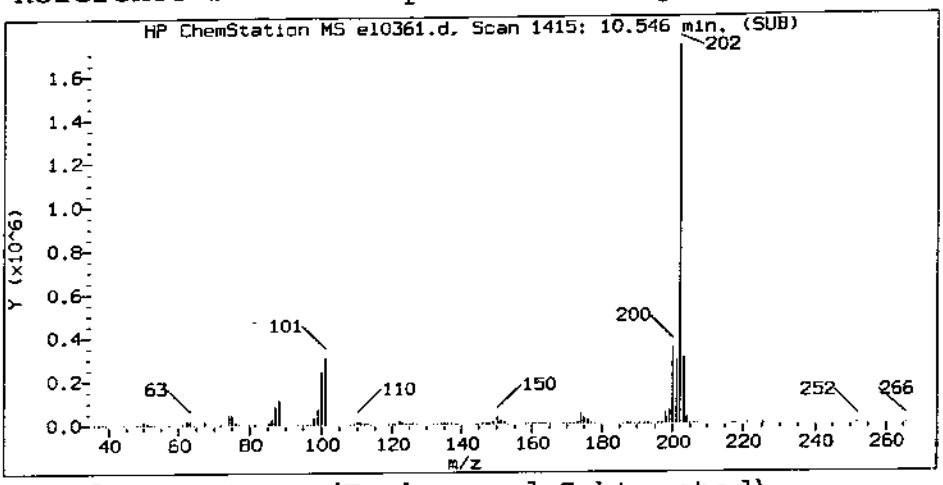
Sample Name: XXXXX

Lab Sample ID: 6339384

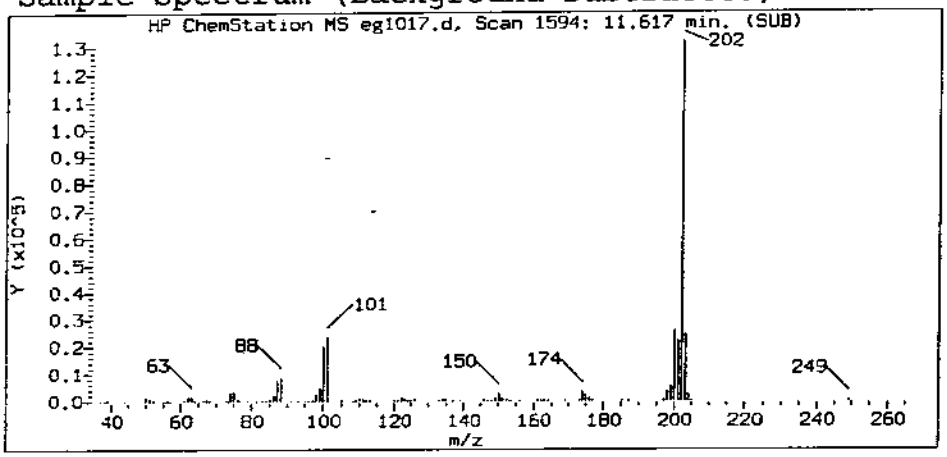
Compound Number	: 153
Compound Name	: Fluoranthene
Scan Number	: 1558
Retention Time (minutes)	: 11.402
Quant Ion	: 202.0
Area (flag)	: 110526
Concentration (ng/ul)	: 5.0047

USF03 0258

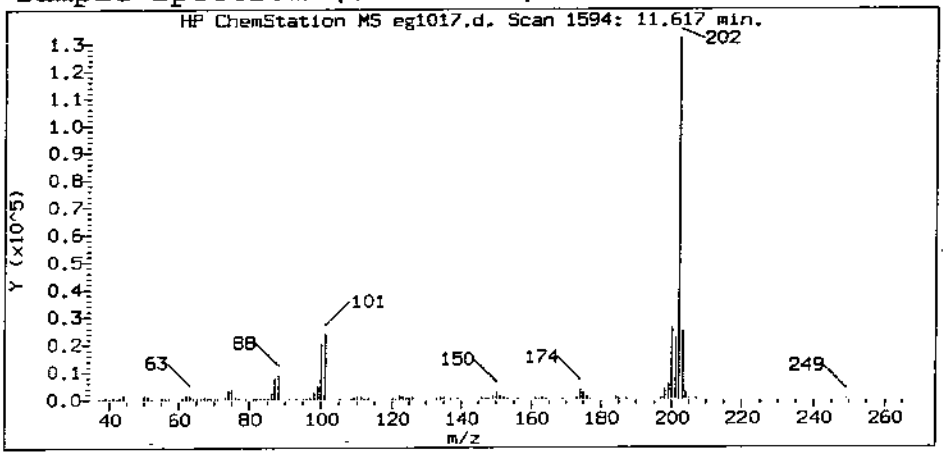
Reference Standard Spectrum for Pyrene

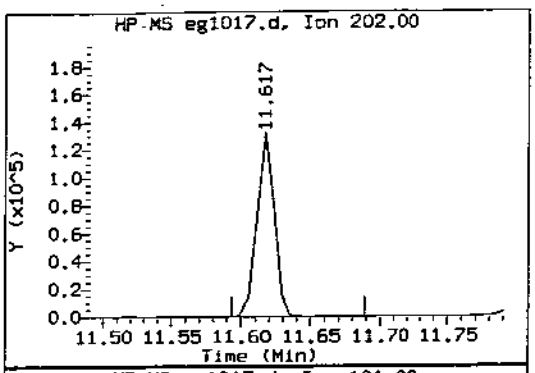


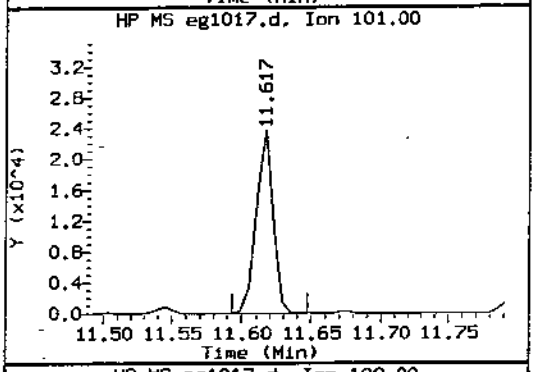
Sample Spectrum (Background Subtracted)

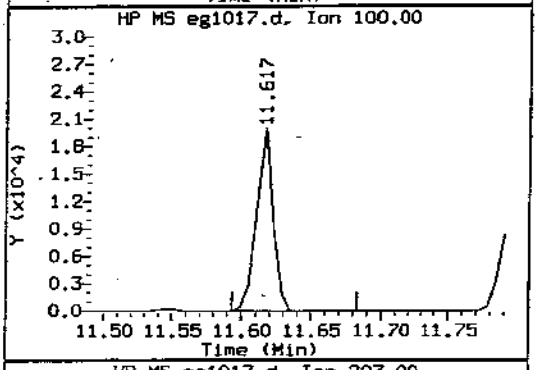


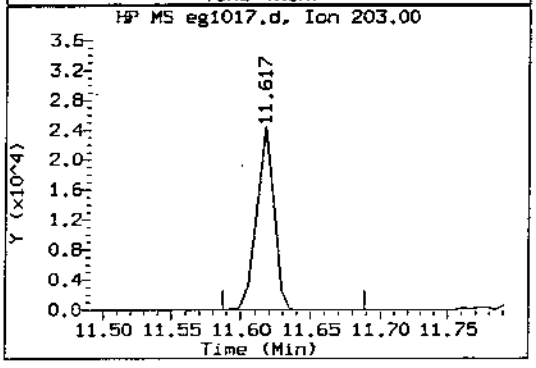
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

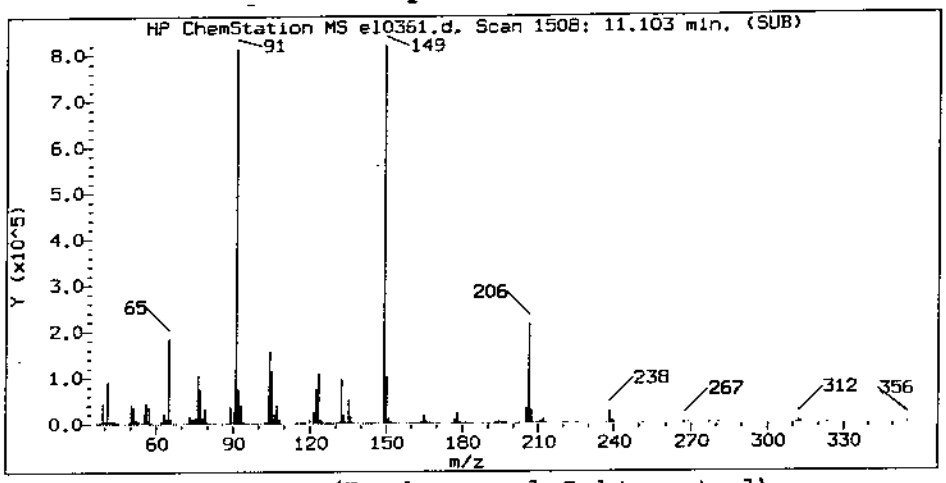
Sample Name: XXXXX

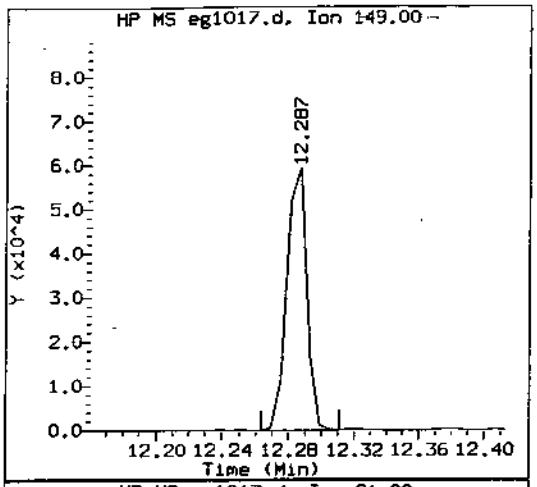
Lab Sample ID: 6339384

Compound Number	: 155
Compound Name	: Pyrene
Scan Number	: 1594
Retention Time (minutes)	: 11.617
Quant Ion	: 202.0
Area (flag)	: 114509
Concentration (ng/ul)	: 5.0625

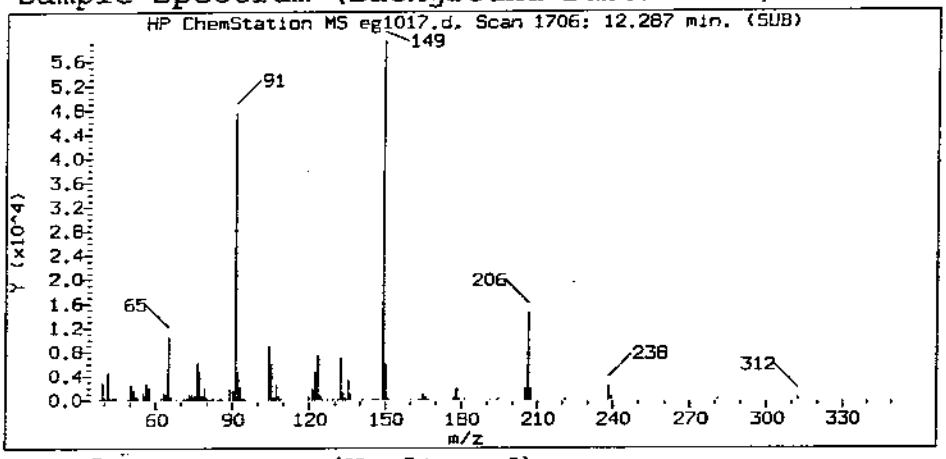
USF03 0251

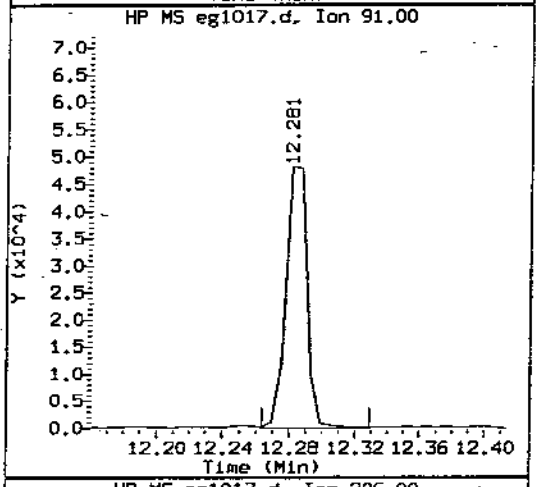
Reference Standard Spectrum for Butylbenzylphthalate



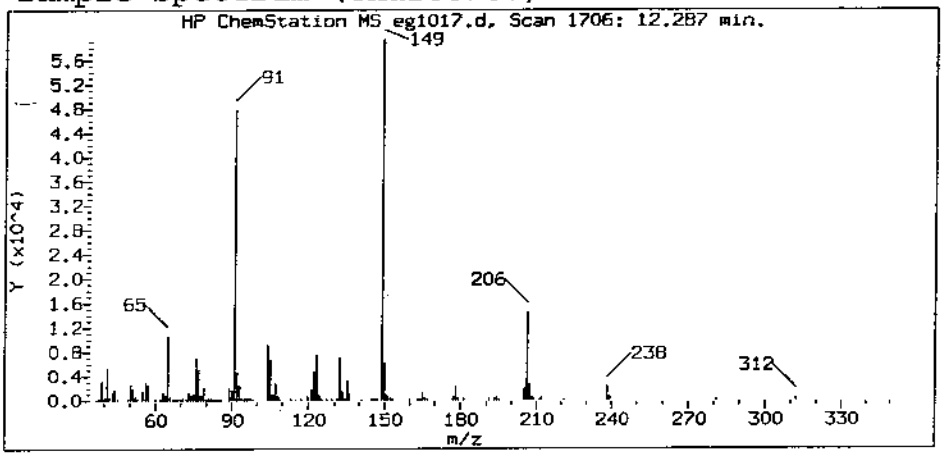


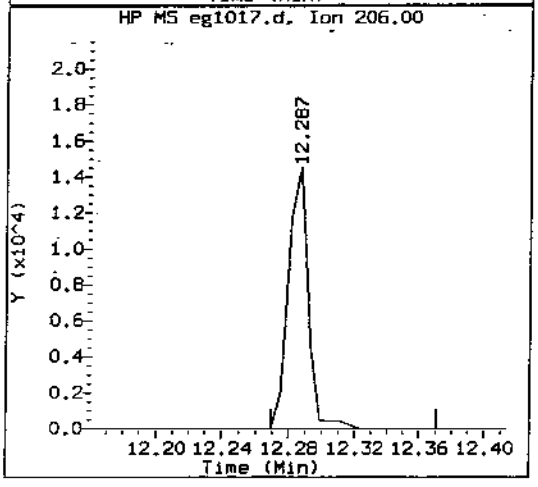
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

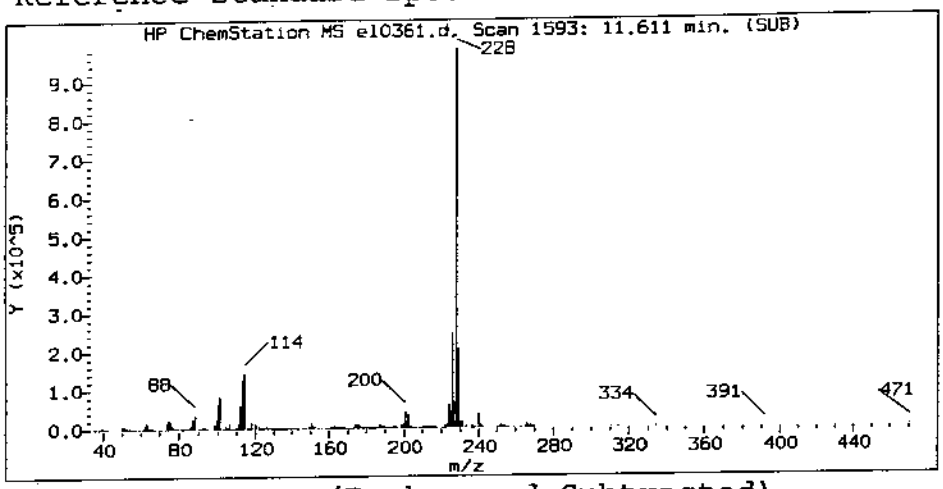
Sample Name: XXXXX

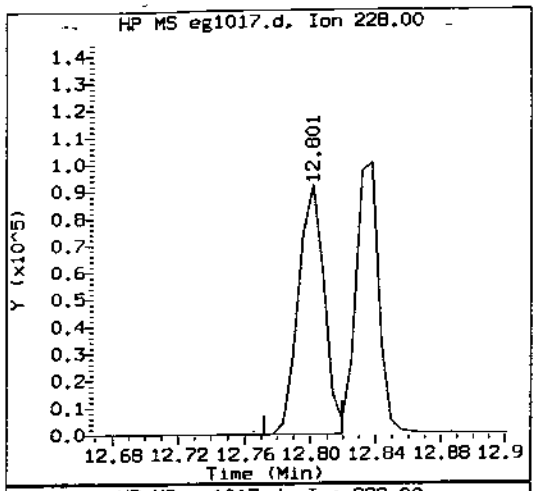
Lab Sample ID: 6339384

Compound Number	: 162
Compound Name	: Butylbenzylphthalate
Scan Number	: 1706
Retention Time (minutes)	: 12.287
Quant Ion	: 149.0
Area (flag)	: 50835
Concentration (ng/ul)	: 5.0468

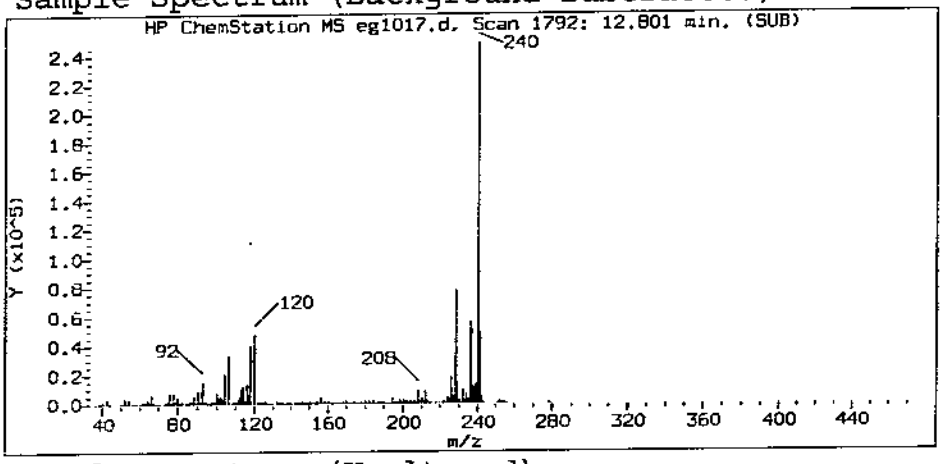
US883 0252

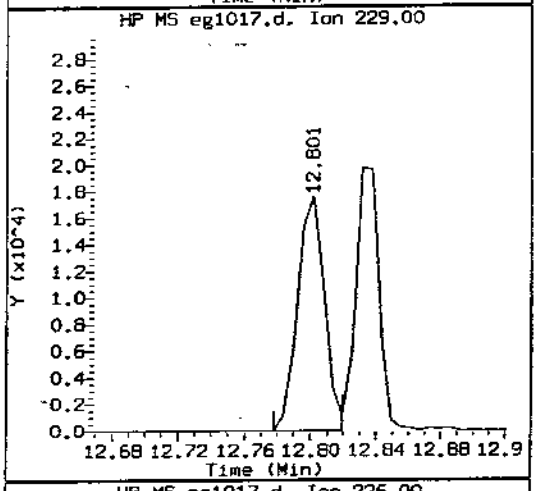
Reference Standard Spectrum for Benzo(a)anthracene



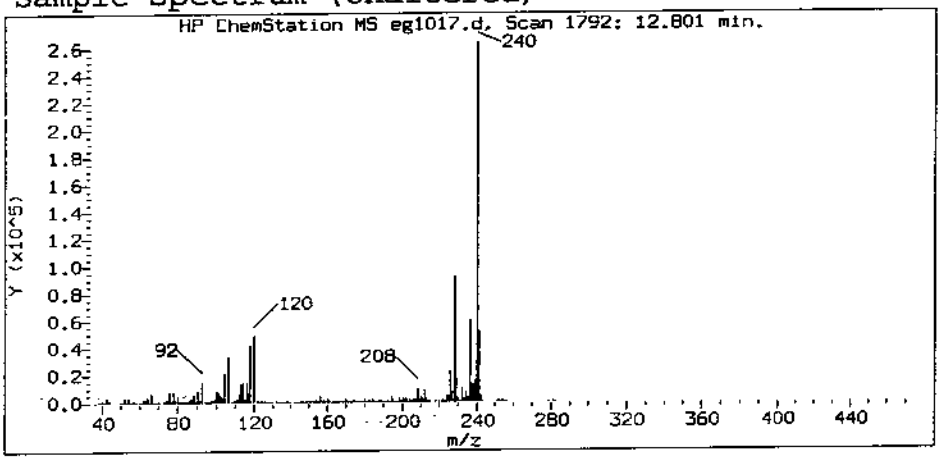


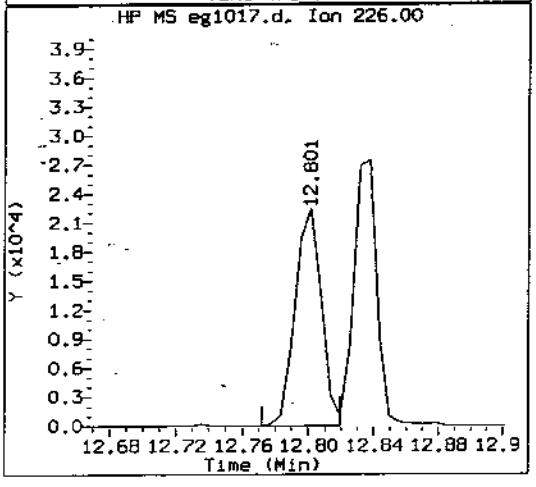
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

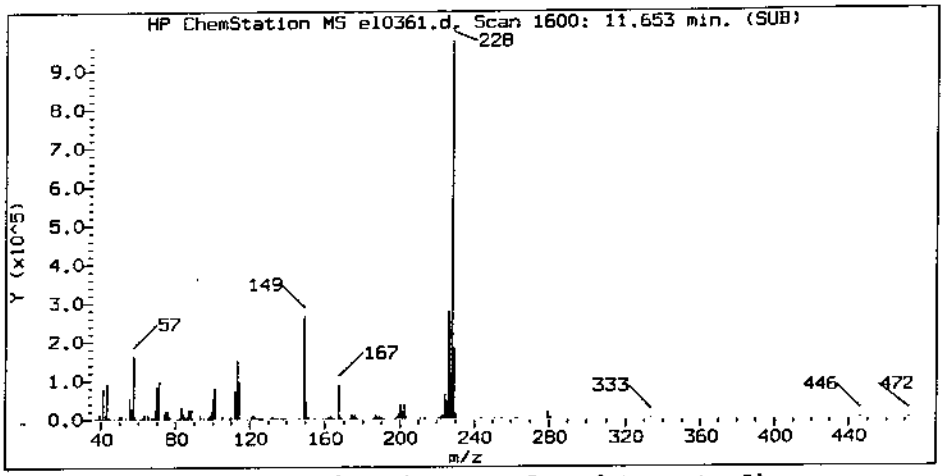
Sample Name: XXXXX

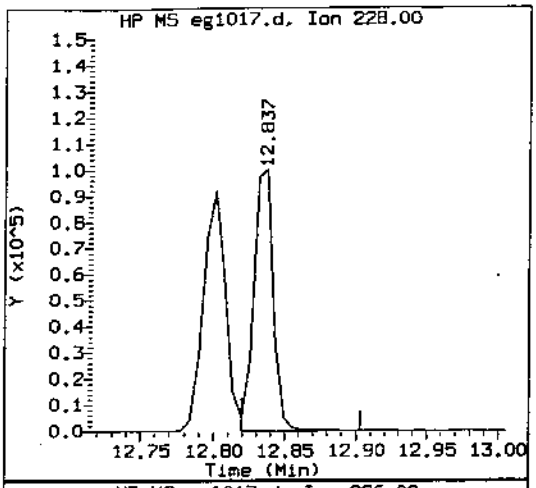
Lab Sample ID: 6339384

Compound Number	: 164
Compound Name	: Benzo(a)anthracene
Scan Number	: 1792
Retention Time (minutes)	: 12.801
Quant Ion	: 228.0
Area (flag)	: 98881
Concentration (ng/ul)	: 5.0175

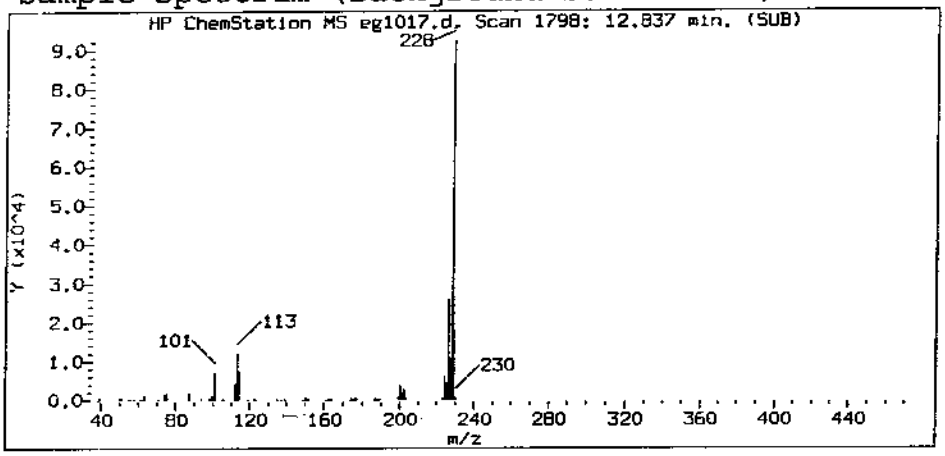
USP03 0253

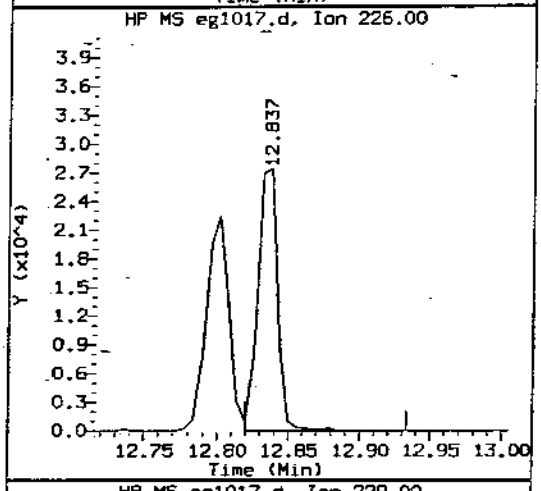
Reference Standard Spectrum for Chrysene



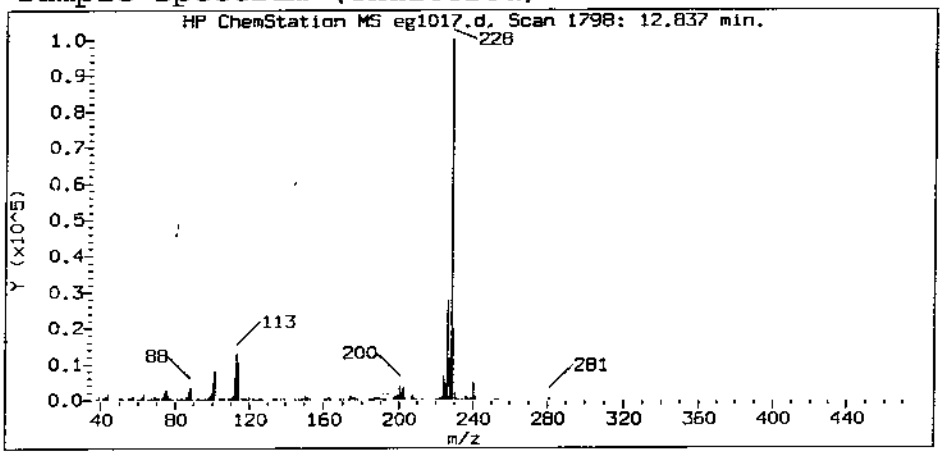


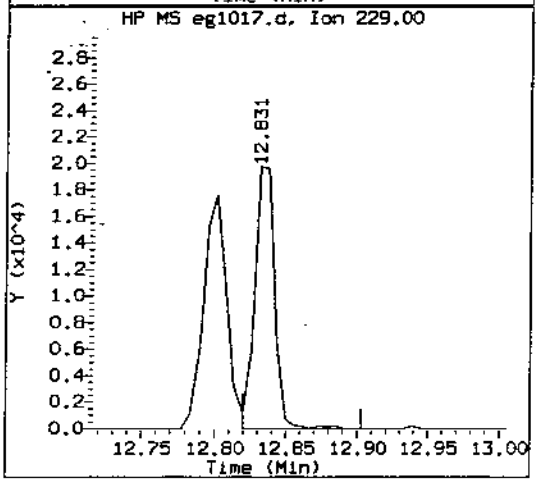
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

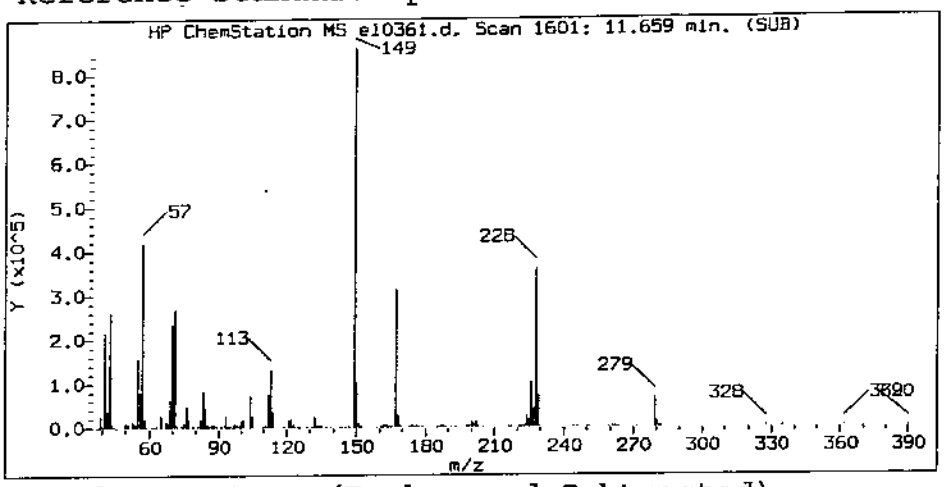
Sample Name: XXXXX

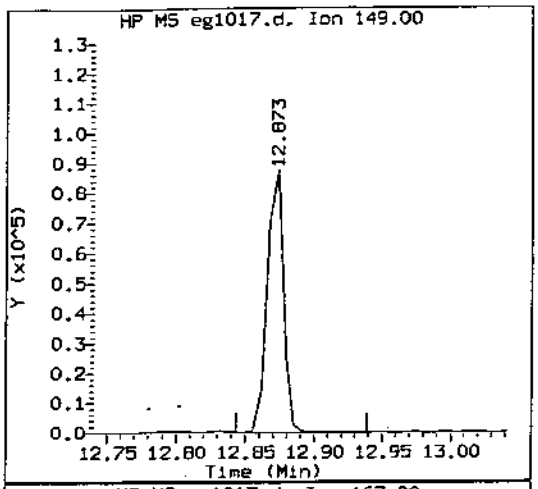
Lab Sample ID: 6339384

Compound Number	: 168
Compound Name	: Chrysene
Scan Number	: 1798
Retention Time (minutes)	: 12.837
Quant Ion	: 228.0
Area (flag)	: 96964
Concentration (ng/ul)	: 5.0076

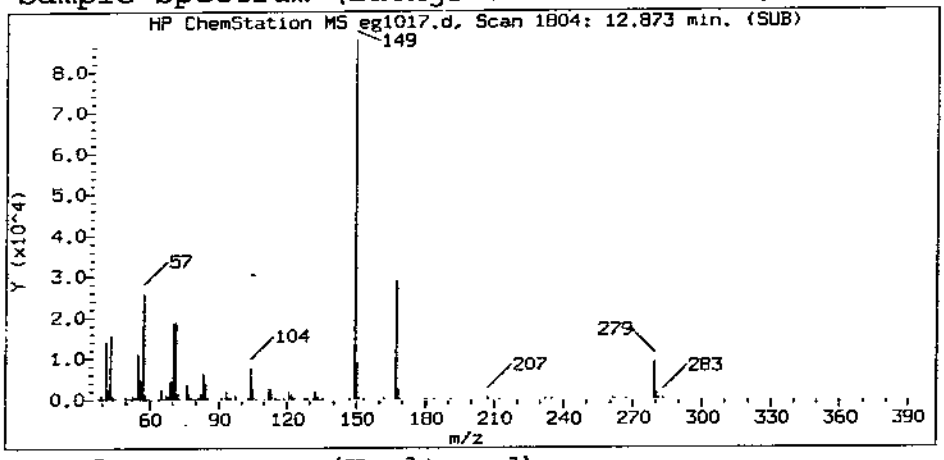
USF03 0254

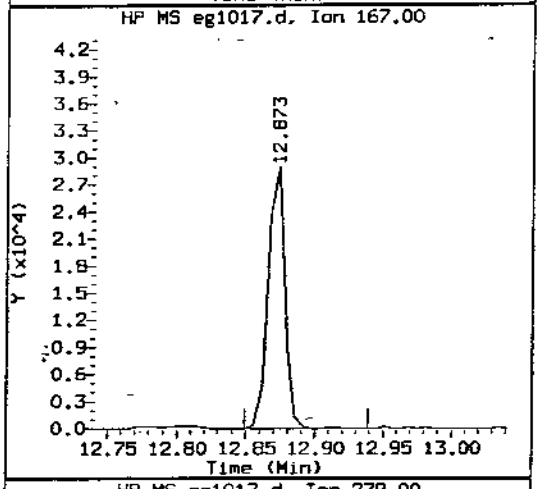
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



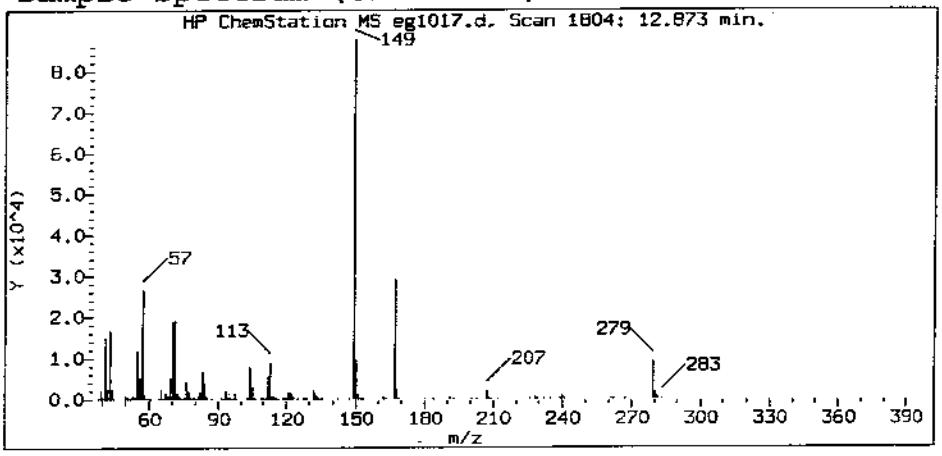


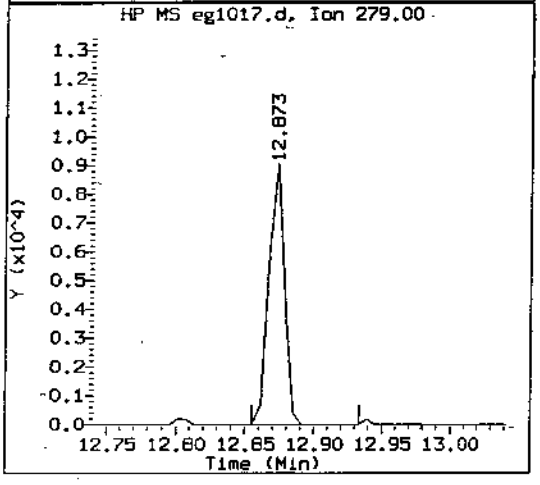
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

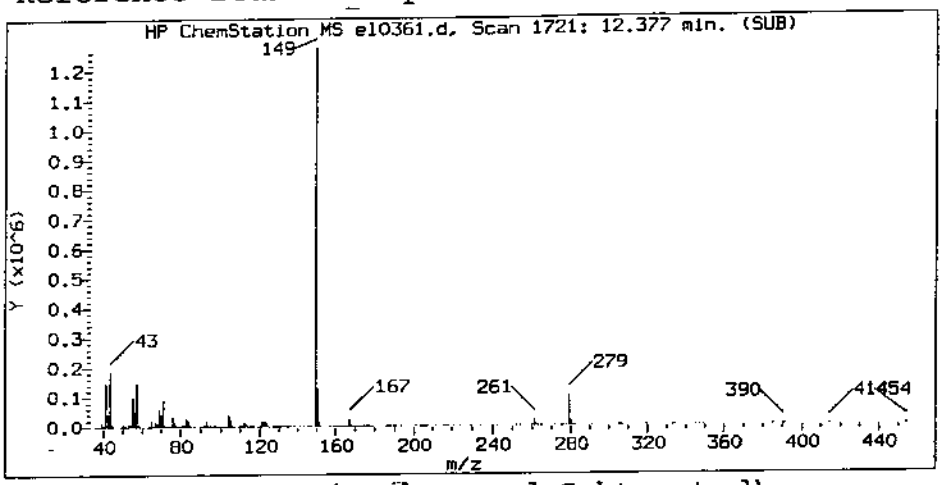
Sample Name: XXXXX

Lab Sample ID: 6339384

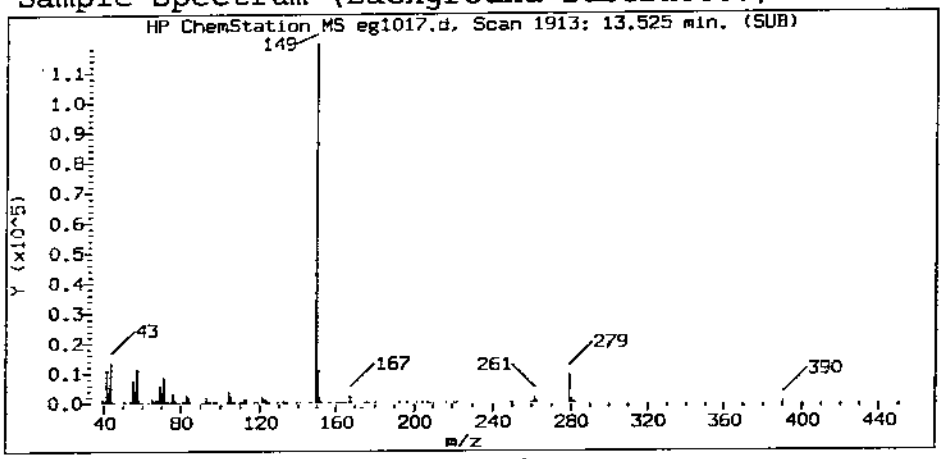
Compound Number : 169
Compound Name : bis(2-Ethylhexyl)phthalate
Scan Number : 1804
Retention Time (minutes): 12.873
Quant Ion : 149.0
Area (flag) : 72991
Concentration (ng/ul) : 5.3647

USF03 0255

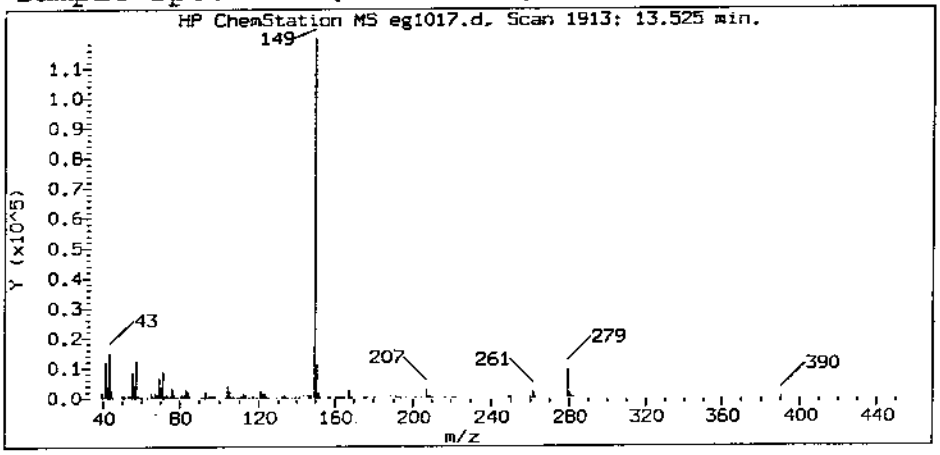
Reference Standard Spectrum for Di-n-octylphthalate

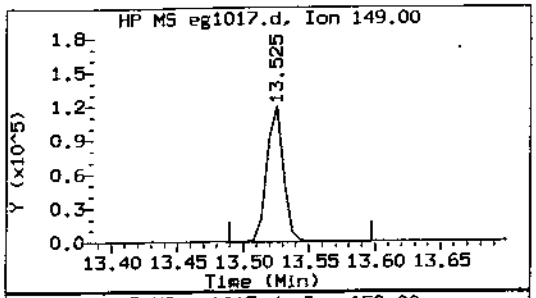


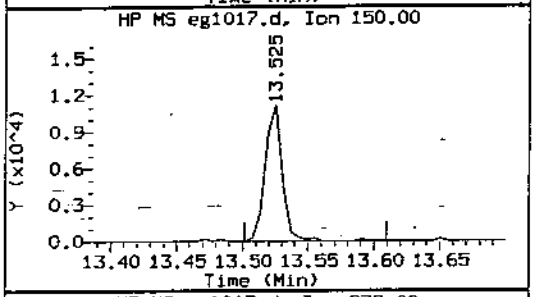
Sample Spectrum (Background Subtracted)

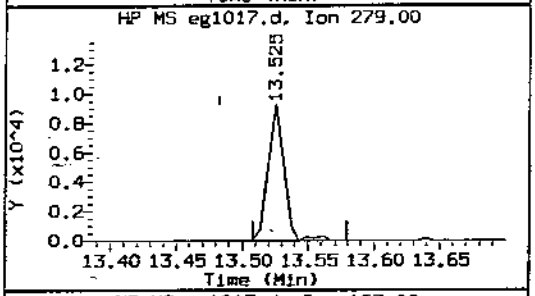


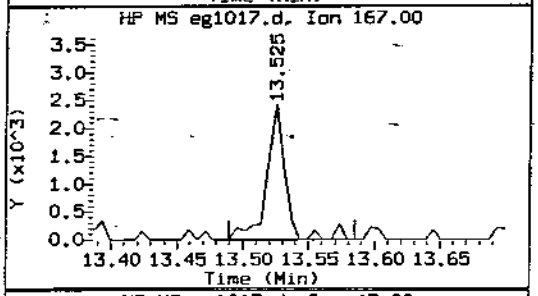
Sample Spectrum (Unaltered)

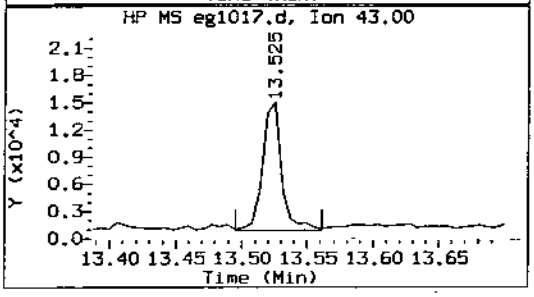












Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

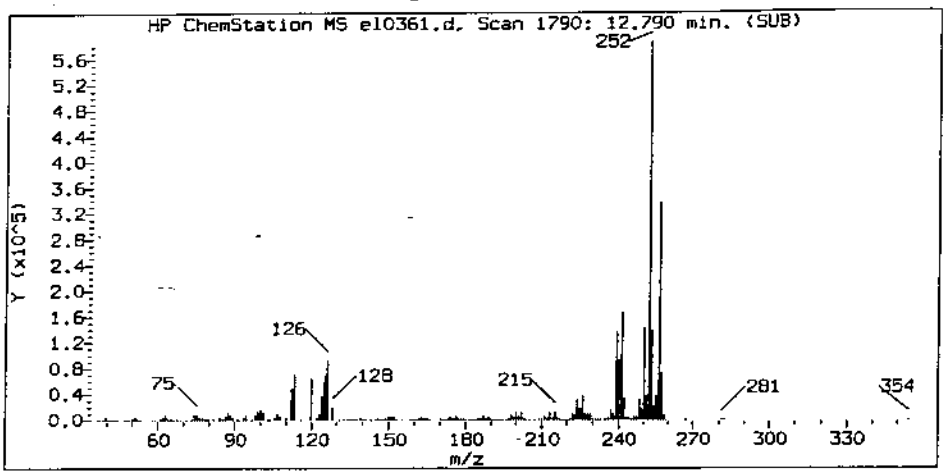
Sample Name: XXXXX

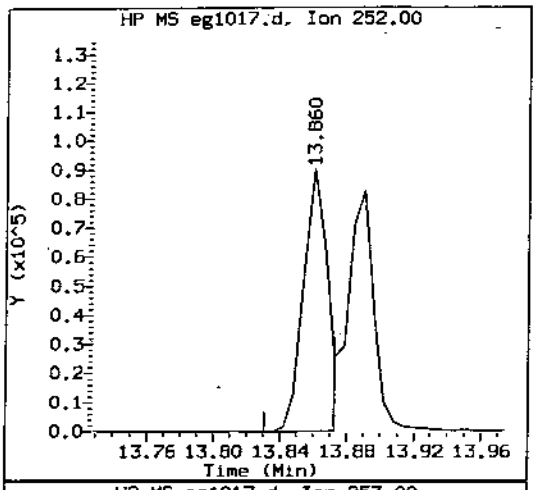
Lab Sample ID: 6339384

Compound Number	: 172
Compound Name	: Di-n-octylphthalate
Scan Number	: 1913
Retention Time (minutes)	: 13.525
Quant Ion	: 149.0
Area (flag)	: 107622
Concentration (ng/ul)	: 8.6510

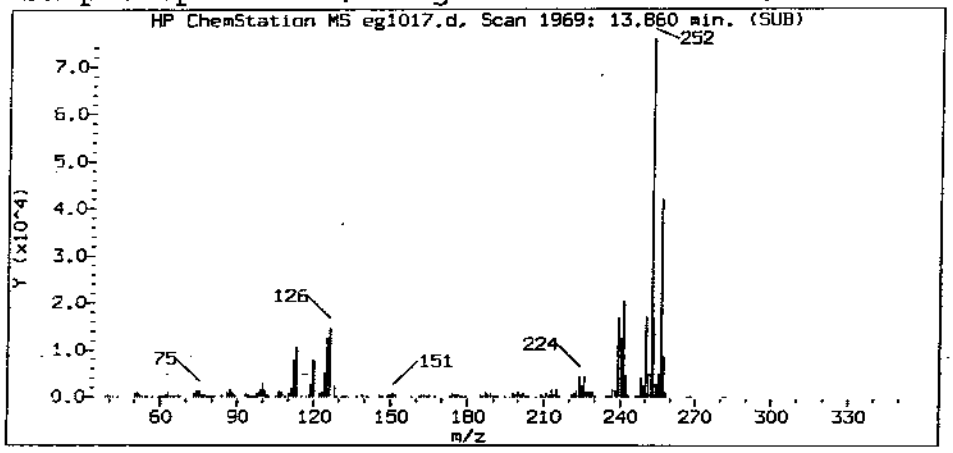
USF03 0256

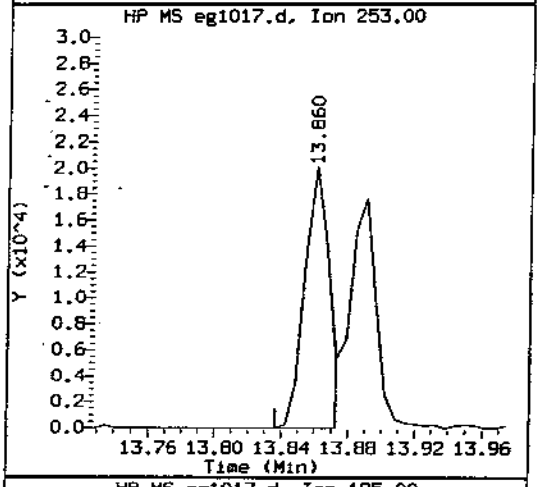
Reference Standard Spectrum for Benzo(b)fluoranthene



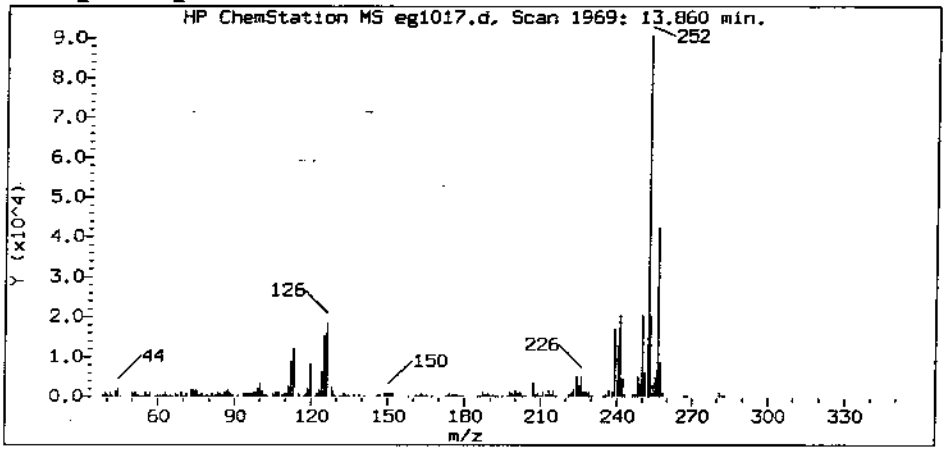


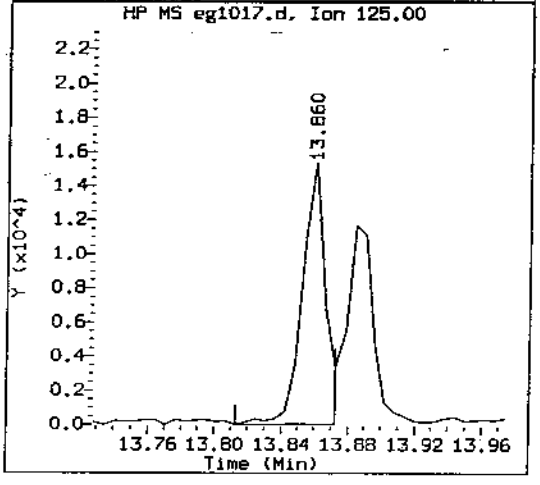
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

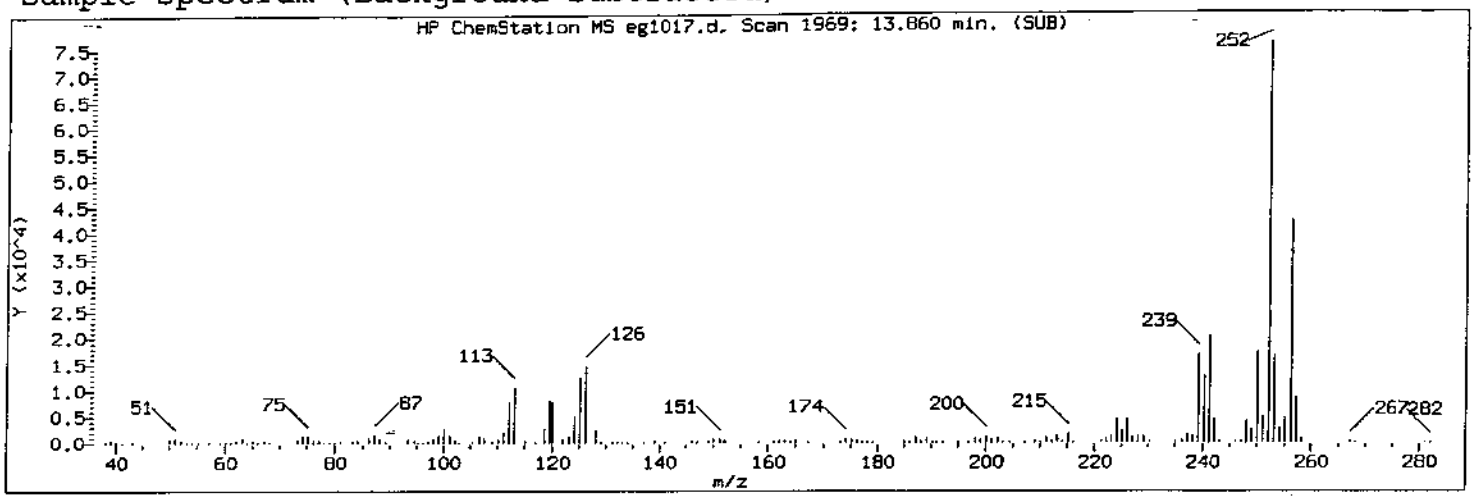
Sample Name: XXXXX

Lab Sample ID: 6339384

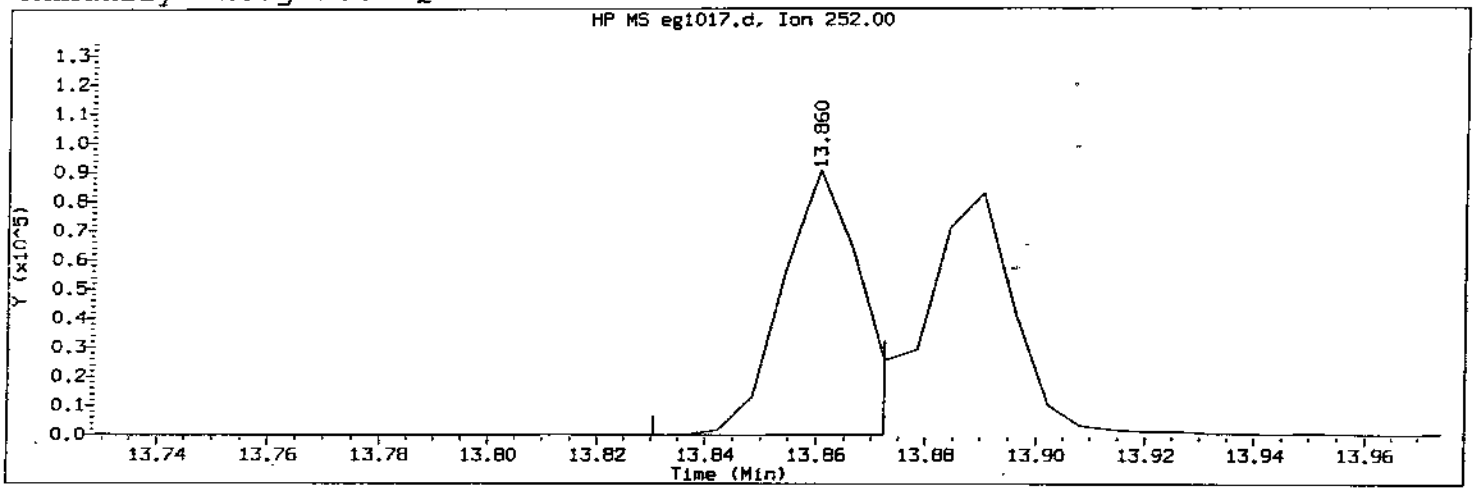
Compound Number	: 173
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1969
Retention Time (minutes)	: 13.860
Quant Ion	: 252.0
Area (flag)	: 85286A
Concentration (ng/ul)	: 5.2392

USF03 0257

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1017.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 14:06 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

Sample Name: XXXXX Lab Sample ID: 6339384

Compound Number	: 173
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1969
Retention Time (minutes)	: 13.860
Quant Ion	: 252
Area (flag)	: 85286A
Concentration (ng/ul)	: 5.2392
Integration start scan	: 1963 Integration stop scan: 1970
Y at integration start	: 0 Y at integration end: 149

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: lmh 07/23/11

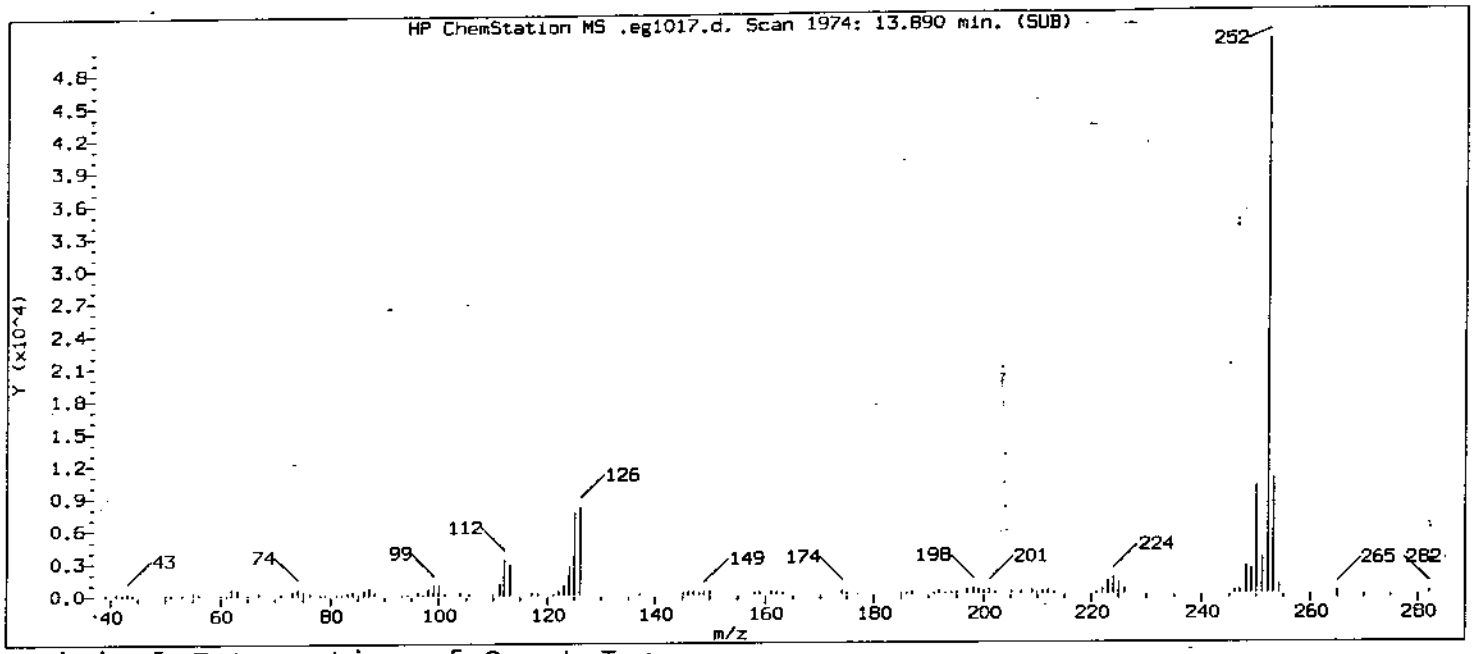
GC/MS audit/management approval: Mark A. Ratcliff
Senior Specialist

USF03 0258

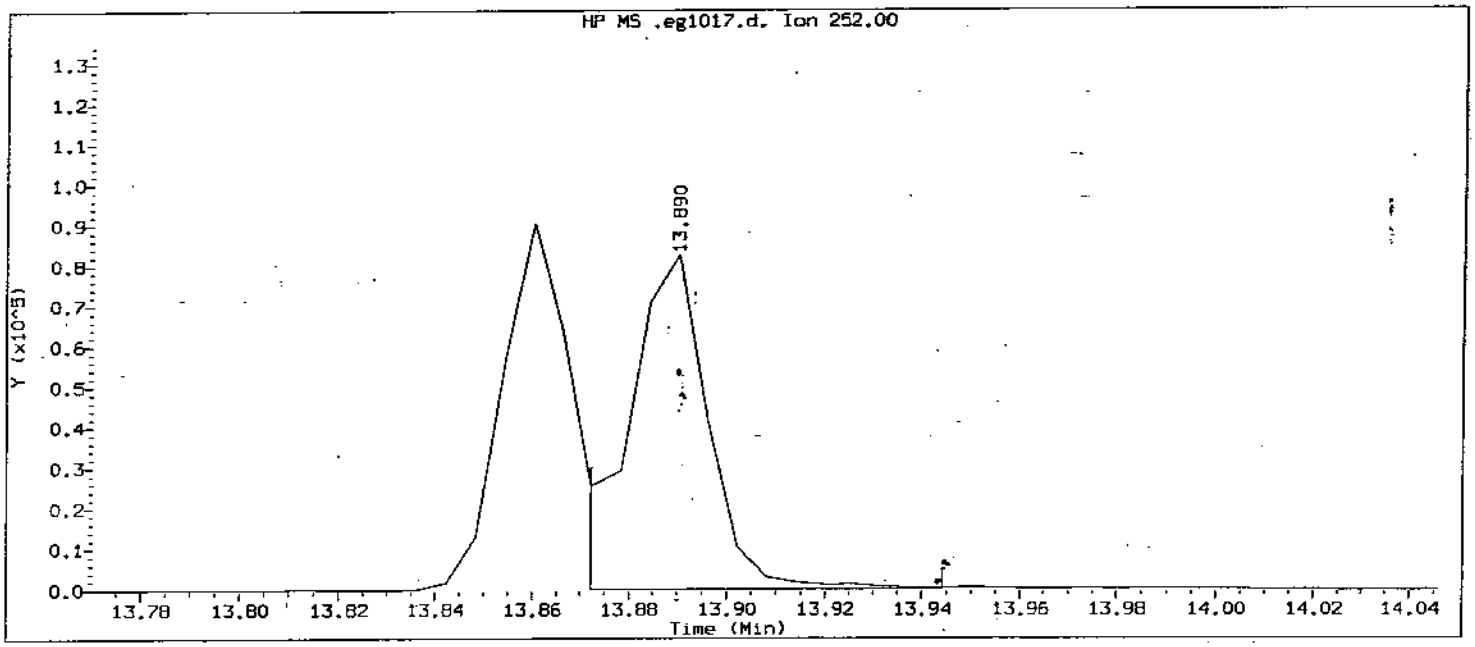
JUL 25 2011

Manual Integration Report for data file /chem/HP09572.i/11jul23.b/eg1017.d, generated on 07/23/2011 at 15:52

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1017.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 14:06 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all1
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 14:26 Automation

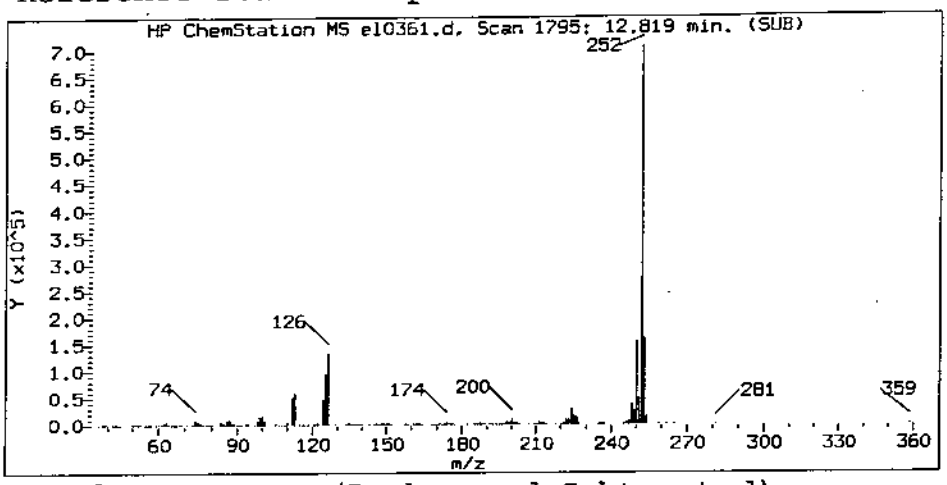
Sample Name: XXXXX Lab Sample ID: 6339384

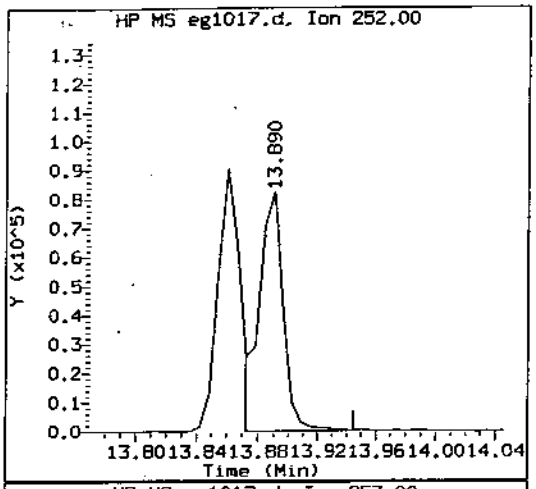
Compound Number	: 173
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1974
Retention Time (minutes)	: 13.890
Quant Ion	: 252
Area	: 91531
Concentration (ng/ul)	: 5.6229
Integration start scan	: 1970 Integration stop scan: 1982
Y at integration start	: 149 Y at integration end: 170

USF03 0259

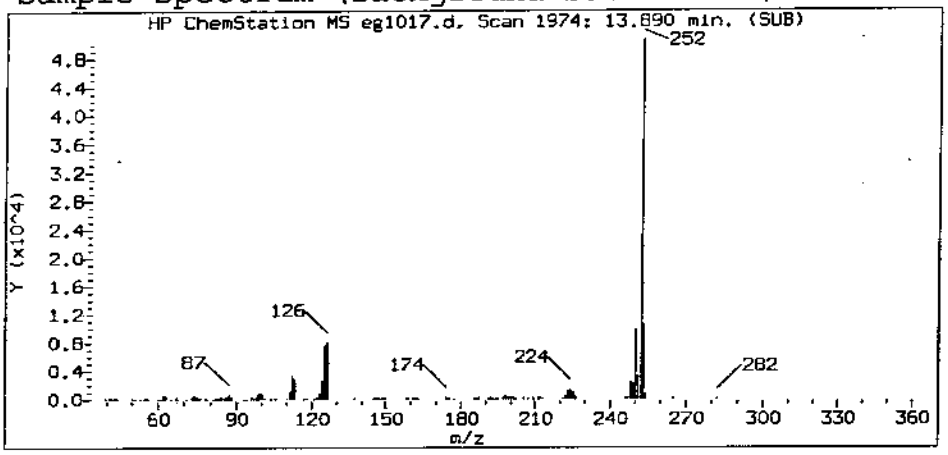
Original Integration Report for data file /chem/HP09572.i/11jul23.b/eg1017.d, generated on 07/23/2011 at 15:52

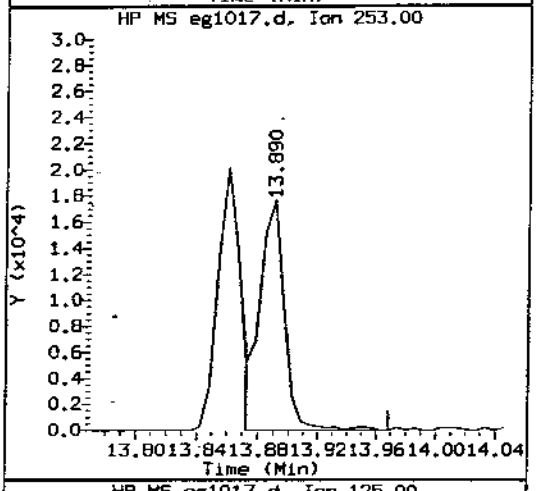
Reference Standard Spectrum for Benzo(k)fluoranthene



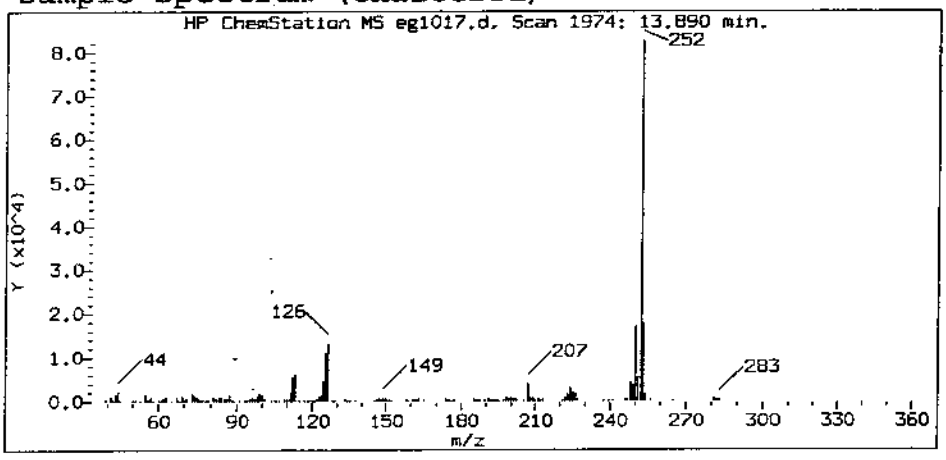


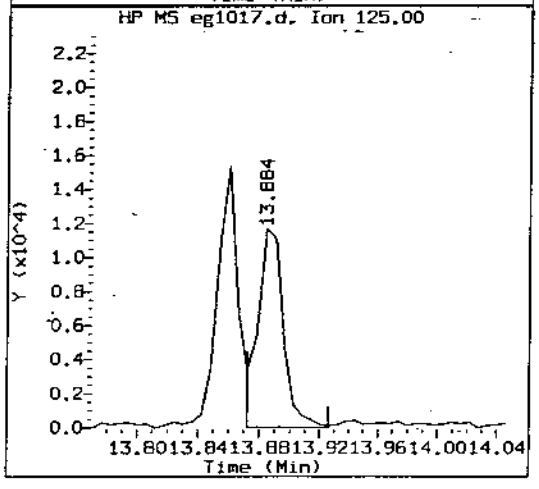
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

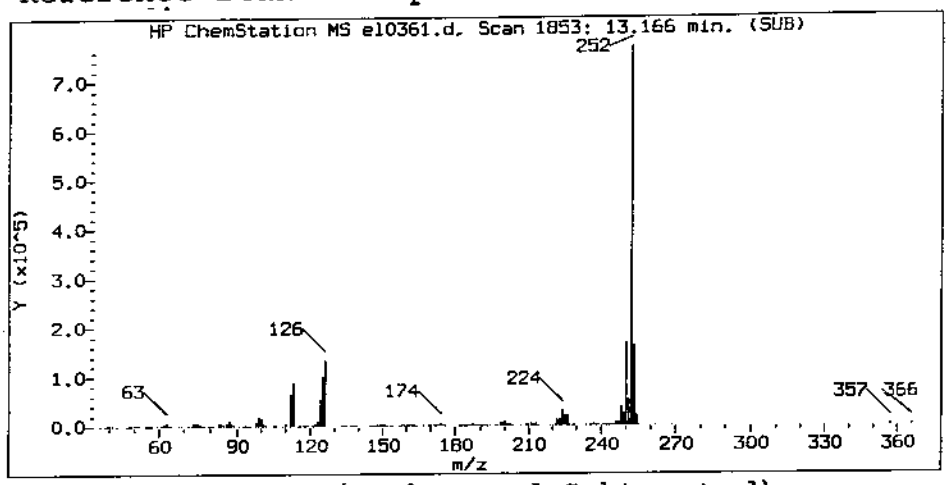
Sample Name: XXXXX

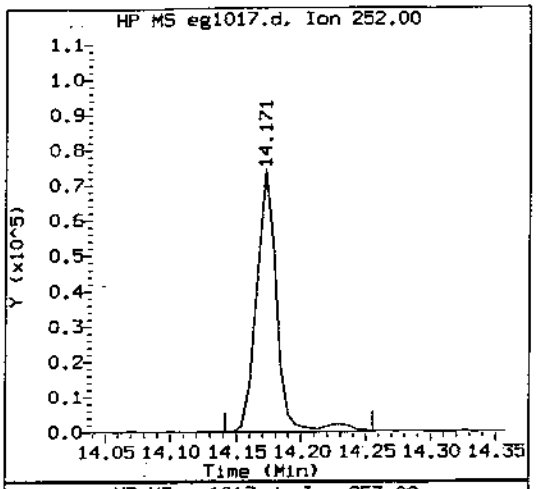
Lab Sample ID: 6339384

Compound Number	: 175
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1974
Retention Time (minutes)	: 13.890
Quant Ion	: 252.0
Area (flag)	: 91535
Concentration (ng/ul)	: 5.0437

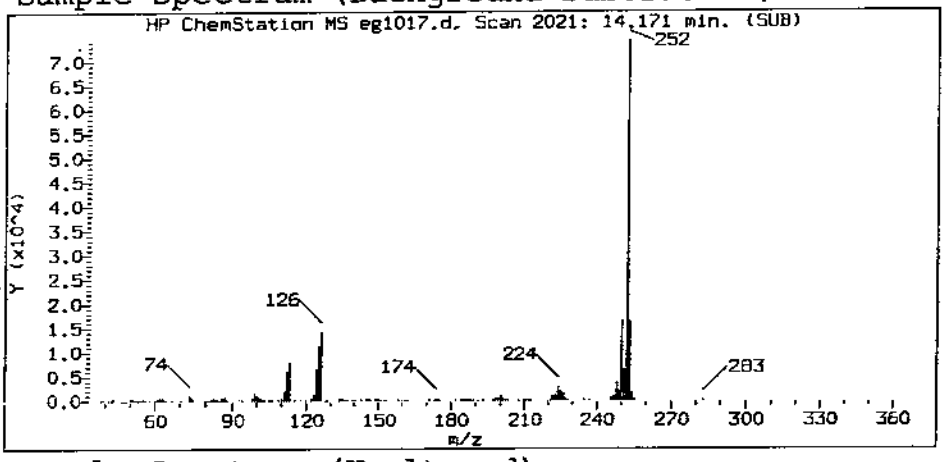
USF03 0268

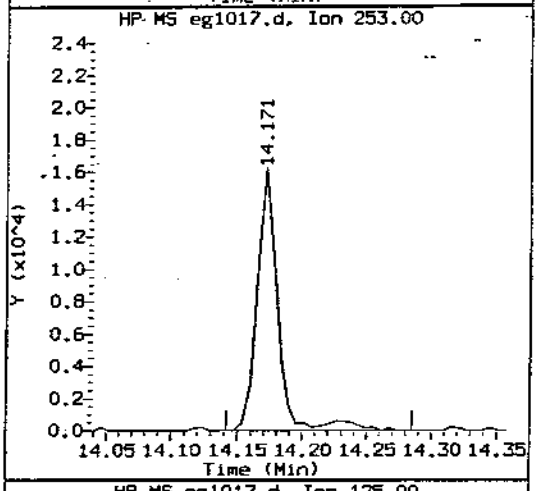
Reference Standard Spectrum for Benzo(a)pyrene



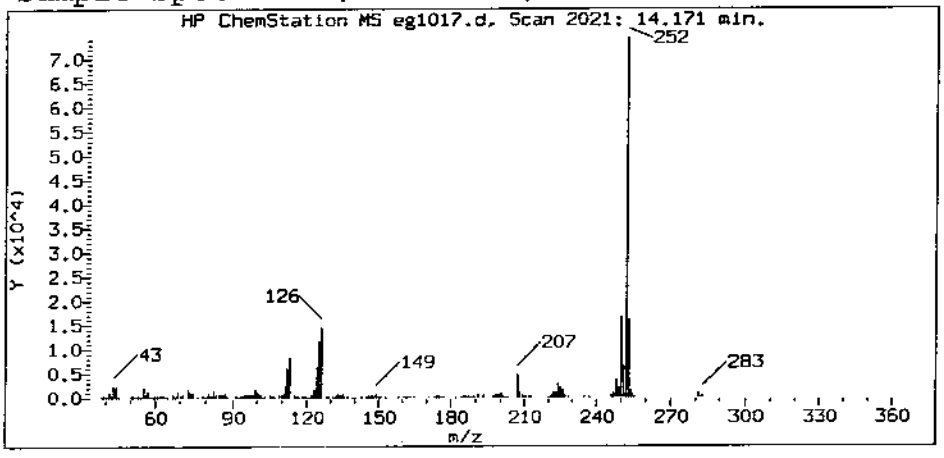


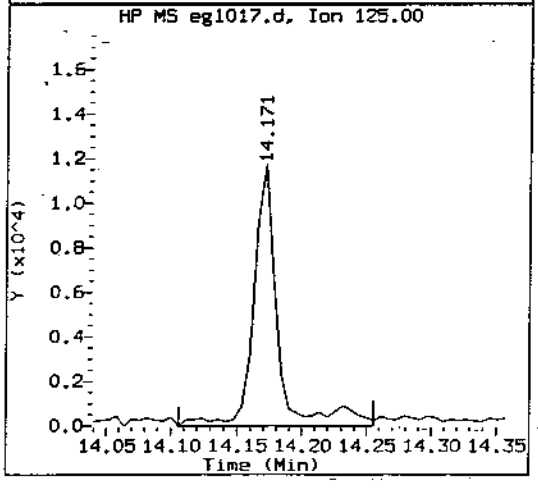
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

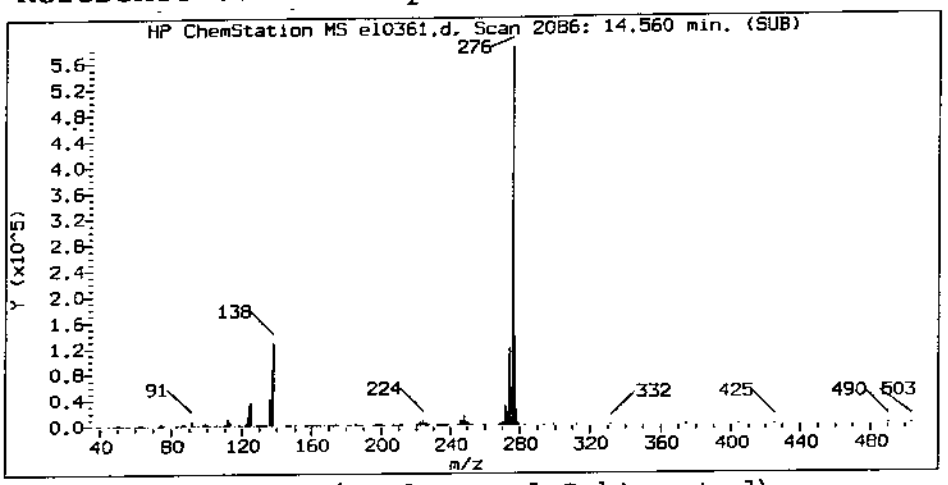
Sample Name: XXXXX

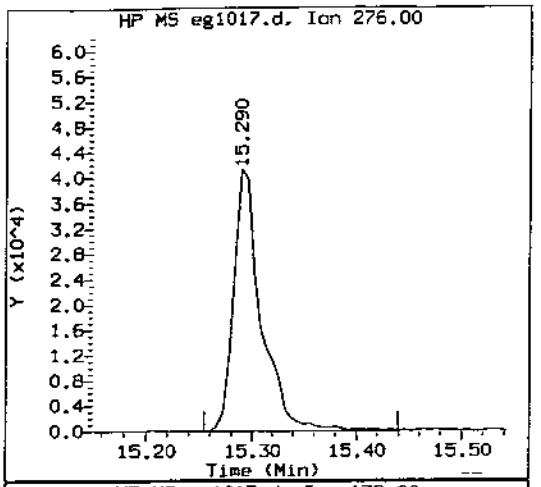
Lab Sample ID: 6339384

Compound Number	: 176
Compound Name	: Benzo(a)pyrene
Scan Number	: 2021
Retention Time (minutes)	: 14.171
Quant Ion	: 252.0
Area (flag)	: 80796
Concentration (ng/ul)	: 5.1984

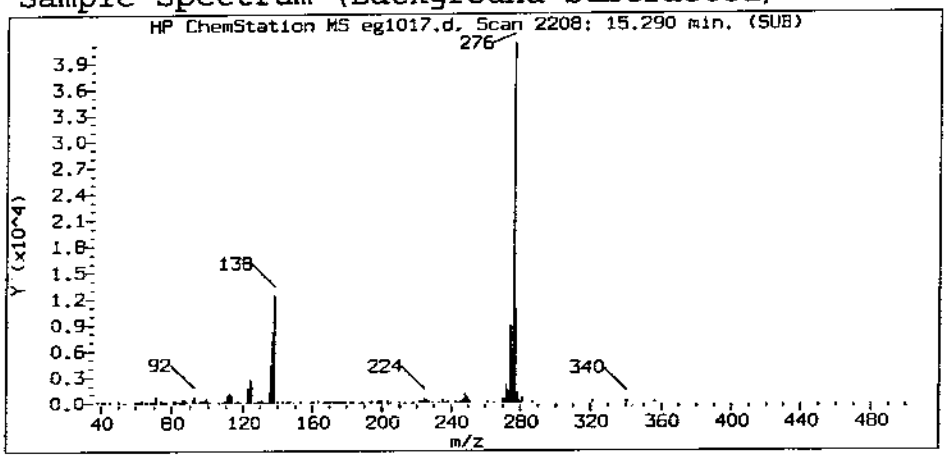
-USF03 8261

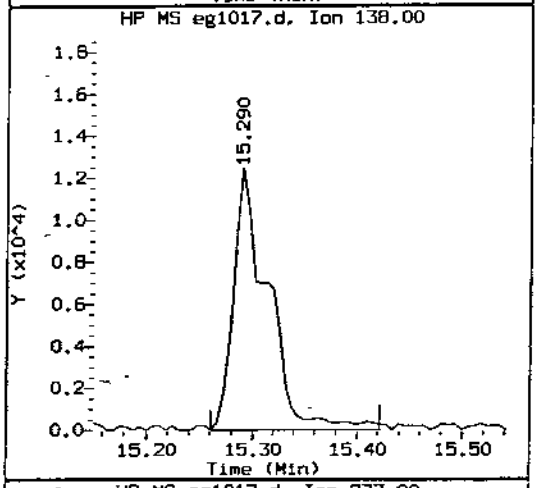
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



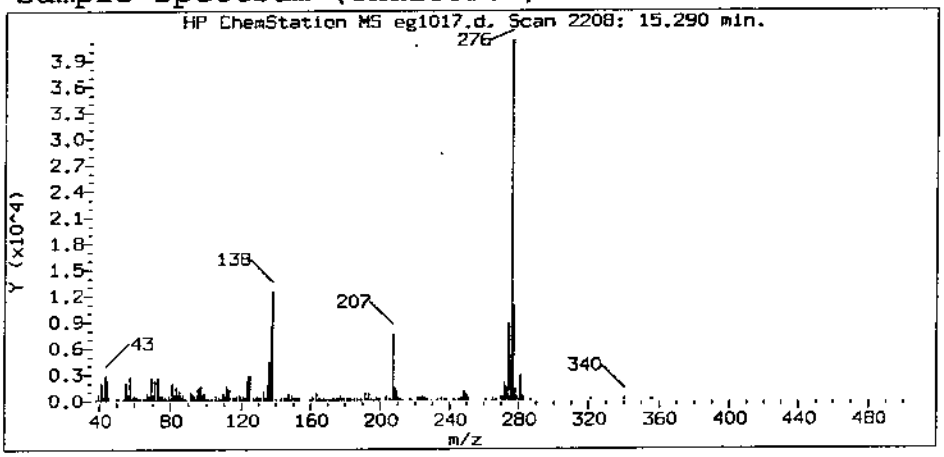


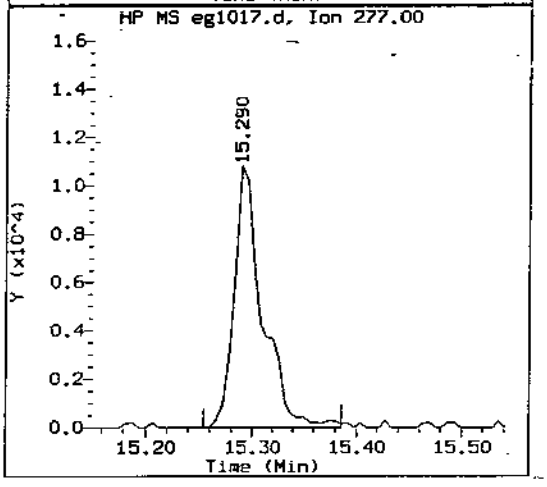
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

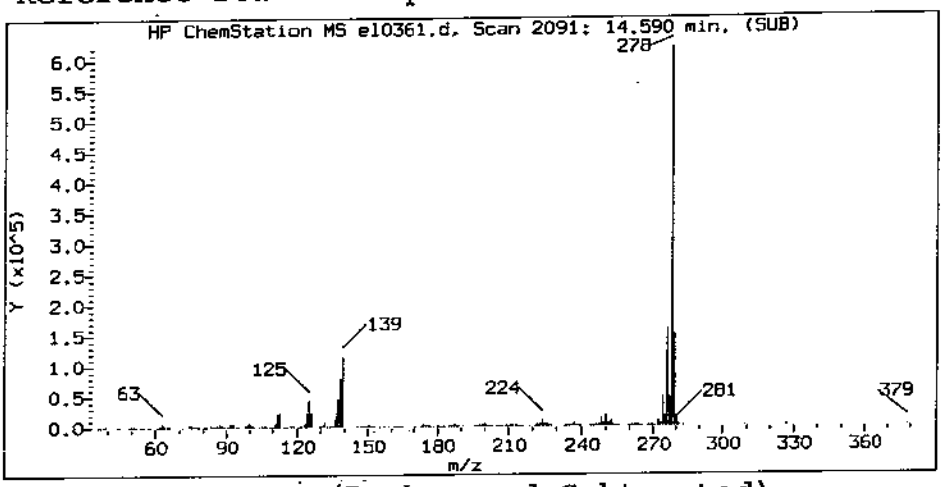
Sample Name: XXXXX

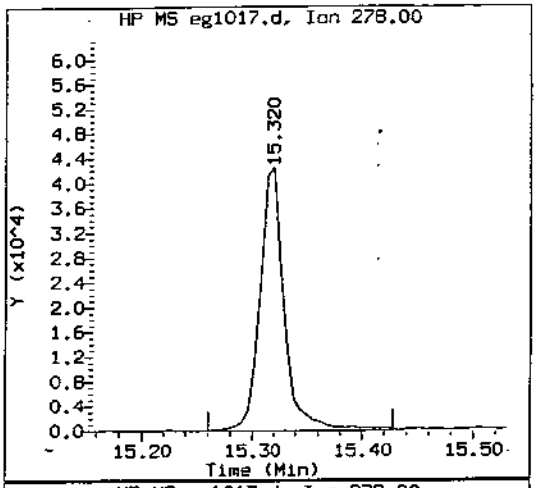
Lab Sample ID: 6339384

Compound Number	: 185
Compound Name	: Indeno(1,2,3-cd)pyrene
Scan Number	: 2208
Retention Time (minutes)	: 15.290
Quant Ion	: 276.0
Area (flag)	: 77143
Concentration (ng/ul)	: 4.8026

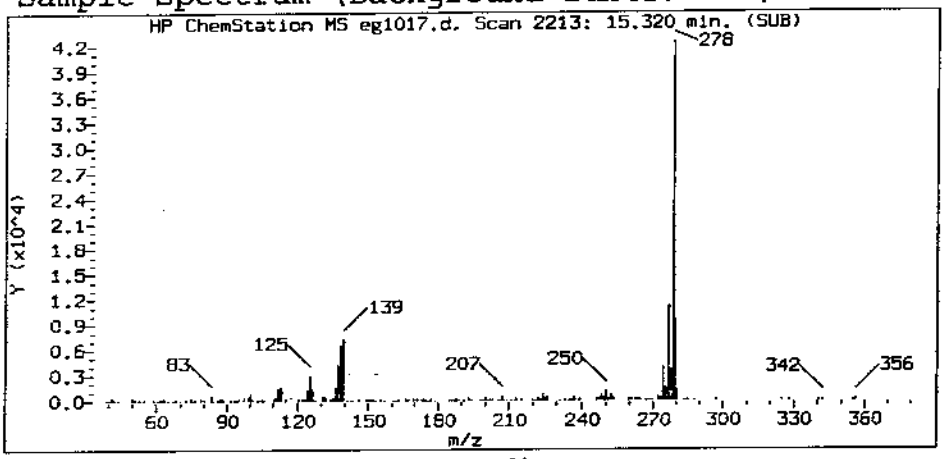
USF03 0262

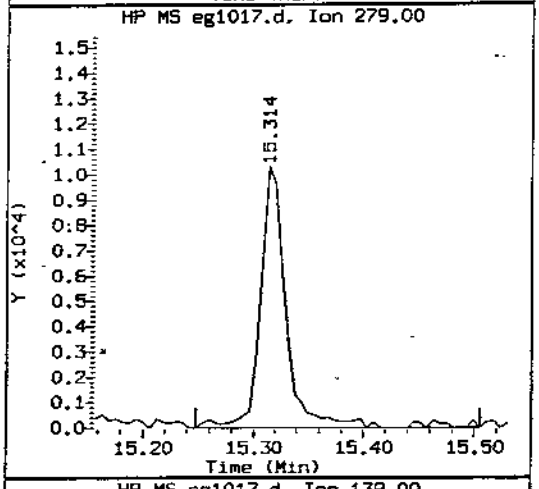
Reference Standard Spectrum for Dibenz(a,h)anthracene



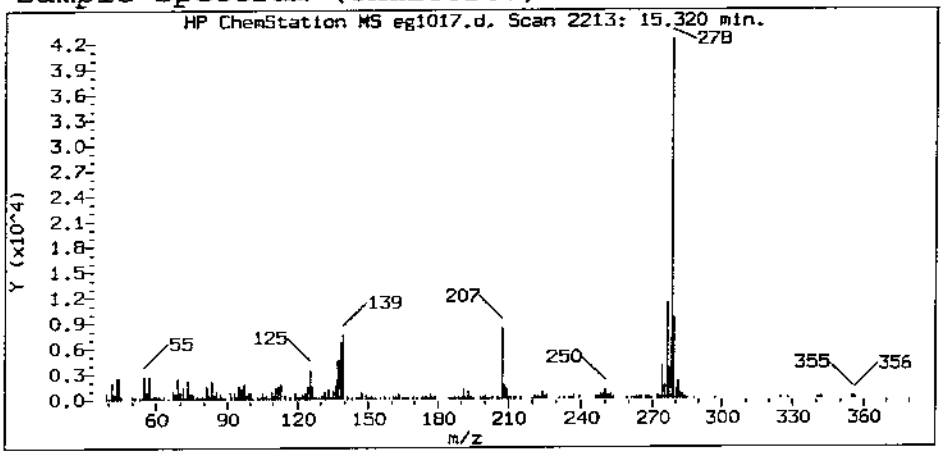


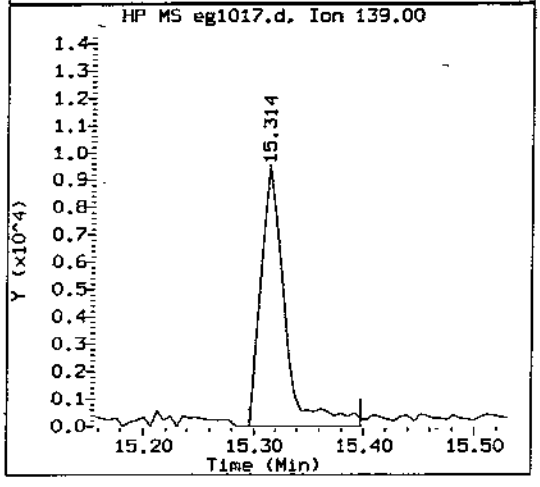
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

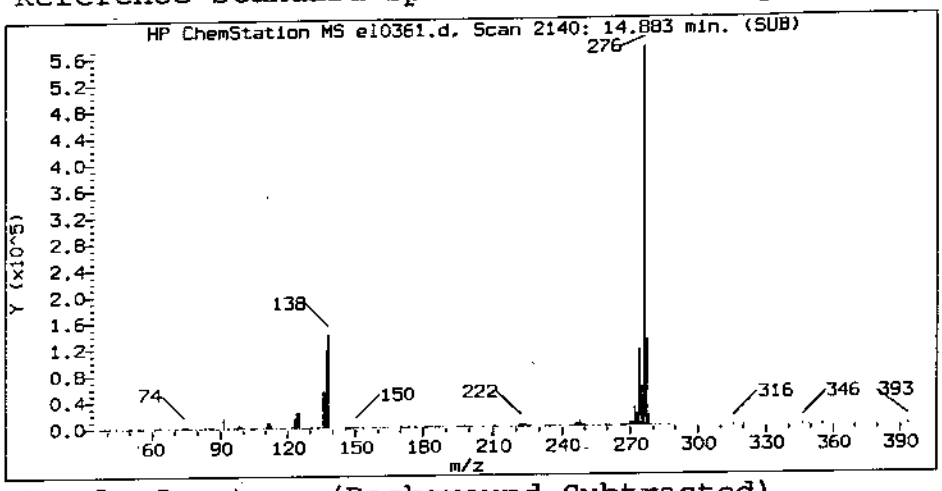
Sample Name: XXXXX

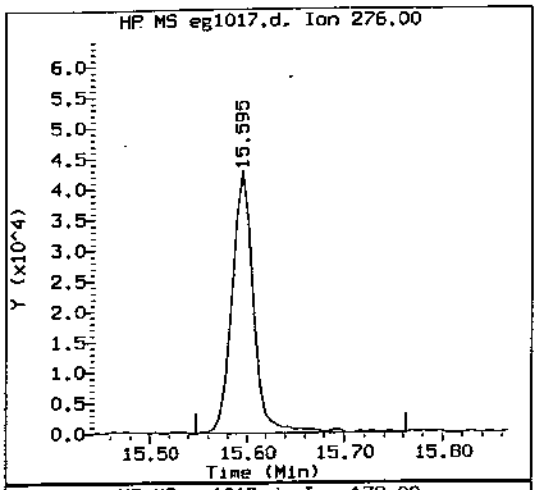
Lab Sample ID: 6339384

Compound Number	: 187
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 2213
Retention Time (minutes)	: 15.320
Quant Ion	: 278.0
Area (flag)	: 67363
Concentration (ng/ul)	: 4.9738

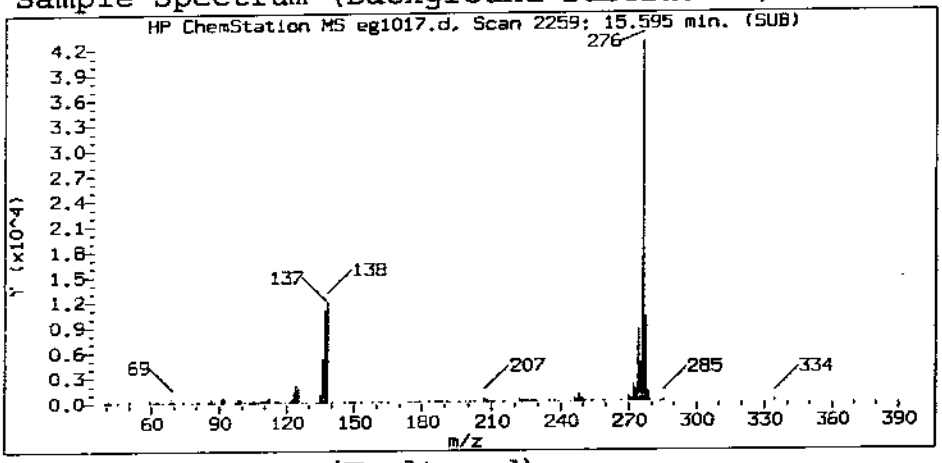
USF03 0263

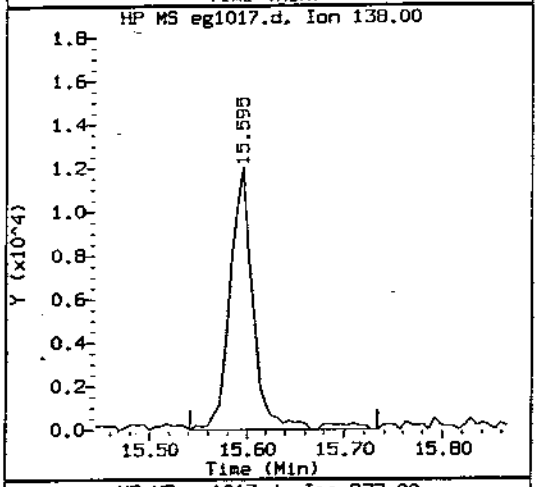
Reference Standard Spectrum for Benzo(g,h,i)perylene



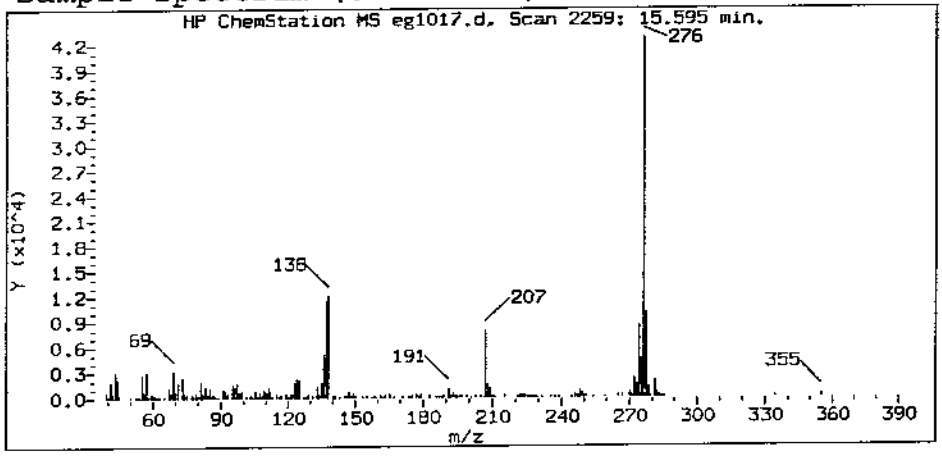


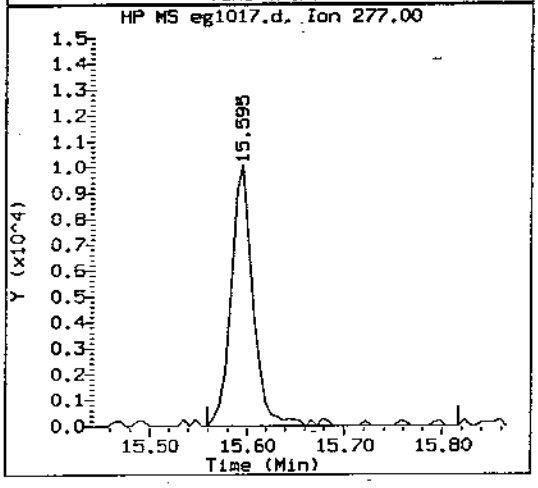
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul23.b/eg1017.d
Injection date and time: 23-JUL-2011 14:06

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 15:51 lmh00956

Sample Name: XXXXX

Lab Sample ID: 6339384

Compound Number	: 188
Compound Name	: Benzo(g,h,i)perylene
Scan Number	: 2259
Retention Time (minutes)	: 15.595
Quant Ion	: 276.0
Area (flag)	: 67621
Concentration (ng/ul)	: 5.0157

USF03 #264

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339386

Data file: /chem/HP09572.i/11jul24.b/eg1063.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 14:48 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:29 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.784(0.000)	619	152.0	131165(6)	40.00	
53) Naphthalene-d8	7.034(0.000)	828	136.0	612923(6)	40.00	
103) Acenaphthene-d10	8.751(0.000)	1115	164.0	395596(6)	40.00	
140) Phenanthrene-d10	10.193(0.006)	1356	188.0	634262(-2)	40.00	
166) Chrysene-d12	12.783(0.006)	1789	240.0	466798(-28)	40.00	
177) Perylene-d12	14.207(0.000)	2027	264.0	404400(-30)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.335(0.000)	82	629496	88.704	89%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.105(0.000)	172	1067510	85.641	86%		67 - 115
157) Terphenyl-d14	(5)	11.772(-0.001)	244	999680	102.615	103%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)				ND	ND			0.50
69) 2-Methylnaphthalene	(2)				ND	ND			0.50
71) 1-Methylnaphthalene	(2)				ND	ND			0.50
92) Dimethylphthalate	(3)				ND	ND			0.50
100) Acenaphthylene	(3)				ND	ND			0.50
106) Acenaphthene	(3)				ND	ND			0.50
118) Diethylphthalate	(3)				ND	ND			0.50
119) Fluorene	(3)				ND	ND			0.50
141) Phenanthrene	(4)				ND	ND			0.50
143) Anthracene	(4)				ND	ND			0.50
148) Di-n-butylphthalate	(4)				ND	ND			0.50
153) Fluoranthene	(4)				ND	ND			0.50
155) Pyrene	(5)				ND	ND			0.50
162) Butylbenzylphthalate	(5)	12.245(0.001)	149	12500	1.904	62.83			0.50
164) Benzo(a)anthracene	(5)				ND	ND			0.50
168) Chrysene	(5)				ND	ND			0.50
169) bis(2-Ethylhexyl)phthalate	(5)				ND	ND			0.50
172) Di-n-octylphthalate	(6)				ND	ND			0.50
173) Benzo(b)fluoranthene	(6)				ND	ND			0.50
175) Benzo(k)fluoranthene	(6)				ND	ND			0.50
176) Benzo(a)pyrene	(6)				ND	ND			0.50
185) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			0.50
187) Dibenz(a,h)anthracene	(6)				ND	ND			0.50
188) Benzo(g,h,i)perylene	(6)				ND	ND			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0265

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339386

Data file: /chem/HP09572.i/11jul24.b/eg1063.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 24-JUL-2011 14:48 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:29 lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: ORSsoil
Calibration date and time (Last Method Edit): 25-JUL-2011 23:52
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul24.b/eg1051.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

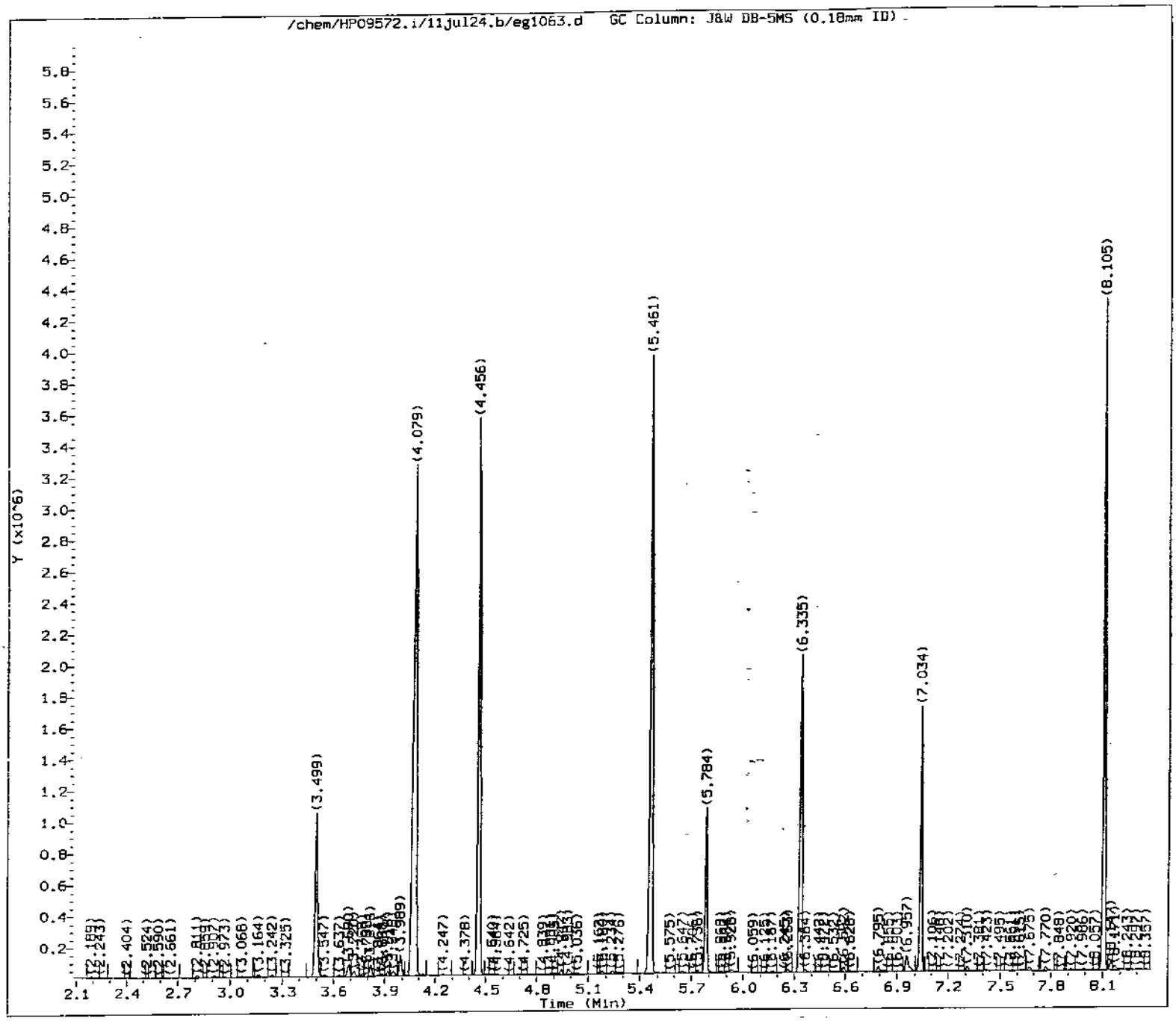
Comments:

Analyst: Date: 7/27/11
Auditor: Date:

Mark A. Ratcliff
Senior Specialist

JUL 27 2011

USF03 0266



Quant Report

Target Revision 3.5

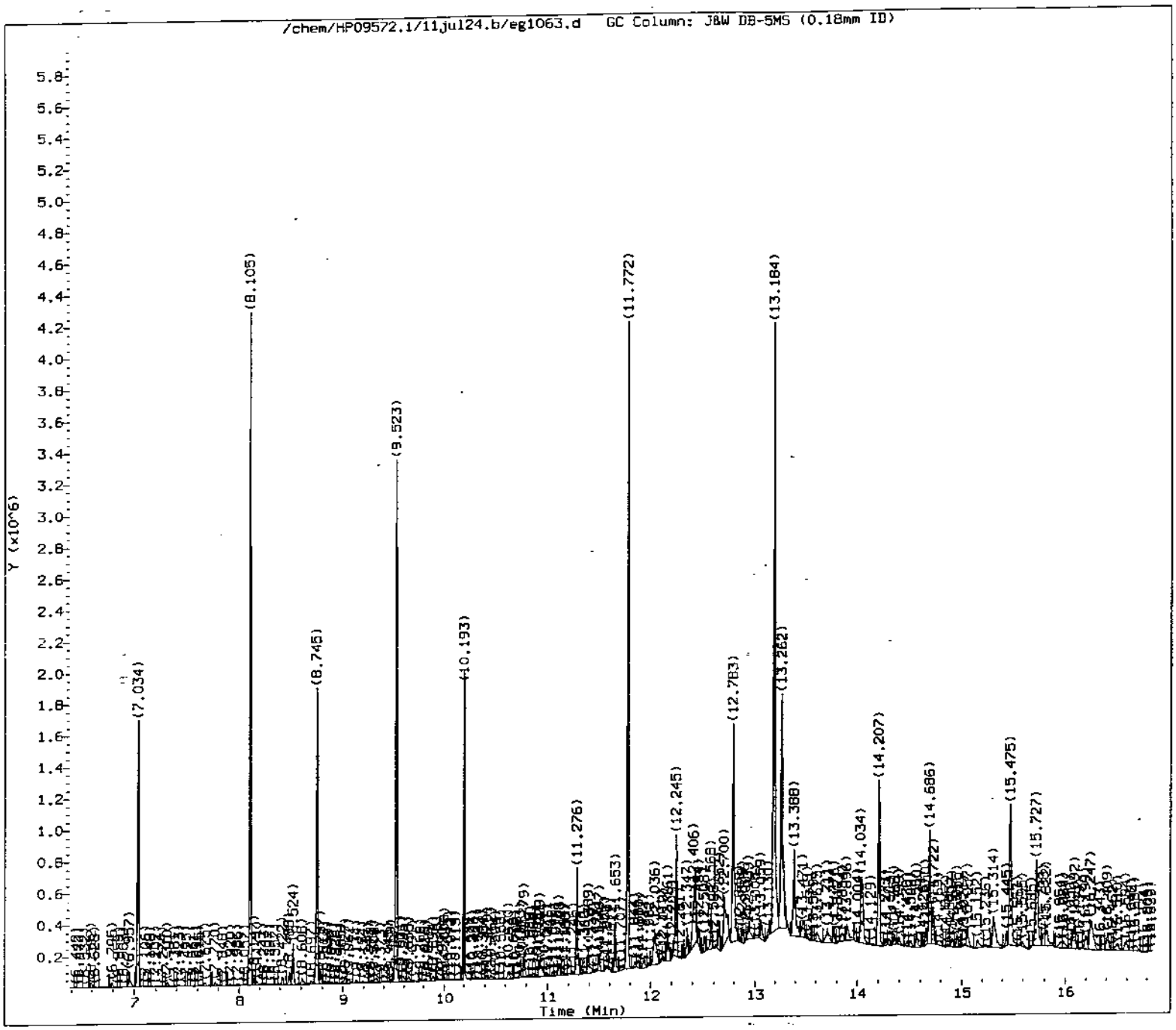
Data File: /chem/HP09572.i/11jul24.b/eg1063.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 14:48 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 25-Jul-2011 00:35 bkg00522

Sample Name: XXXXX Lab Sample ID: 6339386

Blow 7-25-11

USF03 0287



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1063.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 14:48 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 25-Jul-2011 00:35 bkg00522

Sample Name: XXXXX Lab Sample ID: 6339386

BK 7-25-11

USF03 0260

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1063.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 14:48 Analyst ID: lmh00956

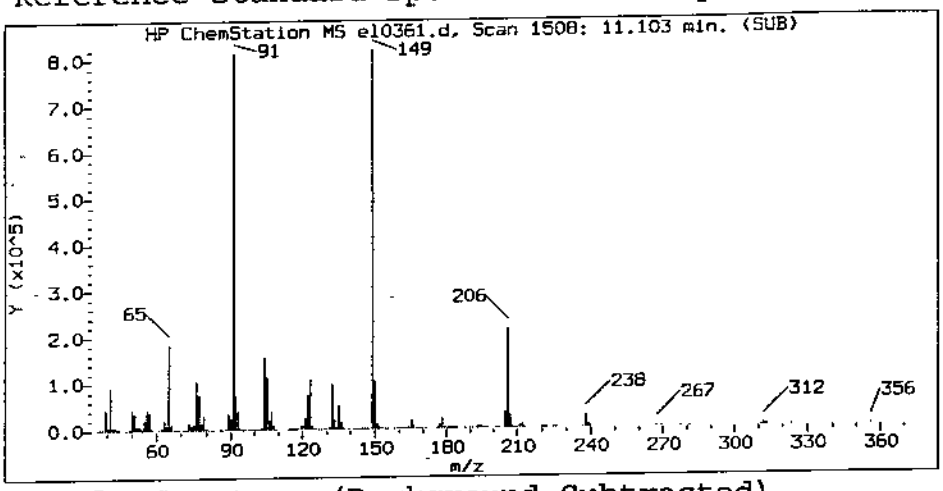
Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 25-Jul-2011 00:35 bkg00522

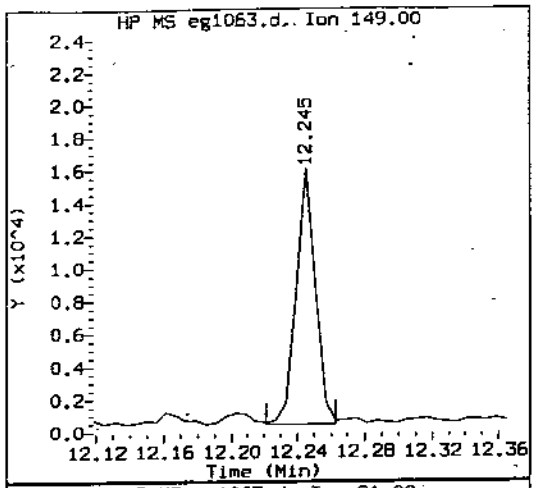
Sample Name: XXXXX Lab Sample ID: 6339386

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.784	152	131165	40.0000
53)	Naphthalene-d8	(2)	7.034	136	612923	40.0000
103)	Acenaphthene-d10	(3)	8.751	164	395596	40.0000
140)	Phenanthrene-d10	(4)	10.193	188	634262	40.0000
162)	Butylbenzylphthalate	(5)	12.245	149	12500M	1.9037
166)	Chrysene-d12	(5)	12.783	240	466798	40.0000
177)	Perylene-d12	(6)	14.207	264	404400	40.0000
42)	Nitrobenzene-d5	(2)	6.335	82	629496	88.7042
79)	2-Fluorobiphenyl	(3)	8.105	172	1067510	85.6415
157)	Terphenyl-d14	(5)	11.772	244	999680	102.6146

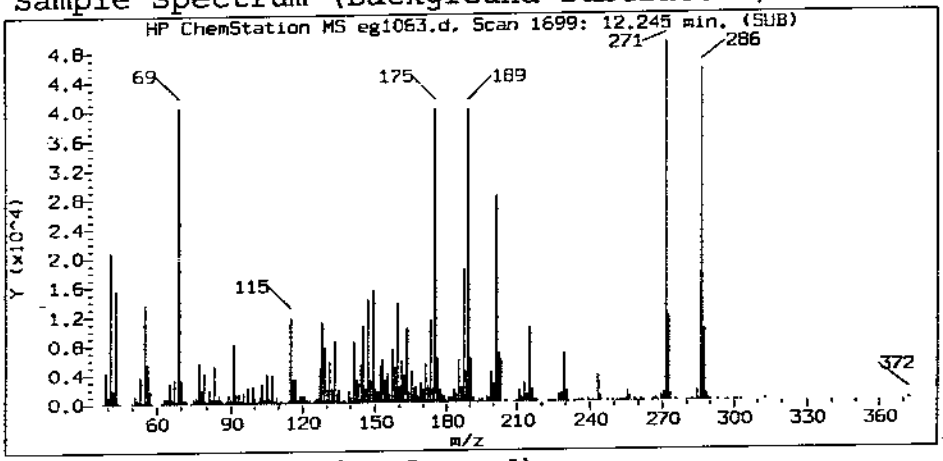
M = Compound was manually integrated. A = User selected an alternate hit

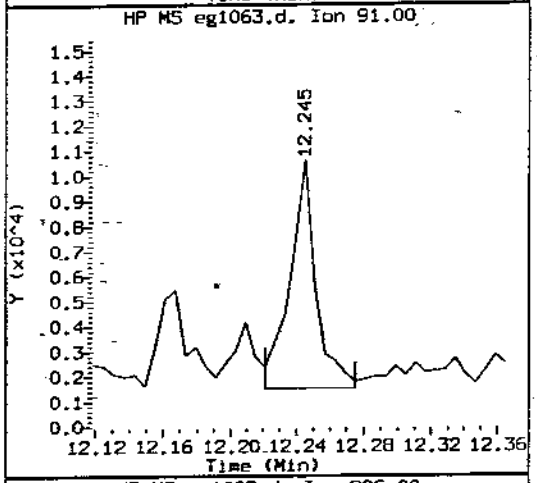
Reference Standard Spectrum for Butylbenzylphthalate



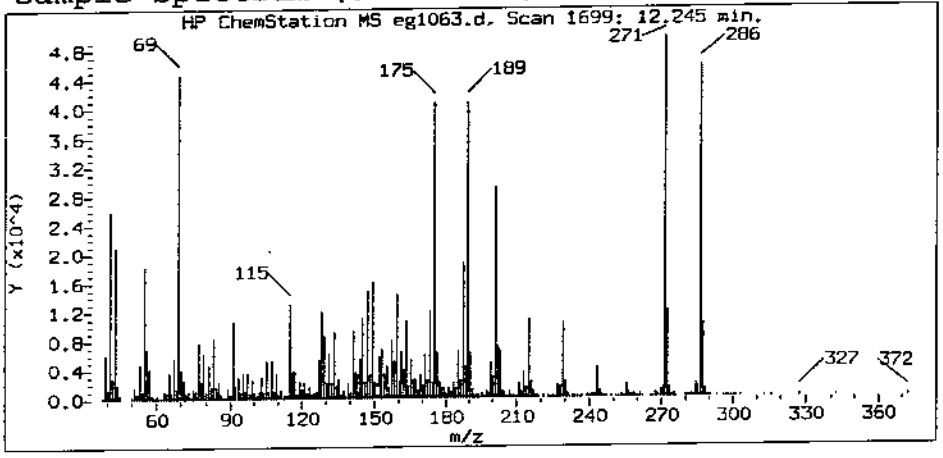


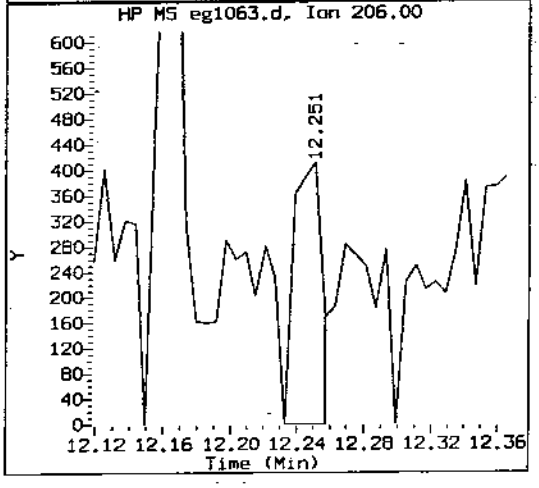
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11jul24.b/eg1063.d
Injection date and time: 24-JUL-2011 14:48

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 11:45

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 25-Jul-2011 00:35 bkg00522

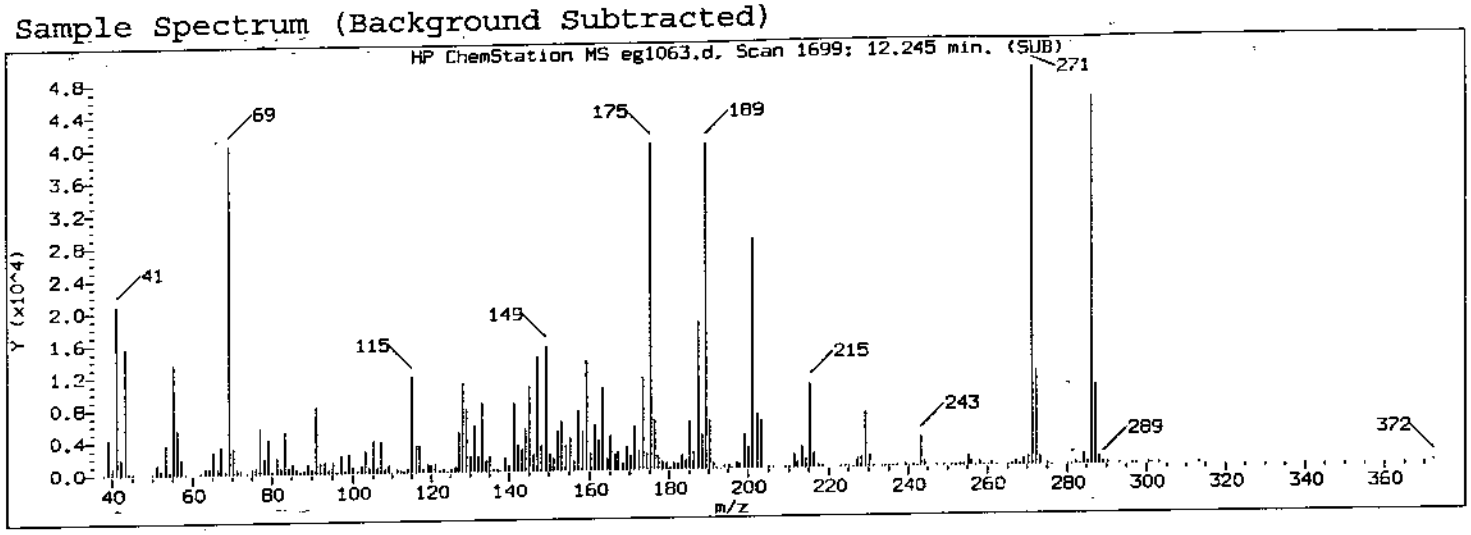
Sample Name: XXXXX

Lab Sample ID: 6339386

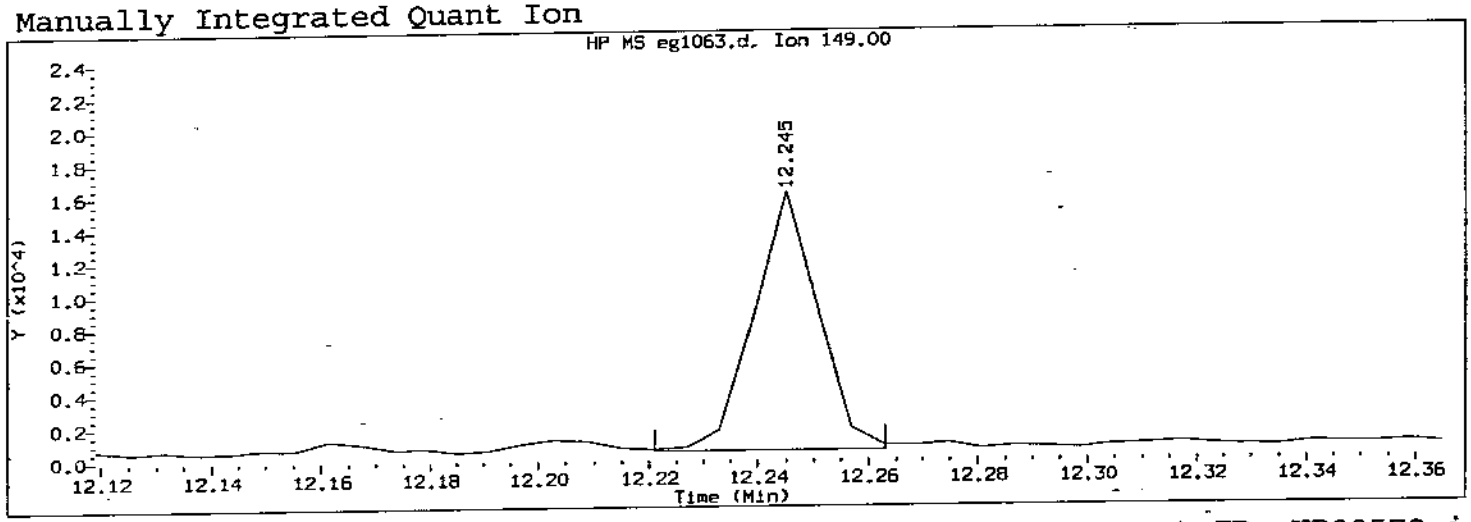
Compound Number	: 162
Compound Name	: Butylbenzylphthalate
Scan Number	: 1699
Retention Time (minutes)	: 12.245
Quant Ion	: 149.0
Area (flag)	: 12500 M
Concentration (ng/ul)	: 1.9037

USE83 0278

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul24.b/eg1063.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 14:48 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: URSsoil
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 25-Jul-2011 00:35 bkg00522

Sample Name: XXXXX Lab Sample ID: 6339386

Compound Number : 162
Compound Name : Butylbenzylphthalate
Scan Number : 1699
Retention Time (minutes): 12.245
Quant Ion : 149
Area (flag) : 12500 M
Concentration (ng/ul) : 1.9037
Integration start scan : 1694 Integration stop scan: 1701
Y at integration start : 454 Y at integration end: 454

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: _____ 7-25-11

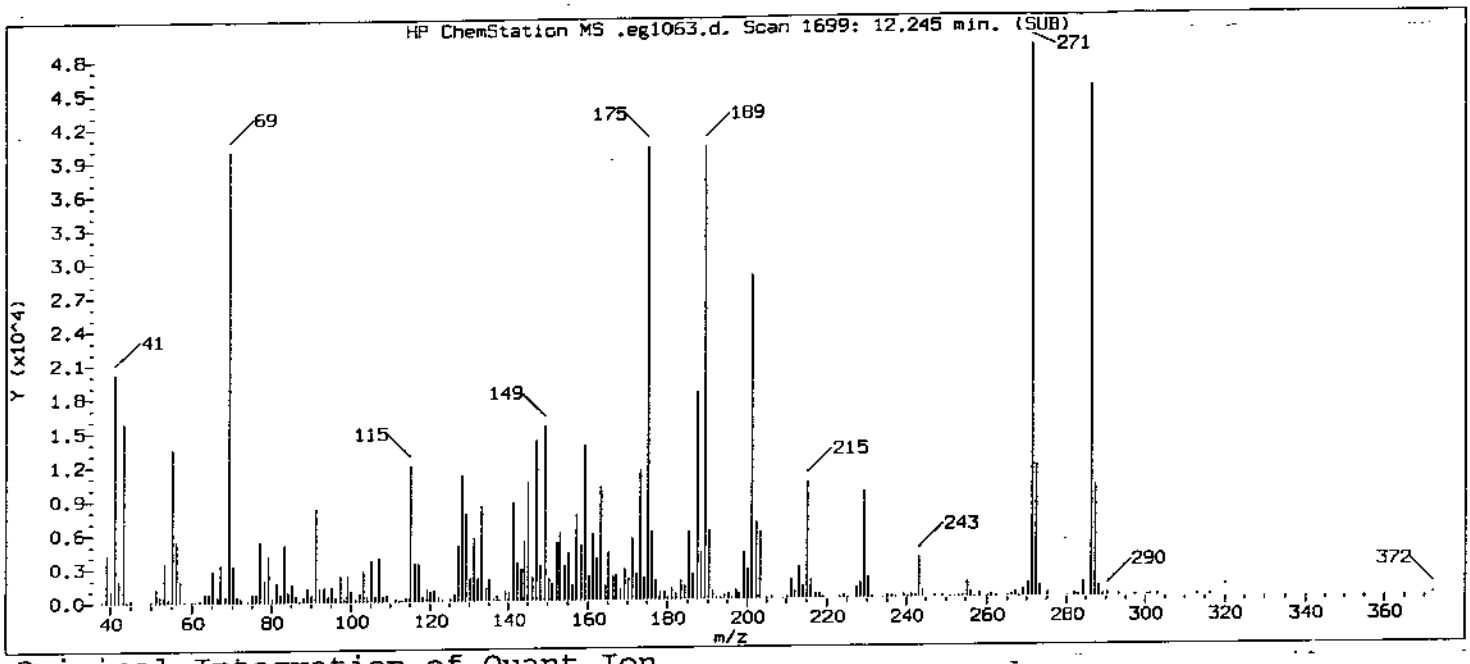
Mark A. Ratcliff
Senior Specialist

USF03 8271

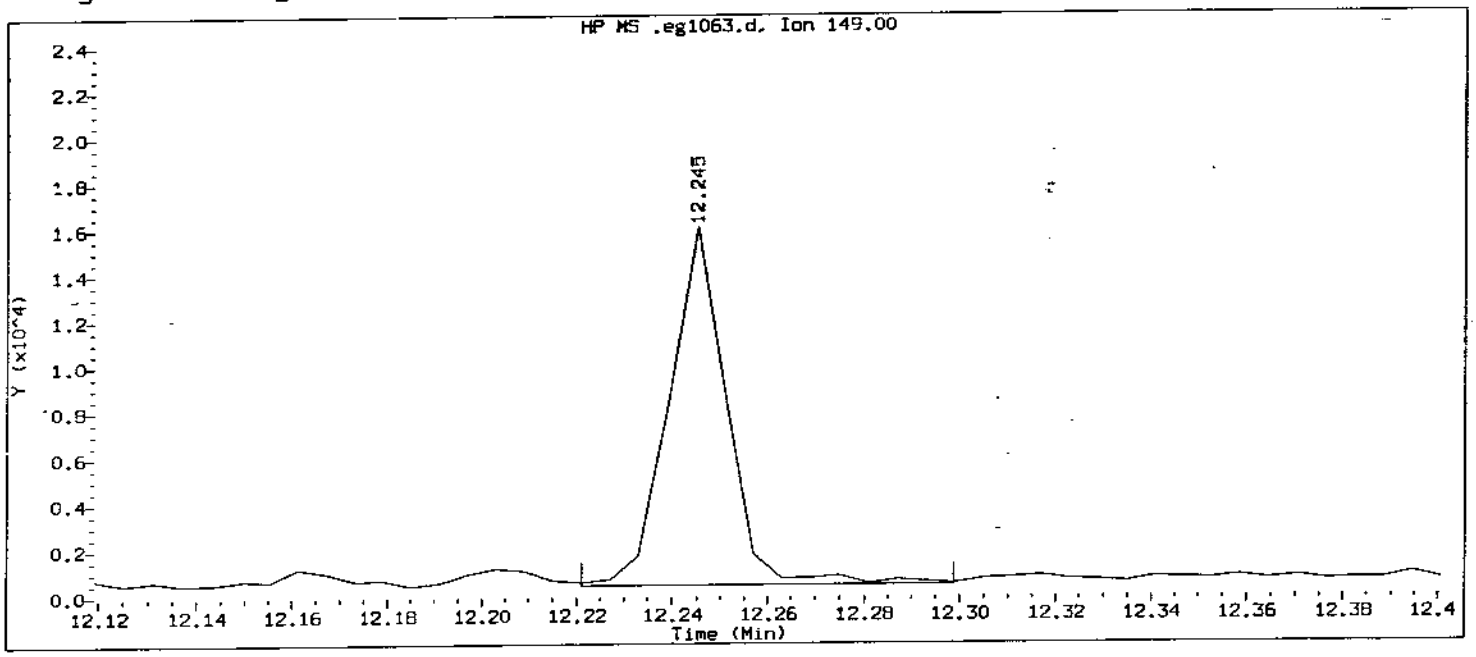
GC/MS audit/management approval: _____

JUL 25 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul24.b/eg1063.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 14:48 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: all1
Calibration date and time: 24-JUL-2011 11:45
Date, time and analyst ID of latest file update: 24-Jul-2011 15:09 Automation

Sample Name: XXXXX Lab Sample ID: 6339386

Compound Number	: 162
Compound Name	: Butylbenzylphthalate
Scan Number	: 1699
Retention Time (minutes)	: 12.245
Quant Ion	: 149
Area	: 12869
Concentration (ng/ul)	: 1.9600
Integration start scan	: 1694 Integration stop scan: 1707
Y at integration start	: 454 Y at integration end: 454

USF63 0272

Original Integration Report for data file /chem/HP09572.i/11jul24.b/eg1063.d, generated on 07/25/2011 at 00:35

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

6339388

Data file: /chem/HP09572.i/11jul15a.b/eg0602.d
Blank Data file reference:/chem/HP09572.i/11jul15a.b/eg0597.d
Injection date and time: 16-JUL-2011 03:31
Instrument ID: HP09572.i
Batch: 11192WAB
Date, time and analyst ID of latest file update: 18-Jul-2011 02:23 bkg00522

Method used: /chem/HP09572.i/11jul15a.b/m8270.m
Sublist used: WL6911
Calibration date and time (Last Method Edit): 16-JUL-2011 02:23
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul15a.b/eg0591a.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)
Matrix: WATER
GPC Cleanup: No

Dilution Factor (DF): 1
Unit Correction Factor (Uf): 1
Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1
Sample Volume (Vo): 1049.0 ml
Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	4.430	(0.002)	596	152.0	118887	(-12)	40.00	
53) Naphthalene-d8	5.716	(0.008)	811	136.0	511096	(-15)	40.00	
103) Acenaphthene-d10	7.397	(0.002)	1092	164.0	338984	(-12)	40.00	
140) Phenanthrene-d10	8.791	(0.008)	1325	188.0	585864	(-11)	40.00	
166) Chrysene-d12	11.292	(0.008)	1743	240.0	576939	(-12)	40.00	
177) Perylene-d12	12.542	(0.008)	1952	264.0	522409	(-5)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	5.028	(-0.001)	82	516646	89.218	89%		52 - 120
79) 2-Fluorobiphenyl	(3)	6.805	(0.001)	172	980201	94.835	95%		63 - 114
157) Terphenyl-d14	(5)	10.364	(0.000)	244	1147343	93.919	94%		34 - 118

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)				Below MDL, Do not report					1.00
69) 2-Methylnaphthalene	(2)					ND	ND			1.00
71) 1-Methylnaphthalene	(2)					ND	ND			2.00
92) Dimethylphthalate	(3)					ND	ND			1.00
100) Acenaphthylene	(3)					ND	ND			1.00
106) Acenaphthene	(3)					ND	ND			1.00
118) Diethylphthalate	(3)				Below MDL, Do not report					2.00
119) Fluorene	(3)					ND	ND			1.00
141) Phenanthrene	(4)				Below MDL, Do not report					1.00
143) Anthracene	(4)				Below MDL, Do not report					1.00
148) Di-n-butylphthalate	(4)				Below MDL, Do not report					2.00
153) Fluoranthene	(4)				Below MDL, Do not report					1.00
155) Pyrene	(5)				Below MDL, Do not report					1.00
162) Butylbenzylphthalate	(5)				Below MDL, Do not report					2.00
164) Benzo(a)anthracene	(5)				Below MDL, Do not report					1.00
168) Chrysene	(5)				Below MDL, Do not report					1.00
169) bis(2-Ethylhexyl)phthalate	(5)				Below MDL, Do not report					2.00
172) Di-n-octylphthalate	(6)					ND	ND			2.00
173) Benzo(b)fluoranthene	(6)				Below MDL, Do not report					1.00
175) Benzo(k)fluoranthene	(6)				Below MDL, Do not report					1.00
176) Benzo(a)pyrene	(6)				Below MDL, Do not report					1.00
185) Indeno(1,2,3-cd)pyrene	(6)				Below MDL, Do not report					1.00
187) Dibenz(a,h)anthracene	(6)				Below MDL, Do not report					1.00
188) Benzo(g,h,i)perylene	(6)				Below MDL, Do not report					1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0273

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339388

Data file: /chem/HP09572.i/11jul15a.b/eg0602.d Blank Data file reference:/chem/HP09572.i/11jul15a.b/eg0597.d
Injection date and time: 16-JUL-2011 03:31 Instrument ID: HP09572.i Batch: 11192WAB
Date, time and analyst ID of latest file update: 18-Jul-2011 02:23 bkg00522

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time (Last Method Edit): 16-JUL-2011 02:23
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul15a.b/eg0591a.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1049.0 ml Final Extract Volume (Vt): 1000 ul

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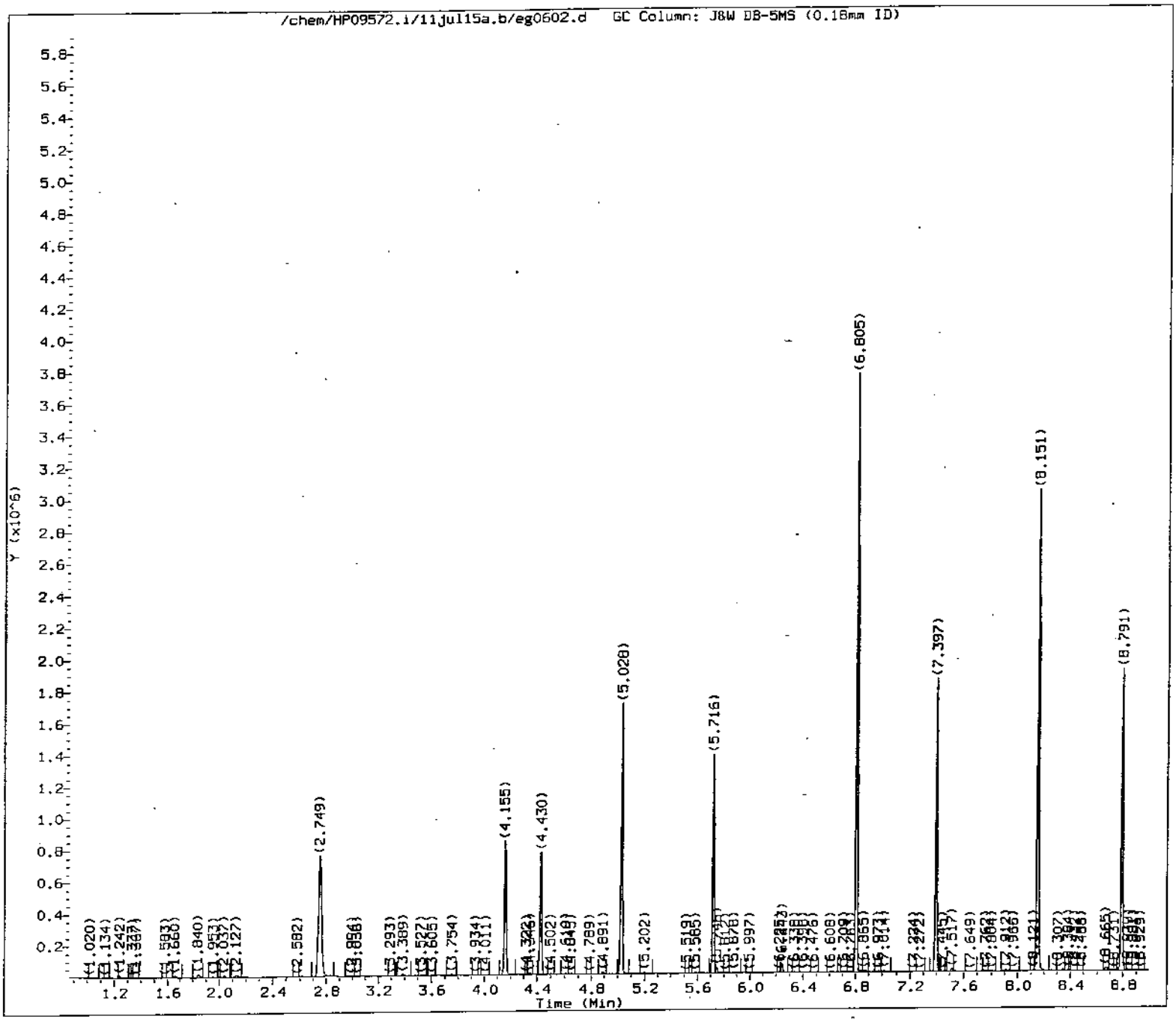
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 24

Comments:

Analyst: Date: 7-18-11
Auditor: Date: 7/18/11

USF03 8274



Quant Report

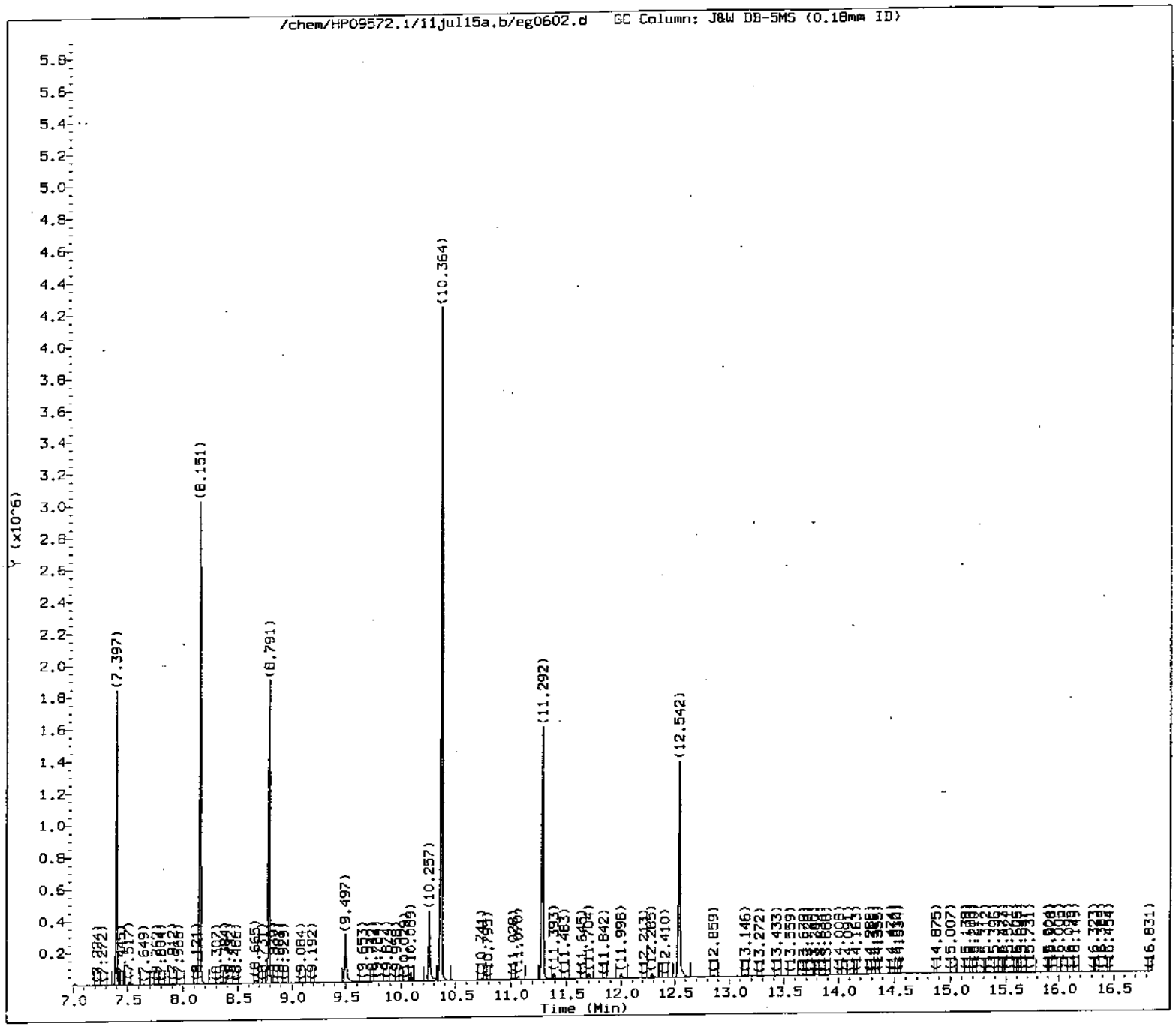
Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0602.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 03:31 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 18-Jul-2011 02:23 bkg00522

Sample Name: XXXXX Lab Sample ID: 6339388

USF03 0275



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0602.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 03:31 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 18-Jul-2011 02:23 bkg00522

Sample Name: XXXXX Lab Sample ID: 6339388

7-18-11

USTR3 8276

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0602.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 03:31 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 18-Jul-2011 02:23 bkg00522

Sample Name: XXXXX Lab Sample ID: 6339388

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	4.430	152	118887	40.0000
53)	Naphthalene-d8	(2)	5.716	136	511096	40.0000
103)	Acenaphthene-d10	(3)	7.397	164	338984	40.0000
140)	Phenanthrene-d10	(4)	8.791	188	585864	40.0000
166)	Chrysene-d12	(5)	11.292	240	576939	40.0000
177)	Perylene-d12	(6)	12.542	264	522409	40.0000
42)	Nitrobenzene-d5	(2)	5.028	82	516646	89.2184
79)	2-Fluorobiphenyl	(3)	6.805	172	980201	94.8348
157)	Terphenyl-d14	(5)	10.364	244	1147343	93.9192

M = Compound was manually integrated. A = User selected an alternate hit

Standards Data

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP09572 **HP #05**

*** Shift #1 Analyst: BC *** Shift #2 Analyst: RB

Comment Code:
R = Reinjection necessary
S = Surrogate problem
NU = Not used
MR = Meets requirements
Cz = Confirms z, (z = I or X)
X = Sample sent to be reextracted
I = Internal Standard problem
F = Further dilution required
IUO = Internal use only
T = Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\MSDCHEM\1\DATA\11jul05a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	eg0130.D	DFTPP	8270DFTPP1261	05 Jul 2011	20:02			mr
2	eg0131.D	SSTD050	STD1731	05 Jul 2011	20:33			nu
3	eg0132.D	SSTD050	CDM1111	05 Jul 2011	20:58			nu
2	eg0131a.D	SSTD050	STD1731	05 Jul 2011	21:36			mr
3	eg0132a.D	SSTD050	CDM1111	05 Jul 2011	22:02			mr
4	eg0133.D	SSTD120	STD1731	05 Jul 2011	22:27			mr
5	eg0134.D	SSTD080	STD1731	05 Jul 2011	22:52			mr
6	eg0135.D	SSTD030	STD1731	05 Jul 2011	23:17			mr
7	eg0136.D	SSTD015	STD1731	05 Jul 2011	23:42			mr
8	eg0137.D	SSTD005	STD1731	06 Jul 2011	00:07			mr
9	eg0138.D	SSTD001	8270MDL1731	06 Jul 2011	00:32			mr
10	eg0139.D	SSTD050	ICV0751	06 Jul 2011	00:57			mr
11	eg0140.D	SSTD050	BASICV1721	06 Jul 2011	01:22			mr
12	eg0141.D	SBLKWC1855	SBLKWC185	06 Jul 2011	01:59	11185WAC		mr
13	eg0142.D	185WCLCS5	185WCLCS	06 Jul 2011	02:24	11185WAC		mr
14	eg0143.D	185WCLCSD5	185WCLCSD	06 Jul 2011	02:49	11185WAC		mr
15	eg0144.D	SBLKWD1835	SBLKWD183	06 Jul 2011	03:14	11183WAD		mr
16	eg0145.D	183WDLCS5	183WDLCS	06 Jul 2011	03:39	11183WAD		mr
17	eg0146.D	183WDLCSD5	183WDLCSD	06 Jul 2011	04:04	11183WAD		mr
18	eg0147.D	XXXXXRE	6325689RE	06 Jul 2011	04:28	11183WAD		mr
19	eg0148.D	XXXXX	6332115	06 Jul 2011	04:54	11183WAD		mr
20	eg0149.D	XXXXX	6335020	06 Jul 2011	05:19	11185WAC		mr
21	eg0150.D	XXXXX	6335022	06 Jul 2011	05:44	11185WAC		mr

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP09572 **HP #05**

*** Shift #1 Analyst: MC *** Shift #2 Analyst: RS *

Comment Code:

R = Reinjection necessary		X =	Sample sent to be reextracted
S = Surrogate problem		I =	Internal Standard problem
NU = Not used		F =	Further dilution required
MR = Meets requirements		IUO =	Internal use only
Cz = Confirms z, (z = I or X)		T =	Injected outside valid tune period

Other problems or comments are as follows:

*

*

*

*

Data Directory Path is - C:\MSDCHEM\1\DATA\11jul15a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	eg0590.D	DFTPP	8270DFTPP1261	15 Jul 2011	21:45			mr
2	eg0591.D	SSTD050	STD1891	15 Jul 2011	22:00			nu
3	eg0592.D	SSTD050	DMP1111	15 Jul 2011	22:25			mr
2	eg0591a.D	SSTD050	STD1891	15 Jul 2011	22:50			mr
6	eg0592a.D	SBLKLC1945	SBLKLC194	15 Jul 2011	23:24	11194SLC		nu
7	eg0593.D	194LCLCS5	194LCLCS	15 Jul 2011	23:48	11194SLC		nu
8	eg0594.D	SBLKWB1945	SBLKWB194	16 Jul 2011	00:13	11194WAB		mr
9	eg0595.D	194WBLCS5	194WBLCS	16 Jul 2011	00:38	11194WAB		mr
10	eg0596.D	194WBLCSD5	194WBLCSD	16 Jul 2011	01:03	11194WAB		mr
11	eg0597.D	SBLKWB1925	SBLKWB192	16 Jul 2011	01:27	11192WAB		mr
12	eg0598.D	192WBLCS5	192WBLCS	16 Jul 2011	01:52	11192WAB		mr
13	eg0599.D	192WBLCSD5	192WBLCSD	16 Jul 2011	02:17	11192WAB		mr
14	eg0600.D	XXXXX	6337222	16 Jul 2011	02:42	11192WAB		mr
15	eg0601.D	XXXXX	6338269	16 Jul 2011	03:06	11192WAB		mr
16	eg0602.D	XXXXX	6339388	16 Jul 2011	03:31	11192WAB		mr
17	eg0603.D	XXXXXRE	6339042RE	16 Jul 2011	03:56	11194WAB		mr
18	eg0604.D	XXXXX	6339613	16 Jul 2011	04:20	11194WAB		sc
19	eg0605.D	XXXXX	6339614	16 Jul 2011	04:45	11194WAB		mr
20	eg0606.D	XXXXX	6339615	16 Jul 2011	05:10	11194WAB		mr
21	eg0607.D	XXXXX	6337088	16 Jul 2011	05:34	11194SLC		mr
22	eg0608.D	XXXXXMS	6337089	16 Jul 2011	05:59	11194SLC		mr
23	eg0609.D	XXXXXMSD	6337090	16 Jul 2011	06:24	11194SLC		mr
24	eg0610.D	XXXXX	6337084	16 Jul 2011	06:49	11194SLC		mr
25	eg0611.D	XXXXX	6337085	16 Jul 2011	07:14	11194SLC		mr
26	eg0612.D	XXXXX	6337086	16 Jul 2011	07:38	11194SLC		mr
27	eg0613.D	XXXXX	6337087	16 Jul 2011	08:03	11194SLC		mr
28	eg0614.D	XXXXX	6337092	16 Jul 2011	08:28	11194SLC		mr
29	eg0615.D	XXXXX	6337093	16 Jul 2011	08:52	11194SLC		mr
30	eg0616.D	XXXXX	6337094	16 Jul 2011	09:17	11194SLC		mr
31	eg0617.D	XXXXX	6337095	16 Jul 2011	09:42	11194SLC		mr
32	eg0618.D	XXXXX	6337096	16 Jul 2011	10:07	11194SLC		t
33	eg0619.D	XXXXX	6337097	16 Jul 2011	10:32	11194SLC		t

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP09572 **HP #05**

*** Shift #1 Analyst:_____ *** Shift #2 Analyst:_____

Comment Code:

R = Reinjection necessary		X =	Sample sent to be reextracted
S = Surrogate problem		I =	Internal Standard problem
NU = Not used		F =	Further dilution required
MR = Meets requirements		IUO =	Internal use only
Cz = Confirms z, (z = I or X)		T =	Injected outside valid tune period

Other problems or comments are as follows:

Chad Moline
JUL 26 2011
Chad Moline
Group Leader

Data Directory Path is - C:\MSDCHEM\1\DATA\11jul18a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	eg0650.D	DFTPP	8270DFTPP1991	18 Jul 2011	22:01			NU
1	eg0650z.D	DFTPP	8270DFTPP1991	18 Jul 2011	22:18			NU
1	eg0650y.D	DFTPP	8270DFTPP1991	18 Jul 2011	22:31			NU
1	eg0650x.D	DFTPP	8270DFTPP1991	18 Jul 2011	22:42			NU
1	eg0650w.D	DFTPP	8270DFTPP1991	18 Jul 2011	22:58			NU
1	eg0650v.D	DFTPP	8270DFTPP1991	18 Jul 2011	23:13			NU
1	eg0650t.D	DFTPP	8270DFTPP1991	18 Jul 2011	23:25			NU
1	eg0650r.D	DFTPP	8270DFTPP1991	18 Jul 2011	23:37			NU
1	eg0650q.D	DFTPP	8270DFTPP1991	18 Jul 2011	23:59			MR
2	eg0651.D	SSTD050	STD1991	19 Jul 2011	00:27			MR
4	eg0652.D	SSTD120	STD1991	19 Jul 2011	01:16			MR
6	eg0653.D	SSTD080	STD1991	19 Jul 2011	01:41			MR
8	eg0654.D	SSTD005	STD1991	19 Jul 2011	02:05			MR
9	eg0655.D	SSTD015	STD1991	19 Jul 2011	02:30			MR
10	eg0656.D	SSTD030	STD1991	19 Jul 2011	02:55			MR
11	eg0657.D	SSTD001	8270MDL1991	19 Jul 2011	03:21			MR
12	eg0658.D	SSTD050	ICV0751	19 Jul 2011	03:46	icval11		MR
13	eg0659.D	SSTD050	BASICV0721	19 Jul 2011	04:11			MR
14	eg0660.D	SSTD050	DMP1111	19 Jul 2011	04:35			MR
15	eg0661.D	SSTD120	DMP1111	19 Jul 2011	05:00			MR
16	eg0662.D	SSTD080	DMP1111	19 Jul 2011	05:29			MR
17	eg0663.D	SSTD005	DMP1111	19 Jul 2011	05:53			MR
18	eg0664.D	SSTD015	DMP1111	19 Jul 2011	06:18			MR
19	eg0665.D	SSTD030	DMP1111	19 Jul 2011	06:44			MR
20	eg0666.D	SSTD001	DMPMDL1111	19 Jul 2011	07:08			MR
21	eg0667.D	SSTD050	DMPICV1111	19 Jul 2011	07:33			MR
22	eg0668.D	XXXXXDL	6337596DL	19 Jul 2011	07:58	11190WAG	20	MR
23	eg0669.D	XXXXX	6337096	19 Jul 2011	08:23	11194SLC		MR
24	eg0670.D	XXXXX	6337097	19 Jul 2011	08:48	11194SLC		MR

USF03 0281

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP09572 **HP #05**

*** Shift #1 Analyst: LMM 19JUL11 *** Shift #2 Analyst: _____

Comment Code:

R = Reinjection necessary		X =	Sample sent to be reextracted
S = Surrogate problem		I =	Internal Standard problem
NU = Not used		F =	Further dilution required
MR = Meets requirements		IUO =	Internal use only
Cz = Confirms z, (z = I or X)		T =	Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\MSDCHEM\1\DATA\11jul23\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	eg1010.D	DFTPP	8270DFTPP1991	23 Jul 2011	11:21			MR
2	eg1011.D	SSTD080	STD1991	23 Jul 2011	11:36			MR
3	eg1012.D	SSTD080	BAS1721	23 Jul 2011	12:01			MR
4	eg1013.D	SBLKLB1935	SBLKLB193	23 Jul 2011	12:26	11193SLB		MR
5	eg1014.D	193LBLCS5	193LBLCS	23 Jul 2011	12:51	11193SLB		MR
6	eg1015.D	193LBLCSD5	193LBLCSD	23 Jul 2011	13:16	11193SLB		MR
7	eg1016.D	MDLV	193SLB	23 Jul 2011	13:41	11193SLB		MR
8	eg1017.D	XXXXX	6339384	23 Jul 2011	14:06	11193SLB		MR
9	eg1018.D	XXXXX	6341965	23 Jul 2011	14:31	11196SLF		MR
10	eg1019.D	XXXXXDL	6341960DL	23 Jul 2011	14:56	11196SLF	5	MR
11	eg1020.D	XXXXXDL	6340191DL	23 Jul 2011	15:21	11196SLF	5	MR
12	eg1021.D	XXXXXDL	6340199DL	23 Jul 2011	15:46	11196SLF	5	MR
13	eg1022.D	XXXXXDL	6341952DL	23 Jul 2011	16:11	11196SLF	200	NU
14	eg1023.D	XXXXXDL	6341954DL	23 Jul 2011	16:36	11196SLF	2	NU
3	eg1012a.D	spike	spike	23 Jul 2011	17:05	11193SLB		IUO
15	eg1024.D	XXXXXDL	6341963DL	23 Jul 2011	17:30	11196SLF	5	MR
16	eg1025.D	XXXXX	6339377	23 Jul 2011	17:55	11193SLB		MR
17	eg1026.D	XXXXXMS	6339378	23 Jul 2011	18:20	11193SLB		MR
18	eg1027.D	XXXXXMSD	6339379	23 Jul 2011	18:45	11193SLB		MR
19	eg1028.D	XXXXX	6337203	23 Jul 2011	19:10	11193SLB		MR
20	eg1029.D	XXXXX	6337205	23 Jul 2011	19:35	11193SLB		MR
21	eg1030.D	XXXXX	6337207	23 Jul 2011	20:00	11193SLB		MR
22	eg1031.D	XXXXX	6337209	23 Jul 2011	20:25	11193SLB		MR
23	eg1032.D	XXXXX	6337212	23 Jul 2011	20:50	11193SLB		MR
24	eg1033.D	XXXXX	6338249	23 Jul 2011	21:15	11193SLB		MR
25	eg1034.D	XXXXX	6338250	23 Jul 2011	21:40	11193SLB		MR
26	eg1035.D	XXXXX	6338252	23 Jul 2011	22:05	11193SLB		MR
27	eg1036.D	XXXXX	6338261	23 Jul 2011	22:29	11193SLB		MR
28	eg1037.D	XXXXX	6338263	23 Jul 2011	22:55	11193SLB		MR
29	eg1038.D	XXXXX	6338264	23 Jul 2011	23:19	11193SLB		MR
30	eg1039.D	XXXXX	6339368	23 Jul 2011	23:44	11193SLB		T-NU
31	eg1040.D	XXXXX	6339370	24 Jul 2011	00:09	11193SLB		NU
32	eg1041.D	XXXXX	6339372	24 Jul 2011	00:34	11193SLB		NU
33	eg1042.D	XXXXX	6339374	24 Jul 2011	00:59	11193SLB		NU
34	eg1043.D	XXXXX	6339375	24 Jul 2011	01:24	11193SLB		NU
35	eg1044.D	XXXXX	6339386	24 Jul 2011	01:49	11193SLB		NU

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP09572 **HP #05**

*** Shift #1 Analyst: TRPB *** Shift #2 Analyst: LMH

Comment Code:

R = Reinjection necessary	X = Sample sent to be reextracted
S = Surrogate problem	I = Internal Standard problem
NU = Not used	F = Further dilution required
MR = Meets requirements	IUO = Internal use only
Cz = Confirms z, (z = I or X)	T = Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\MSDCHEM\1\DATA\11jul24\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	eg1050.D	DFTPP	8270DFTPP1991	24 Jul 2011	09:16			mr
2	eg1051.D	SSTD030	STD1991	24 Jul 2011	09:31			mr
3	eg1052.D	SSTD030	DMF1111	24 Jul 2011	10:14			mr
4	eg1053.D	SSTD050	THN2031	24 Jul 2011	10:39			mr
5	eg1054.D	SBLKLB1995	SBLKLB199	24 Jul 2011	11:04	11199SLB		mr
6	eg1055.D	199LBLCS5	199LBLCS	24 Jul 2011	11:29	11199SLB		mr
7	eg1056.D	XXXXXDL	6341952DL	24 Jul 2011	11:54	11196SLF	100	mr
8	eg1057.D	XXXXXDL	6341954DL	24 Jul 2011	12:19	11196SLF	2	mr
9	eg1058.D	XXXXX	6339368	24 Jul 2011	12:44	11193SLB		mr
10	eg1059.D	XXXXX	6339370	24 Jul 2011	13:09	11193SLB		mr
11	eg1060.D	XXXXX	6339372	24 Jul 2011	13:33	11193SLB		mr
12	eg1061.D	XXXXX	6339374	24 Jul 2011	13:58	11193SLB		mr
13	eg1062.D	XXXXX	6339375	24 Jul 2011	14:23	11193SLB		mr
14	eg1063.D	XXXXX	6339386	24 Jul 2011	14:48	11193SLB		mr
15	eg1064.D	XXXXX	6340796	24 Jul 2011	15:13	11199SLB		mr
16	eg1065.D	XXXXXMS	6340797	24 Jul 2011	15:38	11199SLB		mr
17	eg1066.D	XXXXXMSD	6340798	24 Jul 2011	16:03	11199SLB		mr
18	eg1067.D	XXXXX	6340788	24 Jul 2011	16:28	11199SLB		mr
19	eg1068.D	XXXXX	6340789	24 Jul 2011	16:52	11199SLB		mr
20	eg1069.D	XXXXX	6340790	24 Jul 2011	17:17	11199SLB		mr
21	eg1070.D	XXXXX	6340791	24 Jul 2011	17:42	11199SLB		mr
22	eg1071.D	XXXXX	6340792	24 Jul 2011	18:07	11199SLB		mr
23	eg1072.D	XXXXX	6340793	24 Jul 2011	18:32	11199SLB		mr
24	eg1073.D	XXXXX	6340795	24 Jul 2011	18:57	11199SLB		mr
25	eg1074.D	XXXXX	6340800	24 Jul 2011	19:22	11199SLB		mr
26	eg1075.D	XXXXX	6340801	24 Jul 2011	19:46	11199SLB		mr
27	eg1076.D	XXXXX	6340802	24 Jul 2011	20:12	11199SLB		mr

USF03_0293

Data File: /chem/HP09572.i/11jul05a.b/eg0130.d

Date : 05-JUL-2011 20:02

Client ID: DFTPP

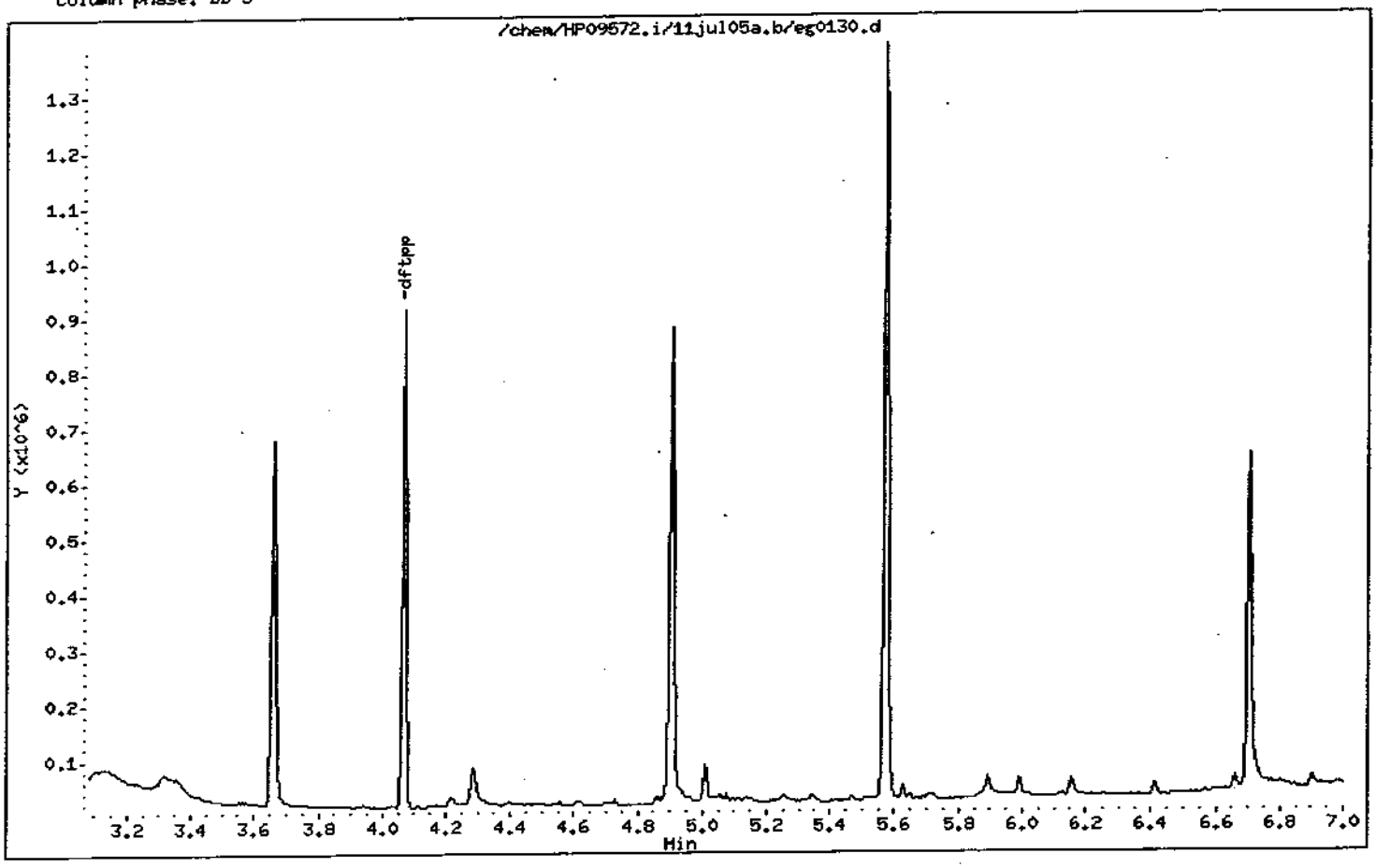
Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1261;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP09572.i/11jul05a.b/eg0130.d

Date : 05-JUL-2011 20:02

Client ID: DFTPP

Instrument: HP09572.i

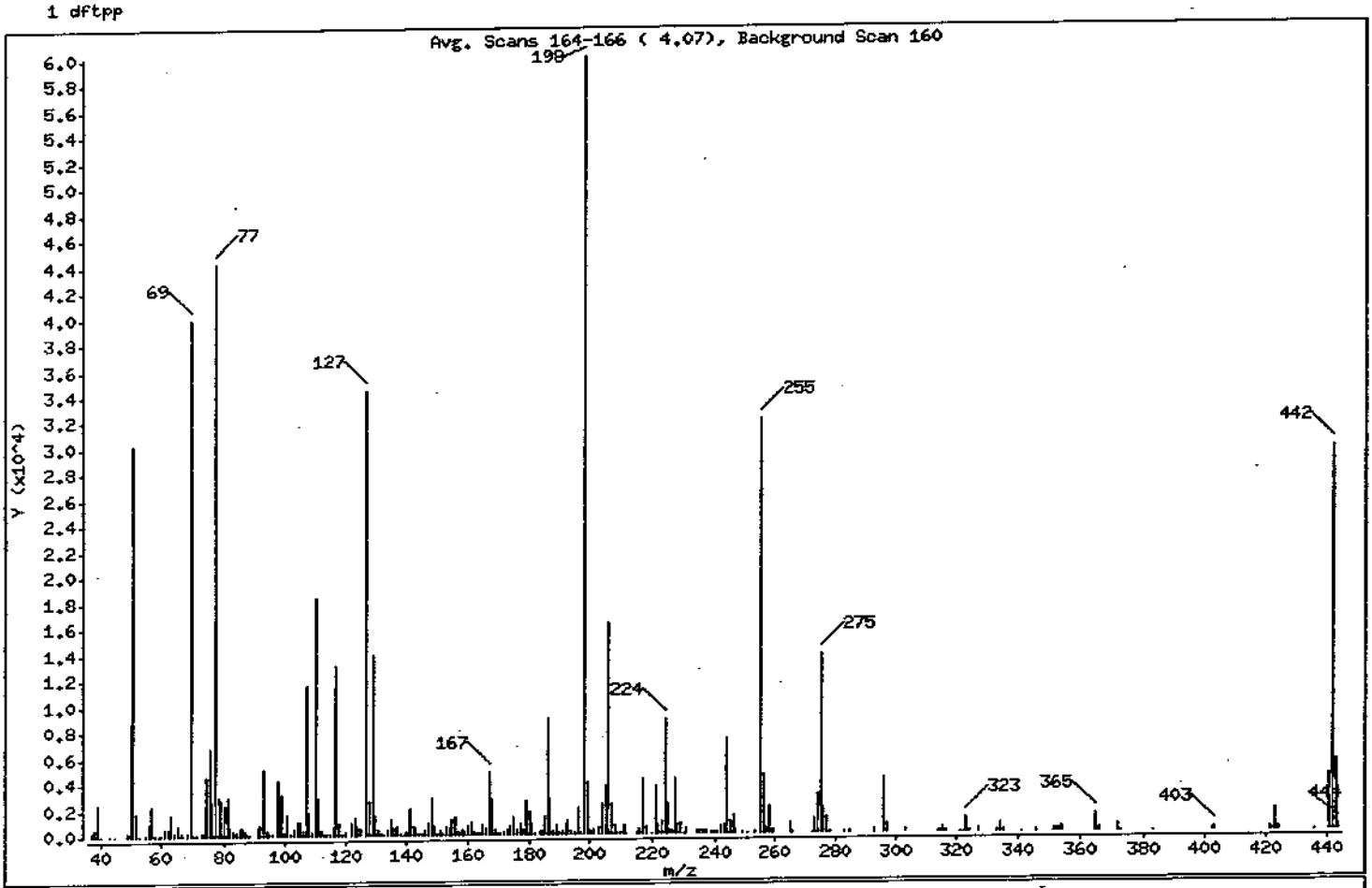
Sample Info: DFTPP;8270DFTPP1261;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.39
68	Less than 2.00% of mass 69	0.36 (0.54)
69	Mass 69 relative abundance	66.50
70	Less than 2.00% of mass 69	0.27 (0.40)
127	40.00 - 60.00% of mass 198	57.14
197	Less than 1.00% of mass 198	0.31
199	5.00 - 9.00% of mass 198	6.78
275	10.00 - 30.00% of mass 198	23.08
365	Greater than 1.00% of mass 198	2.25
441	Present, but less than mass 443	7.06
442	40.00 - 99.99% of mass 198	49.48
443	17.00 - 23.00% of mass 442	8.94 (18.07)

USPB3 0205

Data File: /chem/HP09572.i/11jul05a.b/eg0130.d

Date : 05-JUL-2011 20:02

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1261;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

Data File: eg0130.d

Spectrum: Avg. Scans 164-166 (4.07), Background Scan 160

Location of Maximum: 198.00

Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	233	111.00	2926	175.00	1429	245.00	967
38.00	613	112.00	427	176.00	366	246.00	1385
39.00	2520	113.00	164	177.00	792	247.00	344
40.00	61	114.00	116	178.00	364	249.00	200
43.00	38	115.00	80	179.00	2671	251.00	59
45.00	34	116.00	645	180.00	1810	253.00	93
49.00	237	117.00	13190	181.00	883	255.00	32096
50.00	8653	118.00	1001	182.00	119	256.00	4606
51.00	30296	119.00	90	184.00	227	257.00	389
52.00	1783	120.00	211	185.00	1373	258.00	2085
53.00	31	122.00	977	186.00	8946	259.00	342
55.00	92	123.00	1437	187.00	2775	265.00	894
56.00	968	124.00	656	188.00	249	266.00	173
57.00	2372	125.00	611	189.00	679	272.00	56
58.00	163	127.00	34352	190.00	112	273.00	1059
59.00	63	128.00	2695	191.00	317	274.00	3107
60.00	71	129.00	13960	192.00	832	275.00	13877
61.00	506	130.00	1540	193.00	1071	276.00	1921
62.00	587	131.00	352	194.00	265	277.00	1251
63.00	1647	132.00	140	195.00	119	278.00	205
64.00	288	133.00	58	196.00	2045	283.00	153
65.00	820	134.00	483	197.00	185	285.00	140
66.00	218	135.00	1203	198.00	60128	293.00	278
68.00	215	136.00	560	199.00	4077	296.00	4339
69.00	39984	137.00	703	200.00	330	297.00	663
70.00	160	138.00	158	201.00	414	303.00	335
71.00	113	139.00	65	203.00	536	314.00	145
73.00	336	140.00	298	204.00	2397	315.00	380
74.00	4563	141.00	2135	205.00	3798	316.00	118
75.00	6801	142.00	677	206.00	16258	321.00	68
76.00	2572	143.00	489	207.00	2282	322.00	50
77.00	44272	144.00	136	208.00	742	323.00	1074
78.00	2996	145.00	118	209.00	205	324.00	177
79.00	2808	146.00	462	210.00	206	327.00	267
80.00	2386	147.00	942	211.00	700	333.00	73

USP83 0206

Data File: /chem/HP09572.i/11jul05a.b/eg0130.d

Date : 05-JUL-2011 20:02

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1261;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

Data File: eg0130.d

Spectrum: Avg. Scans 164-166 (4.07), Background Scan 160

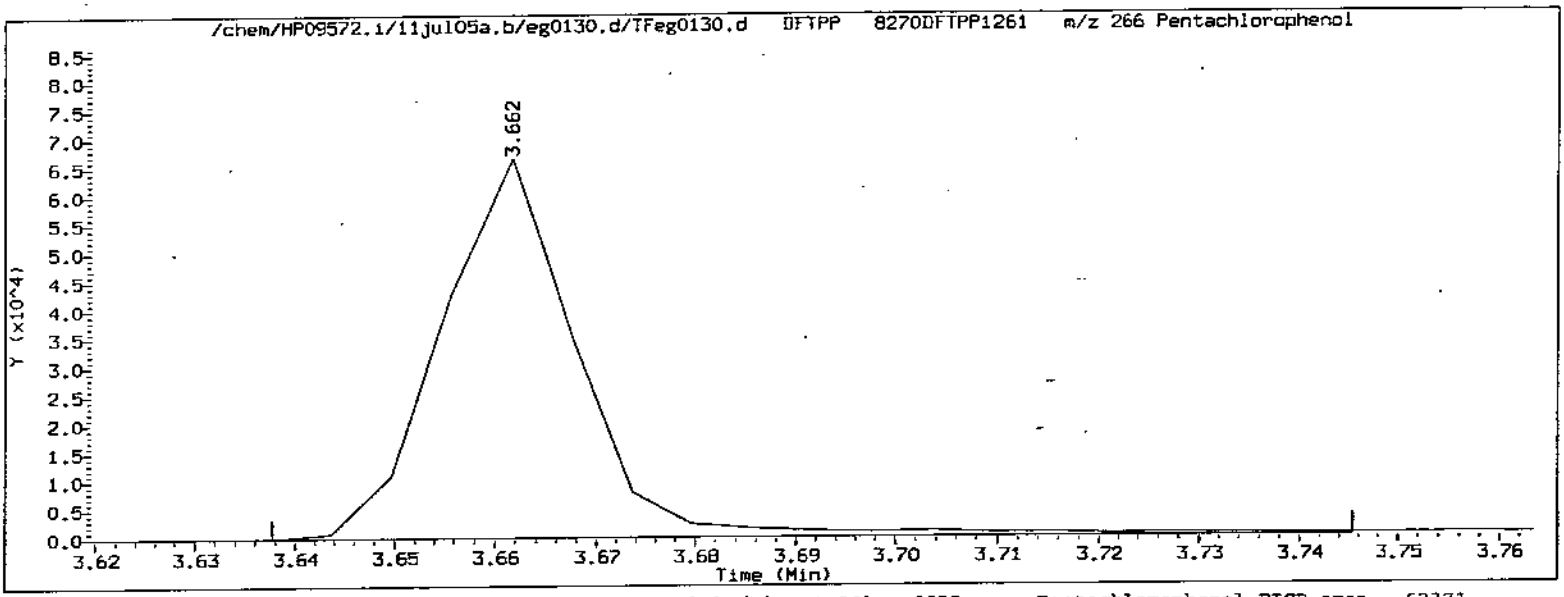
Location of Maximum: 198.00

Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	3003	148.00	2966	212.00	54	334.00	721
82.00	752	149.00	629	215.00	115	335.00	106
83.00	459	150.00	180	216.00	432	341.00	59
84.00	293	151.00	357	217.00	4331	346.00	122
85.00	550	152.00	150	218.00	600	352.00	248
86.00	734	153.00	679	220.00	51	353.00	240
87.00	481	154.00	519	221.00	3670	354.00	353
88.00	129	155.00	1236	222.00	630	365.00	1352
91.00	625	156.00	1426	223.00	951	366.00	222
92.00	763	157.00	315	224.00	8901	372.00	495
93.00	5171	158.00	383	225.00	2299	373.00	51
94.00	452	159.00	311	226.00	277	383.00	64
95.00	103	160.00	713	227.00	4248	402.00	180
96.00	178	161.00	913	228.00	637	403.00	283
98.00	4310	162.00	328	229.00	772	421.00	217
99.00	3199	163.00	108	230.00	50	422.00	177
100.00	325	164.00	119	231.00	355	423.00	1609
101.00	1696	165.00	816	234.00	296	424.00	338
102.00	113	166.00	581	235.00	220	436.00	52
103.00	594	167.00	4803	236.00	244	441.00	4247
104.00	1120	168.00	2735	237.00	327	442.00	29752
105.00	1040	169.00	473	239.00	164	443.00	5378
106.00	410	170.00	141	240.00	71	444.00	475
107.00	11646	171.00	171	241.00	177		
108.00	1839	172.00	299	242.00	495		
109.00	319	173.00	472	243.00	624		
110.00	18384	174.00	732	244.00	7281		

Assessment of GC Column Performance and Injection Port Inertness for

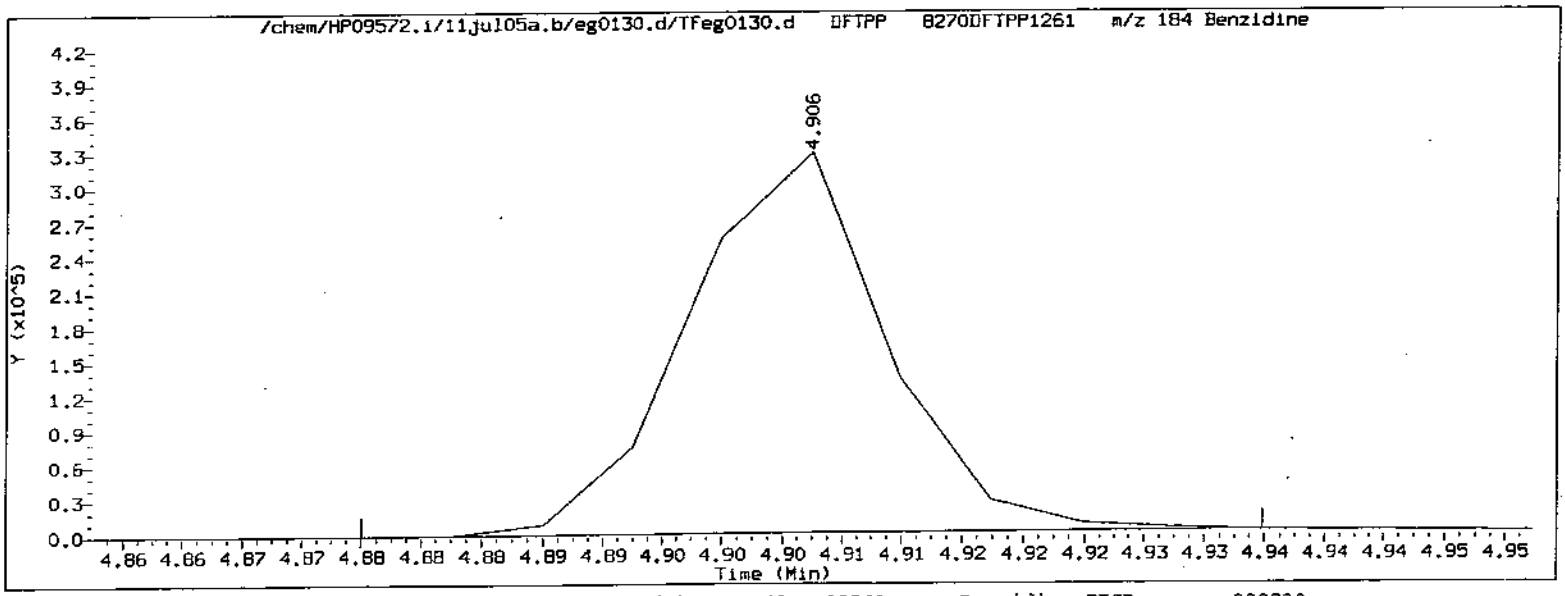
Instrument ID: HP09572.i Injection Date: 05-JUL-2011 20:02 Operator: rpb01568



Pentachlorophenol EICP peak height = 66552 EICP peak height at 10% = 6655 Pentachlorophenol EICP area = 62371

Pentachlorophenol EICP peak apex (min.) = 3.662
RT at 10% of front half of EICP (min.) = 3.647 'Front' peak width (min.) = 0.0144333333
RT at 10% of back half of EICP (min.) = 3.675 'Tailing' peak width (min.) = 0.0132666667

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0132666667}{0.0144333333} = 0.919$



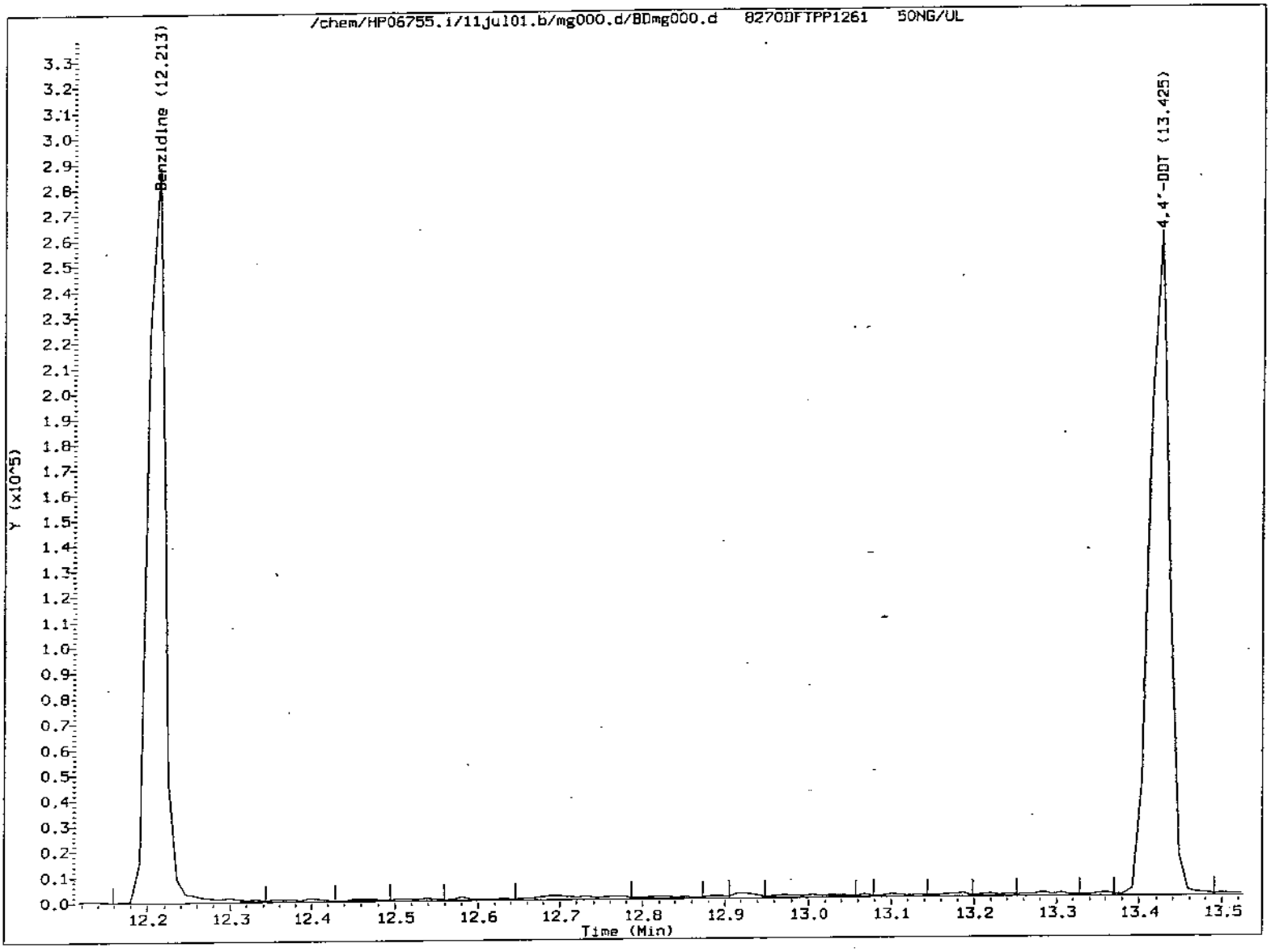
Benzidine EICP peak height = 327676 EICP peak height at 10% = 32768 Benzidine EICP area = 299738

Benzidine EICP peak apex (min.) = 4.906
RT at 10% of front half of EICP (min.) = 4.890 'Front' peak width (min.) = 0.0156666667
RT at 10% of back half of EICP (min.) = 4.918 'Tailing' peak width (min.) = 0.0116500000

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0116500000}{0.0156666667} = 0.744$

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP06755.i Injection Date: 01-JUL-2011 20:42 Operator: rpb01568

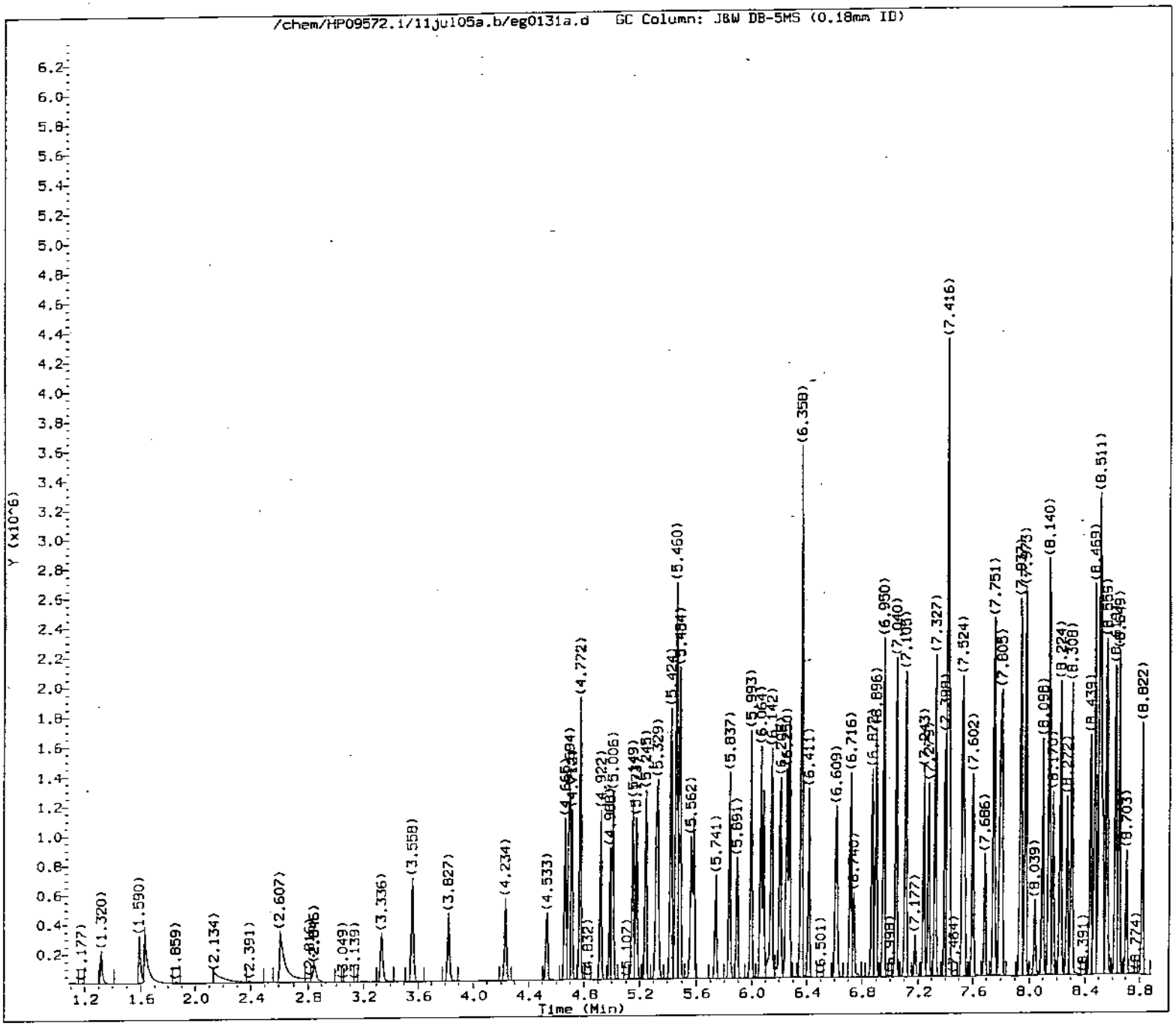


$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 0}{0 + 0 + 418325} \times 100 = 0.0$$

USF03 0209

printed on 07/05/2011 at 20:47



Quant Report

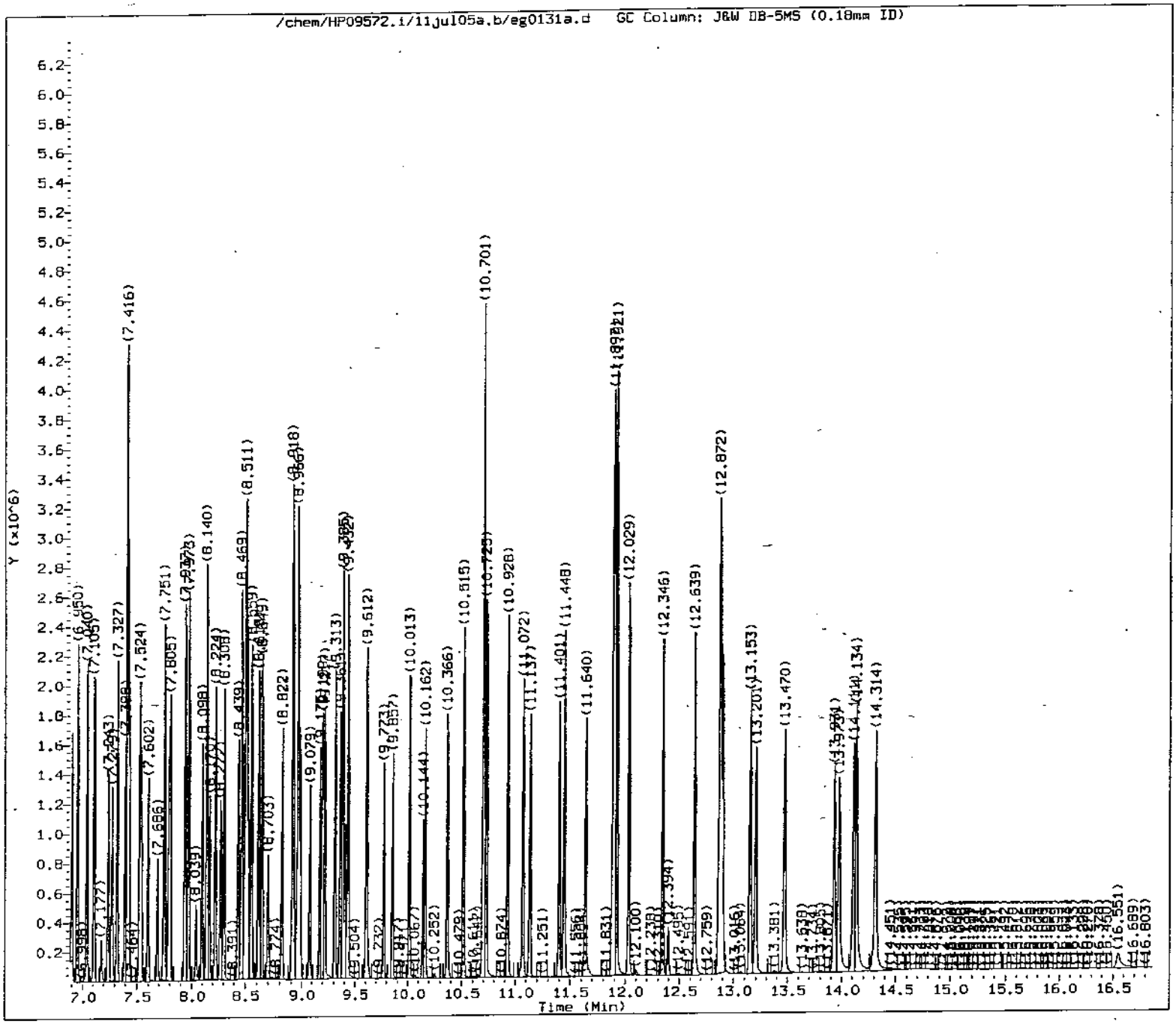
Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:32
Date, time and analyst ID of latest file update: 06-Jul-2011 01:32 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1731

7-5-11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:32
Date, time and analyst ID of latest file update: 06-Jul-2011 01:32 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1731

7-5-11 8291

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:32
Date, time and analyst ID of latest file update: 06-Jul-2011 01:32 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1731

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.320	88	83478	50.6749
3) N-Nitrosodimethylamine	(1)	1.590	74	157578	52.5489
4) Pyridine	(1)	1.626	79	236218	49.8591
6) 2-Picoline	(1)	2.607	93	232450	50.4980
2) N-Nitrosomethylethylamine	(1)	2.846	88	101820	51.0972
8) Methyl methanesulfonate	(1)	3.336	80	145004	51.1754
9) N-Nitrosodiethylamine	(1)	3.827	102	114755	51.1348
15) Ethyl methanesulfonate	(1)	4.234	109	113525	50.3714
22) Phenol	(1)	4.712	94	326447	51.9934
21) Aniline	(1)	4.665	93	376272	51.7393
33) Pentachloroethane	(1)	4.688	167	73177	50.8676
23) bis(2-Chloroethyl)ether	(1)	4.772	93	244147	50.8022
24) 2-Chlorophenol	(1)	4.772	128	225141	52.2294
26) 1,3-Dichlorobenzene	(1)	4.922	146	230404	50.6230
27) 1,4-Dichlorobenzene-d4	(1)	4.988	152	111001	40.0000
28) 1,4-Dichlorobenzene	(1)	5.006	146	239065	50.7695
31) Benzyl alcohol	(1)	5.173	108	153251	50.0807
32) 1,2-Dichlorobenzene	(1)	5.149	146	230117	51.3432
17) Indene	(1)	5.245	115	353618	48.4921
34) 2-Methylphenol	(1)	5.329	108	222348	52.0627
35) 2,2'-oxybis(1-Chloropropane)	(1)	5.323	45	277310	50.8958
36) bis(2-Chloroisopropyl)ether	(1)	5.323	45	277310	50.8958
30) N-Nitrosopyrrolidine	(1)	5.424	100	135269	51.6771
37) Acetophenone	(1)	5.424	105	336911	50.5527
38) N-Nitroso-di-n-propylamine	(1)	5.460	70	232451	51.3360
39) 4-Methylphenol	(1)	5.484	108	245132	51.4164
7) N-Nitrosomorpholine	(1)	5.466	56	161297	49.7610
40) o-Toluidine	(1)	5.460	106	390925	51.1991
41) Hexachloroethane	(1)	5.484	117	90599	50.3809
43) Nitrobenzene	(2)	5.580	77	308325	51.5148
18) N-Nitrosopiperidine	(2)	5.741	114	126367	50.9950
46) Isophorone	(2)	5.837	82	546623	50.6616
47) 2-Nitrophenol	(2)	5.891	139	127782	53.9916
48) 2,4-Dimethylphenol	(2)	5.993	107	264534	51.5471
93) O,O,O-triethylphosphorothioate	(2)	6.064	198	118182	49.9907
49) bis(2-Chloroethoxy)methane	(2)	6.082	93	305846	51.1835
50) Benzoic acid	(2)	6.148	105	201070M	51.2322
51) 2,4-Dichlorophenol	(2)	6.142	162	205915	51.3916
52) 1,2,4-Trichlorobenzene	(2)	6.208	180	214332	50.4803
53) Naphthalene-d8	(2)	6.250	136	515855	40.0000
54) Naphthalene	(2)	6.274	128	710992	50.8683
56) 4-Chloroaniline	(2)	6.358	127	312872	51.0075
55) 2,6-Dichlorophenol	(2)	6.358	162	205263	51.4091

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:32
Date, time and analyst ID of latest file update: 06-Jul-2011 01:32 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	6.358	213	120529	52.2491
59)	Hexachlorobutadiene	(2)	6.411	225	100140	50.7177
65)	Quinoline	(2)	6.609	129	478678	49.9465
66)	Caprolactam	(2)	6.740	113	98904	49.5002
5)	N-Nitrosodi-n-butylamine	(2)	6.716	84	218322	48.5244
68)	4-Chloro-3-methylphenol	(2)	6.872	107	242220	51.4408
61)	Safrole	(2)	6.896	162	200204	51.9352
64)	cis-Isosafrole	(3)	7.177	162	35388	5.7282
69)	2-Methylnaphthalene	(2)	6.950	142	504738	51.1595
71)	1-Methylnaphthalene	(2)	7.040	142	471367	50.3581
72)	Hexachlorocyclopentadiene	(3)	7.105	237	104344	56.0018
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.111	216	211839	50.8806
62)	trans-Isosafrole	(3)	7.398	162	232685	50.8333
76)	2,4,6-Trichlorophenol	(3)	7.243	196	145508	52.1806
77)	2,4,5-Trichlorophenol	(3)	7.279	196	165555	51.4484
63)	Isosafrole	(3)	7.398	162	232685	57.1160
82)	Biphenyl	(3)	7.416	154	630572	50.6044
83)	Diphenyl	(3)	7.416	154	630572	50.6044
84)	1,1'-Biphenyl	(3)	7.416	154	630572	50.6044
85)	2-Chloronaphthalene	(3)	7.416	162	652405M	56.2742
86)	1-Chloronaphthalene	(3)	7.428	162	503586M	46.6444
87)	Diphenyl ether	(3)	7.524	170	337502	51.4423
88)	2-Nitroaniline	(3)	7.536	138	170749	51.9197
60)	1,4-Naphthoquinone	(3)	7.602	158	205147	54.2365
57)	1,4-Dinitrobenzene	(3)	7.686	168	86946	54.4146
92)	Dimethylphthalate	(3)	7.751	163	582687	50.1907
58)	1,3-Dinitrobenzene	(3)	7.757	168	103183	53.1381
98)	2,6-Dinitrotoluene	(3)	7.793	165	139670	52.0035
100)	Acenaphthylene	(3)	7.805	152	760129	51.5475
102)	3-Nitroaniline	(3)	7.937	138	157670	52.6405
103)	Acenaphthene-d10	(3)	7.943	164	345256	40.0000
106)	Acenaphthene	(3)	7.973	153	493524	50.6762
107)	2,4-Dinitrophenol	(3)	8.045	184	62993	54.0231
110)	Pentachlorobenzene	(3)	8.098	250	179986	50.1223
109)	4-Nitrophenol	(3)	8.146	109	100073	51.3762
112)	Dibenzofuran	(3)	8.140	168	698708	50.5646
113)	2,4-Dinitrotoluene	(3)	8.170	165	180208	50.9898
114)	1-Naphthylamine	(3)	8.224	143	567596	51.1854
115)	2,3,4,6-Tetrachlorophenol	(3)	8.272	232	125906	51.8261
117)	2-Naphthylamine	(3)	8.308	143	574092	50.6742
118)	Diethylphthalate	(3)	8.439	149	553193	49.8003
119)	Fluorene	(3)	8.469	166	596509	50.6284
29)	Thionazin	(3)	8.511	107	114664	50.6363

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:32
Date, time and analyst ID of latest file update: 06-Jul-2011 01:32 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	8.499	204	273055	50.4848
70)	5-Nitro-o-toluidine	(3)	8.511	152	183193	50.5021
121)	4-Nitroaniline	(3)	8.529	138	164112	49.8779
122)	4,6-Dinitro-2-methylphenol	(4)	8.553	198	98940	56.6036
67)	1-Nitronaphthalene	(4)	8.559	173	117902	51.8709
123)	N-Nitrosodiphenylamine	(4)	8.625	169	507988	51.1025
124)	NDPA as diphenylamine	(4)	8.625	169	507988	51.2388
125)	1,2-Diphenylhydrazine	(4)	8.649	77	731267	51.4926
108)	Tetraethyldithiopyrophosphate	(4)	8.822	97	105648	52.9221
81)	1,3,5-Trinitrobenzene	(4)	8.924	213	68220	57.6861
78)	Diallate (peak 1)	(4)	8.912	86	241099	38.7967
75)	Phorate	(4)	8.918	75	620050	54.0426
80)	Phenacetin	(4)	8.966	108	339514	53.1501
131)	4-Bromophenyl-phenylether	(4)	8.966	248	152341	51.5642
13)	Diallate (peak 2)	(4)	8.990	86	50169	13.3807
132)	Hexachlorobenzene	(4)	8.984	284	141589	49.5533
96)	Dimethoate	(4)	9.079	87	239192	52.5545
135)	Pentachlorophenol	(4)	9.193	266	93780	52.3813
136)	Pentachloronitrobenzene	(4)	9.199	237	65649	49.9144
105)	4-Aminobiphenyl	(4)	9.217	169	524238	49.9192
97)	Pronamide	(4)	9.313	173	262382	52.5712
140)	Phenanthrene-d10	(4)	9.361	188	578562	40.0000
141)	Phenanthrene	(4)	9.385	178	869144	50.9035
137)	Dinoseb	(4)	9.408	211	129245	58.0320
143)	Anthracene	(4)	9.432	178	890554	51.1666
145)	Carbazole	(4)	9.612	167	824433	50.9219
149)	Methyl parathion	(4)	9.773	109	185697	54.9422
148)	Di-n-butylphthalate	(4)	10.019	149	968784	52.6562
150)	Parathion	(4)	10.162	109	131468	53.9379
133)	4-Nitroquinoline-1-oxide	(4)	10.144	190	77122	62.4744
99)	Isodrin	(4)	10.366	193	95982	52.4611
153)	Fluoranthene	(4)	10.515	202	873096	51.0429
154)	Benzidine	(5)	10.701	184	1617169	157.1776
155)	Pyrene	(5)	10.725	202	955031	51.1999
147)	p-Dimethylaminoazobenzene	(5)	11.072	225	193214	53.2163
144)	Chlorobenzilate	(5)	11.137	139	303809	52.8833
161)	3,3'-Dimethylbenzidine	(5)	11.401	212	530905	56.1660
162)	Butylbenzylphthalate	(5)	11.448	149	431356	52.0733
101)	2-Acetylaminofluorene	(5)	11.640	181	402085	55.9443
165)	3,3'-Dichlorobenzidine	(5)	11.903	252	327603	52.7832
164)	Benzo(a)anthracene	(5)	11.885	228	852817	51.2836
167)	4,4'-Methylenebis(2-Chloroanil	(5)	11.915	231	169340	53.1048
166)	Chrysene-d12	(5)	11.897	240	606034	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

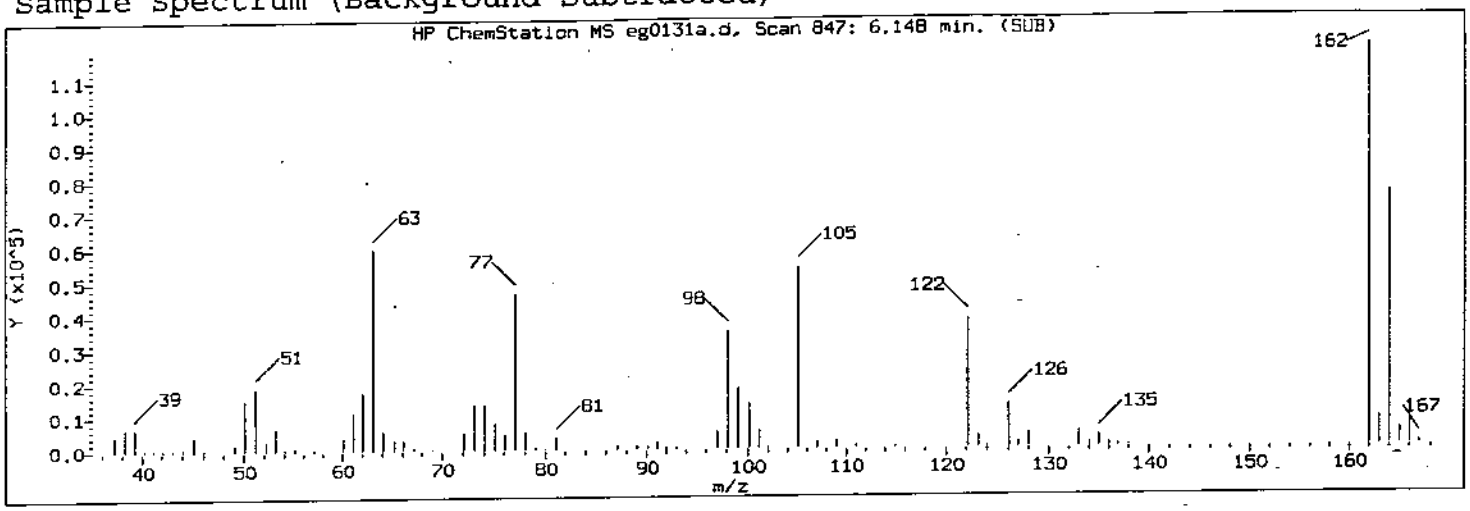
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:32
Date, time and analyst ID of latest file update: 06-Jul-2011 01:32 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1731

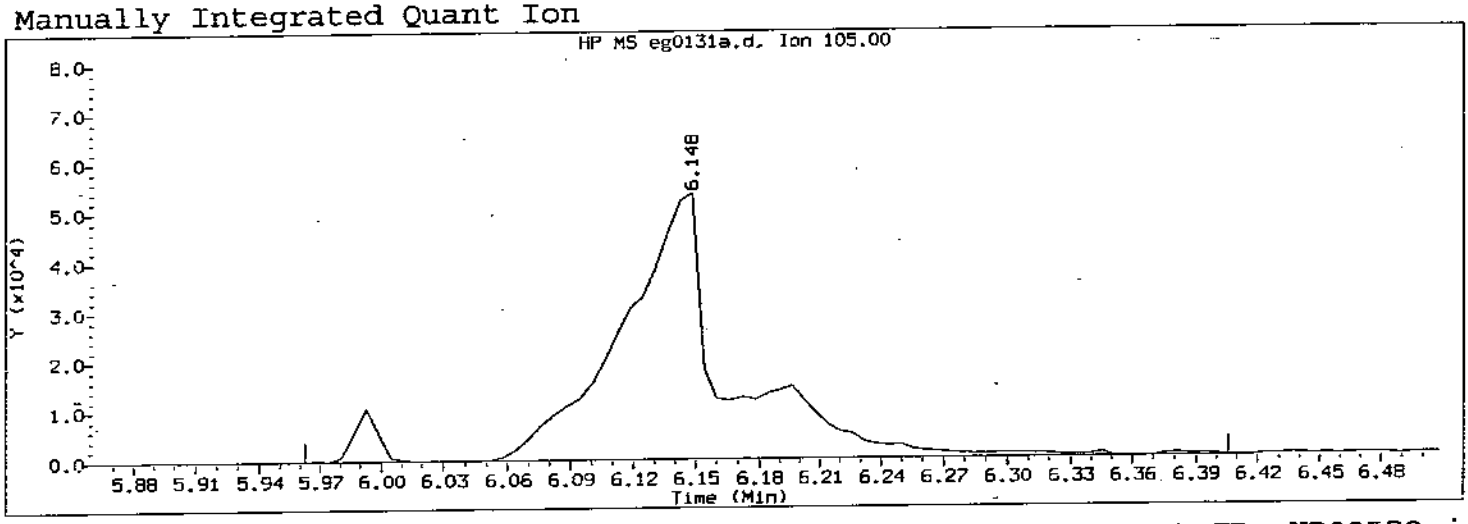
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168)	Chrysene	(5)	11.921	228	869471	49.9127
169)	bis(2-Ethylhexyl)phthalate	(5)	12.029	149	599699	53.9560
170)	6-Methylchrysene	(5)	12.346	242	612229	52.1608
172)	Di-n-octylphthalate	(6)	12.639	149	974197	56.5183
174)	7,12-Dimethylbenz[a]anthracene	(6)	12.878	256	412600	52.5112
173)	Benzo(b)fluoranthene	(6)	12.872	252	832128	51.6815
175)	Benzo(k)fluoranthene	(6)	12.896	252	852989	51.3023
176)	Benzo(a)pyrene	(6)	13.153	252	772715	51.6126
177)	Perylene-d12	(6)	13.201	264	546832	40.0000
180)	3-Methylcholanthrene	(6)	13.470	268	436043	53.5284
181)	Dibenz(a,h)acridine	(6)	13.931	279	572722	54.8642
183)	Dibenz(a,j)acridine	(6)	13.979	279	663807	51.8179
185)	Indeno(1,2,3-cd)pyrene	(6)	14.111	276	840010	52.2540
187)	Dibenz(a,h)anthracene	(6)	14.134	278	713950	51.3921
188)	Benzo(g,h,i)perylene	(6)	14.314	276	714783	51.1212
194)	Diallate TRANS/CIS	(4)	23.556	86	291268	52.1773
11)	2-Fluorophenol	(1)	3.558	112	203577	51.5002
19)	Phenol-d5	(1)	4.694	99	300137	52.3451
20)	Phenol-d6	(1)	4.694	99	300137	52.3451
42)	Nitrobenzene-d5	(2)	5.562	82	298789	51.1212
79)	2-Fluorobiphenyl	(3)	7.327	172	537919	51.0984
126)	2,4,6-Tribromophenol	(3)	8.703	330	61835	51.9086
157)	Terphenyl-d14	(5)	10.928	244	661652	51.5613

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all
Calibration date and time: 06-JUL-2011 01:32
Date, time and analyst ID of latest file update: 06-Jul-2011 01:32 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1731

Compound Number	: 50
Compound Name	: Benzoic acid
Scan Number	: 847
Retention Time (minutes)	: 6.148
Quant Ion	: 105
Area (flag)	: 201070 M
Concentration (ng/ul)	: 51.2322
Integration start scan	: 815 Integration stop scan: 889
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 7-5-11

USF83 8296

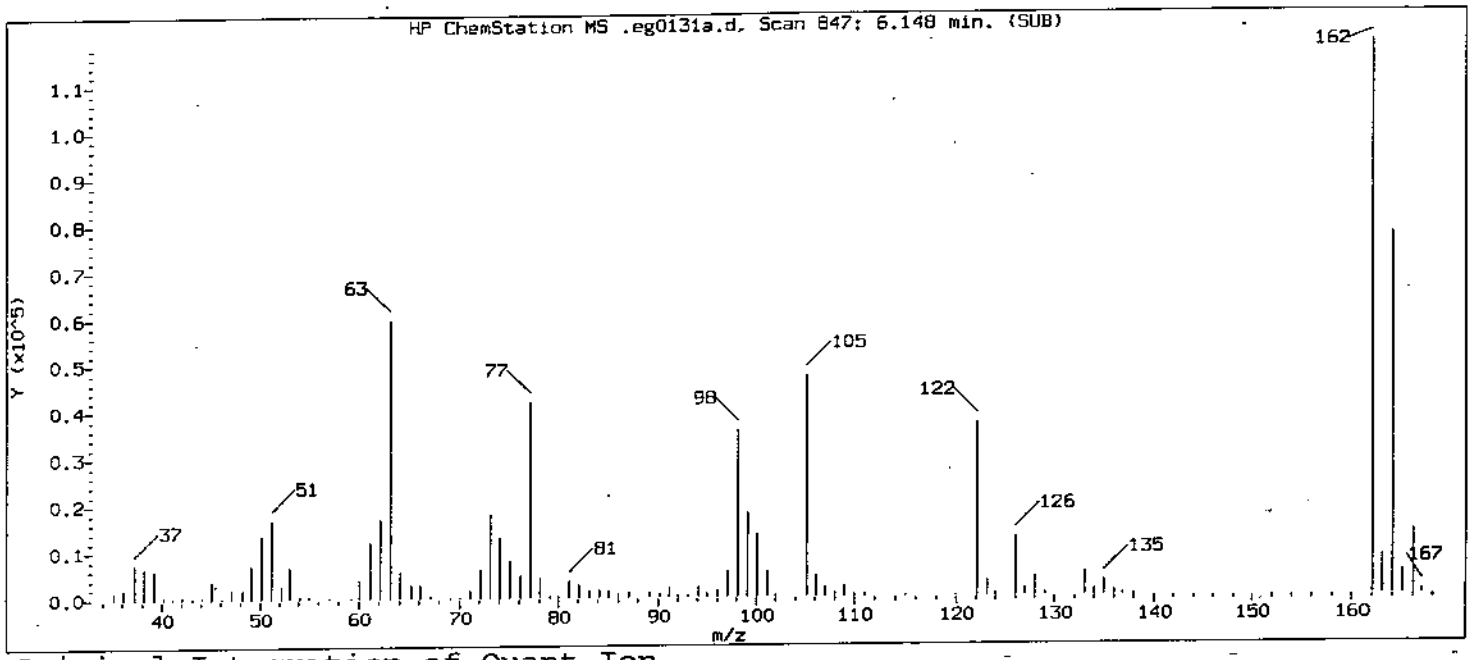
GC/MS audit/management approval: [signature]

JUL 07 2011

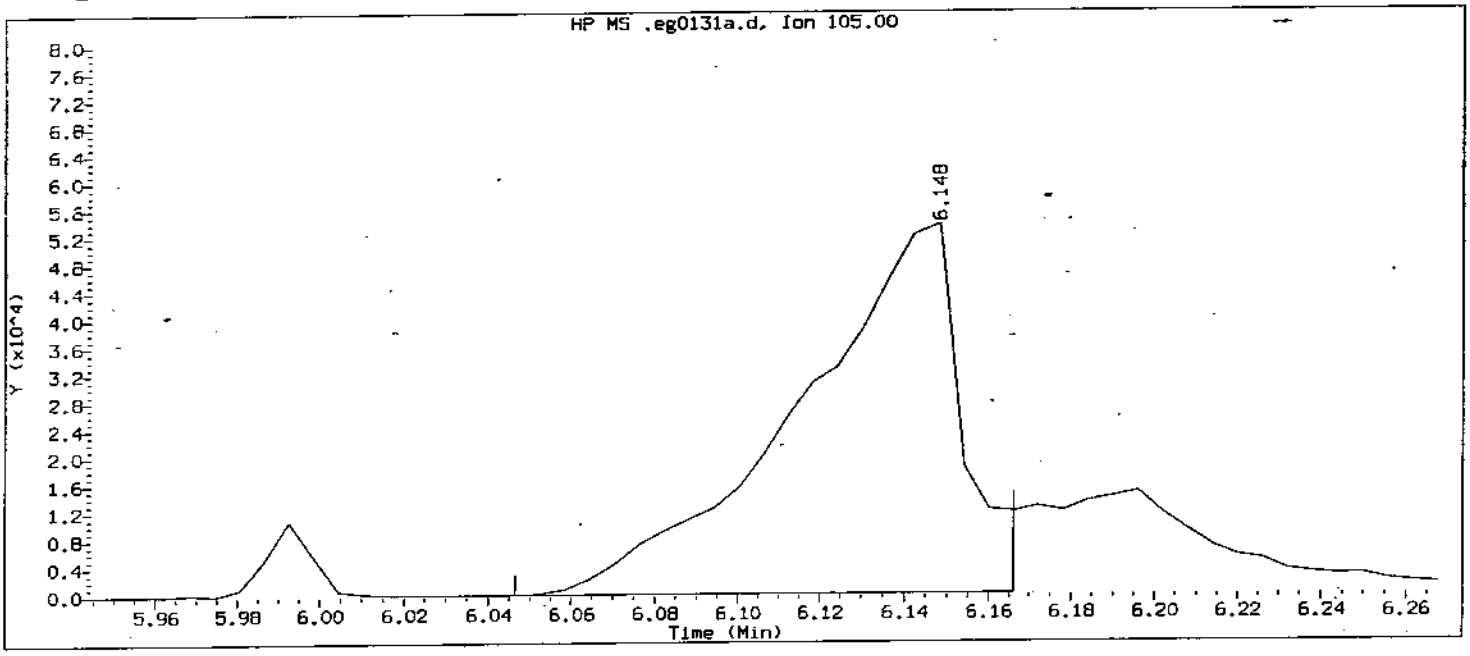
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0131a.d, generated on 07/06/2011 at 01:32

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 21:56
Date, time and analyst ID of latest file update: 05-Jul-2011 21:56 Automation

Sample Name: SSTD050 Lab Sample ID: STD1731

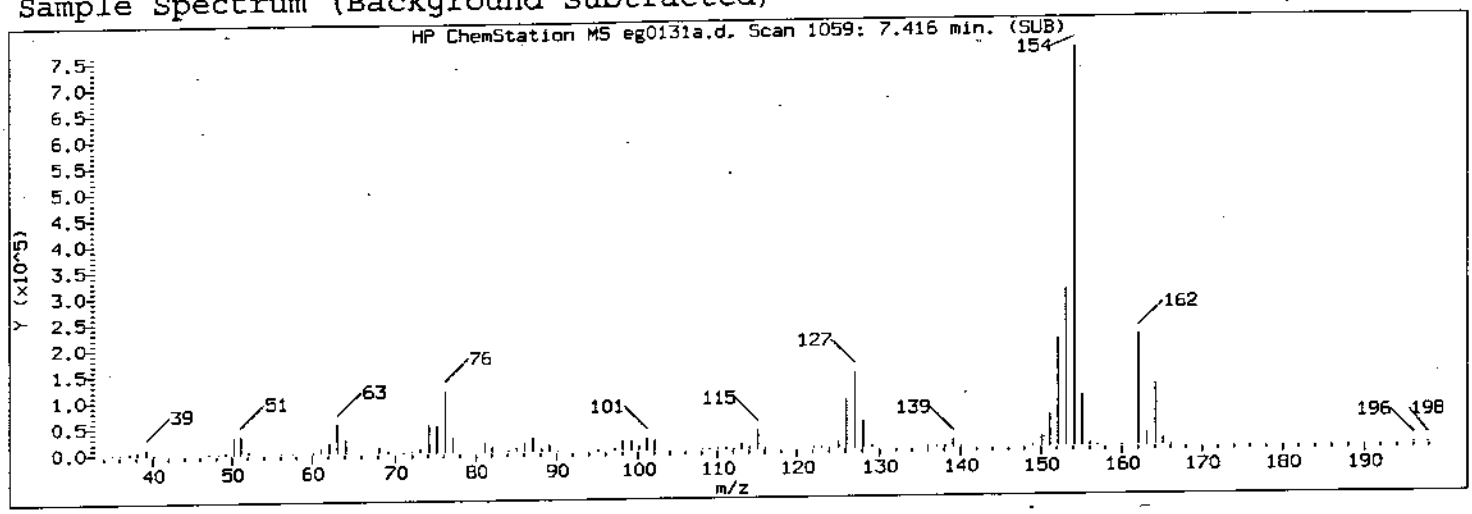
Compound Number	: 50
Compound Name	: Benzoic acid
Scan Number	: 847
Retention Time (minutes)	: 6.148
Quant Ion	: 105
Area	: 142850
Concentration (ng/ul)	: 29.2499
Integration start scan	: 829 Integration stop scan: 849
Y at integration start	: 0 Y at integration end: 0

7-5-11

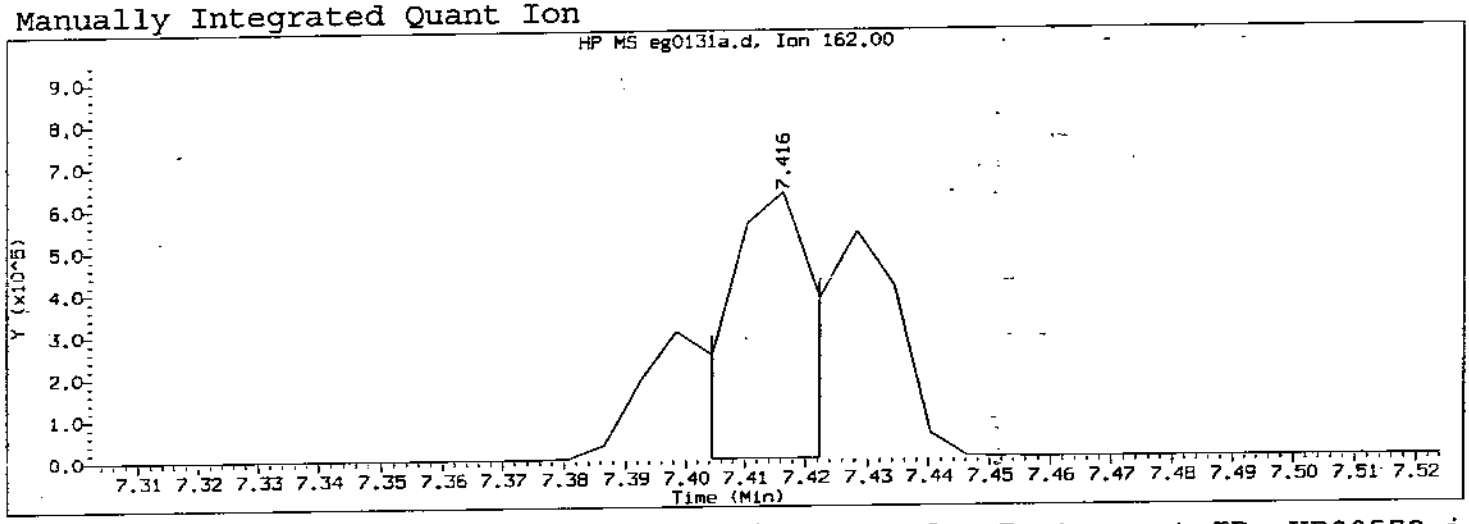
USV03 8297

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0131a.d, generated on 07/06/2011 at 01:32

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:32
Date, time and analyst ID of latest file update: 06-Jul-2011 01:32 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1731

Compound Number : 85
Compound Name : 2-Chloronaphthalene
Scan Number : 1059
Retention Time (minutes): 7.416
Quant Ion : 162
Area (flag) : 652405 M
Concentration (ng/ul) : 56.2742
Integration start scan : 1056 Integration stop scan: 1059
Y at integration start : 186 Y at integration end: 298

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-5-11

GC/MS audit/management approval: _____

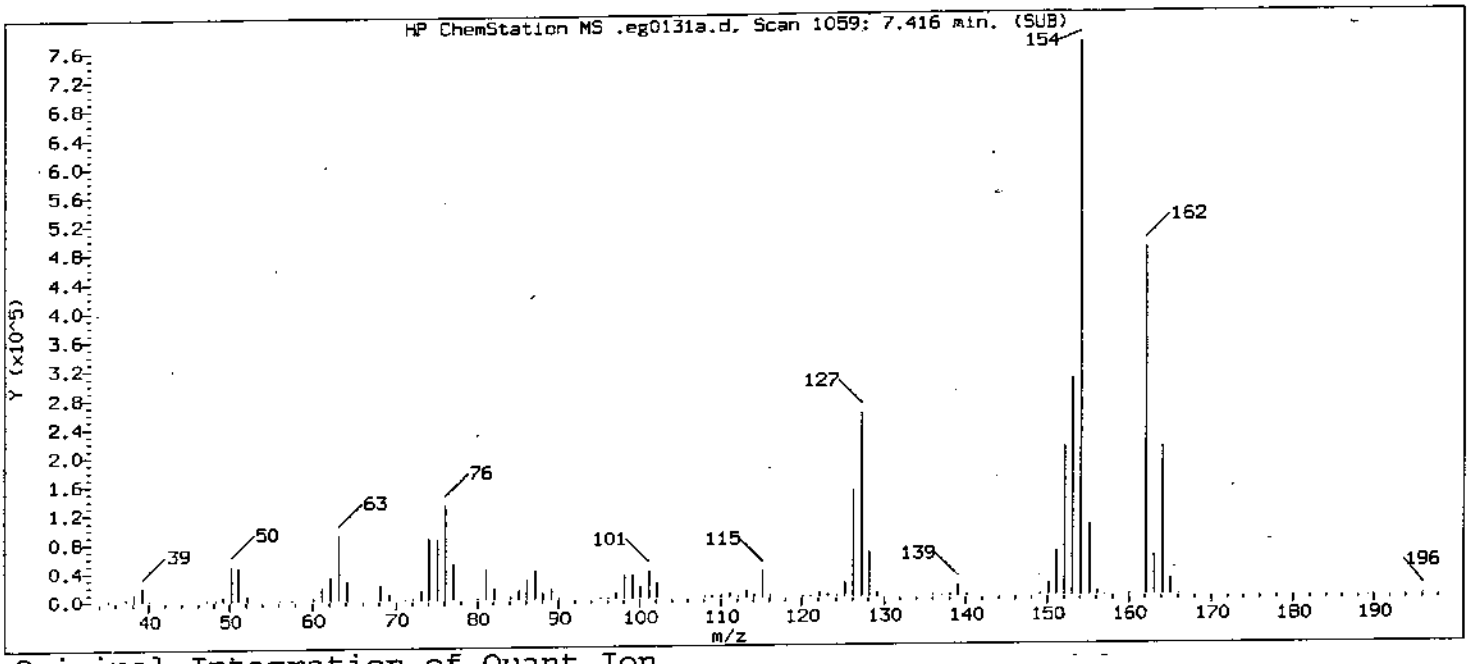
USPS 8298

JUL 07 2011

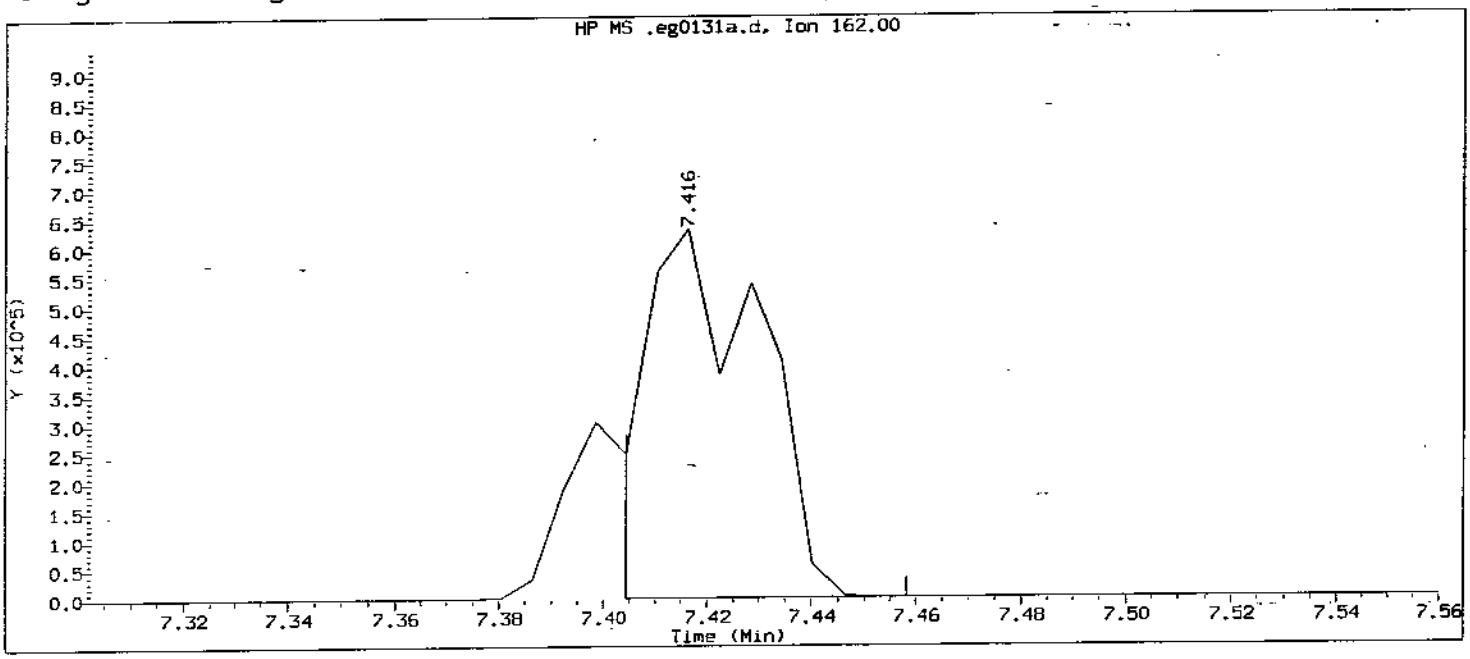
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0131a.d, generated on 07/06/2011 at 01:32

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 21:56
Date, time and analyst ID of latest file update: 05-Jul-2011 21:56 Automation

Sample Name: SSTD050 Lab Sample ID: STD1731

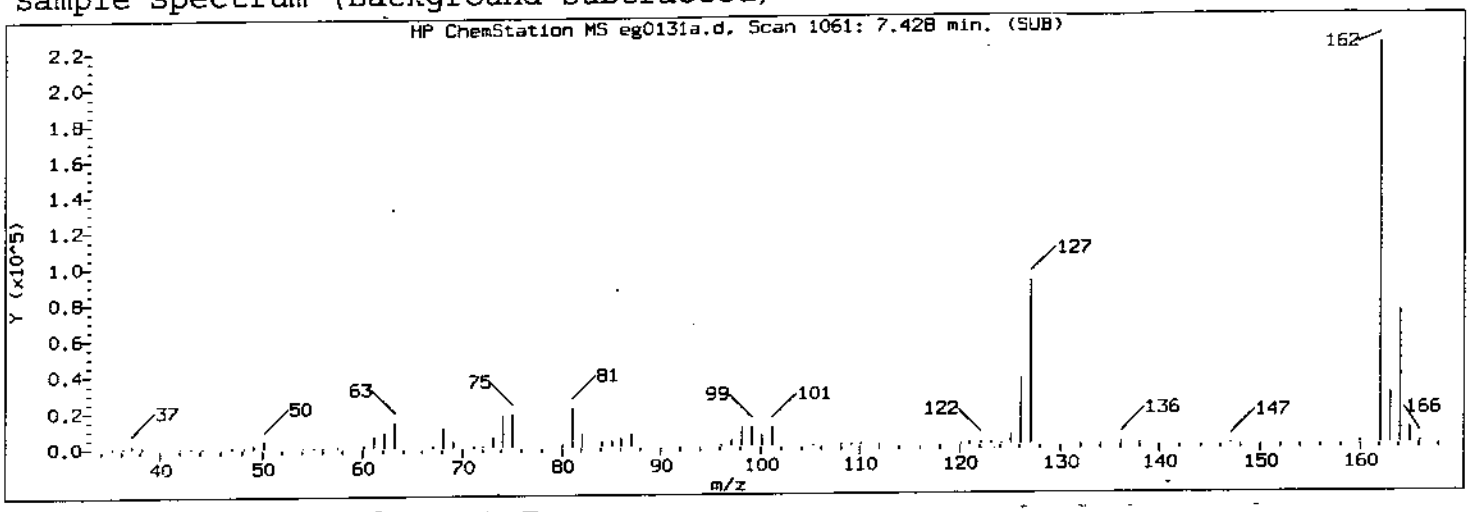
Compound Number	: 85
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1059
Retention Time (minutes)	: 7.416
Quant Ion	: 162
Area	: 968456
Concentration (ng/ul)	: 85.0122
Integration start scan	: 1056 Integration stop scan: 1065
Y at integration start	: 186 Y at integration end: 522

7-5-11

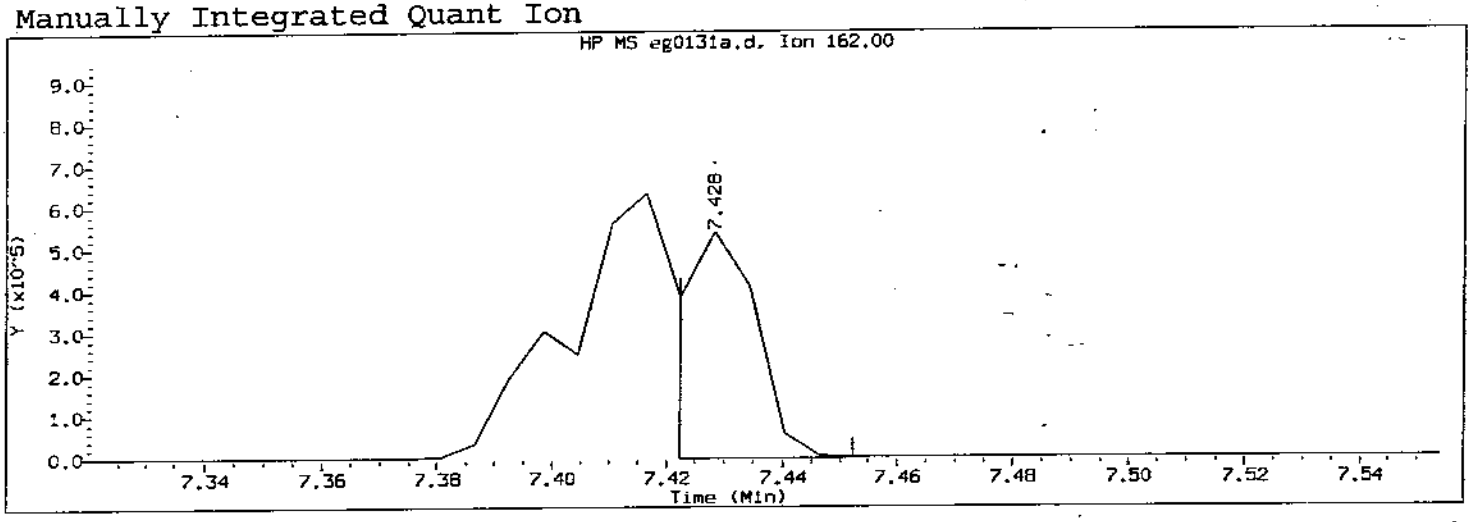
USF03 0299

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0131a.d, generated on 07/06/2011 at 01:32

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:32
Date, time and analyst ID of latest file update: 06-Jul-2011 01:32 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1731

Compound Number	: 86	
Compound Name	: 1-Chloronaphthalene	
Scan Number	: 1061	
Retention Time (minutes)	: 7.428	
Quant Ion	: 162	
Area (flag)	: 503586	M
Concentration (ng/ul)	: 46.6444	
Integration start scan	: 1059	Integration stop scan: 1064
Y at integration start	: -2584	Y at integration end: -2584

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: _____ 7-5-11

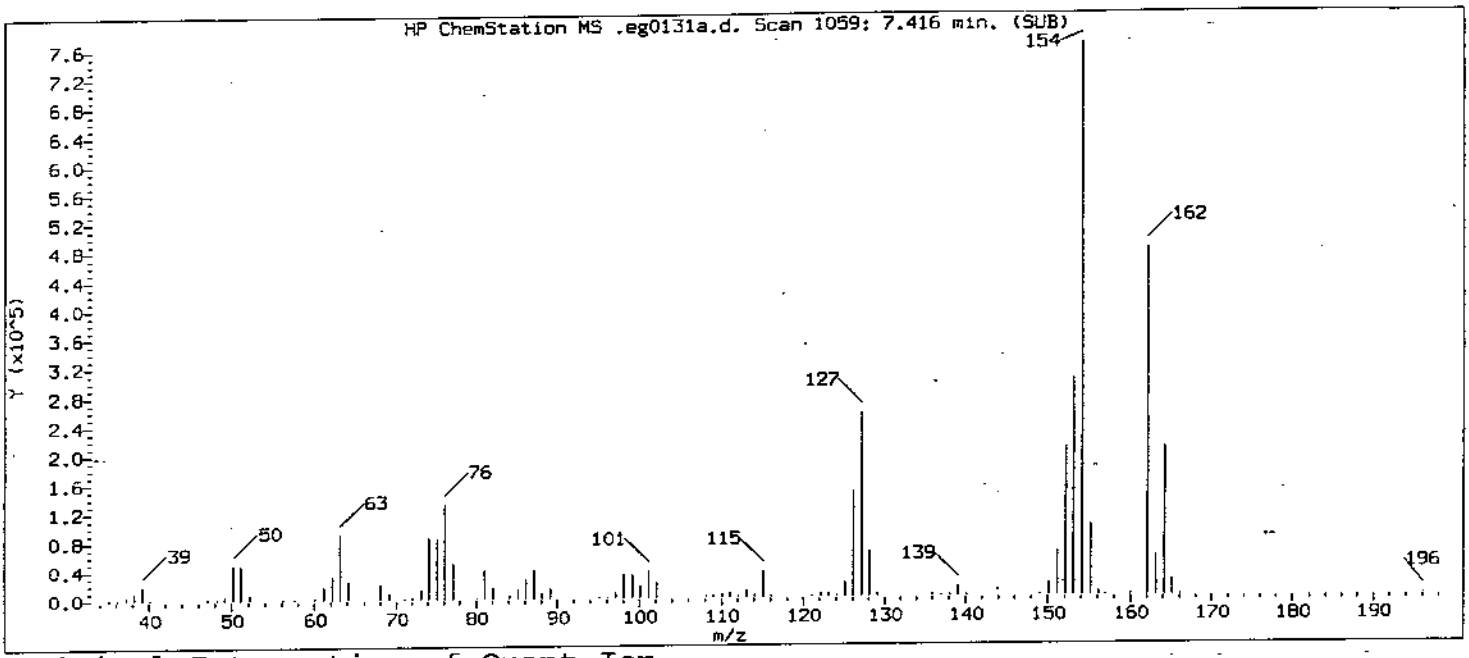
GC/MS audit/management approval: _____

JUL 07 2011

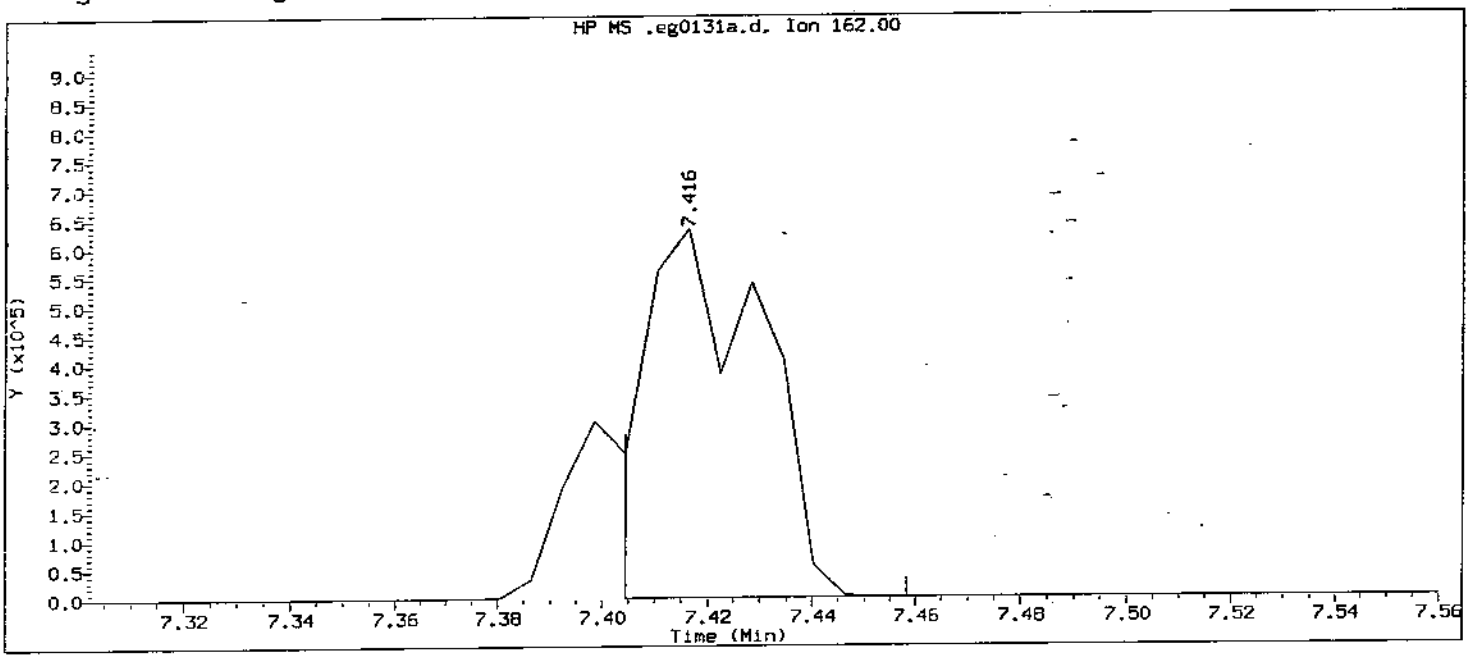
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0131a.d, generated on 07/06/2011 at 01:32

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0131a.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 21:36 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 21:56
Date, time and analyst ID of latest file update: 05-Jul-2011 21:56 Automation

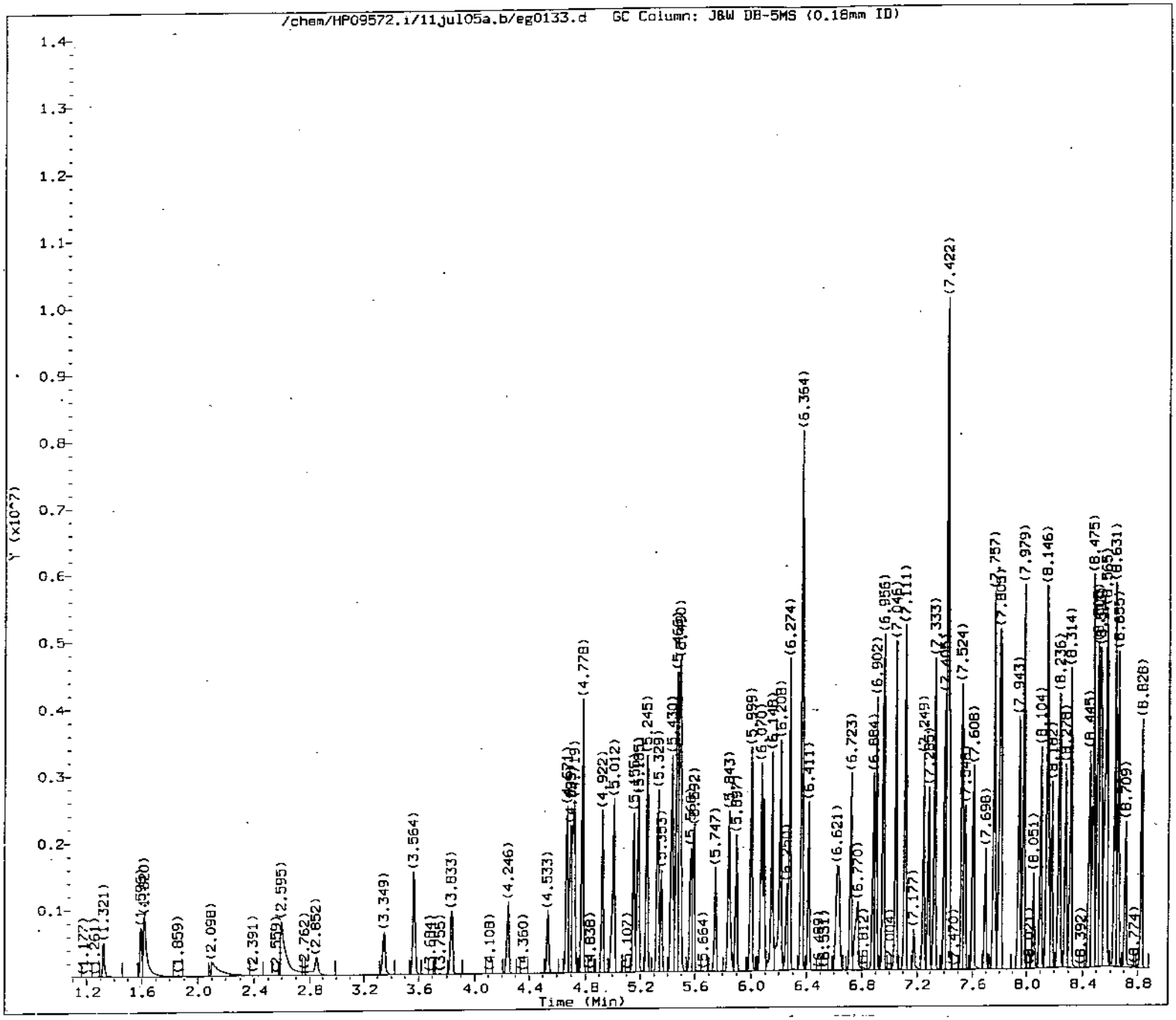
Sample Name: SSTD050 Lab Sample ID: STD1731

Compound Number : 86
Compound Name : 1-Chloronaphthalene
Scan Number : 1059
Retention Time (minutes): 7.416
Quant Ion : 162
Area : 969105
Concentration (ng/ul) : 107.7917
Integration start scan : 1056 Integration stop scan: 1065
Y at integration start : 149 Y at integration end: 157

7-5-11

USY83 8381

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0131a.d, generated on 07/06/2011 at 01:32



Quant Report

Target Revision 3.5

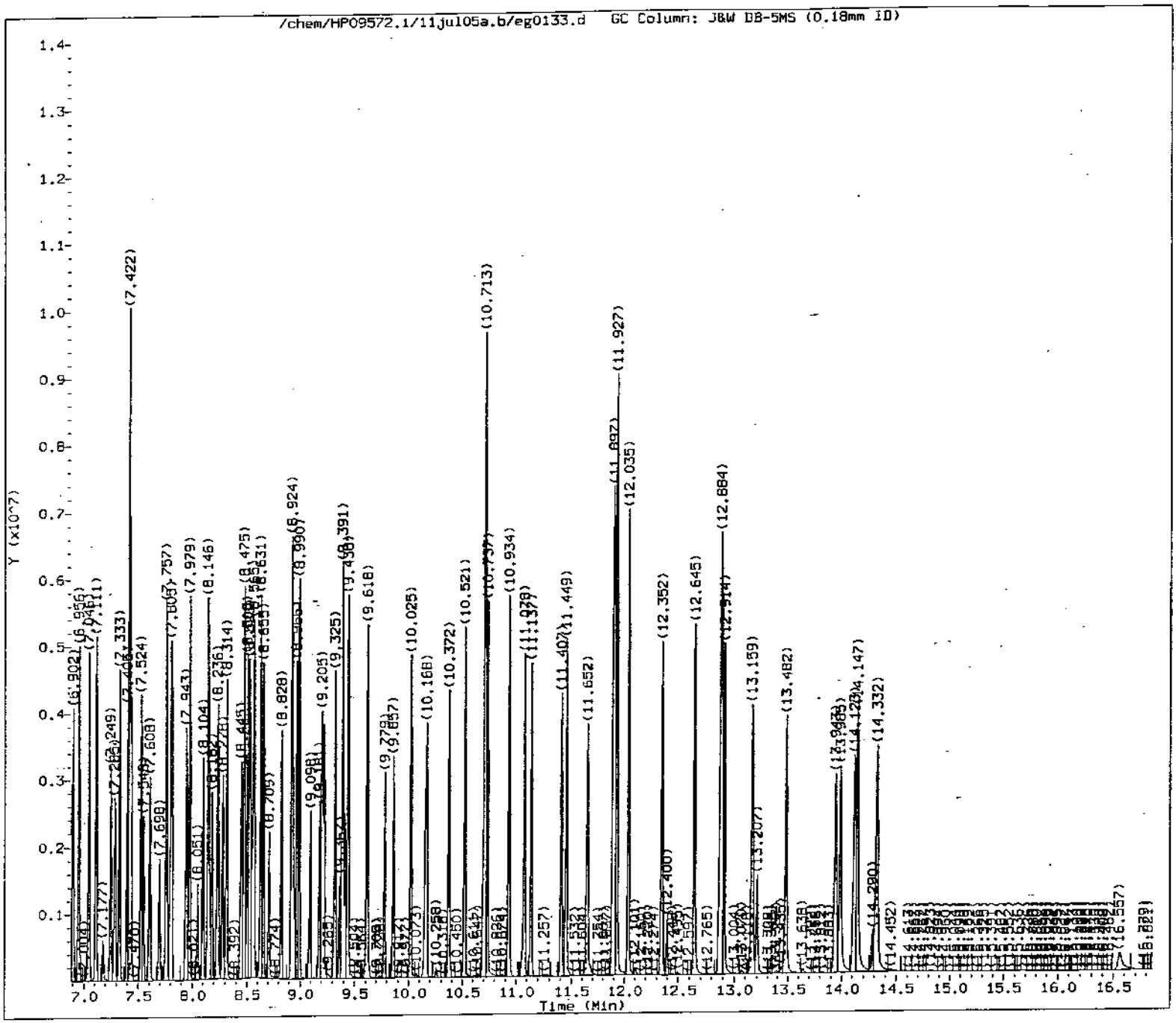
Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

7-5-11

USEPA 8382



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

7-5-11

USF03 03883

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.321	88	190531	123.7981
3) N-Nitrosodimethylamine	(1)	1.596	74	344698	123.0366
4) Pyridine	(1)	1.620	79	585974	132.3845
6) 2-Picoline	(1)	2.595	93	567285	131.9085
2) N-Nitrosomethylethylamine	(1)	2.852	88	232117	124.6805
8) Methyl methanesulfonate	(1)	3.349	80	328428	124.0647
9) N-Nitrosodiethylamine	(1)	3.833	102	264059	125.9429
15) Ethyl methanesulfonate	(1)	4.246	109	261420	124.1534
22) Phenol	(1)	4.724	94	722951	123.2458
21) Aniline	(1)	4.671	93	861190	126.7491
33) Pentachloroethane	(1)	4.695	167	168238	125.1752
23) bis(2-Chloroethyl)ether	(1)	4.778	93	565226	125.8868
24) 2-Chlorophenol	(1)	4.778	128	522711	129.7923
26) 1,3-Dichlorobenzene	(1)	4.928	146	527240	123.9918
27) 1,4-Dichlorobenzene-d4	(1)	4.994	152	103705	40.0000
28) 1,4-Dichlorobenzene	(1)	5.012	146	547575	124.4680
31) Benzyl alcohol	(1)	5.185	108	373118	130.5091
32) 1,2-Dichlorobenzene	(1)	5.155	146	523934	125.1232
17) Indene	(1)	5.245	115	880093	129.1792
34) 2-Methylphenol	(1)	5.353	108	506990M	135.2386
35) 2,2'-oxybis(1-Chloropropane)	(1)	5.329	45	626918	123.1556
36) bis(2-Chloroisopropyl)ether	(1)	5.329	45	626918	123.1556
30) N-Nitrosopyrrolidine	(1)	5.436	100	313592	128.2308
37) Acetophenone	(1)	5.430	105	776496	124.7082
38) N-Nitroso-di-n-propylamine	(1)	5.472	70	538066	127.1900
39) 4-Methylphenol	(1)	5.490	108	579498	130.1011
7) N-Nitrosomorpholine	(1)	5.484	56	384066	126.8224
40) o-Toluidine	(1)	5.466	106	904525	126.7992
41) Hexachloroethane	(1)	5.484	117	218304	129.9364
43) Nitrobenzene	(2)	5.592	77	700233	122.8368
18) N-Nitrosopiperidine	(2)	5.747	114	292026	123.7308
46) Isophorone	(2)	5.843	82	1253440	121.9710
47) 2-Nitrophenol	(2)	5.897	139	299482	132.8585
48) 2,4-Dimethylphenol	(2)	5.999	107	617377	126.3095
93) O,O,O-triethylphosphorothioate	(2)	6.070	198	276111	122.6265
49) bis(2-Chloroethoxy)methane	(2)	6.088	93	710567	124.8516
50) Benzoic acid	(2)	6.202	105	517594M	154.5528
51) 2,4-Dichlorophenol	(2)	6.148	162	481919	126.2818
52) 1,2,4-Trichlorobenzene	(2)	6.208	180	501221	123.9444
53) Naphthalene-d8	(2)	6.250	136	491321	40.0000
54) Naphthalene	(2)	6.274	128	1634387	122.7721
56) 4-Chloroaniline	(2)	6.364	127	742826	127.1502
55) 2,6-Dichlorophenol	(2)	6.358	162	486297	127.8771

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	6.364	213	293877	133.7565
59)	Hexachlorobutadiene	(2)	6.417	225	234710	124.8089
65)	Quinoline	(2)	6.621	129	1105493	121.1099
66)	Caprolactam	(2)	6.770	113	233671M	122.7893
5)	N-Nitrosodi-n-butylamine	(2)	6.723	84	470115	109.7056
68)	4-Chloro-3-methylphenol	(2)	6.884	107	567978	126.6460
61)	Safrole	(2)	6.902	162	468912	127.7153
64)	cis-Isosafrole	(3)	7.177	162	79325	13.3136
69)	2-Methylnaphthalene	(2)	6.956	142	1168105	124.3095
71)	1-Methylnaphthalene	(2)	7.046	142	1095008	122.8259
72)	Hexachlorocyclopentadiene	(3)	7.111	237	260048	144.7128
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.117	216	497430	123.8789
62)	trans-Isosafrole	(3)	7.405	162	637503	144.4046
76)	2,4,6-Trichlorophenol	(3)	7.249	196	345096	128.3162
77)	2,4,5-Trichlorophenol	(3)	7.291	196	396381	127.7208
63)	Isosafrole	(3)	7.405	162	637503	162.2524
82)	Biphenyl	(3)	7.422	154	1498435	124.6839
83)	Diphenyl	(3)	7.422	154	1498435	124.6839
84)	1,1'-Biphenyl	(3)	7.422	154	1498435	124.6839
85)	2-Chloronaphthalene	(3)	7.422	162	1535315M	125.8737
86)	1-Chloronaphthalene	(3)	7.434	162	1153309M	99.7596
87)	Diphenyl ether	(3)	7.524	170	775032	122.4850
88)	2-Nitroaniline	(3)	7.548	138	412369	130.0107
60)	1,4-Naphthoquinone	(3)	7.608	158	472853	129.6200
57)	1,4-Dinitrobenzene	(3)	7.698	168	212688	138.0156
92)	Dimethylphthalate	(3)	7.757	163	1359472	121.4165
58)	1,3-Dinitrobenzene	(3)	7.763	168	250535	133.7783
98)	2,6-Dinitrotoluene	(3)	7.799	165	333641	128.8036
100)	Acenaphthylene	(3)	7.811	152	1776981	124.9460
102)	3-Nitroaniline	(3)	7.949	138	369447	127.8918
103)	Acenaphthene-d10	(3)	7.943	164	332983	40.0000
106)	Acenaphthene	(3)	7.979	153	1146076	122.0191
107)	2,4-Dinitrophenol	(3)	8.051	184	165444	147.1152
110)	Pentachlorobenzene	(3)	8.104	250	419486	121.1238
109)	4-Nitrophenol	(3)	8.158	109	241088	128.3334
112)	Dibenzofuran	(3)	8.146	168	1637088	122.8406
113)	2,4-Dinitrotoluene	(3)	8.182	165	435025	127.6271
114)	1-Naphthylamine	(3)	8.236	143	1319454	123.3731
115)	2,3,4,6-Tetrachlorophenol	(3)	8.278	232	300651	128.3168
117)	2-Naphthylamine	(3)	8.314	143	1321947	120.9870
118)	Diethylphthalate	(3)	8.445	149	1305196	121.8289
119)	Fluorene	(3)	8.475	166	1406159	123.7458
29)	Thionazin	(3)	8.517	107	267545	122.5042

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	8.505	204	636481	122.0156
70)	5-Nitro-o-toluidine	(3)	8.529	152	441693	126.2526
121)	4-Nitroaniline	(3)	8.553	138	385583	121.5080
122)	4,6-Dinitro-2-methylphenol	(4)	8.571	198	251554	150.7526
67)	1-Nitronaphthalene	(4)	8.565	173	283958	130.8634
123)	N-Nitrosodiphenylamine	(4)	8.631	169	1202494	126.7165
124)	NDPA as diphenylamine	(4)	8.631	169	1202150	127.0180
125)	1,2-Diphenylhydrazine	(4)	8.655	77	1703130	125.6255
108)	Tetraethyldithiopyrophosphate	(4)	8.828	97	250538	131.4653
81)	1,3,5-Trinitrobenzene	(4)	8.942	213	176282	156.1452
78)	Diallate (peak 1)	(4)	8.918	86	581532	98.0244
75)	Phorate	(4)	8.924	75	1521723	138.9333
80)	Phenacetin	(4)	8.984	108	829820	136.0791
131)	4-Bromophenyl-phenylether	(4)	8.972	248	358887	127.2480
13)	Diallate (peak 2)	(4)	8.990	86	123360	34.4650
132)	Hexachlorobenzene	(4)	8.990	284	346535	127.0432
96)	Dimethoate	(4)	9.098	87	529223	121.8045
135)	Pentachlorophenol	(4)	9.199	266	237307	138.8474
136)	Pentachloronitrobenzene	(4)	9.205	237	160180	127.5755
105)	4-Aminobiphenyl	(4)	9.223	169	1116567	111.3743
97)	Pronamide	(4)	9.325	173	627398	131.6795
140)	Phenanthrene-d10	(4)	9.367	188	552317	40.0000
141)	Phenanthrene	(4)	9.391	178	2035880	124.9020
137)	Dinoseb	(4)	9.415	211	344582	162.0720
143)	Anthracene	(4)	9.438	178	2092688	125.9482
145)	Carbazole	(4)	9.618	167	1931560	124.9739
149)	Methyl parathion	(4)	9.779	109	418054	129.5672
148)	Di-n-butylphthalate	(4)	10.025	149	2293575	130.5861
150)	Parathion	(4)	10.168	109	318609	136.9285
133)	4-Nitroquinoline-1-oxide	(4)	10.156	190	194327	164.8991
99)	Isodrin	(4)	10.372	193	227738	130.3902
153)	Fluoranthene	(4)	10.521	202	2056235	125.9237
154)	Benzidine	(5)	10.713	184	4239376	412.6119
155)	Pyrene	(5)	10.737	202	2260891	121.3769
147)	p-Dimethylaminoazobenzene	(5)	11.078	225	474914	130.9862
144)	Chlorobenzilate	(5)	11.137	139	744192	129.7202
161)	3,3'-Dimethylbenzidine	(5)	11.407	212	1302887	138.0282
162)	Butylbenzylphthalate	(5)	11.455	149	1046520	126.5119
101)	2-Acetylaminofluorene	(5)	11.652	181	983342	137.0084
165)	3,3'-Dichlorobenzidine	(5)	11.909	252	809489	130.6060
164)	Benzo(a)anthracene	(5)	11.891	228	2081940	125.3704
167)	4,4'-Methylenebis(2-Chloroanil	(5)	11.927	231	428887	134.6857
166)	Chrysene-d12	(5)	11.903	240	605191	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

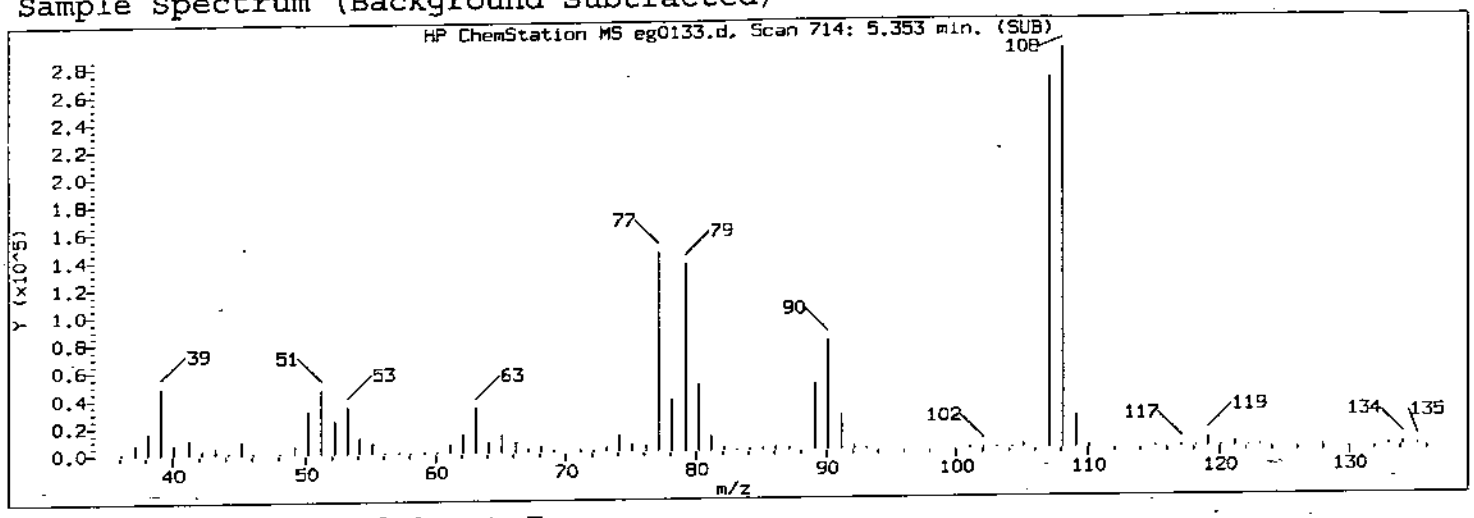
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

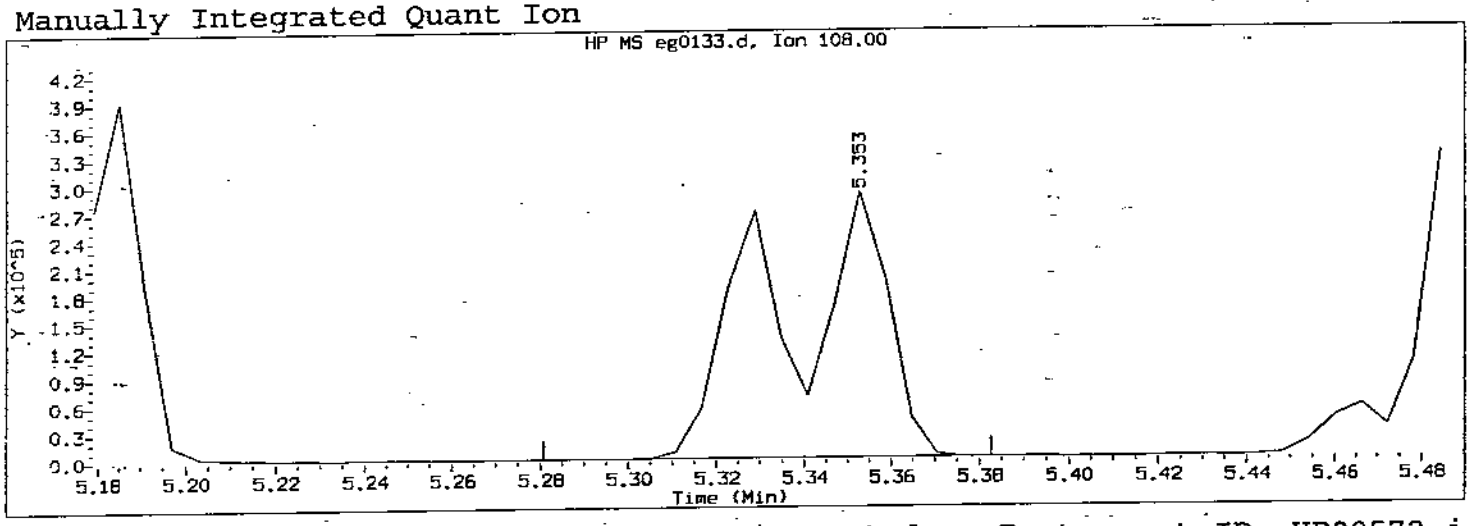
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168)	Chrysene	(5)	11.933	228	2118564	121.7874
169)	bis(2-Ethylhexyl)phthalate	(5)	12.035	149	1455918	131.1740
170)	6-Methylchrysene	(5)	12.352	242	1463243	124.8393
172)	Di-n-octylphthalate	(6)	12.645	149	2397524	143.4267
174)	7,12-Dimethylbenz[a]anthracene	(6)	12.890	256	1008112	132.2989
173)	Benzo(b)fluoranthene	(6)	12.890	252	2029313	127.0291
175)	Benzo(k)fluoranthene	(6)	12.914	252	2188198M	135.7078
176)	Benzo(a)pyrene	(6)	13.159	252	1857052	127.9044
177)	Perylene-d12	(6)	13.207	264	530309	40.0000
180)	3-Methylcholanthrene	(6)	13.482	268	1068102	135.2050
181)	Dibenz(a,h)acridine	(6)	13.943	279	1416866	139.9584
183)	Dibenz(a,j)acridine	(6)	13.985	279	1626191	130.8985
185)	Indeno(1,2,3-cd)pyrene	(6)	14.123	276	2030132	130.2219
187)	Dibenz(a,h)anthracene	(6)	14.147	278	1748509	129.7840
188)	Benzo(g,h,i)perylene	(6)	14.332	276	1739762	128.3044
194)	Diallate TRANS/CIS	(4)	23.556	86	704892	132.4894
11)	2-Fluorophenol	(1)	3.564	112	470274	127.3380
19)	Phenol-d5	(1)	4.707	99	686617	128.1736
20)	Phenol-d6	(1)	4.707	99	686617	128.1736
42)	Nitrobenzene-d5	(2)	5.568	82	691784	124.2708
79)	2-Fluorobiphenyl	(3)	7.333	172	1230201	121.1673
126)	2,4,6-Tribromophenol	(3)	8.709	330	150800	131.2580
157)	Terphenyl-d14	(5)	10.934	244	1566916	122.2768

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

Compound Number	: 34
Compound Name	: 2-Methylphenol
Scan Number	: 714
Retention Time (minutes)	: 5.353
Quant Ion	: 108
Area (flag)	: 506990 M
Concentration (ng/ul)	: 135.2386
Integration start scan	: 701 Integration stop scan: 718
Y at integration start	: 349 Y at integration end: 563

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 7-05-11

USF03 0389

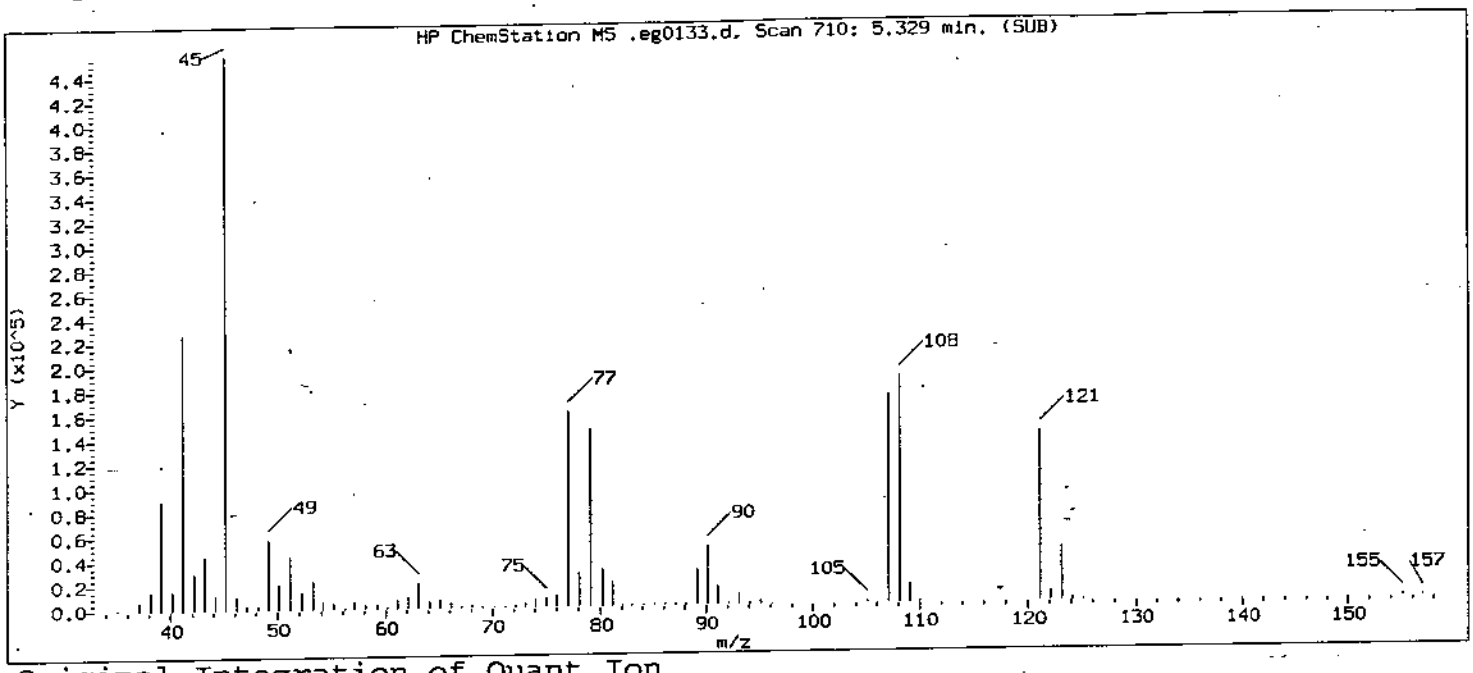
GC/MS audit/management approval:

JUL 07 2011

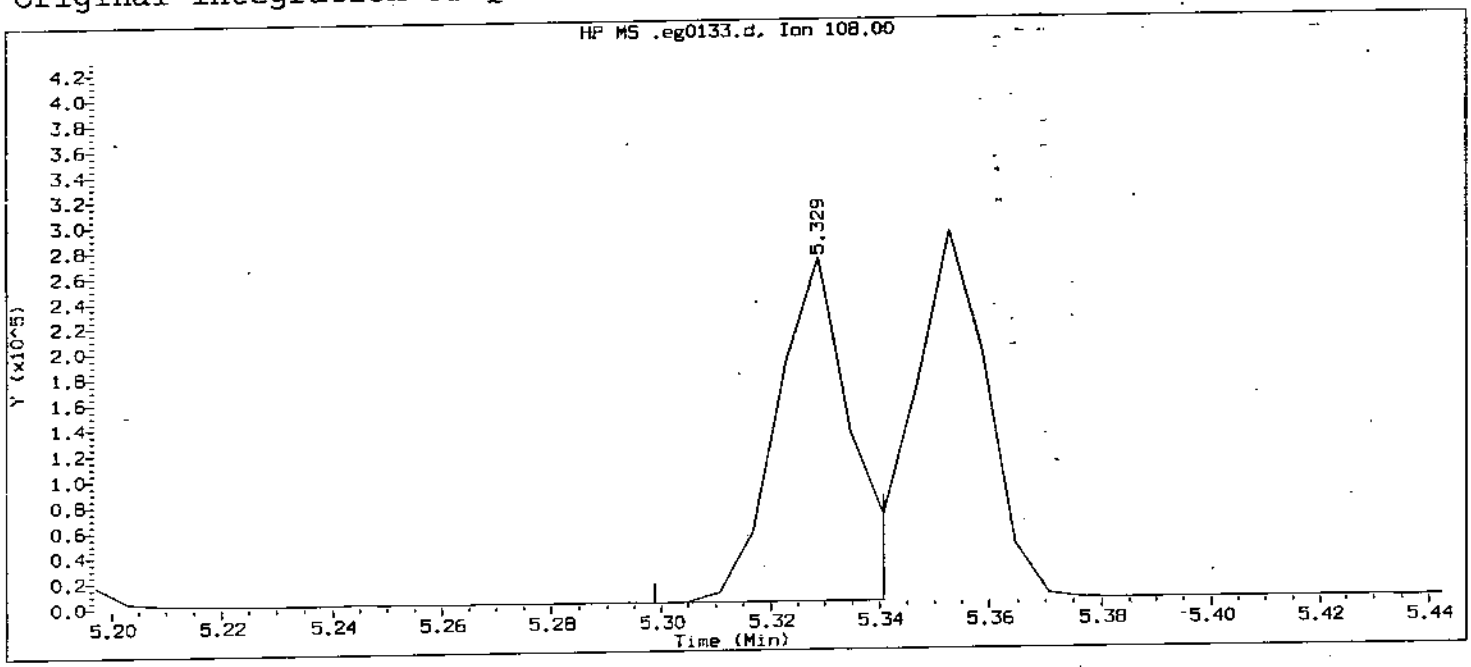
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all
Calibration date and time: 05-JUL-2011 22:46
Date, time and analyst ID of latest file update: 05-Jul-2011 22:46 Automation

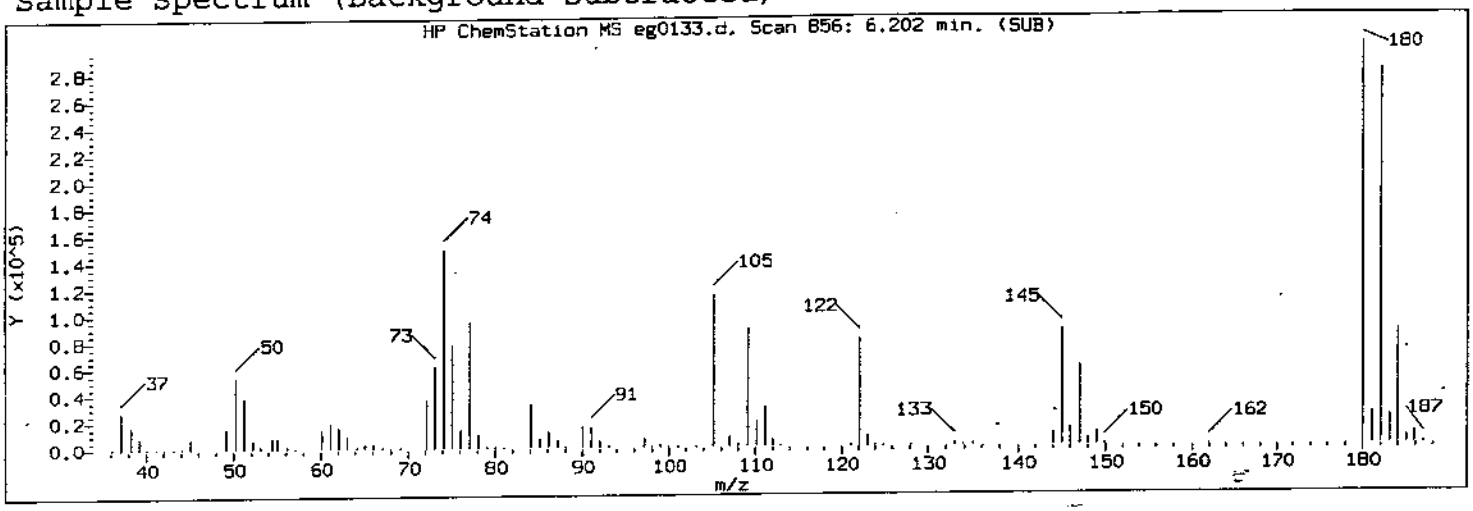
Sample Name: SSTD120 Lab Sample ID: STD1731

Compound Number	: 34
Compound Name	: 2-Methylphenol
Scan Number	: 710
Retention Time (minutes)	: 5.329
Quant Ion	: 108
Area	: 246235
Concentration (ng/ul)	: 59.1117
Integration start scan	: 704 Integration stop scan: 711
Y at integration start	: 0 Y at integration end: 0

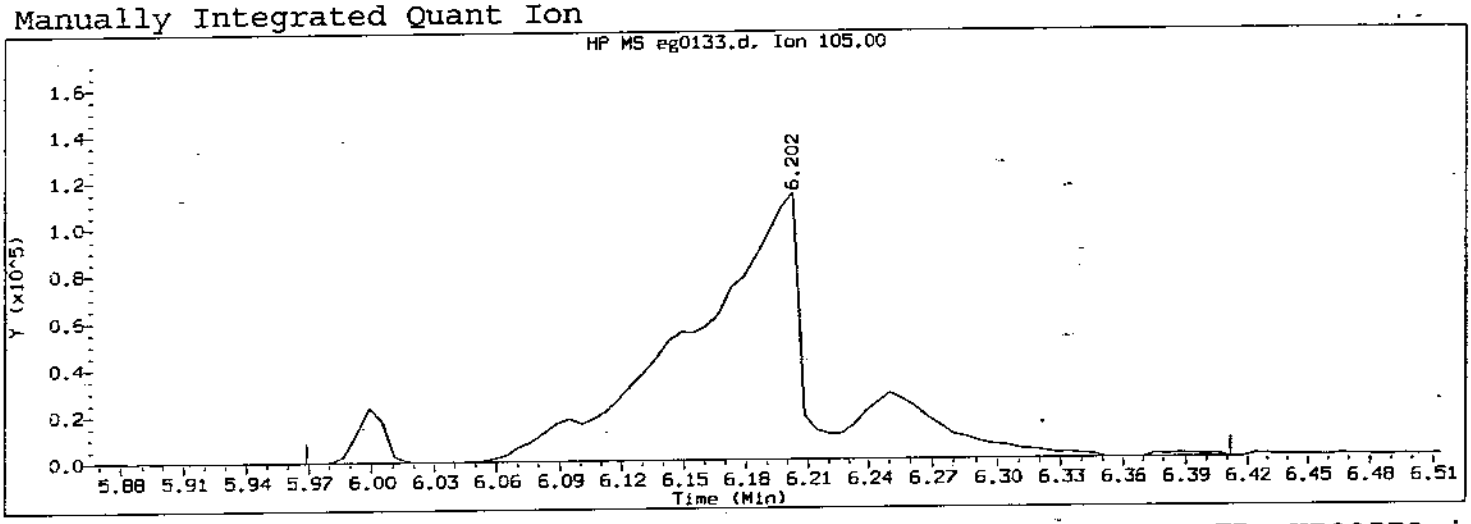
7-5-11

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

Compound Number : 50
Compound Name : Benzoic acid
Scan Number : 856
Retention Time (minutes): 6.202
Quant Ion : 105
Area (flag) : 517594 M
Concentration (ng/ul) : 154.5528
Integration start scan : 816 Integration stop scan: 890
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7/11/11

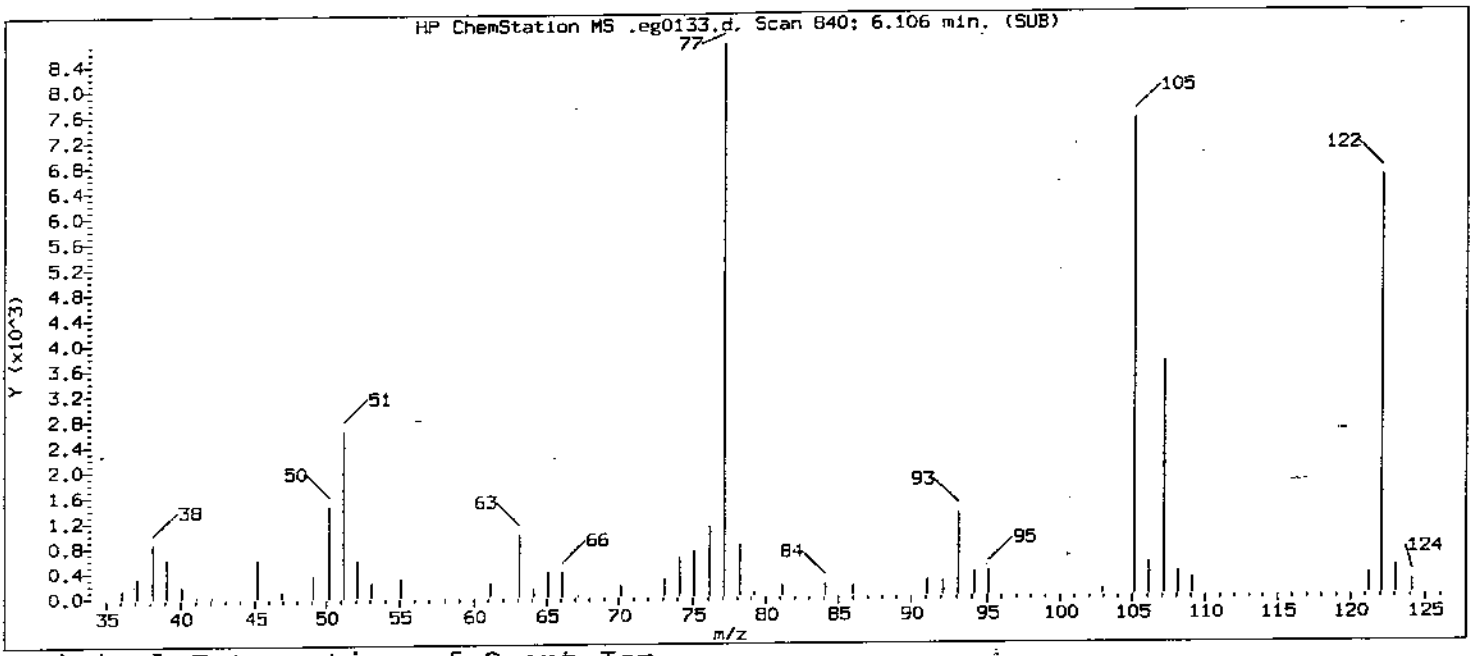
GC/MS audit/management approval: _____ USF03 8318

JUL 07 2011

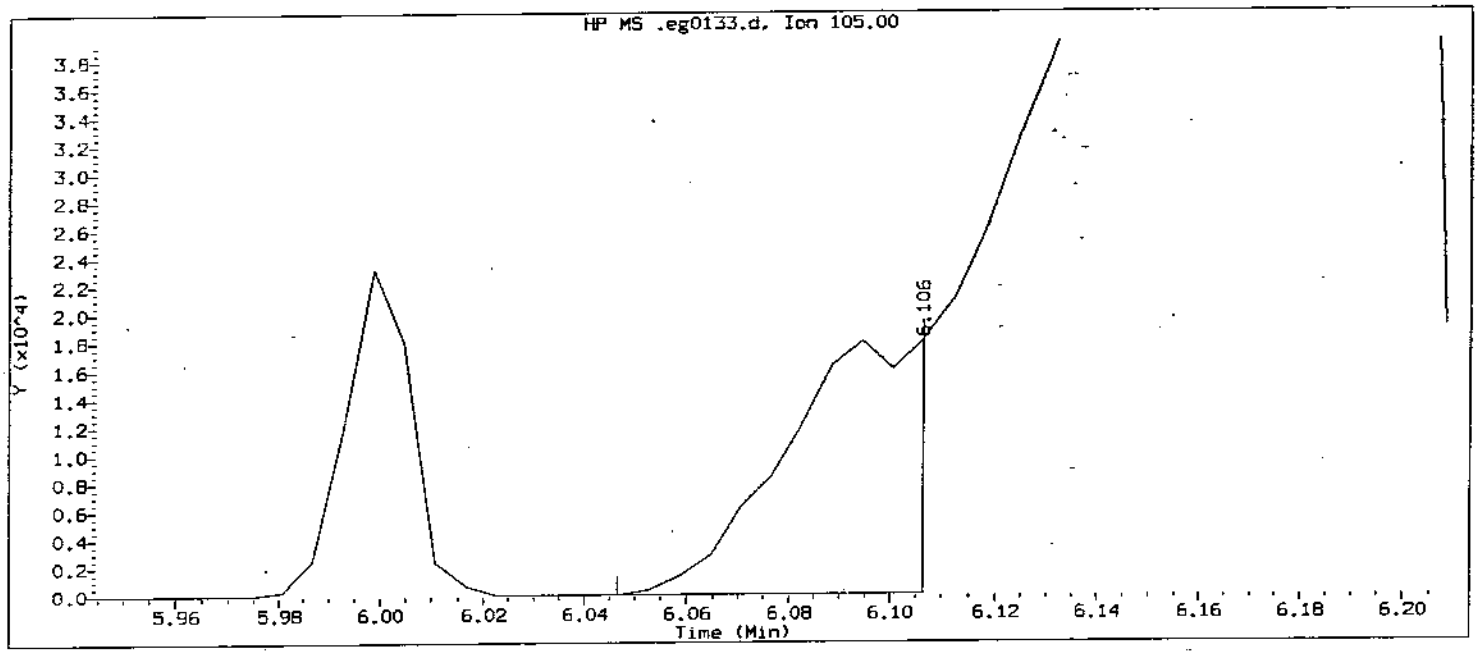
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

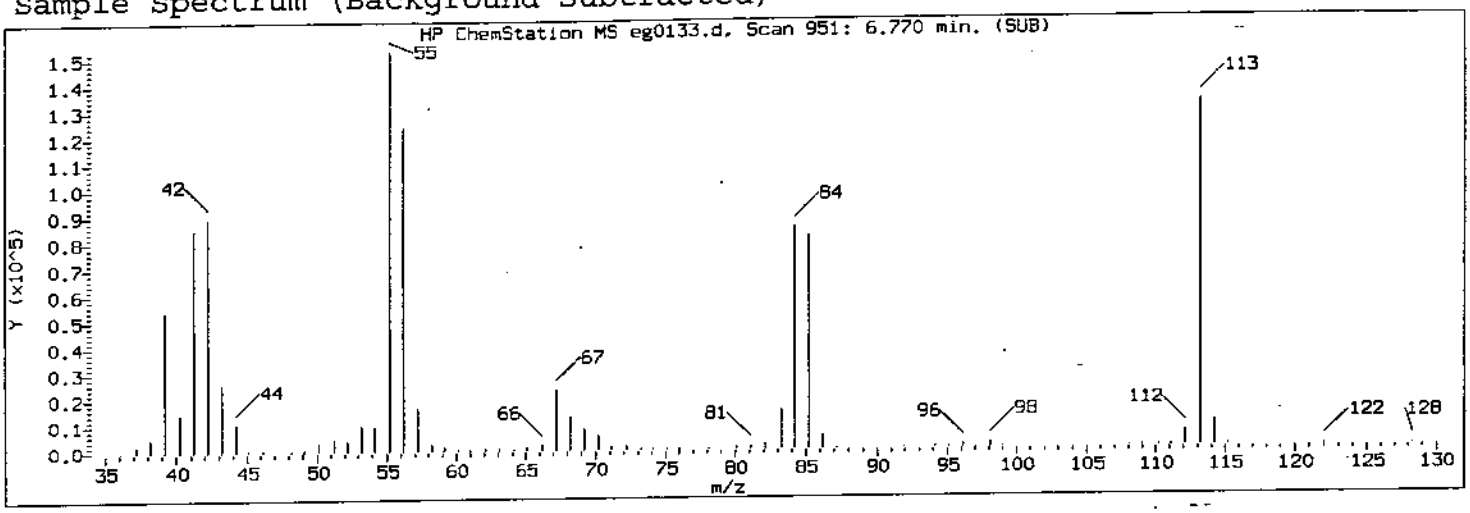
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 22:46
Date, time and analyst ID of latest file update: 05-Jul-2011 22:46 Automation

Sample Name: SSTD120 Lab Sample ID: STD1731

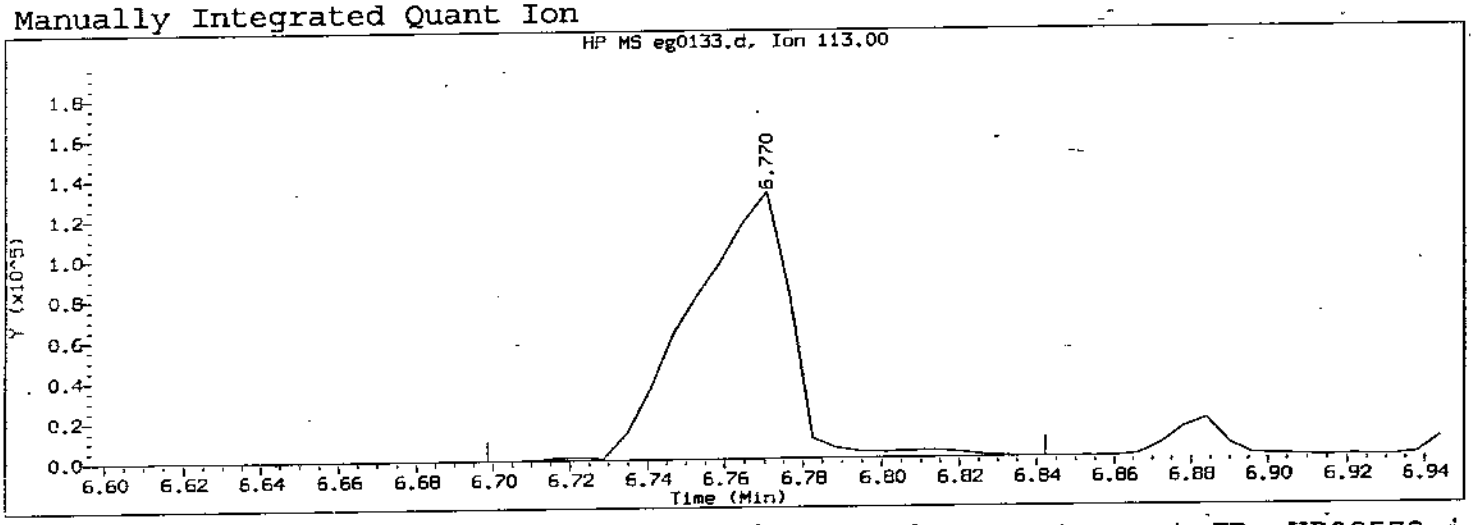
Compound Number : 50
Compound Name : Benzoic acid
Scan Number : 840
Retention Time (minutes): 6.106
Quant Ion : 105
Area : 32390
Concentration (ng/ul) : 8.2969
Integration start scan : 829 Integration stop scan: 839
Y at integration start : 0 Y at integration end: 0

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

Compound Number : 66
Compound Name : Caprolactam
Scan Number : 951
Retention Time (minutes): 6.770
Quant Ion : 113
Area (flag) : 233671 M
Concentration (ng/ul) : 122.7893
Integration start scan : 938 Integration stop scan: 962
Y at integration start : 0 Y at integration end: 413

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 7-5-11

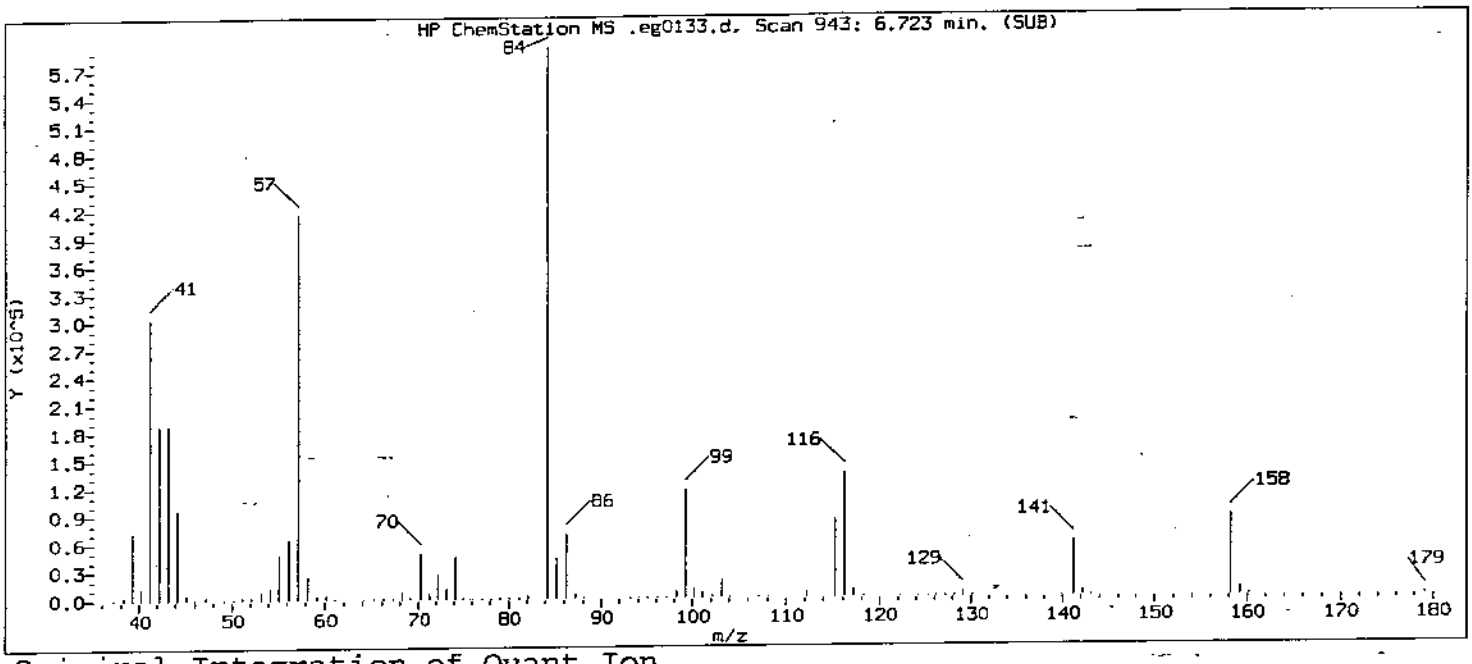
USF03 0312

GC/MS audit/management approval: JUL 07 2011

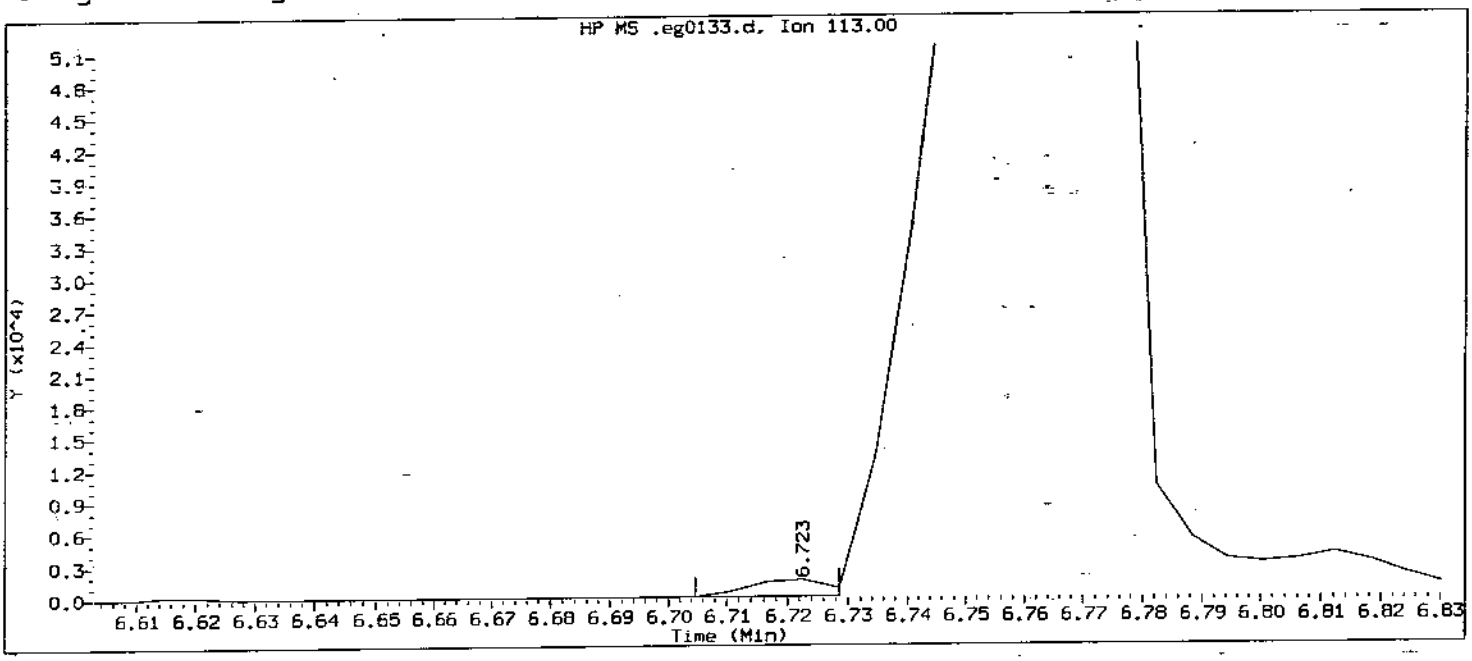
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 22:46
Date, time and analyst ID of latest file update: 05-Jul-2011 22:46 Automation

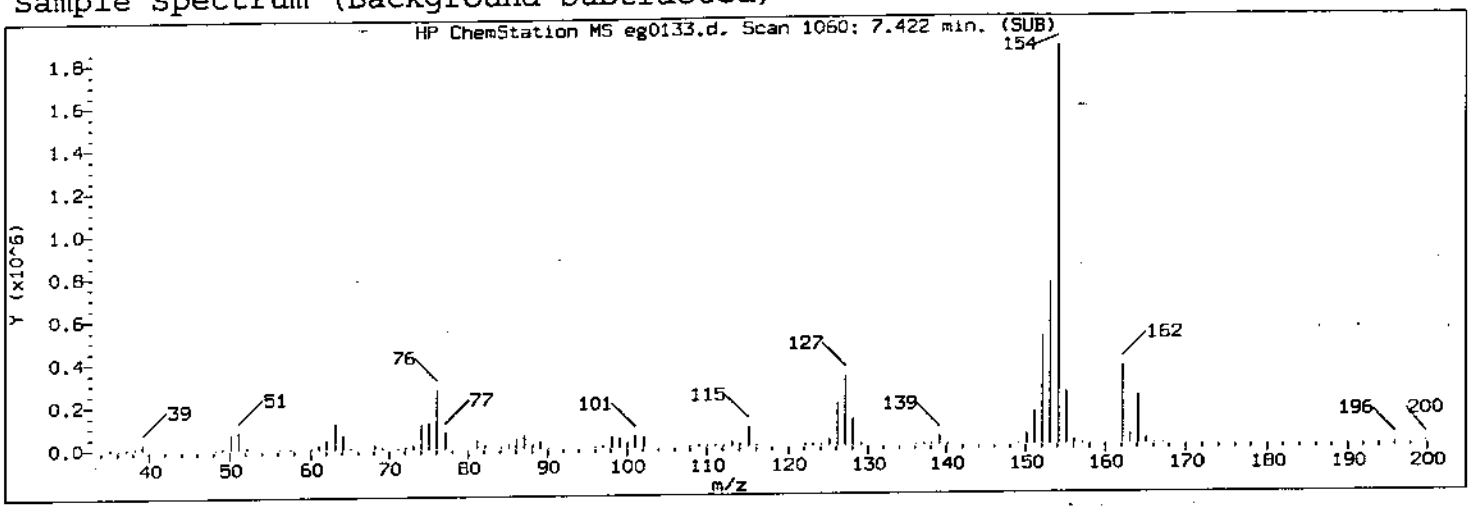
Sample Name: SSTD120 Lab Sample ID: STD1731

Compound Number : 66
Compound Name : Caprolactam
Scan Number : 943
Retention Time (minutes): 6.723
Quant Ion : 113
Area : 1353
Concentration (ng/ul) : 0.7732
Integration start scan : 939 Integration stop scan: 943
Y at integration start : 0 Y at integration end: 0

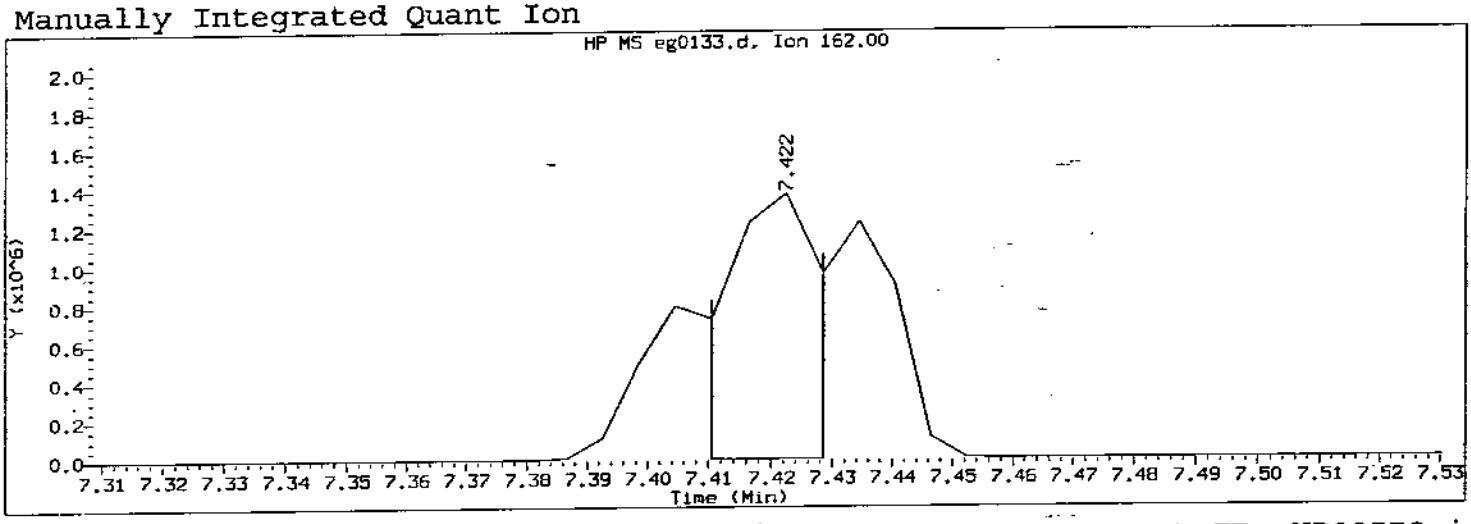
USP63 6313

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

Compound Number	:	85
Compound Name	:	2-Chloronaphthalene
Scan Number	:	1060
Retention Time (minutes)	:	7.422
Quant Ion	:	162
Area (flag)	:	1535315 M
Concentration (ng/ul)	:	125.8737
Integration start scan	:	1057 Integration stop scan: 1060
Y at integration start	:	1444 Y at integration end: 1444

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 4/MS 7-5-11

USF03 8314

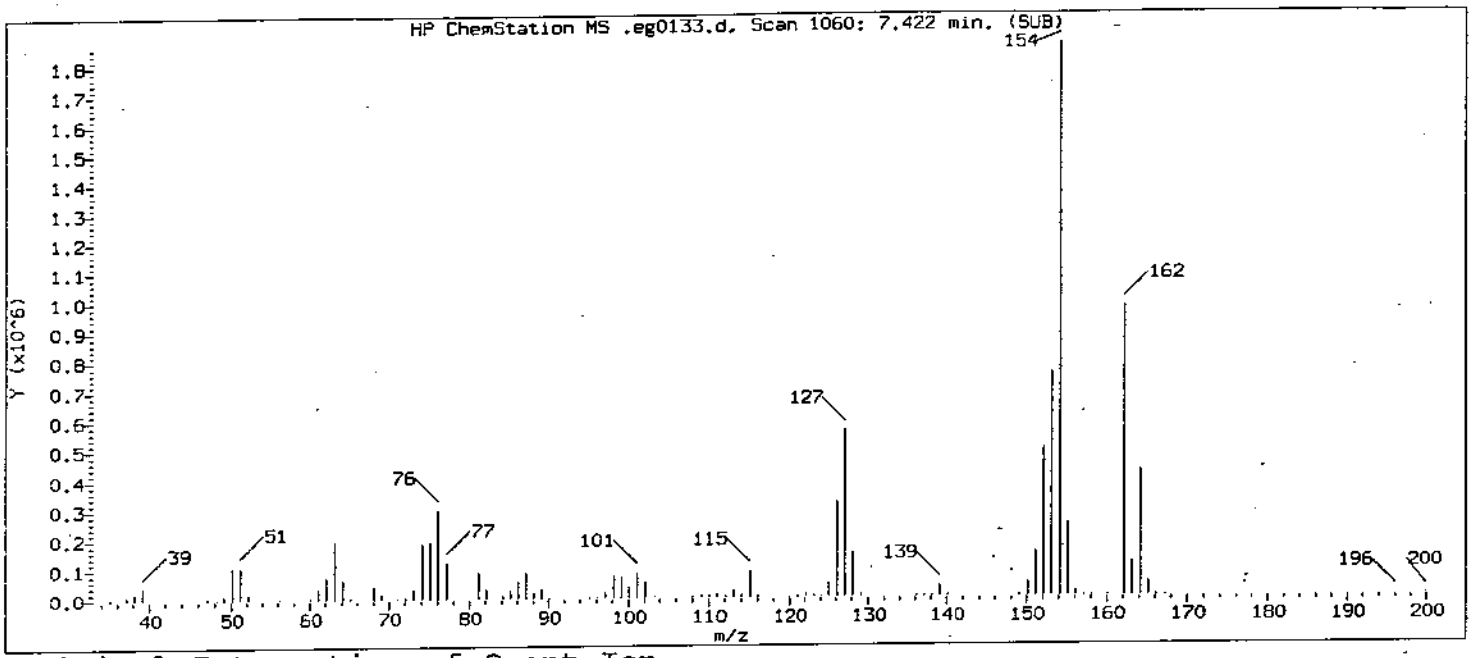
GC/MS audit/management approval:

JUL 07 2011

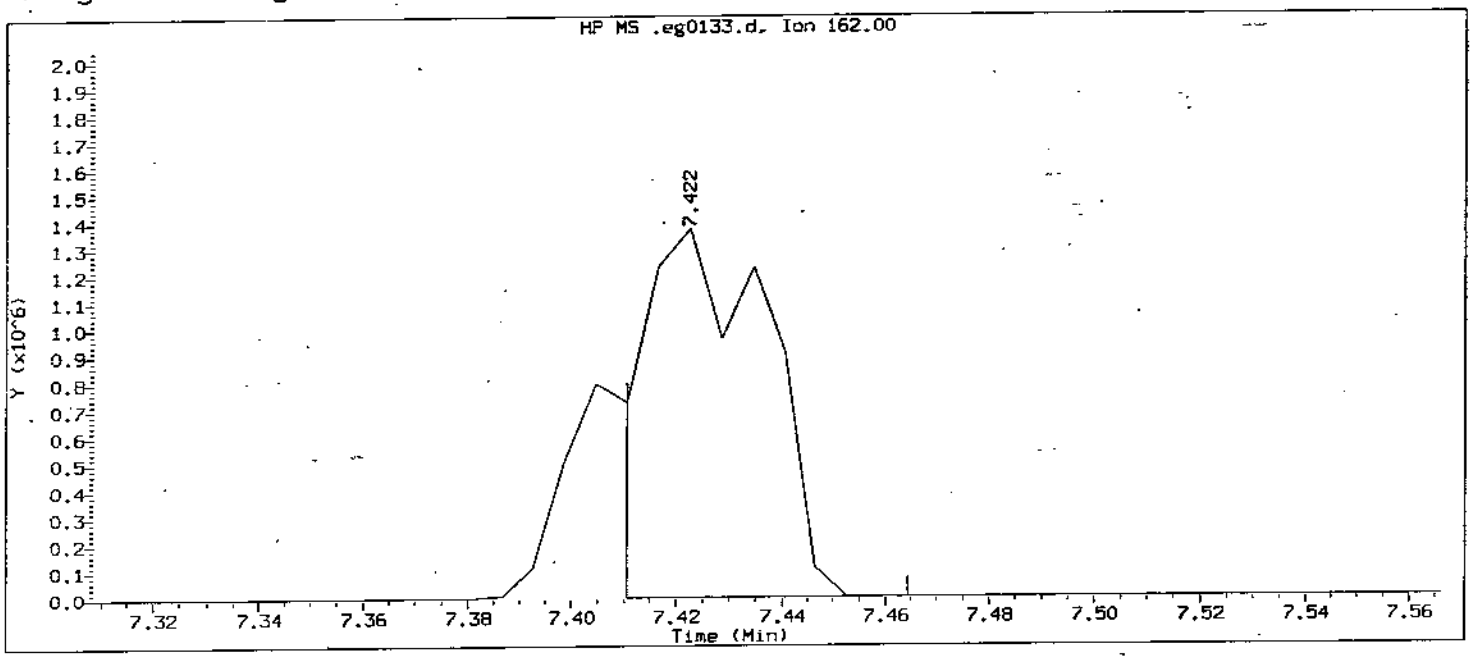
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 22:46
Date, time and analyst ID of latest file update: 05-Jul-2011 22:46 Automation

Sample Name: SSTD120 Lab Sample ID: STD1731

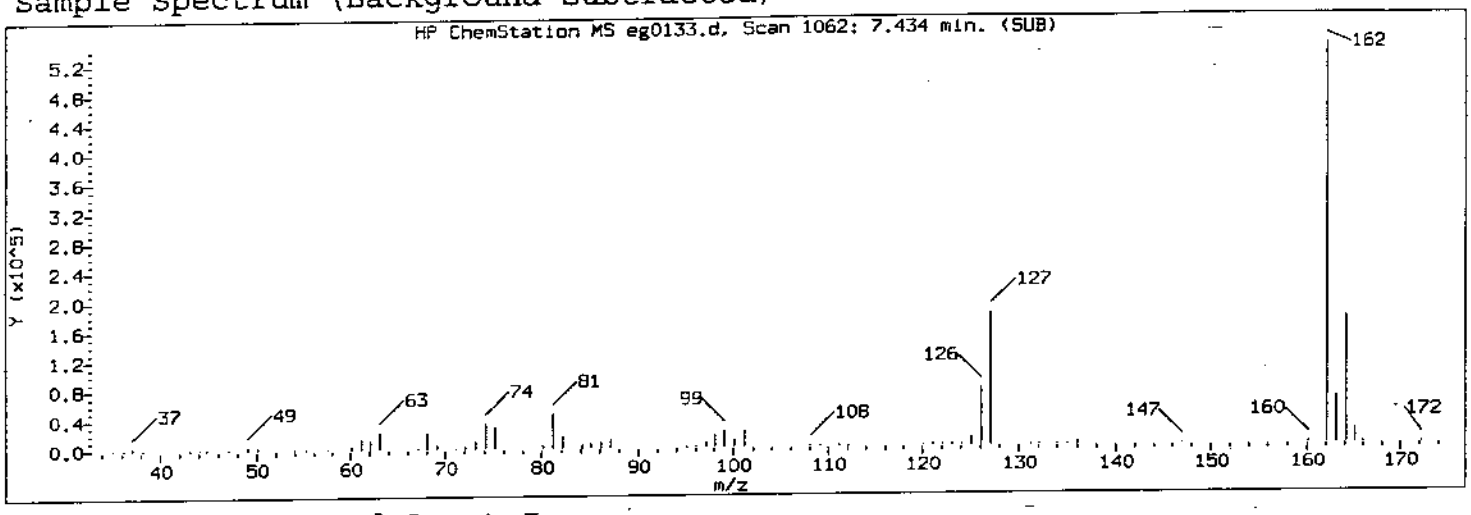
Compound Number : 85
Compound Name : 2-Chloronaphthalene
Scan Number : 1060
Retention Time (minutes): 7.422
Quant Ion : 162
Area : 2212098
Concentration (ng/ul) : 186.3784
Integration start scan : 1057 Integration stop scan: 1066
Y at integration start : 474 Y at integration end: 1186

2nd 7-5-11

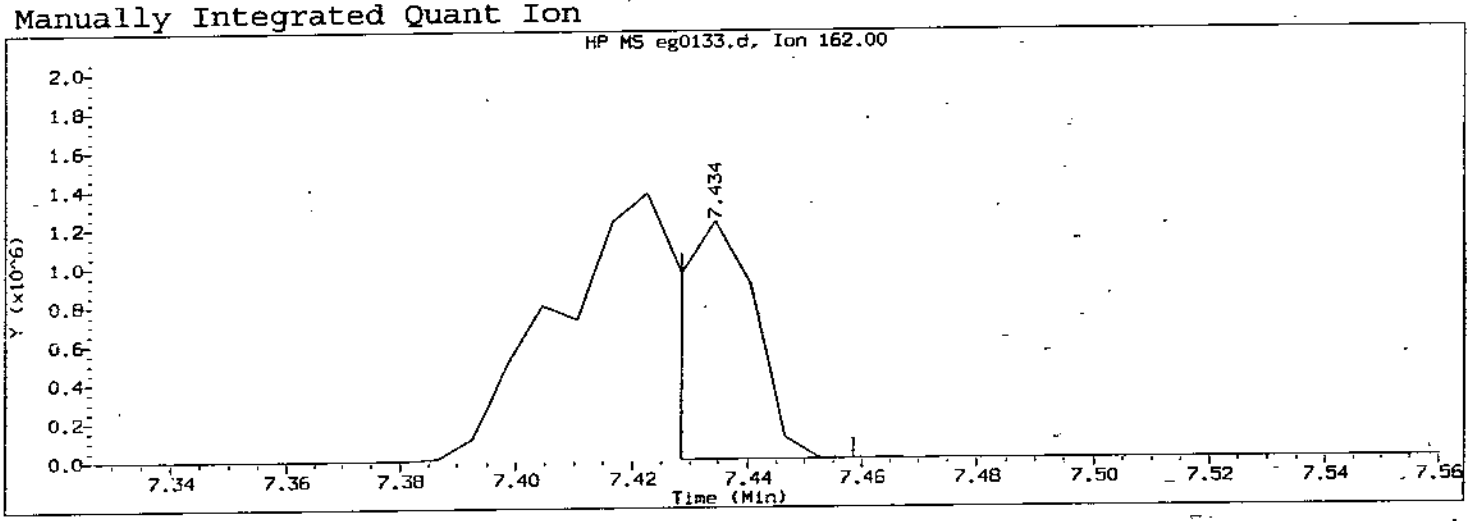
USF03 0315

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

Compound Number	: 86	
Compound Name	: 1-Chloronaphthalene	
Scan Number	: 1062	
Retention Time (minutes)	: 7.434	
Quant Ion	: 162	
Area (flag)	: 1153309 M	
Concentration (ng/ul)	: 99.7596	
Integration start scan	: 1060	Integration stop scan: 1065
Y at integration start	: -788	Y at integration end: -788

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-5-11

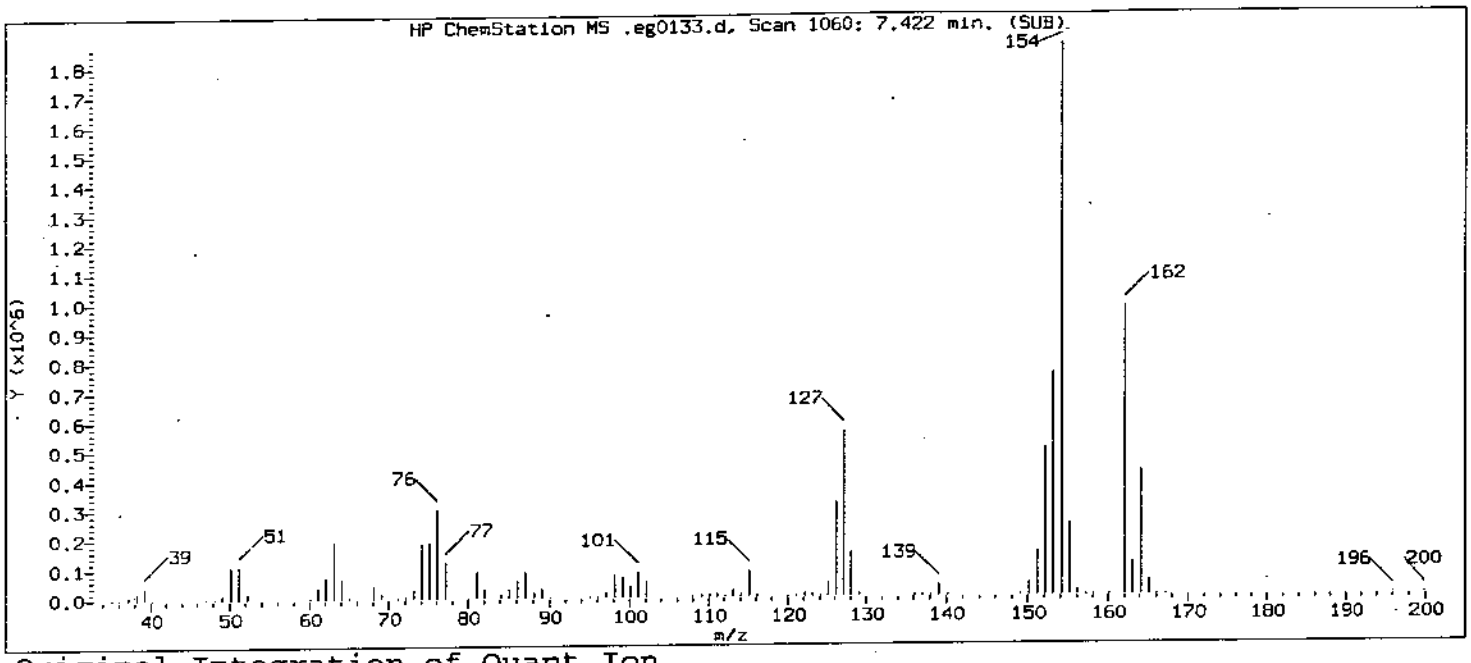
GC/MS audit/management approval: _____ USF803 8316

JUL 07 2011

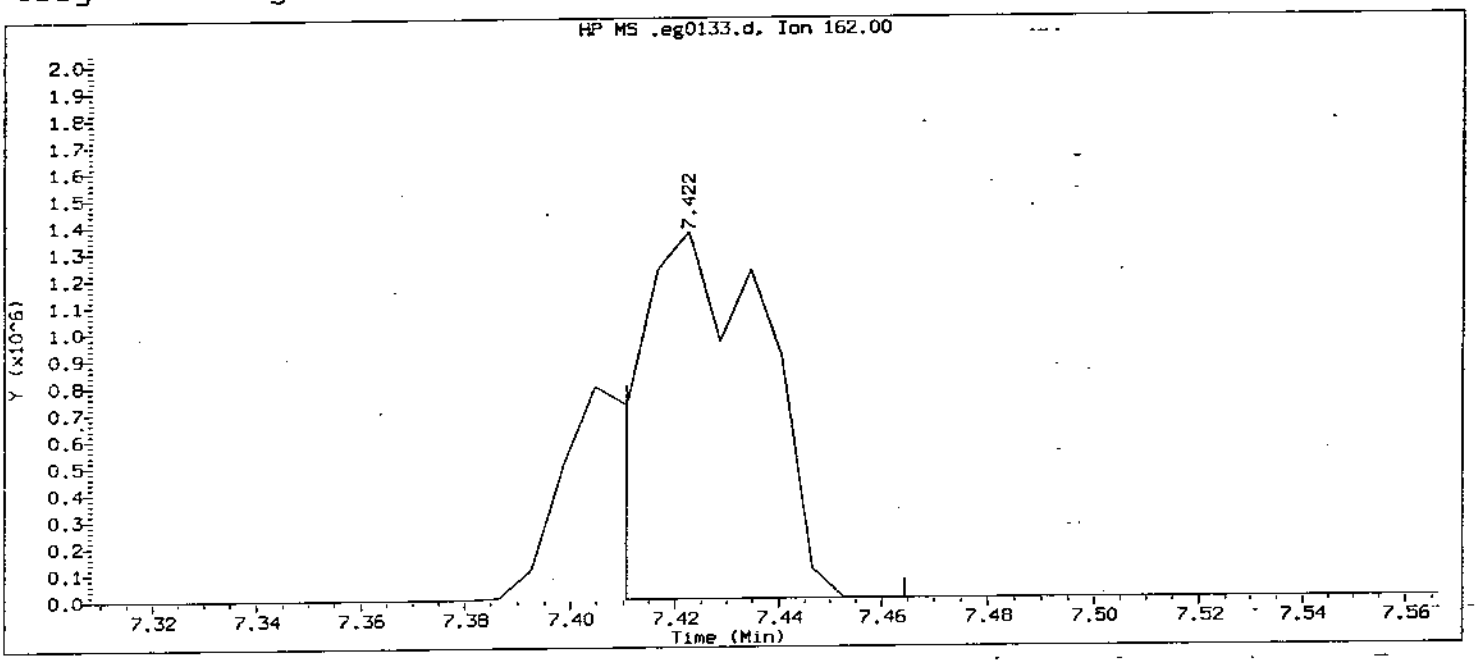
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 22:46
Date, time and analyst ID of latest file update: 05-Jul-2011 22:46 Automation

Sample Name: SSTD120 Lab Sample ID: STD1731

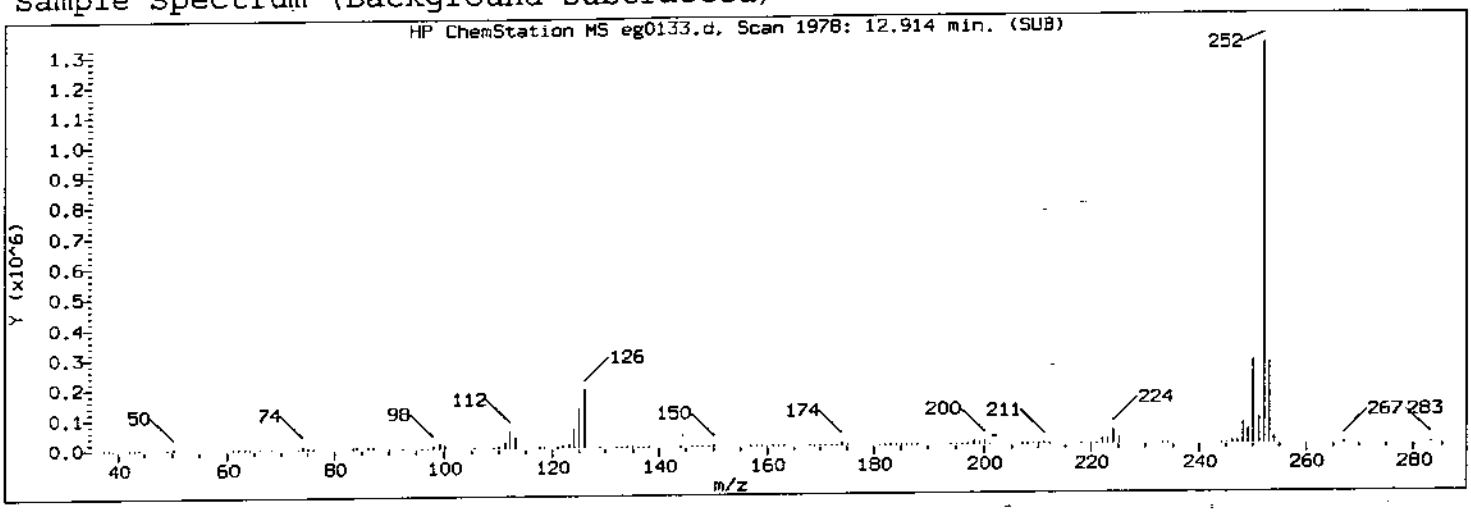
Compound Number : 86
Compound Name : 1-Chloronaphthalene
Scan Number : 1060
Retention Time (minutes): 7.422
Quant Ion : 162
Area : 2213627
Concentration (ng/ul) : 214.3713
Integration start scan : 1057 Integration stop scan: 1066
Y at integration start : 348 Y at integration end: 365

7-5-11

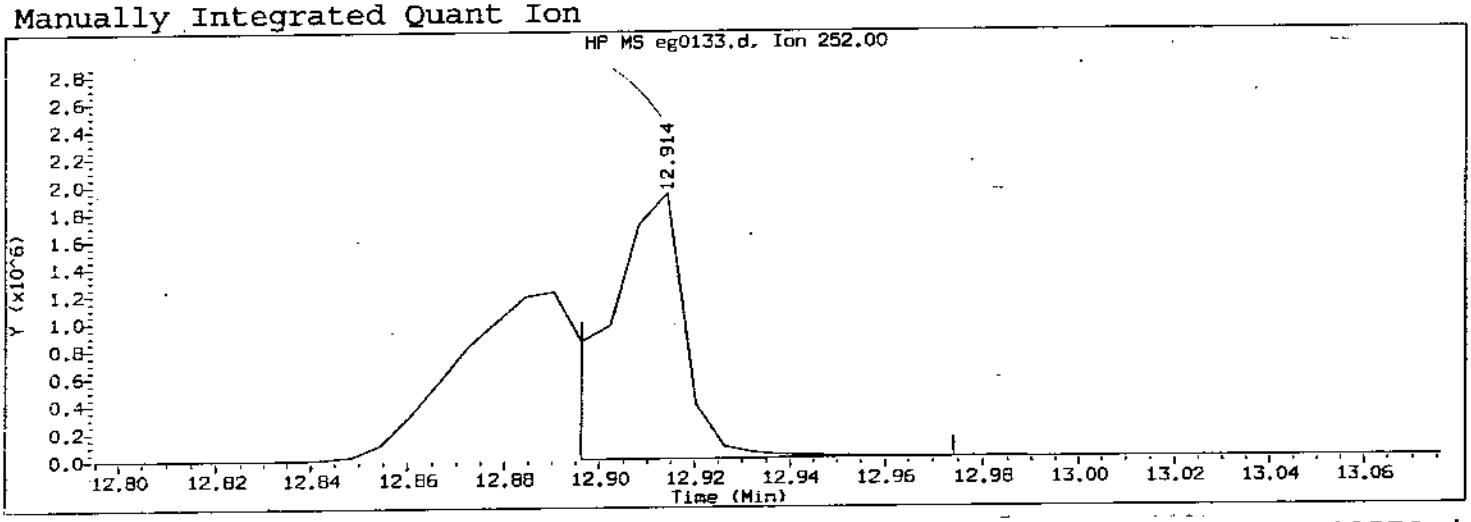
USF03 0317

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all
Calibration date and time: 06-JUL-2011 01:23
Date, time and analyst ID of latest file update: 06-Jul-2011 01:23 rpb01568

Sample Name: SSTD120 Lab Sample ID: STD1731

Compound Number	:	175
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1978
Retention Time (minutes)	:	12.914
Quant Ion	:	252
Area (flag)	:	2188198 M
Concentration (ng/ul)	:	135.7078
Integration start scan	:	1974
Integration stop scan	:	1987
Y at integration start	:	-1825
Y at integration end	:	1217

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 7-5-11

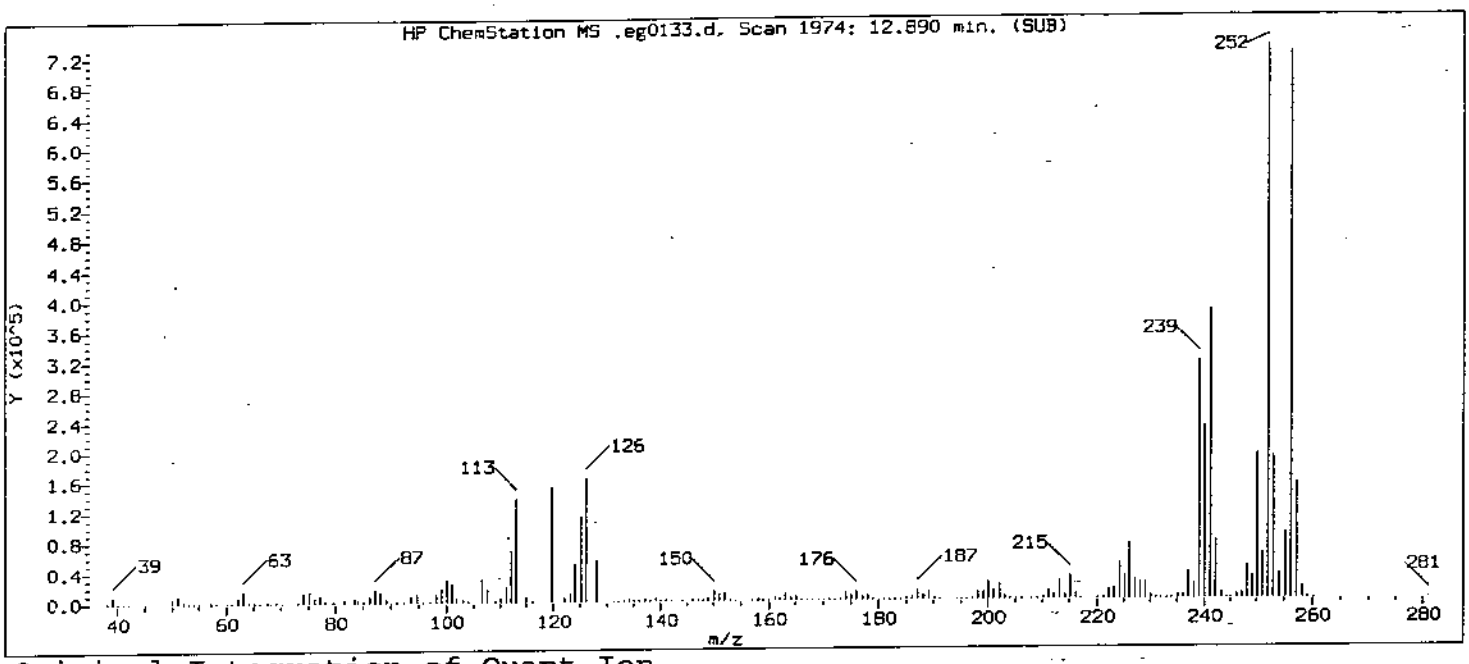
GC/MS audit/management approval: JUL 07 2011

USY03 6318

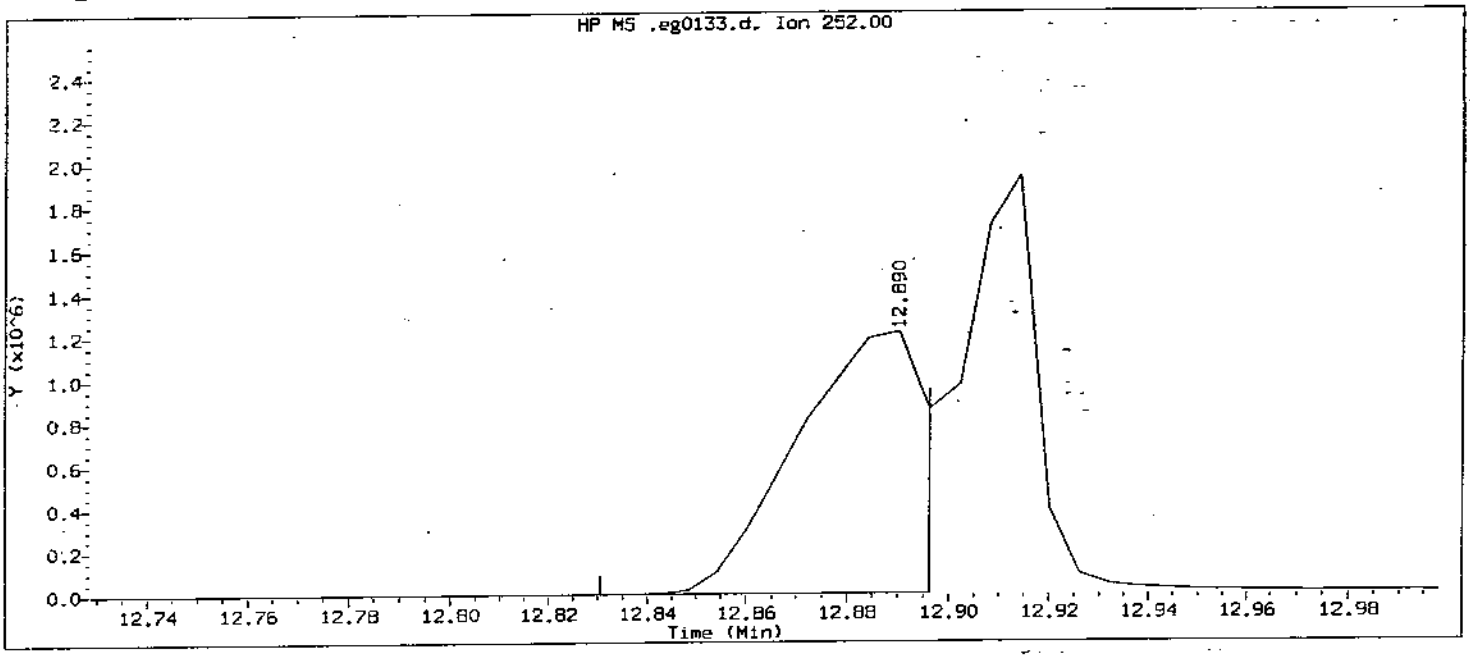
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0133.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 22:46
Date, time and analyst ID of latest file update: 05-Jul-2011 22:46 Automation

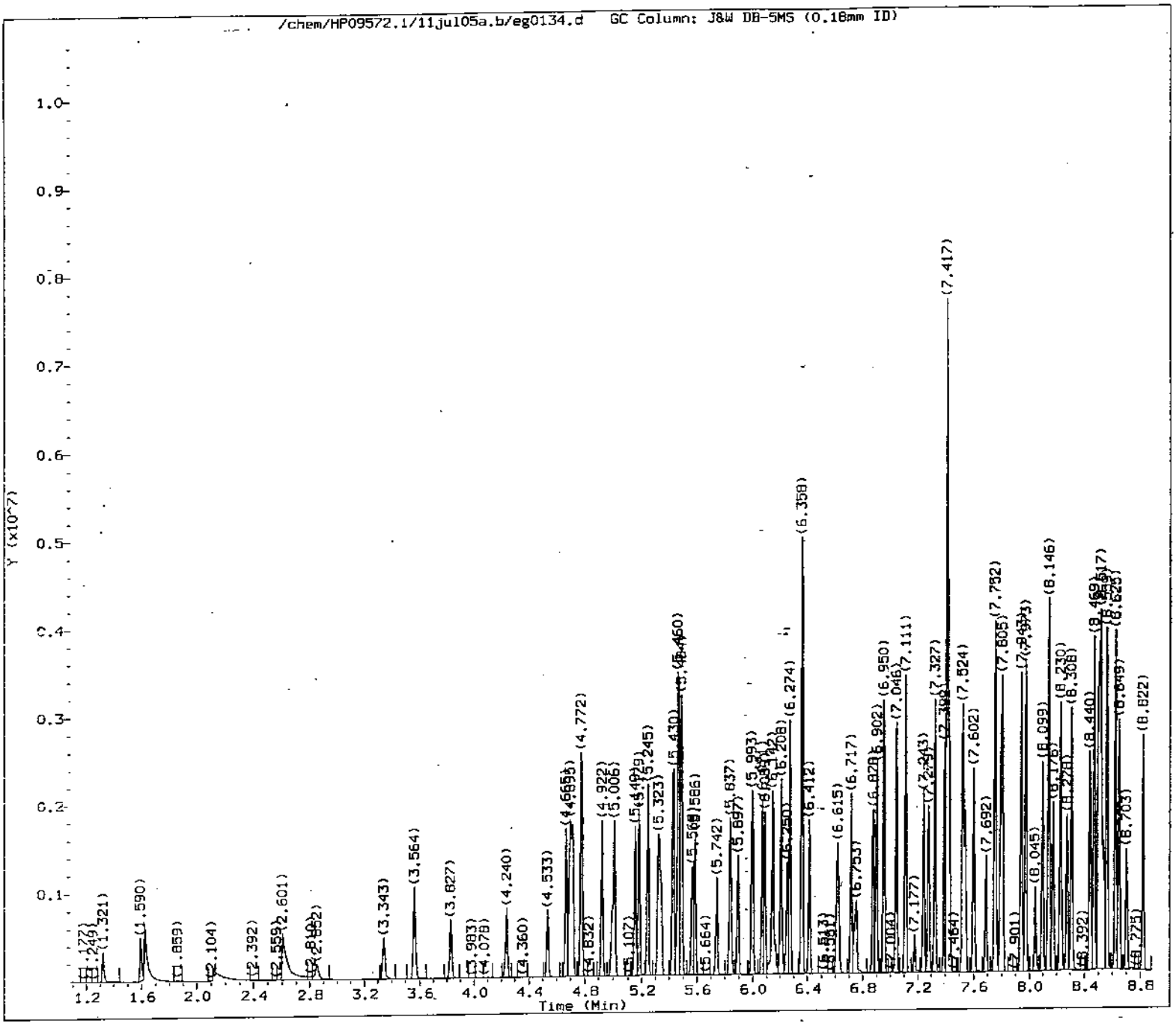
Sample Name: SSTD120 Lab Sample ID: STD1731

7-5-11

Compound Number : 175
Compound Name : Benzo(k)fluoranthene
Scan Number : 1974
Retention Time (minutes): 12.890
Quant Ion : 252
Area : 2029313
Concentration (ng/ul) : 126.5138
Integration start scan : 1963 Integration stop scan: 1974
Y at integration start : 0 Y at integration end: 432

USP03 0319

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0133.d, generated on 07/06/2011 at 01:24



Quant Report

Target Revision 3.5

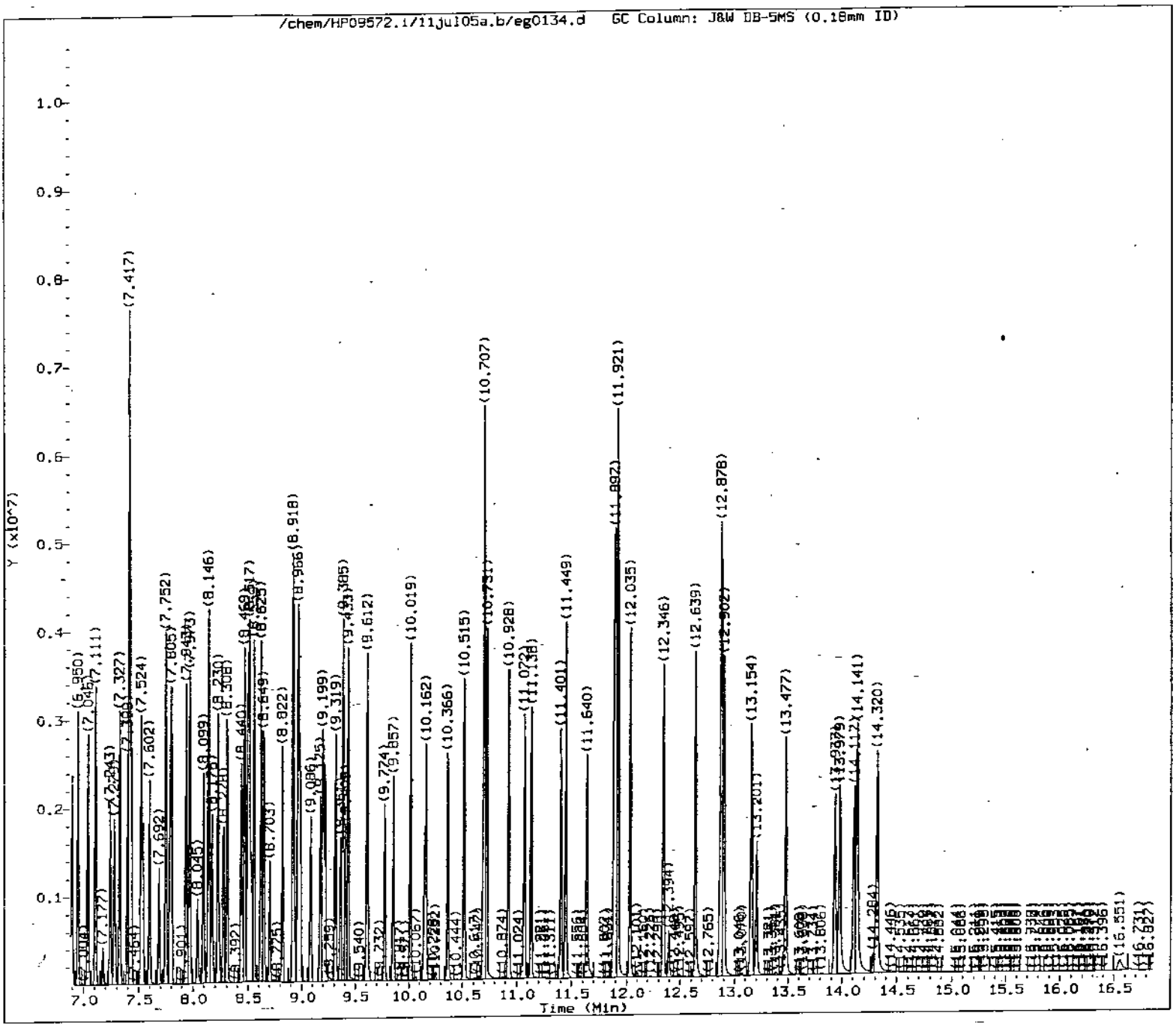
Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD080 Lab Sample ID: STD1731

7-5-11

USF03 3328



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD080 Lab Sample ID: STD1731

7-5-11

USTB3 0321

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD080 Lab Sample ID: STD1731

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.321	88	127971	84.7763
3) N-Nitrosodimethylamine	(1)	1.590	74	226752	82.5204
4) Pyridine	(1)	1.620	79	385506	88.7983
6) 2-Picoline	(1)	2.601	93	352311	83.5242
2) N-Nitrosomethylethylamine	(1)	2.852	88	155066	84.9225
8) Methyl methanesulfonate	(1)	3.343	80	216128	83.2404
9) N-Nitrosodiethylamine	(1)	3.827	102	172078	83.6783
15) Ethyl methanesulfonate	(1)	4.240	109	170956	82.7787
22) Phenol	(1)	4.713	94	490476	85.2502
21) Aniline	(1)	4.665	93	562104	84.3485
33) Pentachloroethane	(1)	4.689	167	109833	83.3185
23) bis(2-Chloroethyl)ether	(1)	4.772	93	363251	82.4859
24) 2-Chlorophenol	(1)	4.772	128	336866	85.2823
26) 1,3-Dichlorobenzene	(1)	4.922	146	343234	82.2981
27) 1,4-Dichlorobenzene-d4	(1)	4.994	152	101715	40.0000
28) 1,4-Dichlorobenzene	(1)	5.006	146	355392	82.3638
31) Benzyl alcohol	(1)	5.179	108	236629	84.3873
32) 1,2-Dichlorobenzene	(1)	5.149	146	337402	82.1530
17) Indene	(1)	5.245	115	563143	84.2747
34) 2-Methylphenol	(1)	5.341	108	330371M	84.4185
35) 2,2'-oxybis(1-Chloropropane)	(1)	5.329	45	412109	82.5411
36) bis(2-Chloroisopropyl)ether	(1)	5.329	45	412109	82.5411
30) N-Nitrosopyrrolidine	(1)	5.430	100	208729	87.0211
37) Acetophenone	(1)	5.430	105	513025	84.0058
38) N-Nitroso-di-n-propylamine	(1)	5.466	70	348512	83.9943
39) 4-Methylphenol	(1)	5.484	108	380859	87.1782
7) N-Nitrosomorpholine	(1)	5.472	56	248171	83.5518
40) o-Toluidine	(1)	5.460	106	590184	84.3525
41) Hexachloroethane	(1)	5.484	117	138066	83.7859
43) Nitrobenzene	(2)	5.586	77	458751	82.3954
18) N-Nitrosopiperidine	(2)	5.742	114	189530	82.2194
46) Isophorone	(2)	5.837	82	826599	82.3546
47) 2-Nitrophenol	(2)	5.897	139	193799	88.0258
48) 2,4-Dimethylphenol	(2)	5.999	107	401413	84.0847
93) O,O,O-triethylphosphorothioate	(2)	6.071	198	182371	82.9271
49) bis(2-Chloroethoxy)methane	(2)	6.089	93	439269	79.0241
50) Benzoic acid	(2)	6.166	105	325940M	93.9203
51) 2,4-Dichlorophenol	(2)	6.142	162	308764	82.8387
52) 1,2,4-Trichlorobenzene	(2)	6.208	180	320095	81.0431
53) Naphthalene-d8	(2)	6.250	136	479872	40.0000
54) Naphthalene	(2)	6.274	128	1057629	81.3426
56) 4-Chloroaniline	(2)	6.364	127	479482	84.0315
55) 2,6-Dichlorophenol	(2)	6.358	162	315553	84.9578

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD080 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	6.364	213	186756	87.0289
59)	Hexachlorobutadiene	(2)	6.412	225	149116	81.1854
65)	Quinoline	(2)	6.615	129	732877	82.2043
66)	Caprolactam	(2)	6.753	113	153144	82.3940
5)	N-Nitrosodi-n-butylamine	(2)	6.717	84	307943	73.5758
68)	4-Chloro-3-methylphenol	(2)	6.878	107	373230	85.2072
61)	Safrole	(2)	6.902	162	297552	82.9763
64)	cis-Isosafrole	(3)	7.177	162	52046	8.8866
69)	2-Methylnaphthalene	(2)	6.950	142	749053	81.6159
71)	1-Methylnaphthalene	(2)	7.046	142	714081	82.0087
72)	Hexachlorocyclopentadiene	(3)	7.106	237	161622	91.4999
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.111	216	318837	80.7794
62)	trans-Isosafrole	(3)	7.399	162	313934	72.3442
76)	2,4,6-Trichlorophenol	(3)	7.243	196	222964	84.3418
77)	2,4,5-Trichlorophenol	(3)	7.279	196	259421	85.0395
63)	Isosafrole	(3)	7.399	162	313934	81.2857
82)	Biphenyl	(3)	7.417	154	961894	81.4266
83)	Diphenyl	(3)	7.417	154	961894	81.4266
84)	1,1'-Biphenyl	(3)	7.417	154	961894	81.4266
85)	2-Chloronaphthalene	(3)	7.417	162	776608	64.7748
86)	1-Chloronaphthalene	(3)	7.435	162	869245M	75.2133
87)	Diphenyl ether	(3)	7.524	170	497982	80.0652
88)	2-Nitroaniline	(3)	7.542	138	270800	86.8577
60)	1,4-Naphthoquinone	(3)	7.602	158	310900	86.7029
57)	1,4-Dinitrobenzene	(3)	7.692	168	139000	91.7628
92)	Dimethylphthalate	(3)	7.752	163	892743	81.1149
58)	1,3-Dinitrobenzene	(3)	7.758	168	162549	88.3015
98)	2,6-Dinitrotoluene	(3)	7.793	165	216847	85.1665
100)	Acenaphthylene	(3)	7.805	152	1153653	82.5243
102)	3-Nitroaniline	(3)	7.943	138	244489	86.1027
103)	Acenaphthene-d10	(3)	7.943	164	327307	40.0000
106)	Acenaphthene	(3)	7.973	153	754324	81.7032
107)	2,4-Dinitrophenol	(3)	8.045	184	107861	97.5748
110)	Pentachlorobenzene	(3)	8.099	250	273557	80.3575
109)	4-Nitrophenol	(3)	8.146	109	161969	87.7128
112)	Dibenzofuran	(3)	8.146	168	1068268	81.5486
113)	2,4-Dinitrotoluene	(3)	8.176	165	288161	86.0064
114)	1-Naphthylamine	(3)	8.230	143	874330	83.1703
115)	2,3,4,6-Tetrachlorophenol	(3)	8.278	232	195302	84.7997
117)	2-Naphthylamine	(3)	8.308	143	883402	82.2526
118)	Diethylphthalate	(3)	8.440	149	867692	82.3961
119)	Fluorene	(3)	8.469	166	915296	81.9454
29)	Thionazin	(3)	8.517	107	178144	82.9836

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD080 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	8.499	204	421803	82.2633
70)	5-Nitro-o-toluidine	(3)	8.517	152	289541	84.1970
121)	4-Nitroaniline	(3)	8.535	138	255050	81.7672
122)	4,6-Dinitro-2-methylphenol	(4)	8.559	198	158852	95.7256
67)	1-Nitronaphthalene	(4)	8.559	173	185434	85.9321
123)	N-Nitrosodiphenylamine	(4)	8.625	169	789543	83.6619
124)	NDPA as diphenylamine	(4)	8.625	169	789543	83.8850
125)	1,2-Diphenylhydrazine	(4)	8.649	77	1132294	83.9829
108)	Tetraethyldithiopyrophosphate	(4)	8.822	97	163448	86.2420
81)	1,3,5-Trinitrobenzene	(4)	8.930	213	113324	100.9356
78)	Diallate (peak 1)	(4)	8.918	86	377624	64.0062
75)	Phorate	(4)	8.924	75	988272	90.7296
80)	Phenacetin	(4)	8.972	108	535883	88.3648
131)	4-Bromophenyl-phenylether	(4)	8.966	248	238080	84.8825
13)	Diallate (peak 2)	(4)	8.990	86	77326	21.7236
132)	Hexachlorobenzene	(4)	8.984	284	224623	82.8057
96)	Dimethoate	(4)	9.086	87	359902	83.2934
135)	Pentachlorophenol	(4)	9.199	266	151893	89.3649
136)	Pentachloronitrobenzene	(4)	9.199	237	106959	85.6600
105)	4-Aminobiphenyl	(4)	9.217	169	797983	80.0379
97)	Pronamide	(4)	9.319	173	416415	87.8827
140)	Phenanthrene-d10	(4)	9.361	188	549271	40.0000
141)	Phenanthrene	(4)	9.385	178	1336374	82.4417
137)	Dinoseb	(4)	9.409	211	211974	100.2536
143)	Anthracene	(4)	9.433	178	1394439	84.3896
145)	Carbazole	(4)	9.612	167	1278421	83.1738
149)	Methyl parathion	(4)	9.774	109	285133	88.8612
148)	Di-n-butylphthalate	(4)	10.019	149	1504367	86.1270
150)	Parathion	(4)	10.162	109	207946	89.8645
133)	4-Nitroquinoline-1-oxide	(4)	10.150	190	127948	109.1743
99)	Isodrin	(4)	10.366	193	149639	86.1501
153)	Fluoranthene	(4)	10.521	202	1361912	83.8659
154)	Benzidine	(5)	10.707	184	2563399	258.1314
155)	Pyrene	(5)	10.731	202	1473775	81.8601
147)	p-Dimethylaminoazobenzene	(5)	11.078	225	313519	89.4663
144)	Chlorobenzilate	(5)	11.138	139	488302	88.0635
161)	3,3'-Dimethylbenzidine	(5)	11.401	212	837709	91.8204
162)	Butylbenzylphthalate	(5)	11.449	149	691527	86.4924
101)	2-Acetylaminofluorene	(5)	11.640	181	648367	93.4649
165)	3,3'-Dichlorobenzidine	(5)	11.903	252	520826	86.9420
164)	Benzo(a)anthracene	(5)	11.891	228	1345424	83.8245
167)	4,4'-Methylenebis(2-Chloroanil	(5)	11.921	231	273477	88.8555
166)	Chrysene-d12	(5)	11.897	240	584935	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

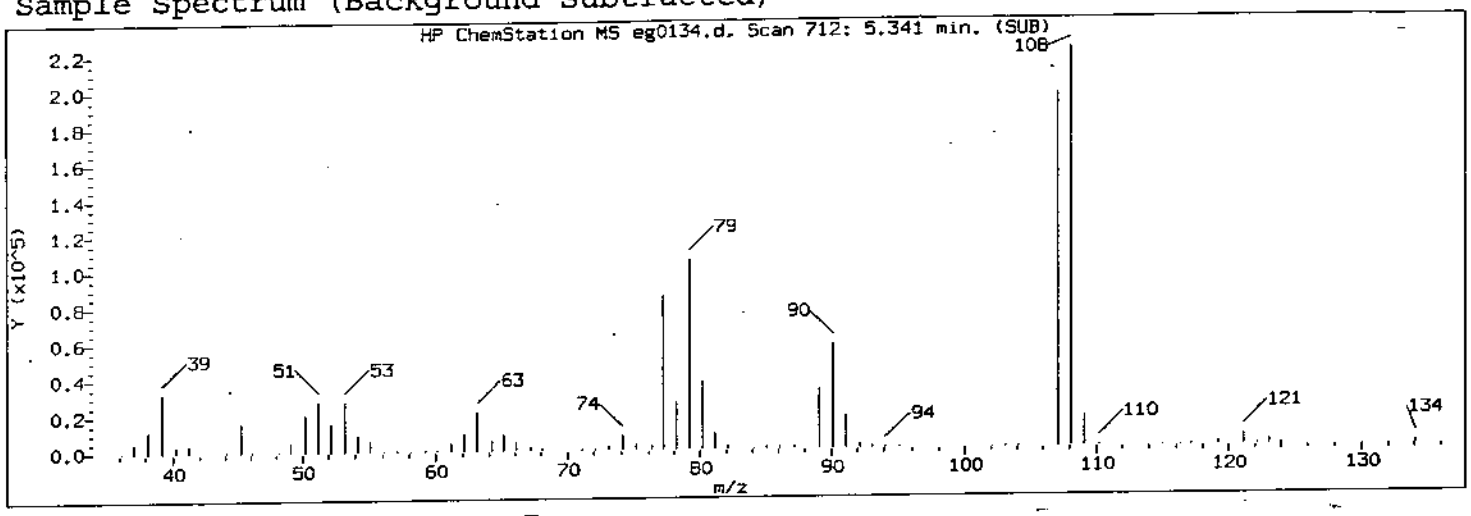
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD080 Lab Sample ID: STD1731

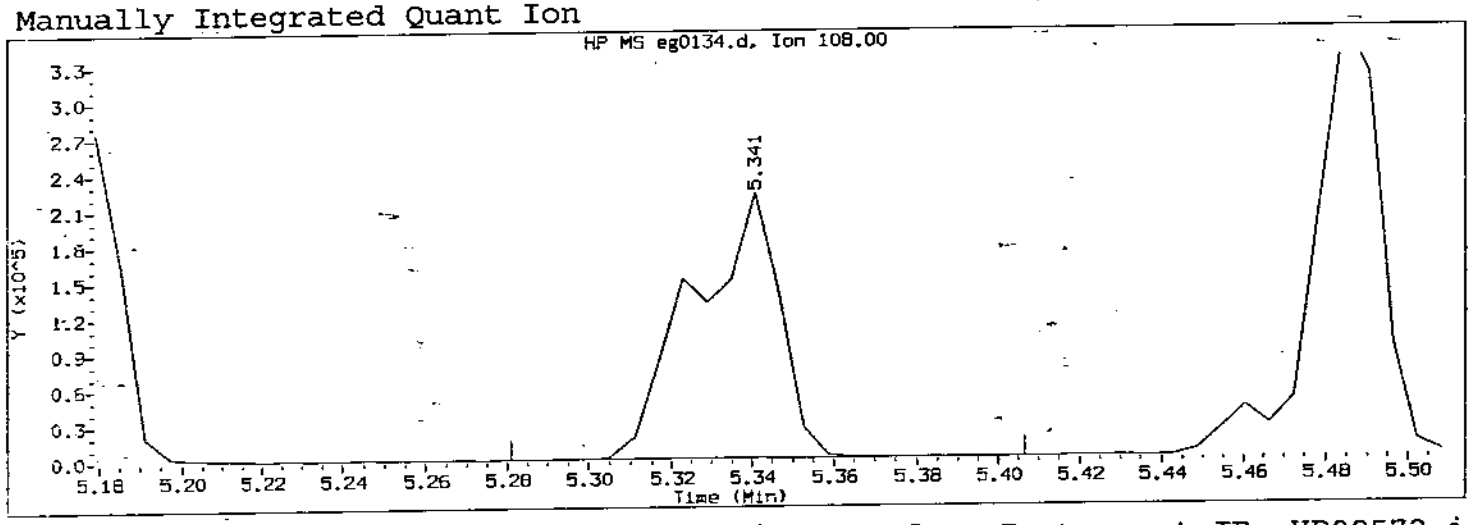
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168)	Chrysene	(5)	11.921	228	1396110	83.0358
169)	bis(2-Ethylhexyl)phthalate	(5)	12.035	149	945266	88.1150
170)	6-Methylchrysene	(5)	12.346	242	961510	84.8738
172)	Di-n-octylphthalate	(6)	12.639	149	1546132	93.4967
174)	7,12-Dimethylbenz[a]anthracene	(6)	12.878	256	664554	88.1577
173)	Benzo(b)fluoranthene	(6)	12.878	252	1362849	86.2352
175)	Benzo(k)fluoranthene	(6)	12.902	252	1298041	81.3746
176)	Benzo(a)pyrene	(6)	13.154	252	1226591	85.3972
177)	Perylene-d12	(6)	13.201	264	524622	40.0000
180)	3-Methylcholanthrene	(6)	13.477	268	687309	87.9457
181)	Dibenz(a,h)acridine	(6)	13.937	279	897382	89.6046
183)	Dibenz(a,j)acridine	(6)	13.979	279	1067599	86.8668
185)	Indeno(1,2,3-cd)pyrene	(6)	14.117	276	1321310	85.6736
187)	Dibenz(a,h)anthracene	(6)	14.141	278	1184734	88.8908
188)	Benzo(g,h,i)perylene	(6)	14.320	276	1147852	85.5697
194)	Diallate TRANS/CIS	(4)	23.556	86	454950	85.7297
11)	2-Fluorophenol	(1)	3.564	112	306487	84.6123
19)	Phenol-d5	(1)	4.701	99	446295	84.9417
20)	Phenol-d6	(1)	4.701	99	446295	84.9417
42)	Nitrobenzene-d5	(2)	5.562	82	451873	83.1103
79)	2-Fluorobiphenyl	(3)	7.327	172	807593	80.9224
126)	2,4,6-Tribromophenol	(3)	8.703	330	97824	86.6237
157)	Terphenyl-d14	(5)	10.934	244	1044089	84.2987

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD080 Lab Sample ID: STD1731

Compound Number : 34
Compound Name : 2-Methylphenol
Scan Number : 712
Retention Time (minutes): 5.341
Quant Ion : 108
Area (flag) : 330371 M
Concentration (ng/ul) : 84.4185
Integration start scan : 701 Integration stop scan: 722
Y at integration start : 316 Y at integration end: 259

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 7 JUL 25-11

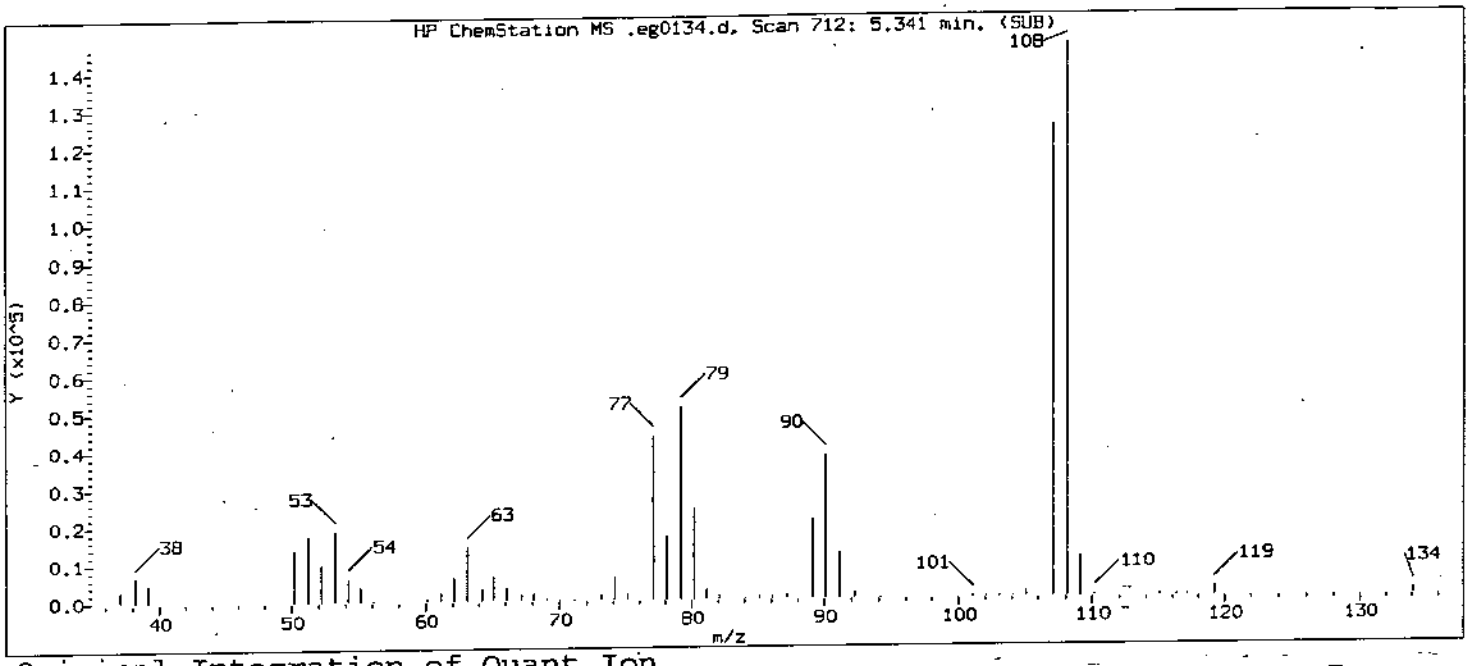
GC/MS audit/management approval: JUL 07 2011

USF03 0326

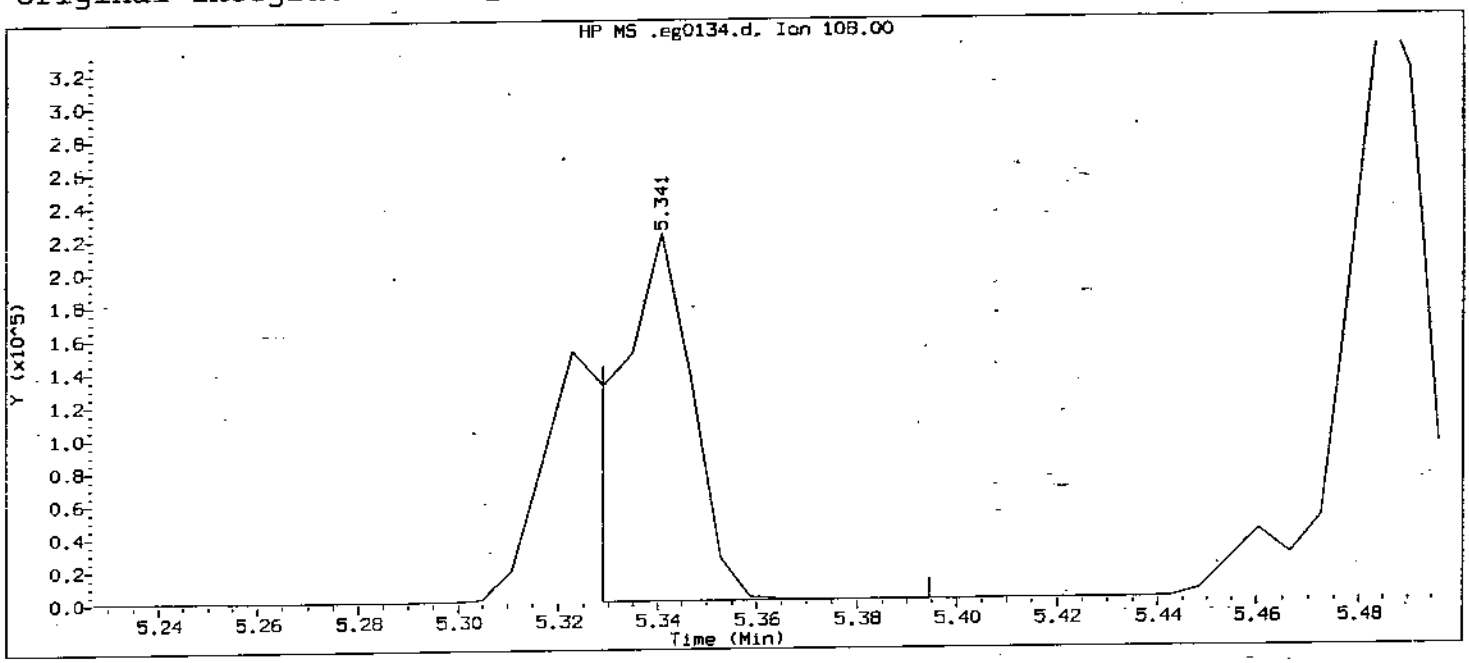
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0134.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 23:11
Date, time and analyst ID of latest file update: 05-Jul-2011 23:11 Automation

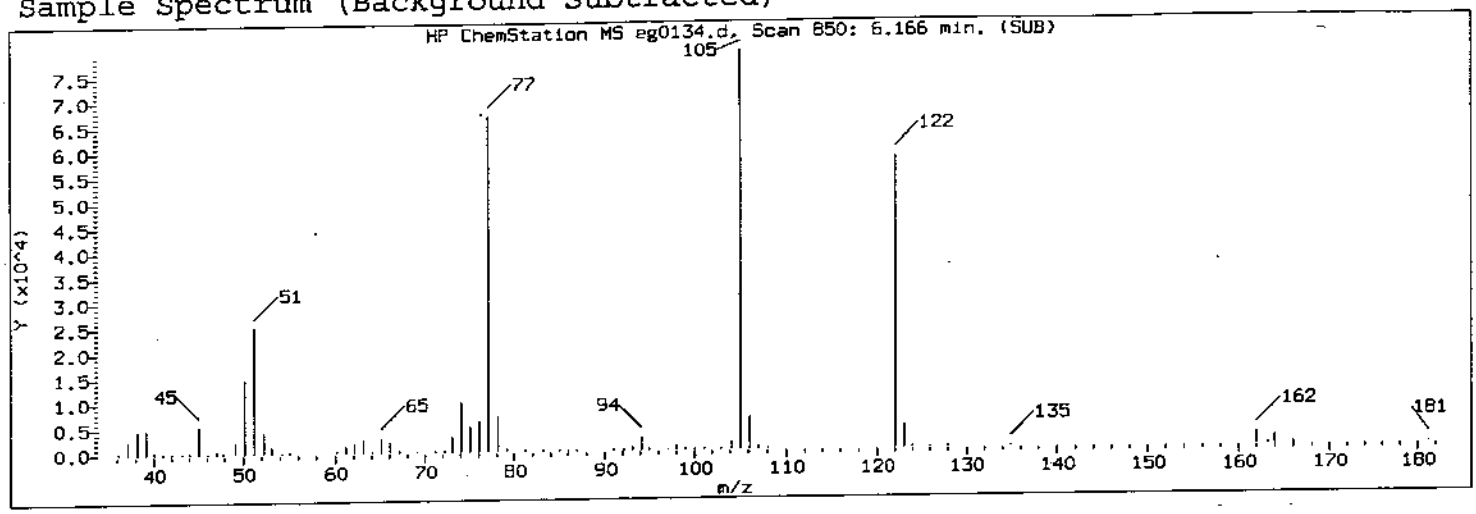
Sample Name: SSTD080 Lab Sample ID: STD1731

Compound Number	:	34
Compound Name	:	2-Methylphenol
Scan Number	:	712
Retention Time (minutes)	:	5.341
Quant Ion	:	108
Area	:	216816
Concentration (ng/ul)	:	57.5706
Integration start scan	:	709 Integration stop scan: 720
Y at integration start	:	0 Y at integration end: 0

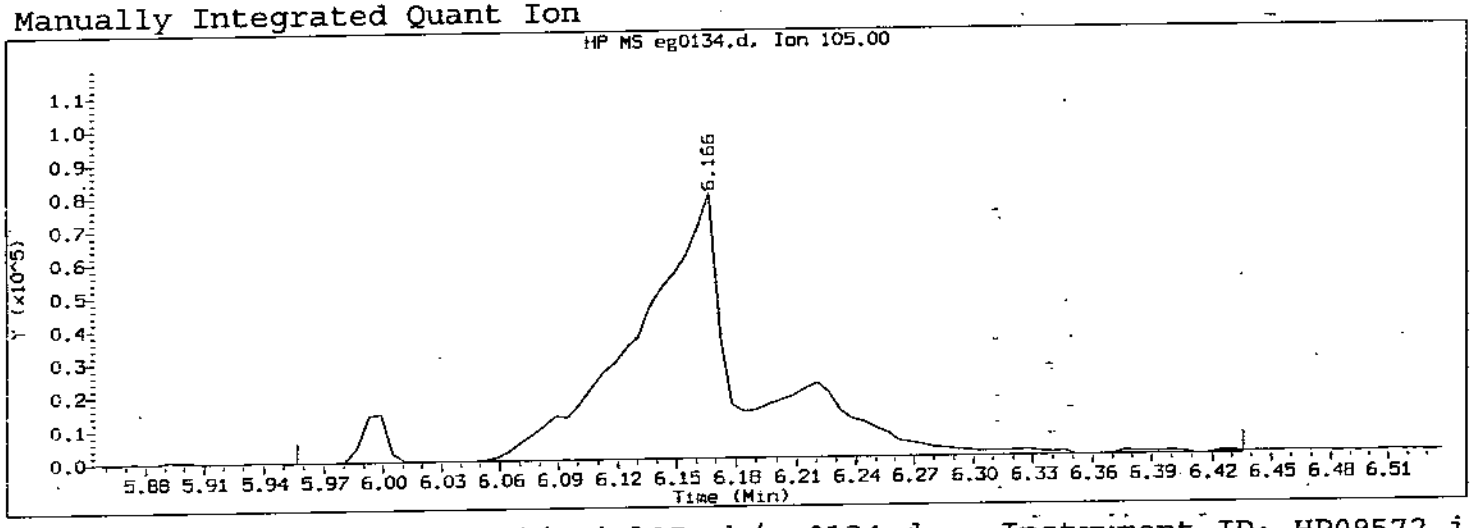
USF03 9327

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0134.d, generated on 07/06/2011 at 01:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD080 Lab Sample ID: STD1731

Compound Number	:	50
Compound Name	:	Benzoic acid
Scan Number	:	850
Retention Time (minutes)	:	6.166
Quant Ion	:	105
Area (flag)	:	325940 M
Concentration (ng/ul)	:	93.9203
Integration start scan	:	814 Integration stop scan: 894
Y at integration start	:	-41 Y at integration end: -41

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 7-5-11

USF03 8328

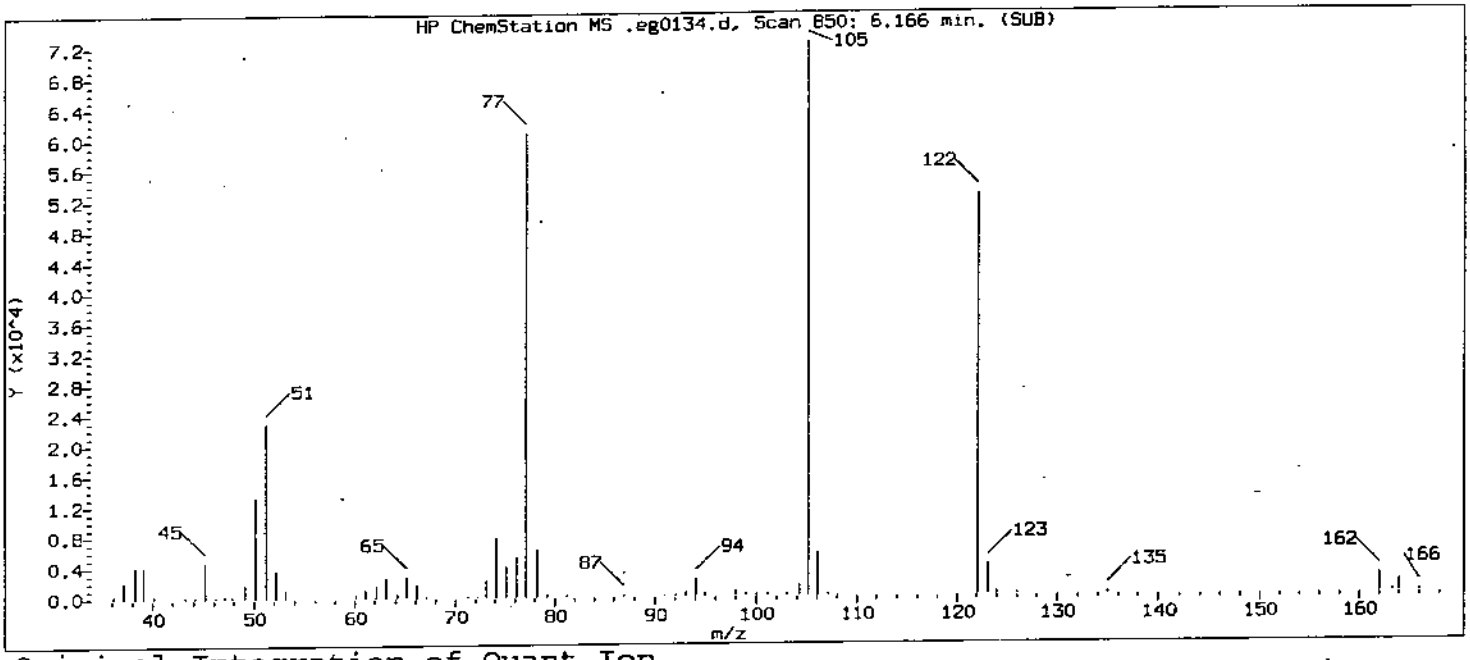
GC/MS audit/management approval: [signature]

JUL 07 2011

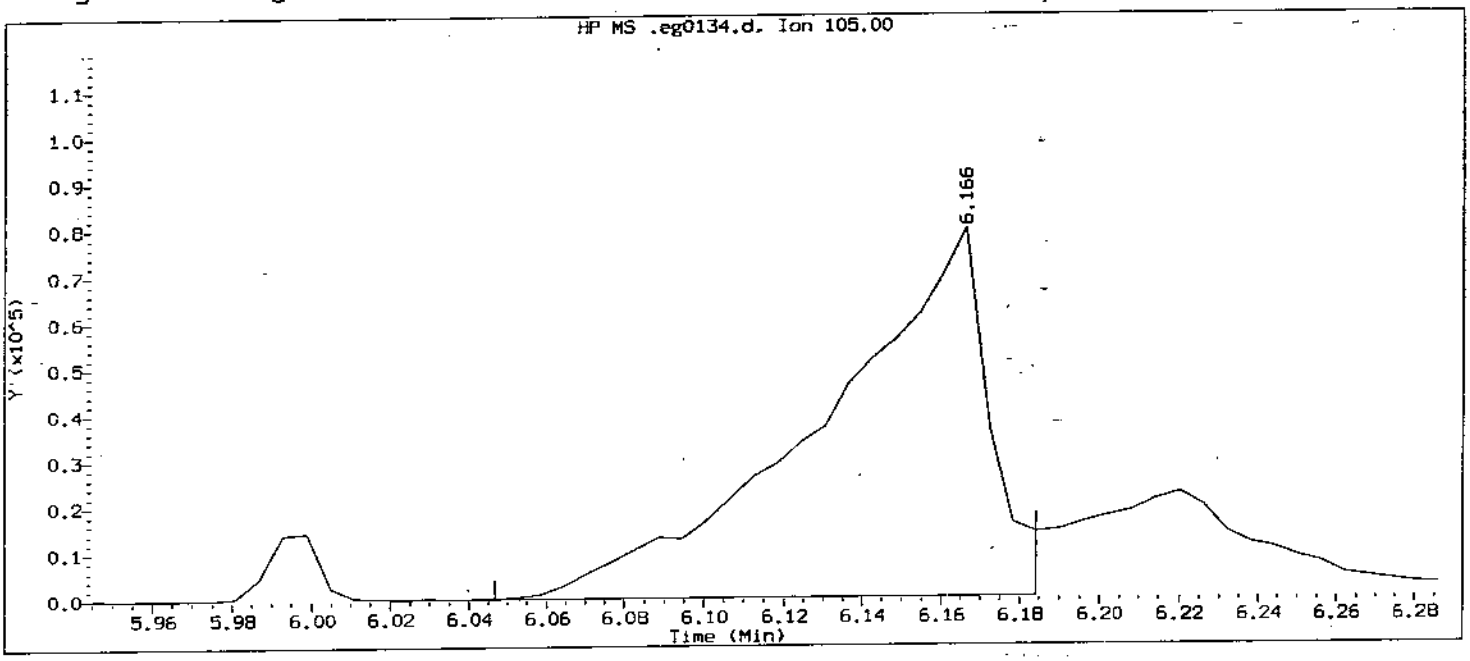
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0134.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 23:11
Date, time and analyst ID of latest file update: 05-Jul-2011 23:11 Automation

Sample Name: SSTD080 Lab Sample ID: STD1731

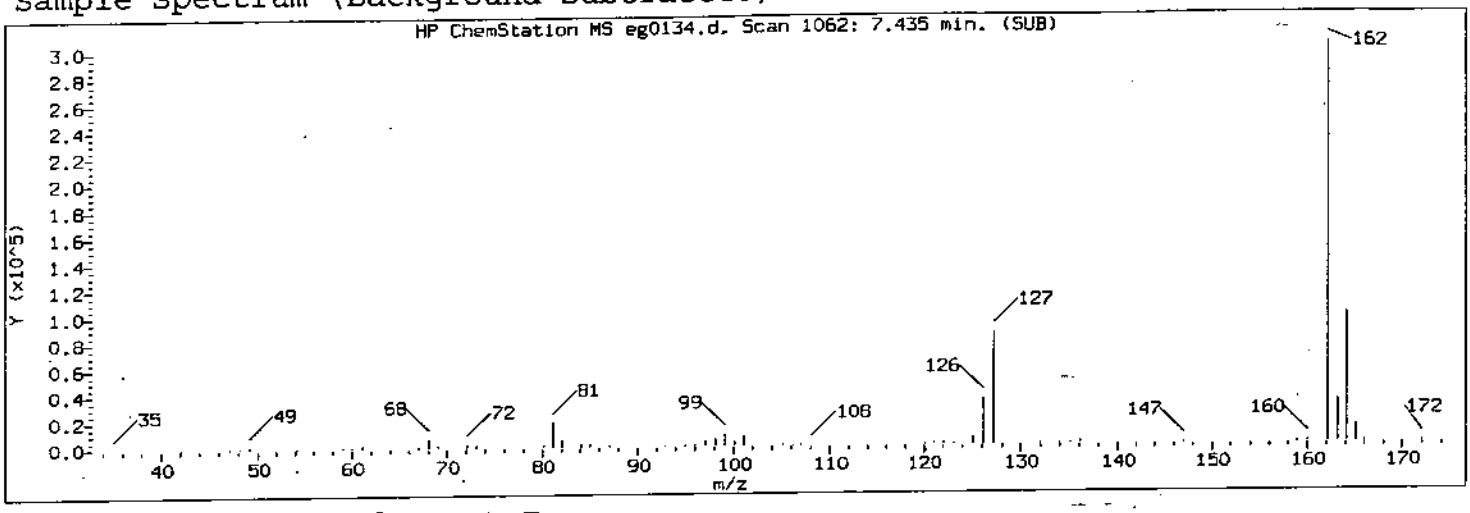
Compound Number : 50
Compound Name : Benzoic acid
Scan Number : 850
Retention Time (minutes): 6.166
Quant Ion : 105
Area : 230205
Concentration (ng/ul) : 65.5489
Integration start scan : 829 Integration stop scan: 852
Y at integration start : 0 Y at integration end: 0

7-5-11

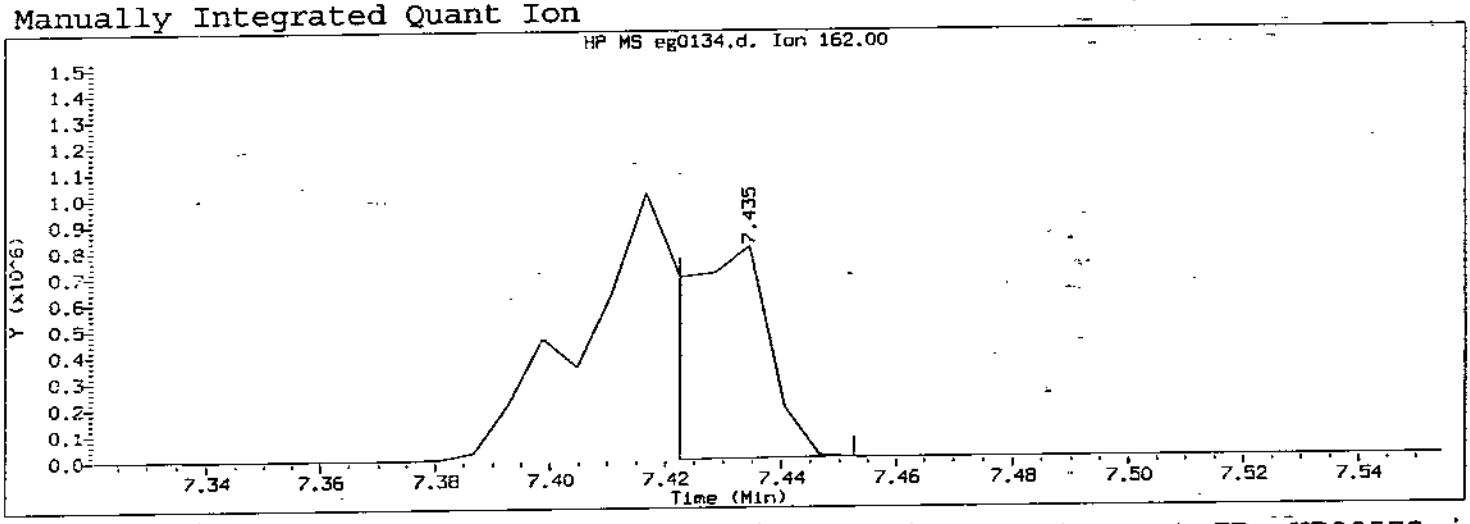
USP83 8329

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0134.d, generated on 07/06/2011 at 01:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD080 Lab Sample ID: STD1731

Compound Number	: 86	
Compound Name	: 1-Chloronaphthalene	
Scan Number	: 1062	
Retention Time (minutes)	: 7.435	
Quant Ion	: 162	
Area (flag)	: 869245	M
Concentration (ng/ul)	: 75.2133	
Integration start scan	: 1059	Integration stop scan: 1064
Y at integration start	: -3623	Y at integration end: 2824

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-5-11

USF03 2338

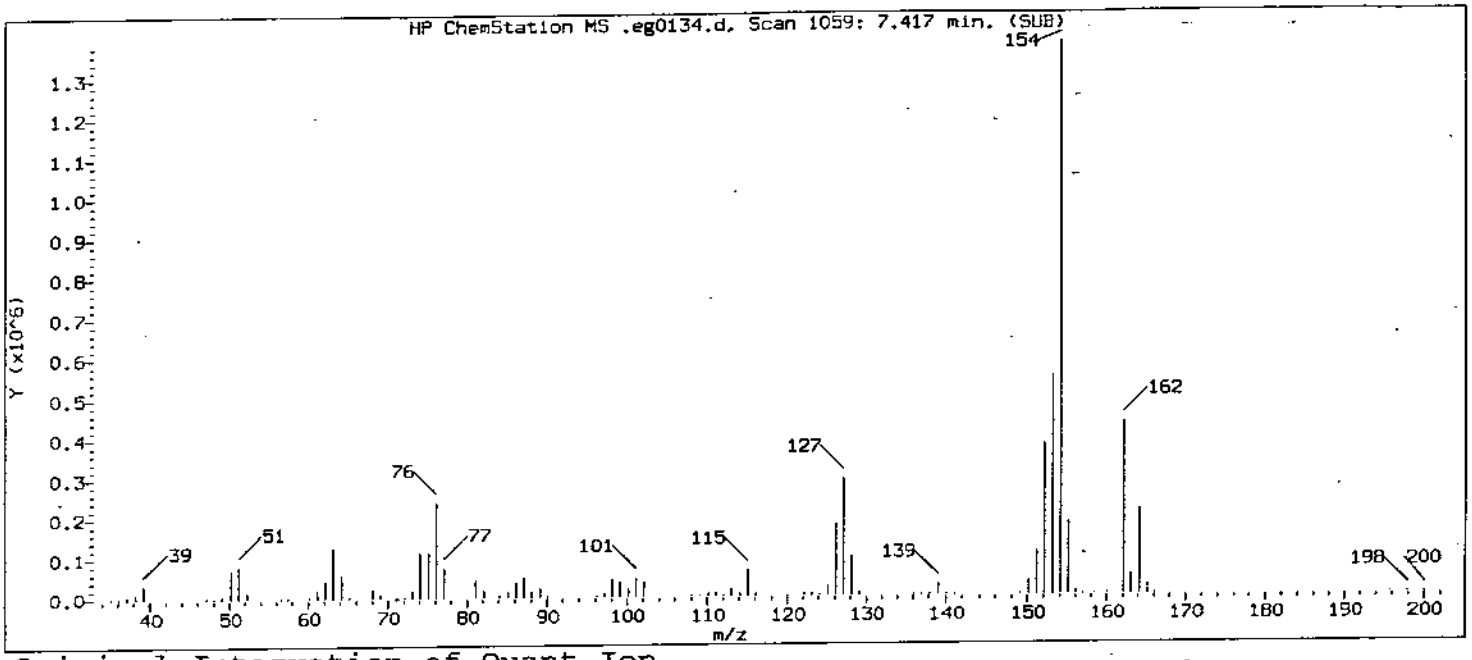
GC/MS audit/management approval: _____

JUL 07 2011

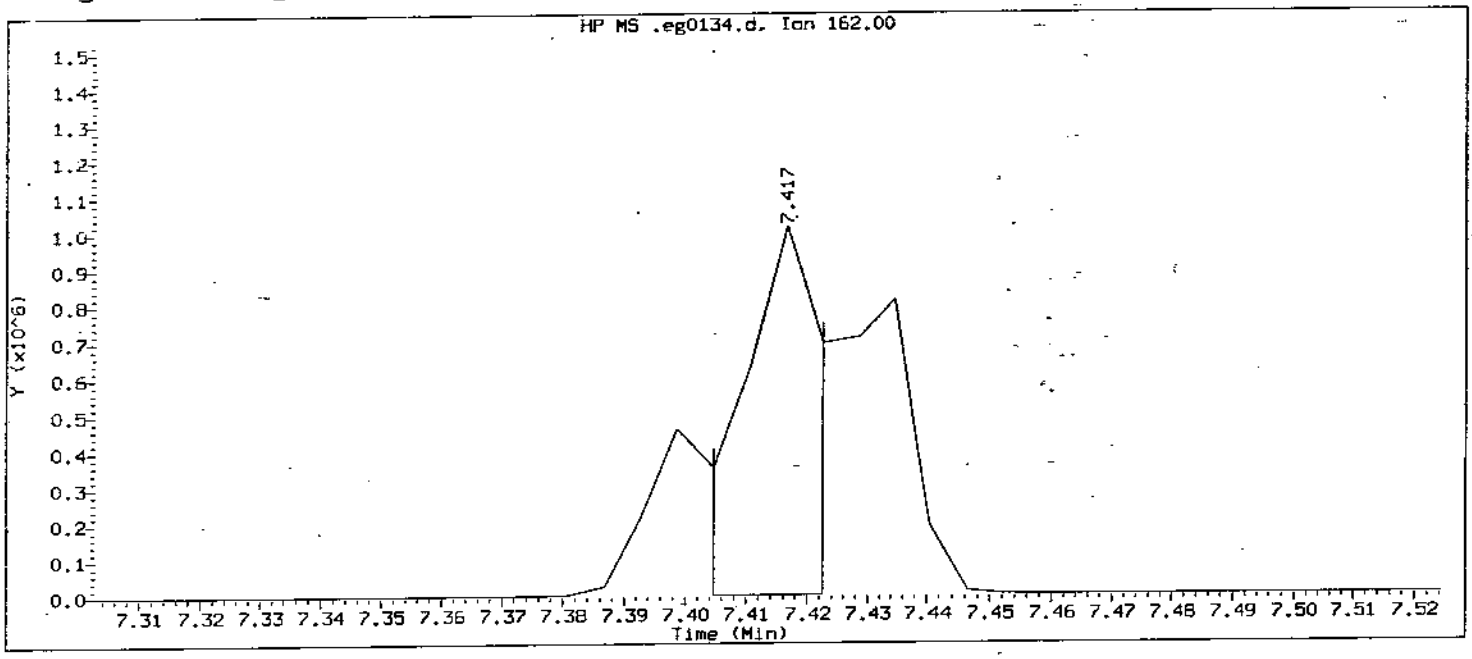
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0134.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0134.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 22:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 23:11
Date, time and analyst ID of latest file update: 05-Jul-2011 23:11 Automation

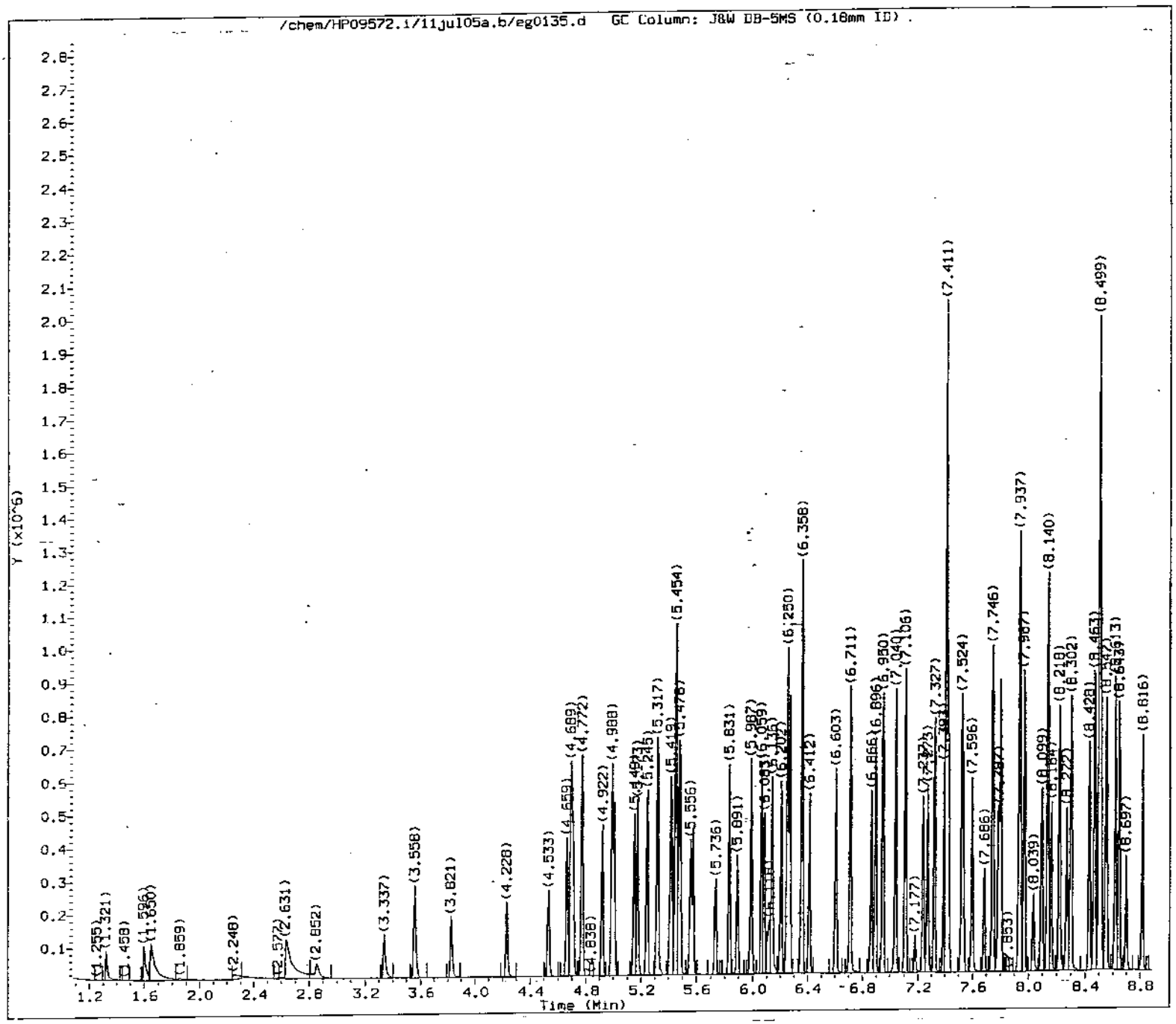
Sample Name: SSTD080 Lab Sample ID: STD1731

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1059
Retention Time (minutes)	:	7.417
Quant Ion	:	162
Area	:	776482
Concentration (ng/ul)	:	75.0799
Integration start scan	:	1056 Integration stop scan: 1059
Y at integration start	:	181 Y at integration end: 225

7-5-11

USF03 8331

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0134.d, generated on 07/06/2011 at 01:24



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0135.d
Injection date and time: 05-JUL-2011 23:17

Instrument ID: HP09572.i
Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m
Calibration date and time: 06-JUL-2011 01:24

Sublist used: all1

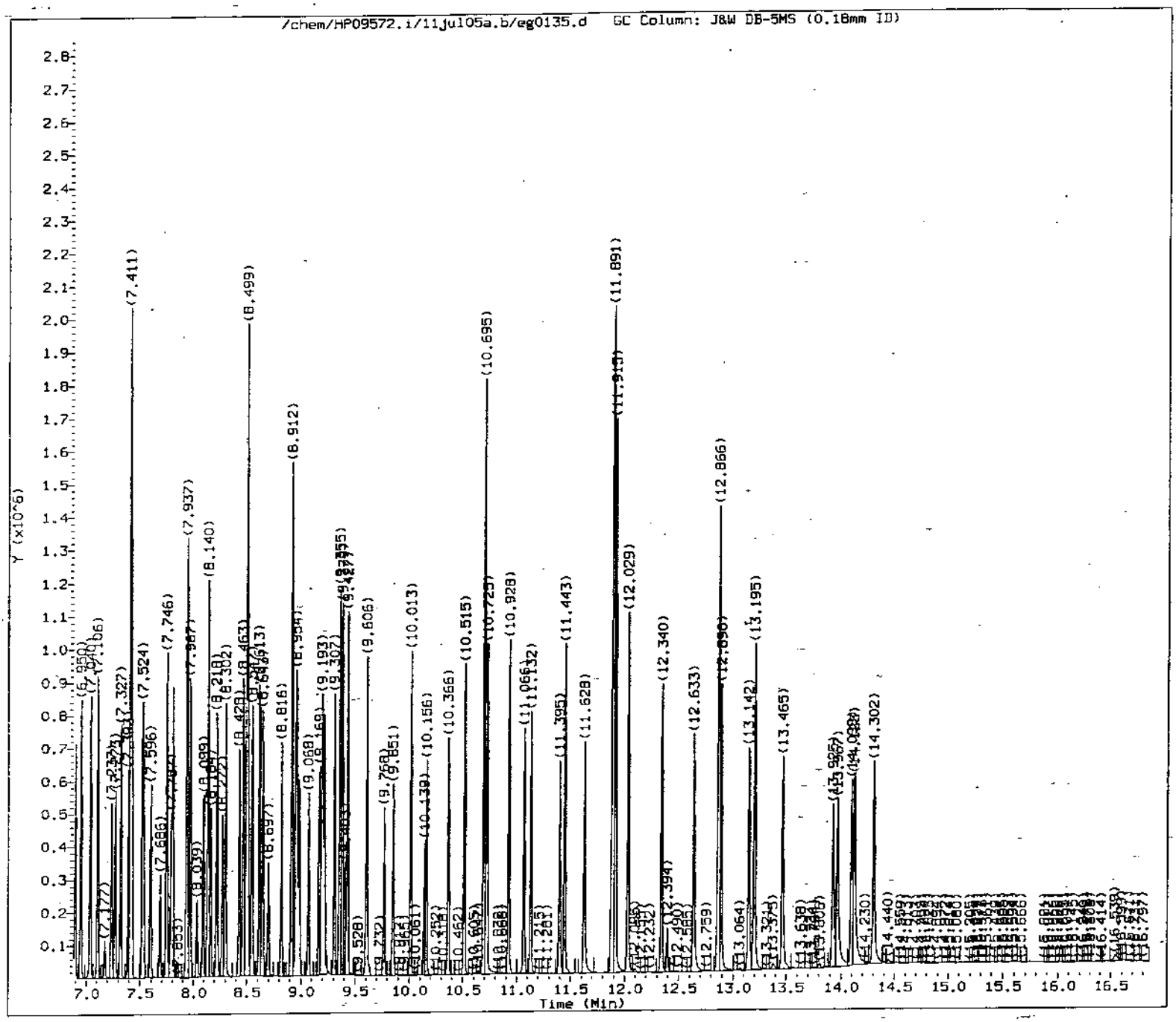
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD030

Lab Sample ID: STD1731

7-5-11

03783 0332



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0135.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:17 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD030 Lab Sample ID: STD1731

05703 6333

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0135.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:17 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD030 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.321	88	34071	29.5636
3)	N-Nitrosodimethylamine	(1)	1.596	74	64331	30.6648
4)	Pyridine	(1)	1.650	79	99459	30.0073
6)	2-Picoline	(1)	2.637	93	93385	28.9983
2)	N-Nitrosomethylethylamine	(1)	2.852	88	43767	31.3952
8)	Methyl methanesulfonate	(1)	3.337	80	59099	29.8135
9)	N-Nitrosodiethylamine	(1)	3.827	102	46281	29.4781
15)	Ethyl methanesulfonate	(1)	4.228	109	46250	29.3330
22)	Phenol	(1)	4.707	94	129323	29.4417
21)	Aniline	(1)	4.659	93	149369	29.3583
33)	Pentachloroethane	(1)	4.689	167	30579	30.3838
23)	bis(2-Chloroethyl)ether	(1)	4.766	93	100210	29.8053
24)	2-Chlorophenol	(1)	4.772	128	90201	29.9105
26)	1,3-Dichlorobenzene	(1)	4.922	146	95773	30.0782
27)	1,4-Dichlorobenzene-d4	(1)	4.988	152	77656	40.0000
28)	1,4-Dichlorobenzene	(1)	5.006	146	97556	29.6137
31)	Benzyl alcohol	(1)	5.173	108	64577	30.1646
32)	1,2-Dichlorobenzene	(1)	5.149	146	94292	30.0719
17)	Indene	(1)	5.245	115	154848	30.3525
34)	2-Methylphenol	(1)	5.317	108	88065	29.4747
35)	2,2'-oxybis(1-Chloropropane)	(1)	5.323	45	112596	29.5387
36)	bis(2-Chloroisopropyl)ether	(1)	5.323	45	112596	29.5387
30)	N-Nitrosopyrrolidine	(1)	5.413	100	52814	28.8404
37)	Acetophenone	(1)	5.425	105	136593	29.2960
38)	N-Nitroso-di-n-propylamine	(1)	5.448	70	92258	29.1237
39)	4-Methylphenol	(1)	5.478	108	98033	29.3918
7)	N-Nitrosomorpholine	(1)	5.460	56	66431	29.2945
40)	o-Toluidine	(1)	5.454	106	157037	29.3983
41)	Hexachloroethane	(1)	5.484	117	38020	30.2208
43)	Nitrobenzene	(2)	5.574	77	122928	30.2031
18)	N-Nitrosopiperidine	(2)	5.736	114	49826	29.5683
46)	Isophorone	(2)	5.831	82	219839	29.9621
47)	2-Nitrophenol	(2)	5.891	139	48112	29.8942
48)	2,4-Dimethylphenol	(2)	5.987	107	106863	30.6216
93)	O,O,O-triethylphosphorothioate	(2)	6.059	198	50087	31.1559
49)	bis(2-Chloroethoxy)methane	(2)	6.083	93	118303	29.1138
50)	Benzoic acid	(2)	6.118	105	97225	38.3243
51)	2,4-Dichlorophenol	(2)	6.136	162	81450	29.8932
52)	1,2,4-Trichlorobenzene	(2)	6.202	180	87941	30.4581
53)	Naphthalene-d8	(2)	6.250	136	350793	40.0000
54)	Naphthalene	(2)	6.268	128	286720	30.1660
56)	4-Chloroaniline	(2)	6.358	127	124957	29.9575
55)	2,6-Dichlorophenol	(2)	6.352	162	80372	29.6013

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0135.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:17 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD030 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	6.358	213	46420	29.5916
59)	Hexachlorobutadiene	(2)	6.412	225	41989	31.2726
65)	Quinoline	(2)	6.603	129	193360	29.6691
66)	Caprolactam	(2)	6.711	113	40743	29.9863
5)	N-Nitrosodi-n-butylamine	(2)	6.711	84	108201	35.3647
68)	4-Chloro-3-methylphenol	(2)	6.866	107	96727	30.2080
61)	Safrole	(2)	6.896	162	78620	29.9915
64)	cis-Isosafrole	(3)	7.177	162	14249	3.4410
69)	2-Methylnaphthalene	(2)	6.950	142	199745	29.7723
71)	1-Methylnaphthalene	(2)	7.040	142	189657	29.7959
72)	Hexachlorocyclopentadiene	(3)	7.106	237	37709	30.1939
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.111	216	84734	30.3630
62)	trans-Isosafrole	(3)	7.393	162	69051	22.5056
76)	2,4,6-Trichlorophenol	(3)	7.237	196	55932	29.9242
77)	2,4,5-Trichlorophenol	(3)	7.273	196	67030	31.0770
63)	Isosafrole	(3)	7.393	162	69051	25.2872
82)	Biphenyl	(3)	7.411	154	252496	30.2307
83)	Diphenyl	(3)	7.411	154	252496	30.2307
84)	1,1'-Biphenyl	(3)	7.411	154	252496	30.2307
85)	2-Chloronaphthalene	(3)	7.411	162	209664	24.7333
86)	1-Chloronaphthalene	(3)	7.429	162	238376M	29.1722
87)	Diphenyl ether	(3)	7.524	170	132112	30.0418
88)	2-Nitroaniline	(3)	7.536	138	66640	30.2308
60)	1,4-Naphthoquinone	(3)	7.596	158	78394	30.9207
57)	1,4-Dinitrobenzene	(3)	7.686	168	32413	30.2640
92)	Dimethylphthalate	(3)	7.746	163	234286	30.1075
58)	1,3-Dinitrobenzene	(3)	7.752	168	39810	30.5866
98)	2,6-Dinitrotoluene	(3)	7.787	165	54172	30.0916
100)	Acenaphthylene	(3)	7.799	152	300267	30.3786
102)	3-Nitroaniline	(3)	7.931	138	59193	29.4837
103)	Acenaphthene-d10	(3)	7.937	164	231420	40.0000
106)	Acenaphthene	(3)	7.967	153	196231	30.0610
107)	2,4-Dinitrophenol	(3)	8.039	184	28576	36.5619
110)	Pentachlorobenzene	(3)	8.099	250	72904	30.2890
109)	4-Nitrophenol	(3)	8.140	109	38734	29.6673
112)	Dibenzofuran	(3)	8.140	168	278869	30.1086
113)	2,4-Dinitrotoluene	(3)	8.164	165	70695	29.8427
114)	1-Naphthylamine	(3)	8.218	143	223557	30.0771
115)	2,3,4,6-Tetrachlorophenol	(3)	8.272	232	48869	30.0107
117)	2-Naphthylamine	(3)	8.302	143	231244	30.4520
118)	Diethylphthalate	(3)	8.434	149	224593	30.1642
119)	Fluorene	(3)	8.469	166	237873	30.1205
29)	Thionazin	(3)	8.499	107	43446	28.6237

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0135.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:17 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD030 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	8.499	204	109534	30.2134
70)	5-Nitro-o-toluidine	(3)	8.505	152	73016	30.0303
121)	4-Nitroaniline	(3)	8.511	138	66332	30.0768
122)	4,6-Dinitro-2-methylphenol	(4)	8.547	198	33345	27.8785
67)	1-Nitronaphthalene	(4)	8.553	173	46305	29.7713
123)	N-Nitrosodiphenylamine	(4)	8.613	169	202827	29.8182
124)	NDPA as diphenylamine	(4)	8.613	169	202763	29.8882
125)	1,2-Diphenylhydrazine	(4)	8.643	77	294299	30.2848
108)	Tetraethyldithiopyrophosphate	(4)	8.816	97	41498	30.3788
81)	1,3,5-Trinitrobenzene	(4)	8.912	213	22225	27.4642
78)	Diallate (peak 1)	(4)	8.912	86	96298	22.6456
75)	Phorate	(4)	8.912	75	231276	29.4582
80)	Phenacetin	(4)	8.948	108	121061	27.6960
131)	4-Bromophenyl-phenylether	(4)	8.960	248	60480	29.9165
13)	Diallate (peak 2)	(4)	8.990	86	18661	7.2735
132)	Hexachlorobenzene	(4)	8.978	284	58597	29.9699
96)	Dimethoate	(4)	9.068	87	94016	30.1878
135)	Pentachlorophenol	(4)	9.187	266	45045	36.7688
136)	Pentachloronitrobenzene	(4)	9.193	237	26609	29.5660
105)	4-Aminobiphenyl	(4)	9.211	169	230064	32.0150
97)	Pronamide	(4)	9.307	173	102348	29.9681
140)	Phenanthrene-d10	(4)	9.355	188	395898	40.0000
141)	Phenanthrene	(4)	9.379	178	346866	29.6882
137)	Dinoseb	(4)	9.403	211	42082	27.6132
143)	Anthracene	(4)	9.427	178	357311	30.0012
145)	Carbazole	(4)	9.606	167	331384	29.9122
149)	Methyl parathion	(4)	9.768	109	71342	30.8470
148)	Di-n-butylphthalate	(4)	10.013	149	371553	29.5128
150)	Parathion	(4)	10.156	109	50301	30.1590
133)	4-Nitroquinoline-1-oxide	(4)	10.139	190	21812	25.8218
99)	Isodrin	(4)	10.366	193	36381	29.0596
153)	Fluoranthene	(4)	10.515	202	346380	29.5932
154)	Benzidine	(5)	10.695	184	628595	91.7939
155)	Pyrene	(5)	10.725	202	383528	30.8927
147)	p-Dimethylaminoazobenzene	(5)	11.072	225	74586	30.8653
144)	Chlorobenzilate	(5)	11.132	139	115487	30.2036
161)	3,3'-Dimethylbenzidine	(5)	11.395	212	193271	30.7207
162)	Butylbenzylphthalate	(5)	11.443	149	171157	31.0443
101)	2-Acetylaminofluorene	(5)	11.628	181	143583	30.0157
165)	3,3'-Dichlorobenzidine	(5)	11.897	252	123277	29.8426
164)	Benzo(a)anthracene	(5)	11.885	228	330862	29.8935
167)	4,4'-Methylenebis(2-Chloroanil	(5)	11.915	231	63166	29.7622
166)	Chrysene-d12	(5)	11.891	240	403357	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

USF03 9336

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0135.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:17 Analyst ID: rpb01568

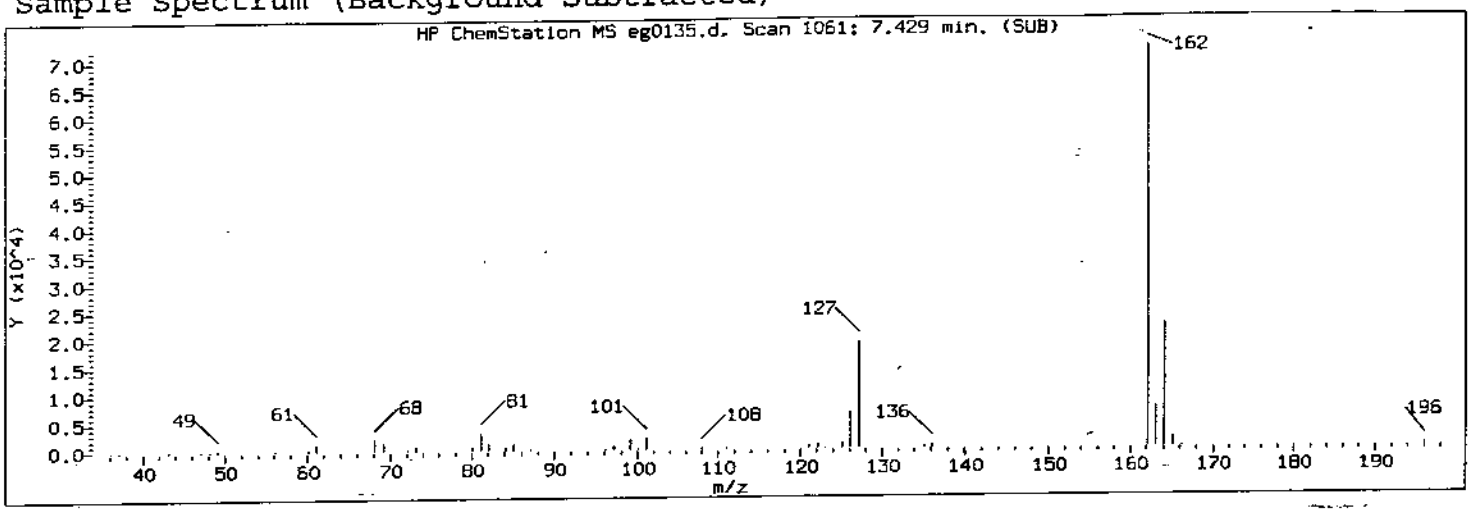
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD030 Lab Sample ID: STD1731

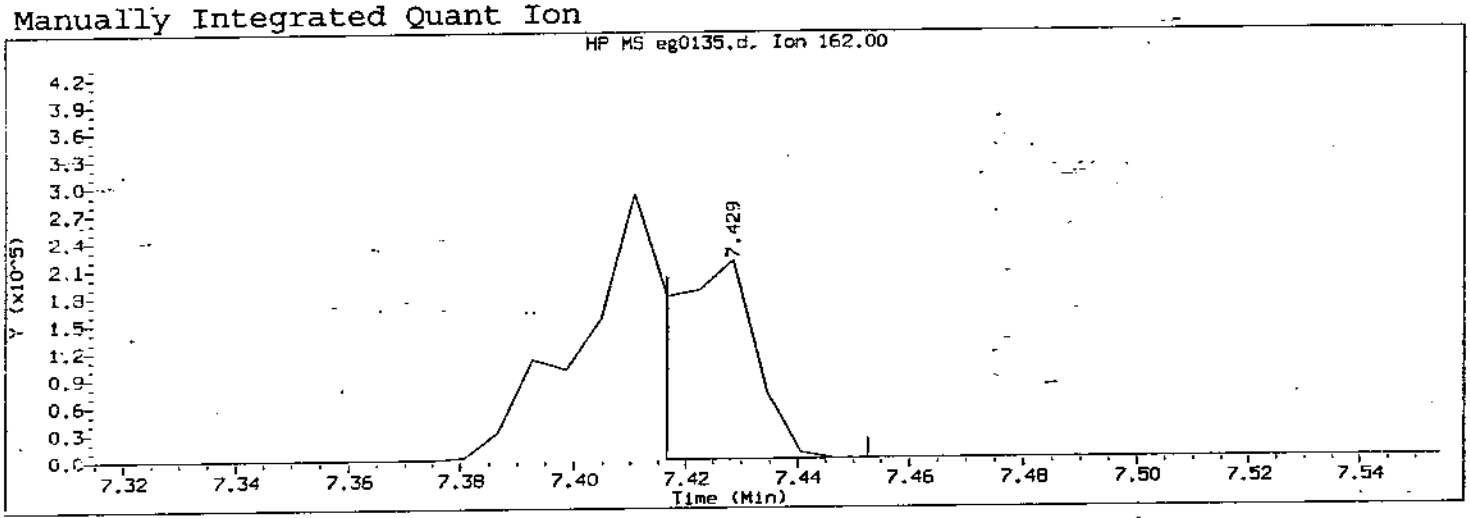
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168) Chrysene	(5)	11.915	228	351896	30.3513
169) bis(2-Ethylhexyl)phthalate	(5)	12.029	149	220448	29.8002
170) 6-Methylchrysene	(5)	12.340	242	231682	29.6572
172) Di-n-octylphthalate	(6)	12.633	149	339993	29.7559
174) 7,12-Dimethylbenz[a]anthracene	(6)	12.866	256	159840	30.6881
173) Benzo(b)fluoranthene	(6)	12.860	252	329507	30.1756
175) Benzo(k)fluoranthene	(6)	12.890	252	315085	28.5879
176) Benzo(a)pyrene	(6)	13.148	252	299565	30.1848
177) Perylene-d12	(6)	13.195	264	362487	40.0000
180) 3-Methylcholanthrene	(6)	13.465	268	161185	29.8498
181) Dibenz(a,h)acridine	(6)	13.925	279	201426	29.1087
183) Dibenz(a,j)acridine	(6)	13.967	279	255429	30.0795
185) Indeno(1,2,3-cd)pyrene	(6)	14.099	276	318226	29.8629
187) Dibenz(a,h)anthracene	(6)	14.129	278	271023	29.4304
188) Benzo(g,h,i)perylene	(6)	14.302	276	278465	30.0441
194) Diallate TRANS/CIS	(4)	23.556	86	114959	29.9191
11) 2-Fluorophenol	(1)	3.558	112	83444	30.1736
19) Phenol-d5	(1)	4.695	99	116871	29.1350
20) Phenol-d6	(1)	4.695	99	116871	29.1350
42) Nitrobenzene-d5	(2)	5.556	82	119920	30.1720
79) 2-Fluorobiphenyl	(3)	7.327	172	214335	30.3755
126) 2,4,6-Tribromophenol	(3)	8.697	330	24138	30.2306
157) Terphenyl-d14	(5)	10.928	244	262267	30.7075

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0135.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:17 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:24
Date, time and analyst ID of latest file update: 06-Jul-2011 01:24 rpb01568

Sample Name: SSTD030 Lab Sample ID: STD1731

Compound Number	: 86	
Compound Name	: 1-Chloronaphthalene	
Scan Number	: 1061	
Retention Time (minutes)	: 7.429	
Quant Ion	: 162	
Area (flag)	: 238376	M
Concentration (ng/ul)	: 29.1722	
Integration start scan	: 1058	Integration stop scan: 1064
Y at integration start	: -351	Y at integration end: -351

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-5-11

GC/MS audit/management approval: _____

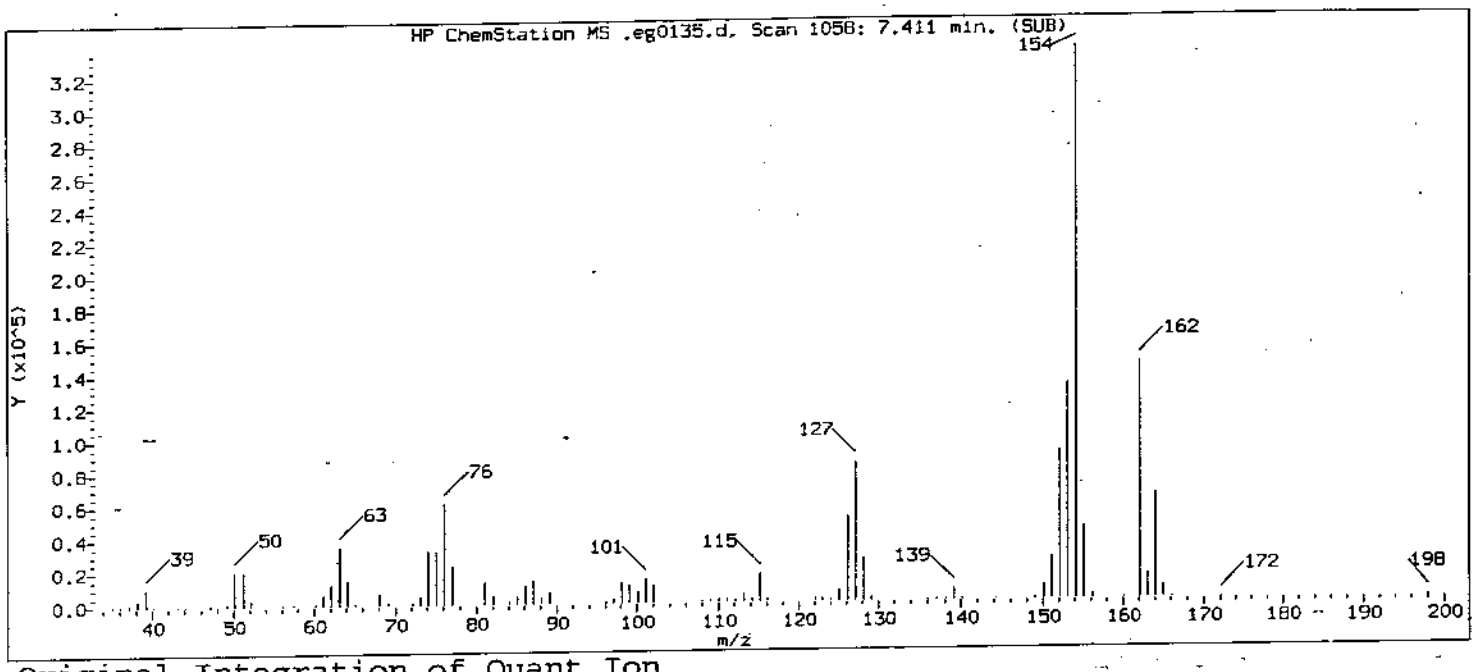
USTB3 8338

JUL 07 2011

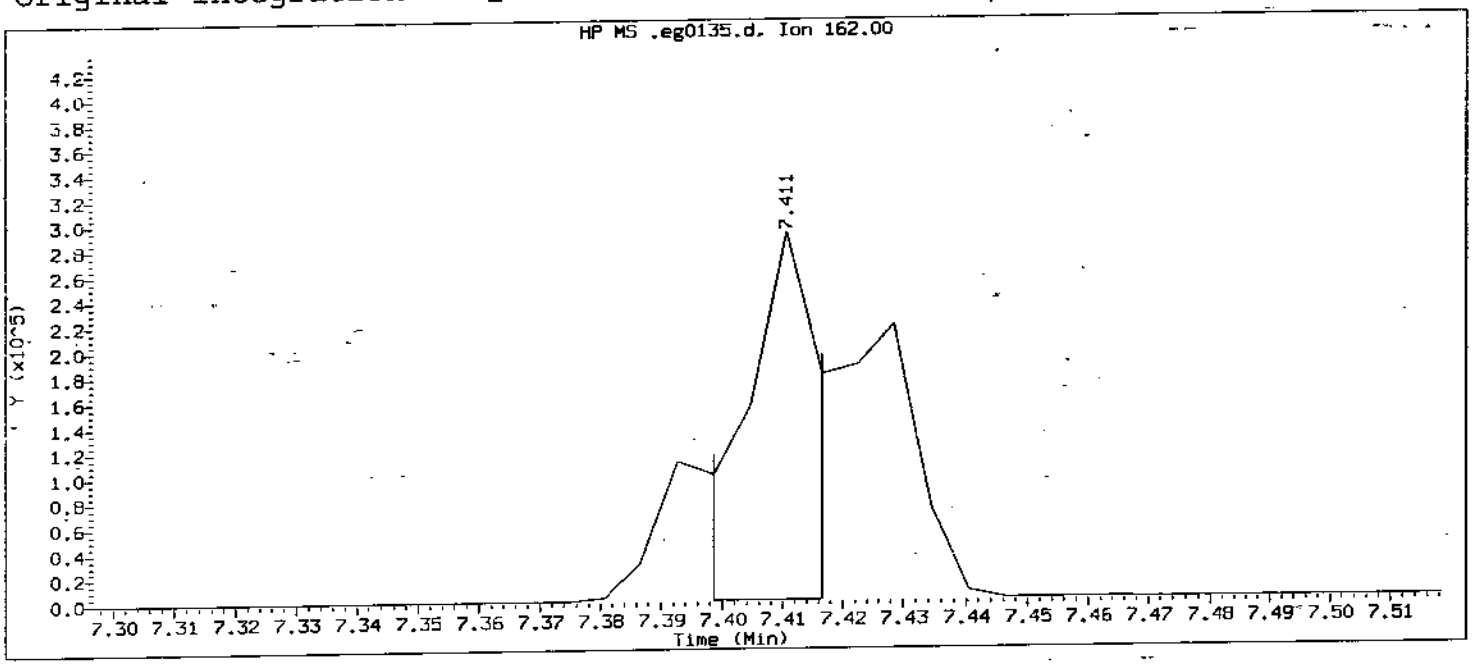
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0135.d, generated on 07/06/2011 at 01:24

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0135.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:17 Analyst ID: rpb01568

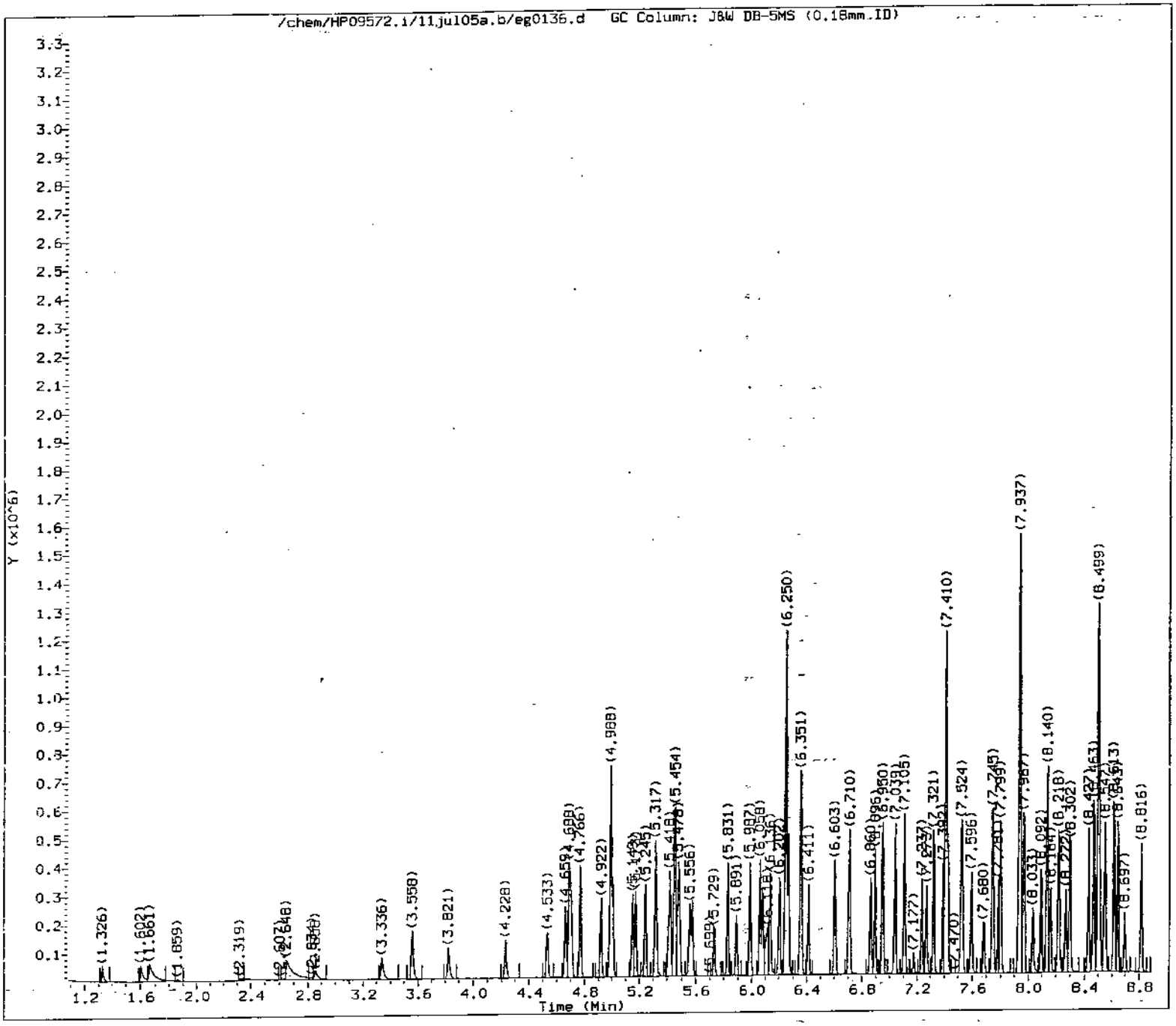
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 05-JUL-2011 23:36
Date, time and analyst ID of latest file update: 05-Jul-2011 23:36 Automation

Sample Name: SSTD030 Lab Sample ID: STD1731

Compound Number	: 86
Compound Name	: 1-Chloronaphthalene
Scan Number	: 1058
Retention Time (minutes)	: 7.411
Quant Ion	: 162
Area	: 209569
Concentration (ng/ul)	: 28.3462
Integration start scan	: 1055 Integration stop scan: 1058
Y at integration start	: 76 Y at integration end: 100

USP83 8339

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0135.d, generated on 07/06/2011 at 01:24



Quant Report

Target Revision 3.5

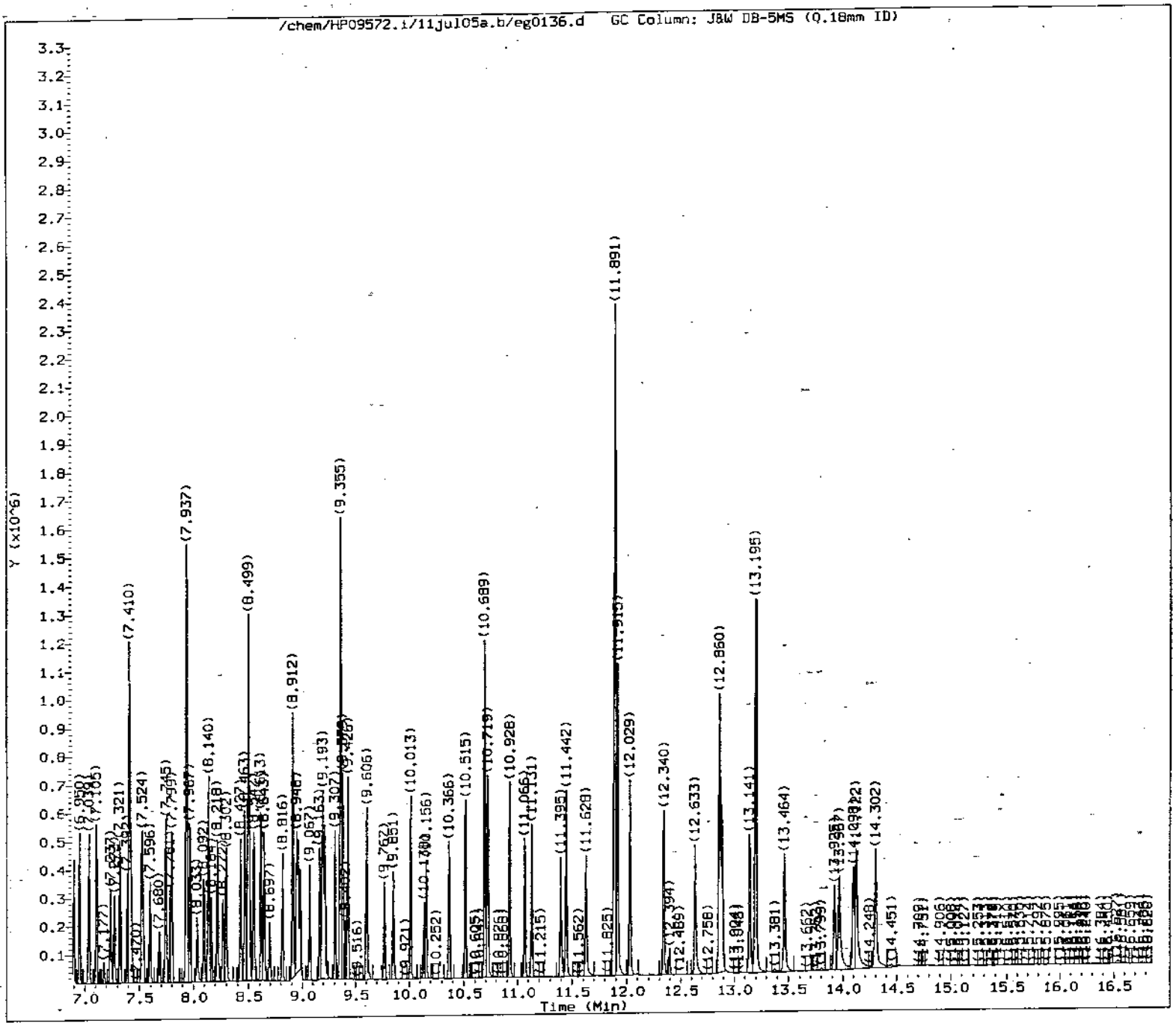
Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD015 Lab Sample ID: STD1731

7-5-11

USF03 0348



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD015 Lab Sample ID: STD1731

7-5-11

USF03 0341

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD015 Lab Sample ID: STD1731

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.326	88	19454	14.0590
3) N-Nitrosodimethylamine	(1)	1.602	74	36232	14.3842
4) Pyridine	(1)	1.661	79	49509	12.4406
6) 2-Picoline	(1)	2.648	93	51751	13.3841
2) N-Nitrosomethylethylamine	(1)	2.858	88	24356	14.5511
8) Methyl methanesulfonate	(1)	3.336	80	35758	15.0238
9) N-Nitrosodiethylamine	(1)	3.821	102	27954	14.8291
15) Ethyl methanesulfonate	(1)	4.228	109	26706	14.1067
22) Phenol	(1)	4.706	94	77169	14.6320
21) Aniline	(1)	4.659	93	88248	14.4460
33) Pentachloroethane	(1)	4.688	167	17775	14.7096
23) bis(2-Chloroethyl)ether	(1)	4.766	93	59534	14.7476
24) 2-Chlorophenol	(1)	4.772	128	51971	14.3531
26) 1,3-Dichlorobenzene	(1)	4.922	146	57456	15.0286
27) 1,4-Dichlorobenzene-d4	(1)	4.988	152	93240	40.0000
28) 1,4-Dichlorobenzene	(1)	5.005	146	57734	14.5963
31) Benzyl alcohol	(1)	5.173	108	36701	14.2781
32) 1,2-Dichlorobenzene	(1)	5.149	146	55614	14.7721
17) Indene	(1)	5.245	115	88021	14.3697
34) 2-Methylphenol	(1)	5.317	108	52490	14.6317
35) 2,2'-oxybis(1-Chloropropane)	(1)	5.323	45	67693	14.7906
36) bis(2-Chloroisopropyl)ether	(1)	5.323	45	67693	14.7906
30) N-Nitrosopyrrolidine	(1)	5.406	100	32218	14.6529
37) Acetophenone	(1)	5.418	105	82891	14.8068
38) N-Nitroso-di-n-propylamine	(1)	5.448	70	55504	14.5928
39) 4-Methylphenol	(1)	5.478	108	59273	14.8007
7) N-Nitrosomorpholine	(1)	5.460	56	40972	15.0479
40) o-Toluidine	(1)	5.454	106	95329	14.8634
41) Hexachloroethane	(1)	5.484	117	21405	14.1704
43) Nitrobenzene	(2)	5.574	77	73022	14.6132
18) N-Nitrosopiperidine	(2)	5.735	114	30582	14.7818
46) Isophorone	(2)	5.831	82	134880	14.9729
47) 2-Nitrophenol	(2)	5.891	139	27689	14.0130
48) 2,4-Dimethylphenol	(2)	5.987	107	62276	14.5349
93) O,O,O-triethylphosphorothioate	(2)	6.058	198	28868	14.6259
49) bis(2-Chloroethoxy)methane	(2)	6.076	93	76592	15.3525
50) Benzoic acid	(2)	6.118	105	97048	29.6176
51) 2,4-Dichlorophenol	(2)	6.136	162	50441	15.0784
52) 1,2,4-Trichlorobenzene	(2)	6.202	180	52473	14.8026
53) Naphthalene-d8	(2)	6.250	136	430685	40.0000
54) Naphthalene	(2)	6.268	128	171420	14.6897
56) 4-Chloroaniline	(2)	6.351	127	74404	14.5289
55) 2,6-Dichlorophenol	(2)	6.351	162	49106	14.7310

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD015 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	6.357	213	26800	13.9152
59)	Hexachlorobutadiene	(2)	6.411	225	23745	14.4043
65)	Quinoline	(2)	6.603	129	121415	15.1740
66)	Caprolactam	(2)	6.704	113	26106	15.6495
5)	N-Nitrosodi-n-butylamine	(2)	6.710	84	65644	17.4753
68)	4-Chloro-3-methylphenol	(2)	6.860	107	56795	14.4469
61)	Safrole	(2)	6.896	162	46753	14.5267
64)	cis-Isosafrole	(3)	7.177	162	8785	1.6638
69)	2-Methylnaphthalene	(2)	6.950	142	122574	14.8808
71)	1-Methylnaphthalene	(2)	7.039	142	116086	14.8545
72)	Hexachlorocyclopentadiene	(3)	7.105	237	20303	12.7490
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.111	216	52163	14.6586
62)	trans-Isosafrole	(3)	7.392	162	42054	10.7490
76)	2,4,6-Trichlorophenol	(3)	7.237	196	34798	14.6002
77)	2,4,5-Trichlorophenol	(3)	7.273	196	40156	14.6003
63)	Isosafrole	(3)	7.392	162	42054	12.0776
82)	Biphenyl	(3)	7.410	154	156089	14.6557
83)	Diphenyl	(3)	7.410	154	156089	14.6557
84)	1,1'-Biphenyl	(3)	7.410	154	156089	14.6557
85)	2-Chloronaphthalene	(3)	7.410	162	131648	13.2858
86)	1-Chloronaphthalene	(3)	7.428	162	143750M	15.5782
87)	Diphenyl ether	(3)	7.524	170	82486	14.7098
88)	2-Nitroaniline	(3)	7.530	138	40726	14.4886
60)	1,4-Naphthoquinone	(3)	7.596	158	47425	14.6695
57)	1,4-Dinitrobenzene	(3)	7.686	168	18700	13.6927
92)	Dimethylphthalate	(3)	7.739	163	147837	14.8989
58)	1,3-Dinitrobenzene	(3)	7.745	168	23883	14.3903
98)	2,6-Dinitrotoluene	(3)	7.781	165	33344	14.5254
100)	Acenaphthylene	(3)	7.799	152	185285	14.7009
102)	3-Nitroaniline	(3)	7.931	138	38011	14.8478
103)	Acenaphthene-d10	(3)	7.937	164	295093	40.0000
106)	Acenaphthene	(3)	7.967	153	123385	14.8231
107)	2,4-Dinitrophenol	(3)	8.038	184	27049	27.1407
110)	Pentachlorobenzene	(3)	8.098	250	45529	14.8342
109)	4-Nitrophenol	(3)	8.134	109	25508	15.3216
112)	Dibenzofuran	(3)	8.140	168	176906	14.9787
113)	2,4-Dinitrotoluene	(3)	8.164	165	45879	15.1882
114)	1-Naphthylamine	(3)	8.218	143	142694	15.0555
115)	2,3,4,6-Tetrachlorophenol	(3)	8.272	232	30789	14.8279
117)	2-Naphthylamine	(3)	8.302	143	148103	15.2951
118)	Diethylphthalate	(3)	8.427	149	142812	15.0419
119)	Fluorene	(3)	8.463	166	151585	15.0527
29)	Thionazin	(3)	8.499	107	28795	14.8777

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0343

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD015 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	8.499	204	68565	14.8319
70)	5-Nitro-o-toluidine	(3)	8.499	152	47978	15.4748
121)	4-Nitroaniline	(3)	8.511	138	43416	15.4383
122)	4,6-Dinitro-2-methylphenol	(4)	8.547	198	20067	12.5650
67)	1-Nitronaphthalene	(4)	8.553	173	28871	13.9019
123)	N-Nitrosodiphenylamine	(4)	8.613	169	130853	14.4073
124)	NDPA as diphenylamine	(4)	8.613	169	129980	14.3493
125)	1,2-Diphenylhydrazine	(4)	8.643	77	186404	14.3659
108)	Tetraethyldithiopyrophosphate	(4)	8.816	97	25494	13.9773
81)	1,3,5-Trinitrobenzene	(4)	8.912	213	13564	12.5532
78)	Diallate (peak 1)	(4)	8.912	86	59831	10.5374
75)	Phorate	(4)	8.912	75	141577	13.5055
80)	Phenacetin	(4)	8.948	108	79867	13.6843
131)	4-Bromophenyl-phenylether	(4)	8.960	248	39380	14.5887
13)	Diallate (peak 2)	(4)	8.990	86	11794	3.4428
132)	Hexachlorobenzene	(4)	8.978	284	37792	14.4761
96)	Dimethoate	(4)	9.067	87	63164	15.1894
135)	Pentachlorophenol	(4)	9.187	266	45832	28.0184
136)	Pentachloronitrobenzene	(4)	9.193	237	17397	14.4771
105)	4-Aminobiphenyl	(4)	9.211	169	150264	15.6604
97)	Pronamide	(4)	9.307	173	65299	14.3195
140)	Phenanthrene-d10	(4)	9.355	188	528617	40.0000
141)	Phenanthrene	(4)	9.379	178	229724	14.7255
137)	Dinoseb	(4)	9.402	211	24474	12.0273
143)	Anthracene	(4)	9.426	178	233878	14.7070
145)	Carbazole	(4)	9.606	167	218953	14.8016
149)	Methyl parathion	(4)	9.767	109	44972	14.5630
148)	Di-n-butylphthalate	(4)	10.013	149	244498	14.5448
150)	Parathion	(4)	10.156	109	31844	14.2992
133)	4-Nitroquinoline-1-oxide	(4)	10.138	190	12609	11.1793
99)	Isodrin	(4)	10.366	193	24461	14.6329
153)	Fluoranthene	(4)	10.515	202	231869	14.8363
154)	Benzidine	(5)	10.689	184	419190	43.6707
155)	Pyrene	(5)	10.719	202	260317	14.9588
147)	p-Dimethylaminoazobenzene	(5)	11.071	225	47590	14.0496
144)	Chlorobenzilate	(5)	11.131	139	75315	14.0522
161)	3,3'-Dimethylbenzidine	(5)	11.395	212	128031	14.5183
162)	Butylbenzylphthalate	(5)	11.442	149	112718	14.5853
101)	2-Acetylaminofluorene	(5)	11.628	181	92831	13.8444
165)	3,3'-Dichlorobenzidine	(5)	11.897	252	83538	14.4270
164)	Benzo(a)anthracene	(5)	11.885	228	227666	14.6745
167)	4,4'-Methylenebis(2-Chloroanil	(5)	11.915	231	44021	14.7971
166)	Chrysene-d12	(5)	11.891	240	565397	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

USF03 8344

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

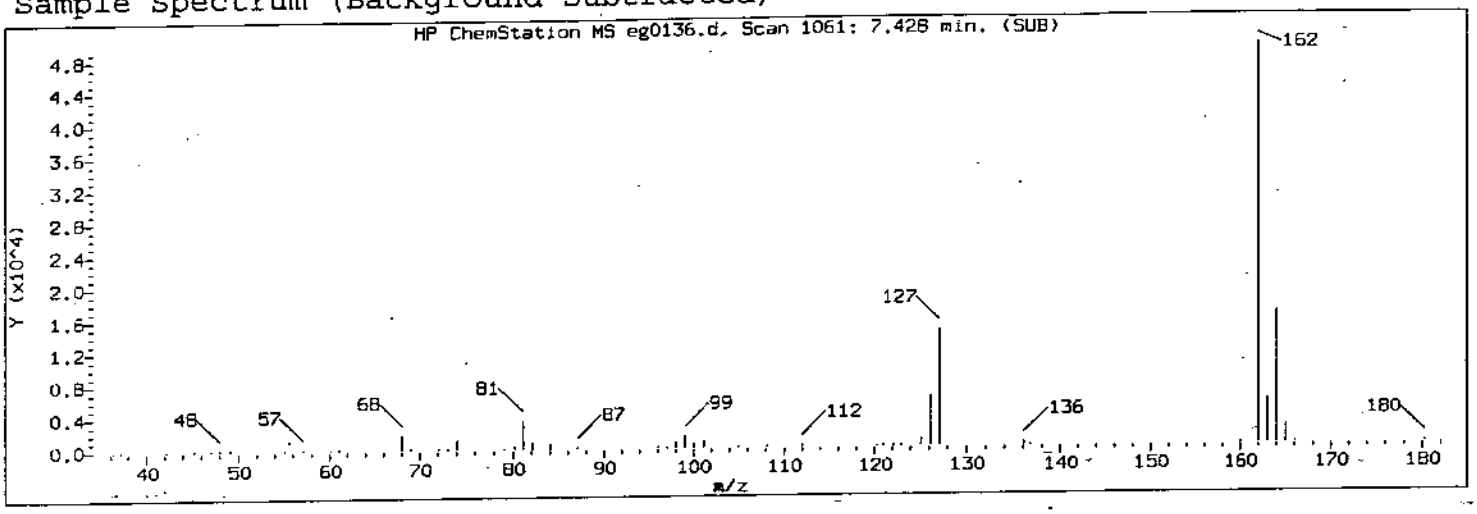
Sample Name: SSTD015 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area		Conc. (on column)
168)	Chrysene	(5)	11.915	228	242256		14.9065
169)	bis(2-Ethylhexyl)phthalate	(5)	12.029	149	147857		14.2591
170)	6-Methylchrysene	(5)	12.340	242	160745		14.6795
172)	Di-n-octylphthalate	(6)	12.633	149	220345		13.3439
174)	7,12-Dimethylbenz[a]anthracene	(6)	12.866	256	105731		14.0464
173)	Benzo(b)fluoranthene	(6)	12.860	252	208546	A	13.5203
175)	Benzo(k)fluoranthene	(6)	12.884	252	240606		15.1056
176)	Benzo(a)pyrene	(6)	13.141	252	206373		14.3889
177)	Perylene-d12	(6)	13.201	264	523860		40.0000
180)	3-Methylcholanthrene	(6)	13.464	268	107153		13.7309
181)	Dibenz(a,h)acridine	(6)	13.925	279	137152		13.7147
183)	Dibenz(a,j)acridine	(6)	13.967	279	178271		14.5264
185)	Indeno(1,2,3-cd)pyrene	(6)	14.098	276	221320		14.3712
187)	Dibenz(a,h)anthracene	(6)	14.122	278	191809		14.4124
188)	Benzo(g,h,i)perylene	(6)	14.302	276	192829		14.3959
194)	Diallate TRANS/CIS	(4)	23.556	86	71625		13.9802
11)	2-Fluorophenol	(1)	3.558	112	47985		14.4514
19)	Phenol-d5	(1)	4.694	99	70059		14.5461
20)	Phenol-d6	(1)	4.694	99	70059		14.5461
42)	Nitrobenzene-d5	(2)	5.556	82	71529		14.6584
79)	2-Fluorobiphenyl	(3)	7.321	172	133761		14.8663
126)	2,4,6-Tribromophenol	(3)	8.697	330	14554		14.2945
157)	Terphenyl-d14	(5)	10.928	244	175087		14.6248

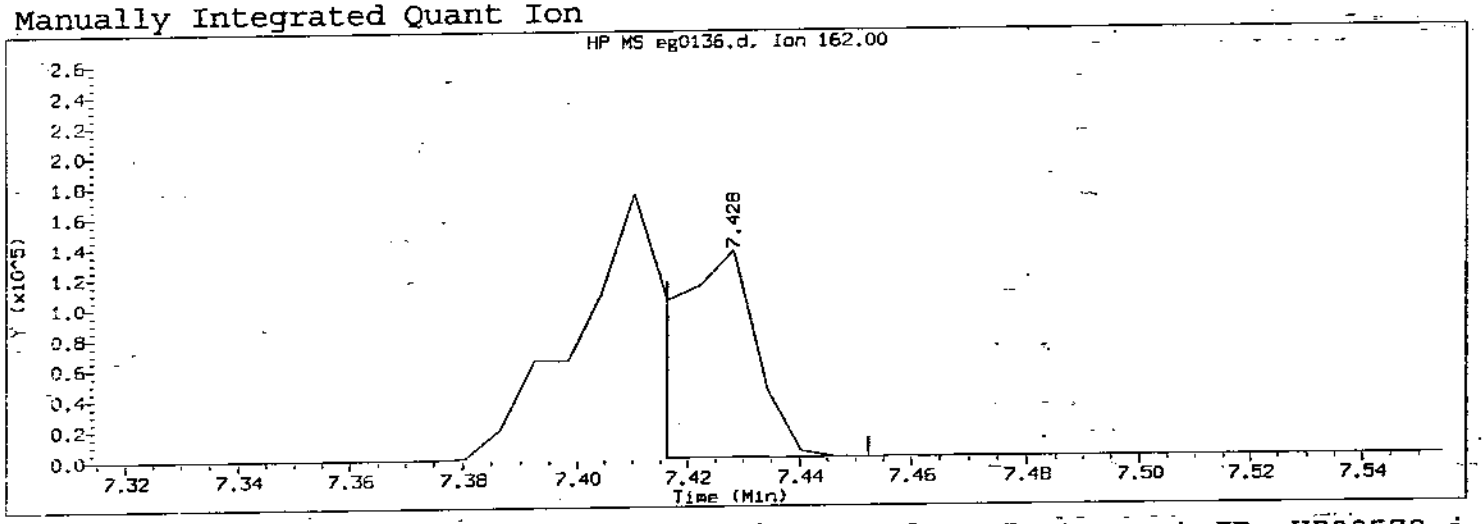
M = Compound was manually integrated. A = User selected an alternate hit

USF03 8345

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD015 Lab Sample ID: STD1731

Compound Number : 86
Compound Name : 1-Chloronaphthalene
Scan Number : 1061
Retention Time (minutes): 7.428
Quant Ion : 162
Area (flag) : 143750 M
Concentration (ng/ul) : 15.5782
Integration start scan : 1058 Integration stop scan: 1064
Y at integration start : 329 Y at integration end: 73

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: _____ 7-5-11

USF03 0345

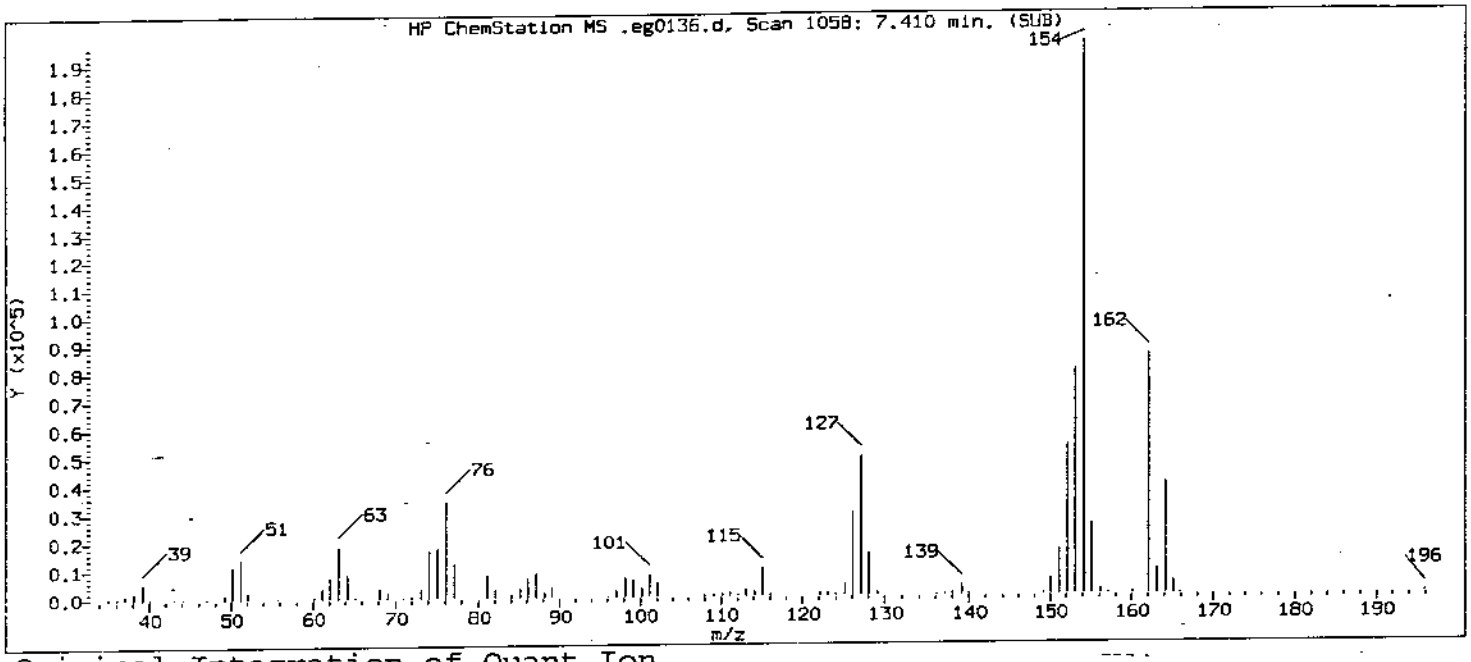
GC/MS audit/management approval: _____

JUL 07 2011

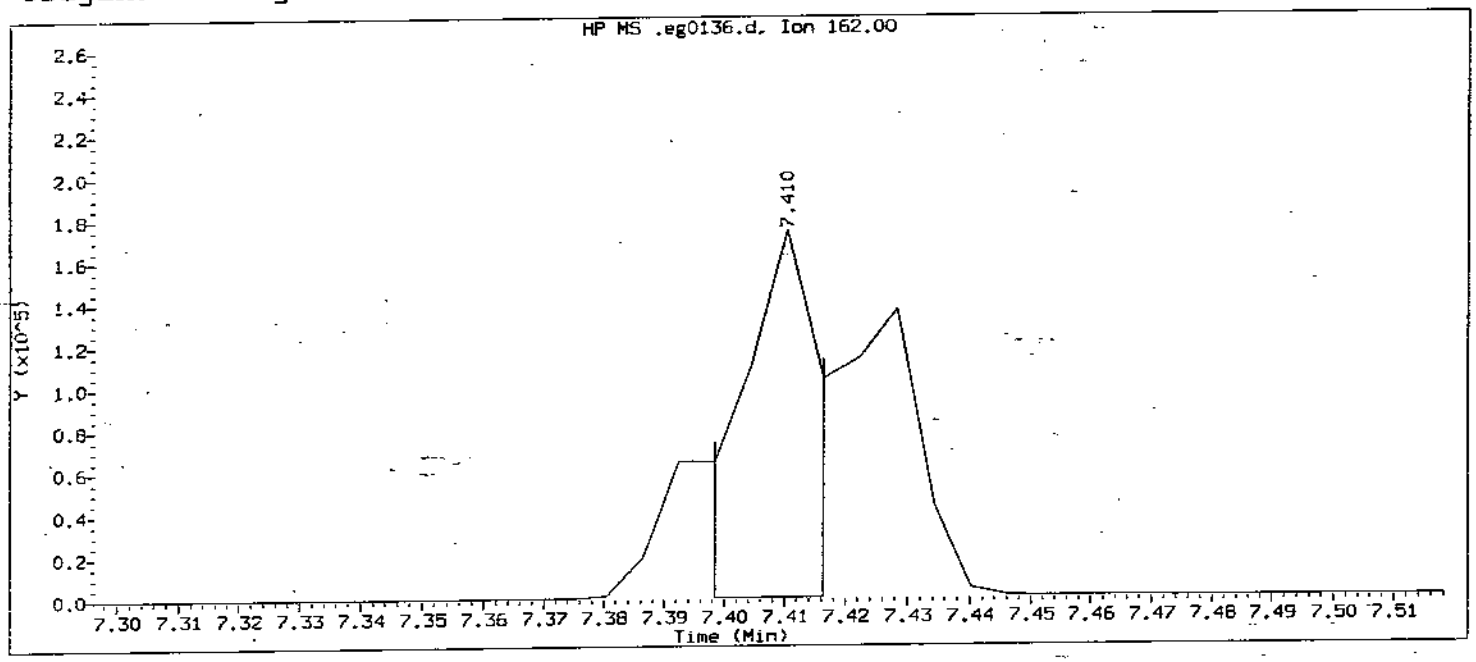
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0136.d, generated on 07/06/2011 at 01:31

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:01
Date, time and analyst ID of latest file update: 06-Jul-2011 00:01 Automation

Sample Name: SSTD015 Lab Sample ID: STD1731

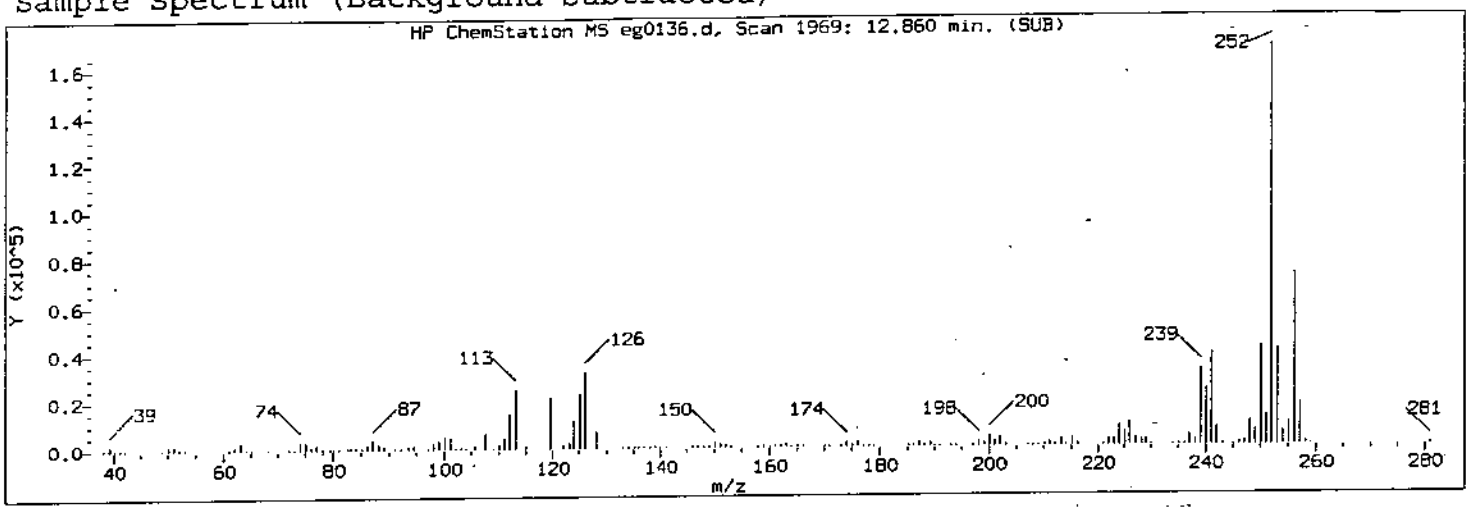
7-5-11

Compound Number : 86
Compound Name : 1-Chloronaphthalene
Scan Number : 1058
Retention Time (minutes): 7.410
Quant Ion : 162
Area : 131660
Concentration (ng/ul) : 13.7349
Integration start scan : 1055 Integration stop scan: 1058
Y at integration start : 54 Y at integration end: 72

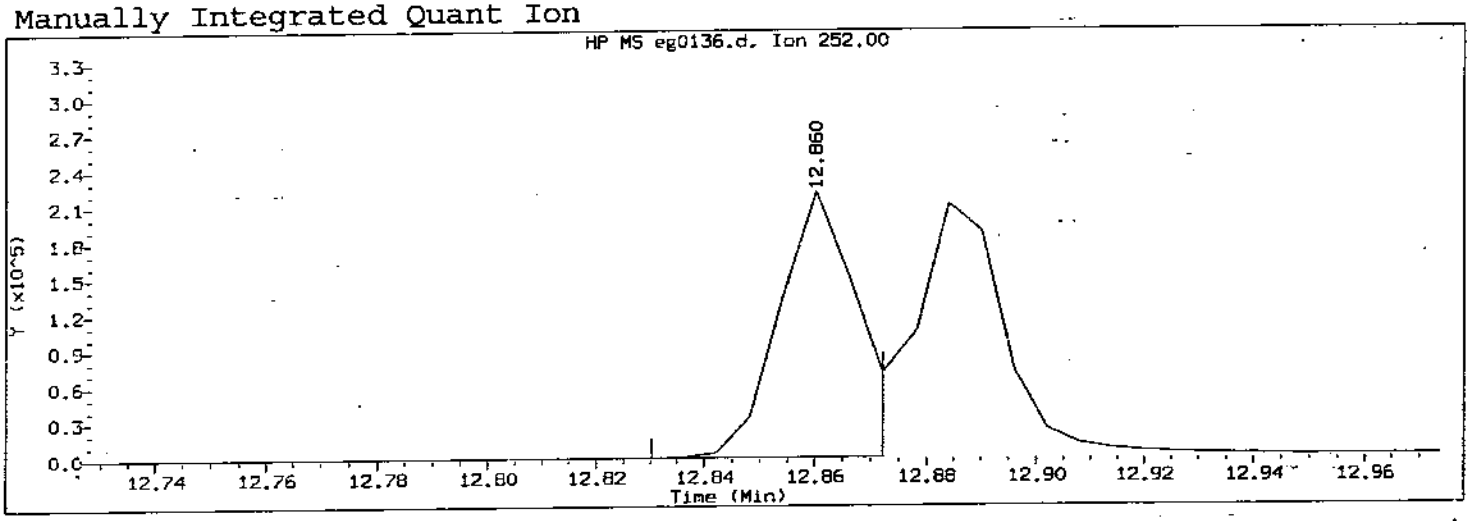
USF03 0347

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0136.d, generated on 07/06/2011 at 01:31

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD015 Lab Sample ID: STD1731

Compound Number : 173
Compound Name : Benzo(b)fluoranthene
Scan Number : 1969
Retention Time (minutes): 12.860
Quant Ion : 252
Area (flag) : 208546A
Concentration (ng/ul) : 13.5203
Integration start scan : 1963 Integration stop scan: 1970
Y at integration start : 0 Y at integration end: 162

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: _____ 7-5-11

USF83 8348

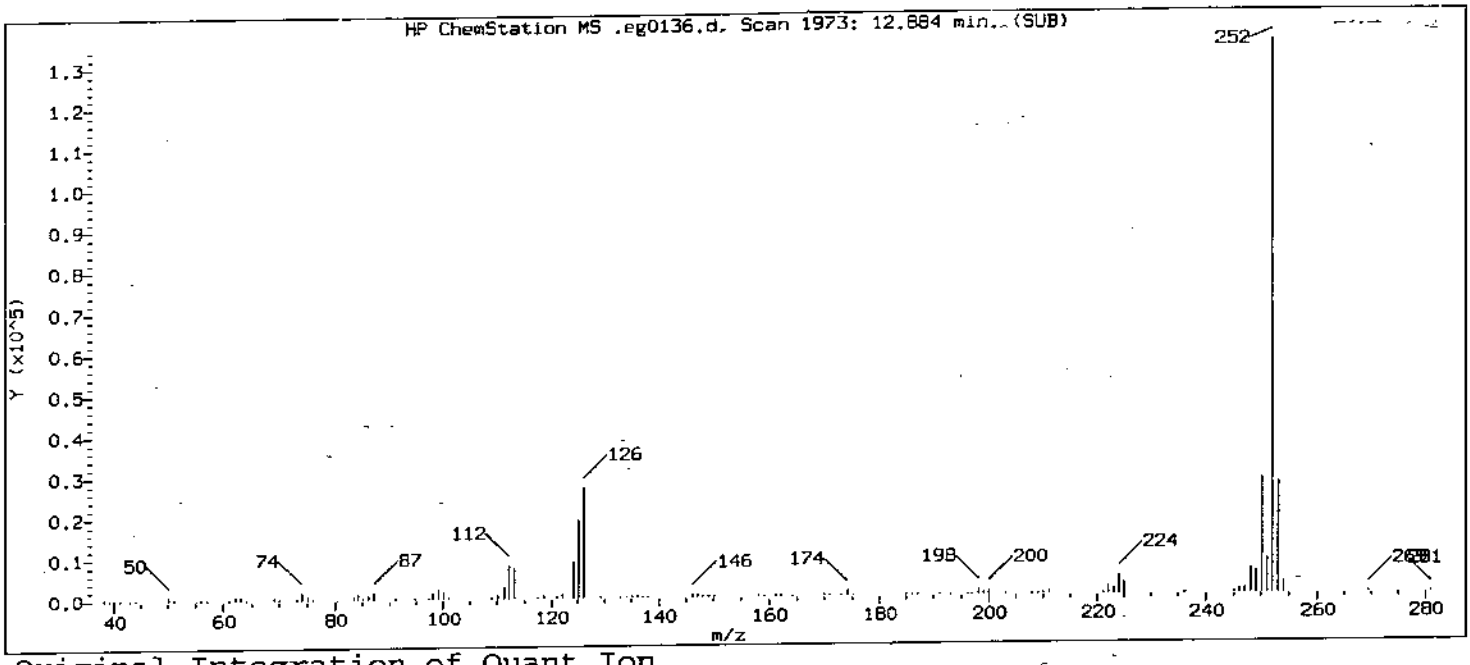
GC/MS audit/management approval: _____

JUL 07 2011

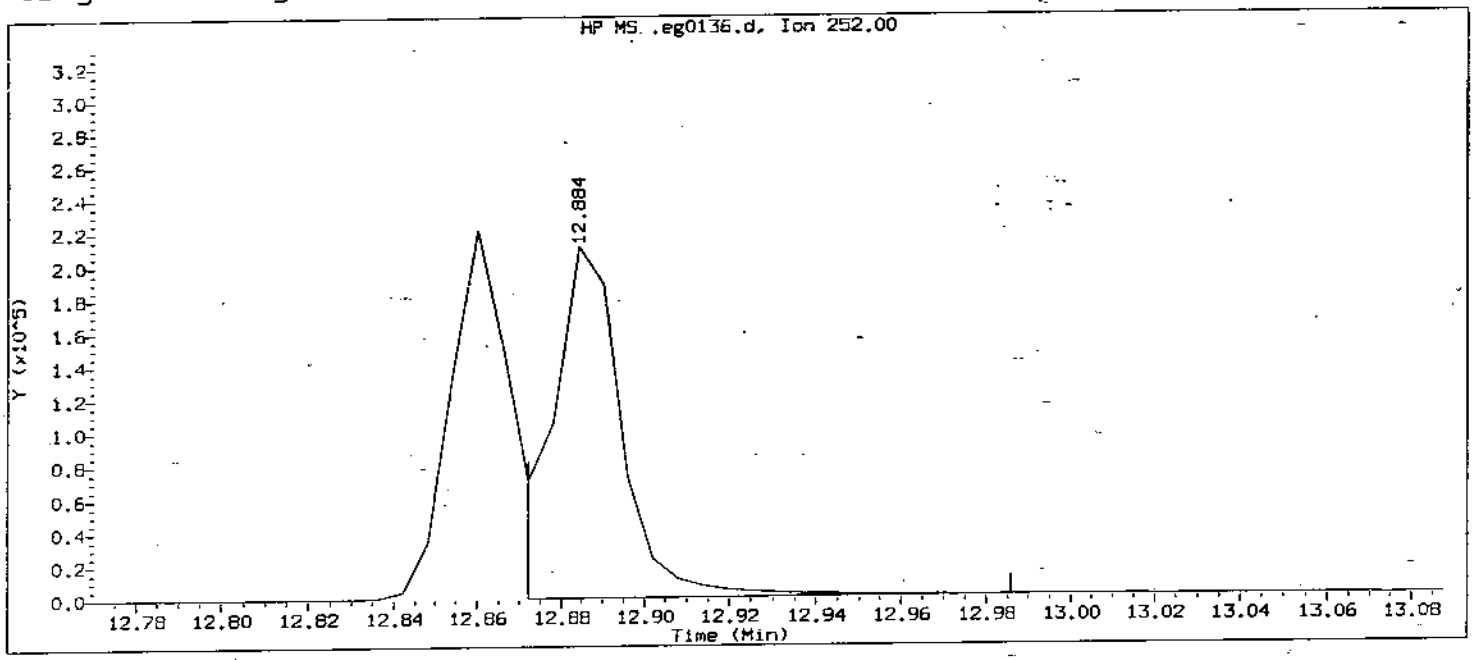
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0136.d, generated on 07/06/2011 at 01:31

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0136.d Instrument ID: HP09572.i
Injection date and time: 05-JUL-2011 23:42 Analyst ID: rpb01568

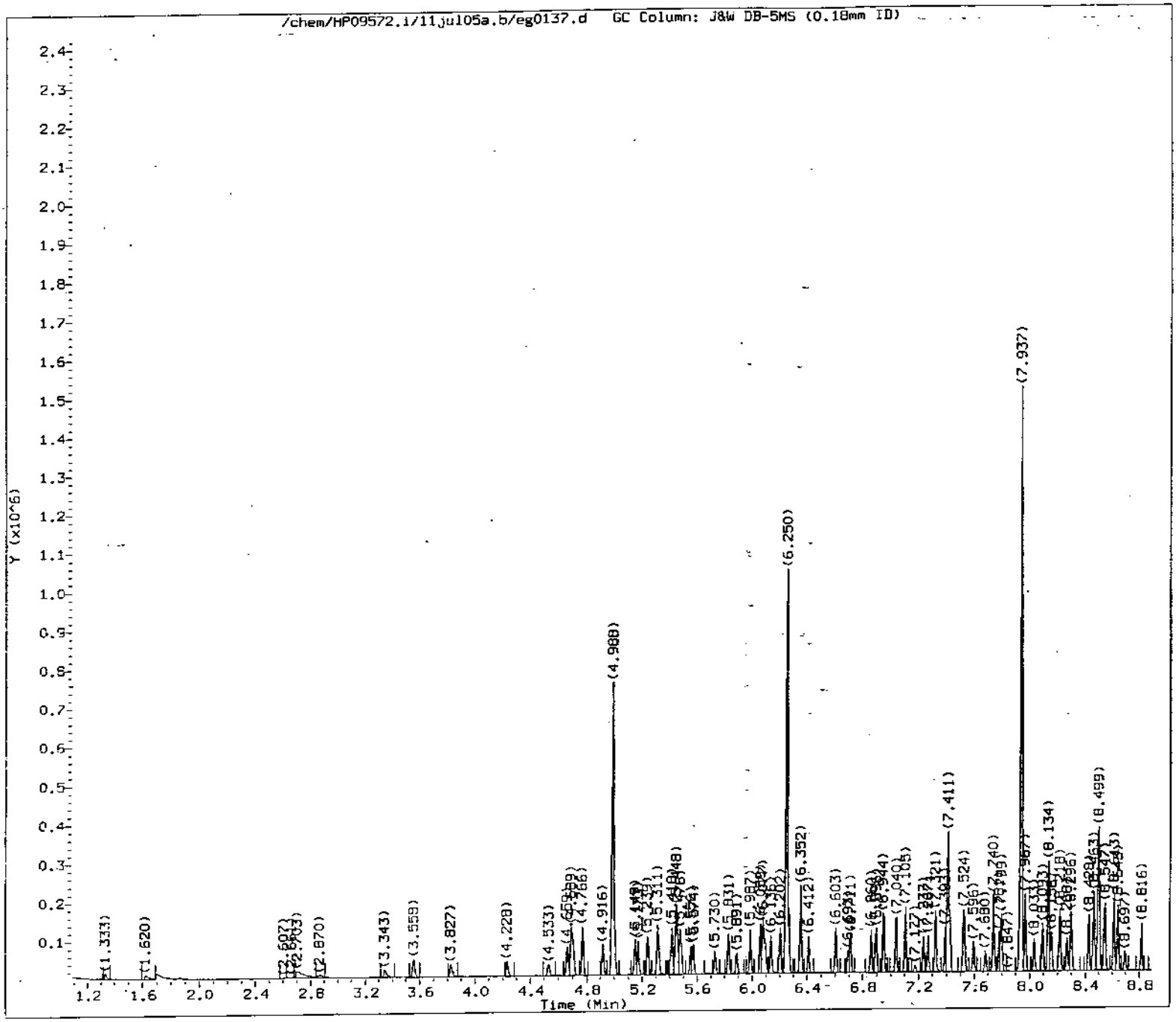
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:01
Date, time and analyst ID of latest file update: 06-Jul-2011 00:01 Automation

Sample Name: SSTD015 Lab Sample ID: STD1731

Compound Number	: 173
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1973
Retention Time (minutes)	: 12.884
Quant Ion	: 252
Area	: 240606
Concentration (ng/ul)	: 14.8705
Integration start scan	: 1970 Integration stop scan: 1989
Y at integration start	: 162 Y at integration end: 226

USF03 0349

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0136.d, generated on 07/06/2011 at 01:31



Quant Report

Target Revision 3.5

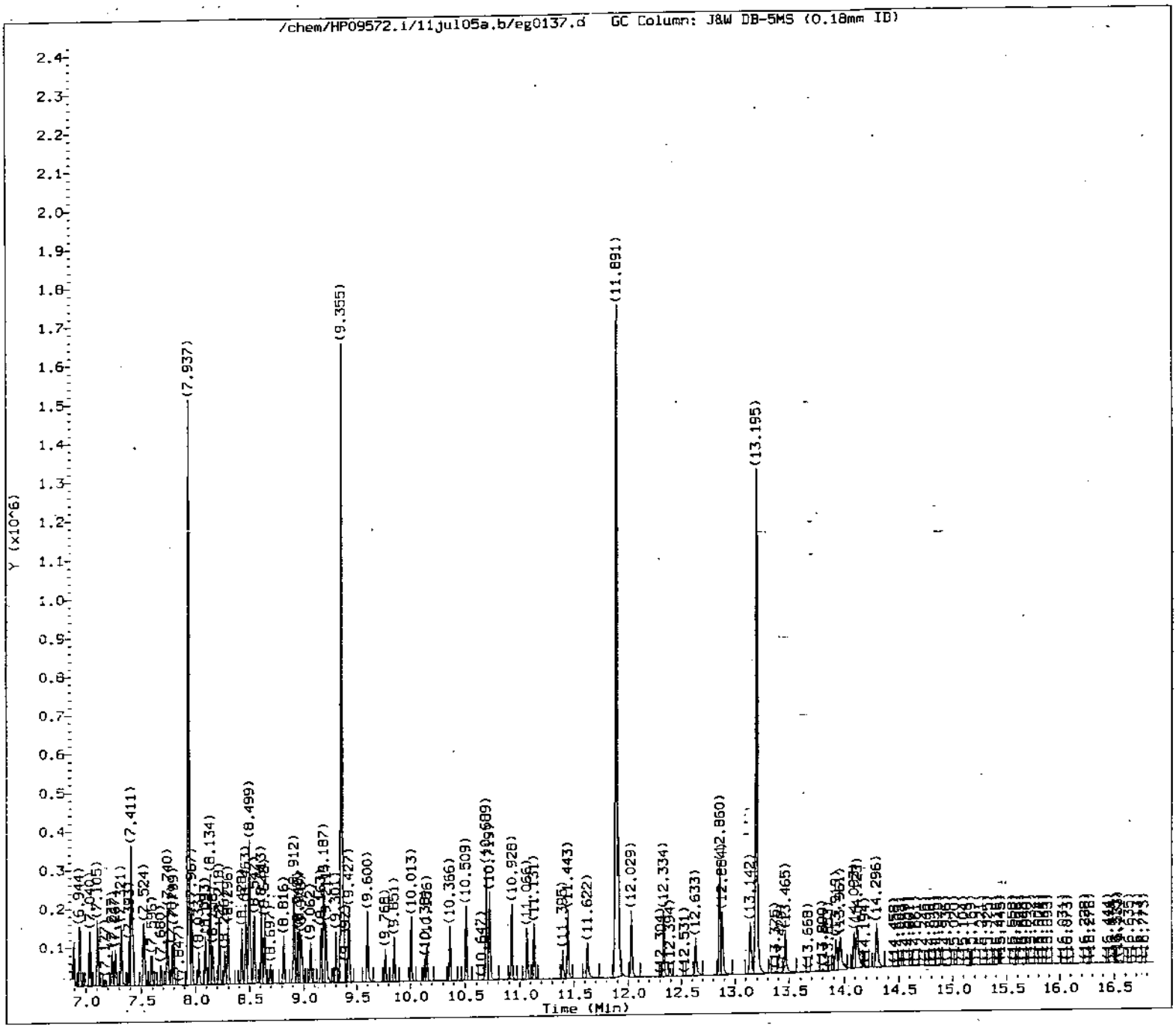
Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

7-5-11

USF03 0359



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

7-5-11

USEPA 0051

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.333	88	6609	4.8621
3) N-Nitrosodimethylamine	(1)	1.626	74	11272	4.5555
4) Pyridine	(1)	1.703	79	18765M	4.8001
6) 2-Picoline	(1)	2.703	93	18761M	4.9393
2) N-Nitrosomethylethylamine	(1)	2.876	88	7078	4.3047
8) Methyl methanesulfonate	(1)	3.343	80	10600	4.5337
9) N-Nitrosodiethylamine	(1)	3.827	102	8431	4.5530
15) Ethyl methanesulfonate	(1)	4.228	109	9345	5.0251
22) Phenol	(1)	4.707	94	23588	4.5530
21) Aniline	(1)	4.659	93	27392	4.5647
33) Pentachloroethane	(1)	4.689	167	5369	4.5230
23) bis(2-Chloroethyl)ether	(1)	4.766	93	18383	4.6357
24) 2-Chlorophenol	(1)	4.772	128	15186	4.2695
26) 1,3-Dichlorobenzene	(1)	4.922	146	17295	4.6052
27) 1,4-Dichlorobenzene-d4	(1)	4.988	152	91592	40.0000
28) 1,4-Dichlorobenzene	(1)	5.006	146	18604	4.7881
31) Benzyl alcohol	(1)	5.173	108	11345	4.4930
32) 1,2-Dichlorobenzene	(1)	5.149	146	16944	4.5816
17) Indene	(1)	5.239	115	27995	4.6525
34) 2-Methylphenol	(1)	5.311	108	15624	4.4336
35) 2,2'-oxybis(1-Chloropropane)	(1)	5.323	45	21431	4.7668
36) bis(2-Chloroisopropyl)ether	(1)	5.323	45	21431	4.7668
30) N-Nitrosopyrrolidine	(1)	5.406	100	9416	4.3595
37) Acetophenone	(1)	5.418	105	25736	4.6799
38) N-Nitroso-di-n-propylamine	(1)	5.442	70	17183	4.5990
39) 4-Methylphenol	(1)	5.472	108	16352	4.1566
7) N-Nitrosomorpholine	(1)	5.454	56	12355	4.6193
40) o-Toluidine	(1)	5.448	106	28166	4.4706
41) Hexachloroethane	(1)	5.484	117	6753	4.5510
43) Nitrobenzene	(2)	5.574	77	22496	4.6757
18) N-Nitrosopiperidine	(2)	5.730	114	9464	4.7510
46) Isophorone	(2)	5.831	82	40938	4.7199
47) 2-Nitrophenol	(2)	5.891	139	7439	3.9101
48) 2,4-Dimethylphenol	(2)	5.987	107	18063	4.3785
93) O,O,O-triethylphosphorothioate	(2)	6.059	198	8819	4.6406
49) bis(2-Chloroethoxy)methane	(2)	6.077	93	22916	4.7707
50) Benzoic acid	(2)	6.094	105	38215	12.1128
51) 2,4-Dichlorophenol	(2)	6.136	162	14215	4.4133
52) 1,2,4-Trichlorobenzene	(2)	6.202	180	16082	4.7119
53) Naphthalene-d8	(2)	6.250	136	414678	40.0000
54) Naphthalene	(2)	6.268	128	53814	4.7895
56) 4-Chloroaniline	(2)	6.352	127	22255	4.5135
55) 2,6-Dichlorophenol	(2)	6.352	162	14049	4.3771

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	6.358	213	7774	4.1923
59)	Hexachlorobutadiene	(2)	6.412	225	7365	4.6402
65)	Quinoline	(2)	6.603	129	37122	4.8185
66)	Caprolactam	(2)	6.693	113	7340	4.5699
5)	N-Nitrosodi-n-butylamine	(2)	6.711	84	15403	4.2588
68)	4-Chloro-3-methylphenol	(2)	6.860	107	16667	4.4032
61)	Safrole	(2)	6.896	162	13815	4.4582
64)	cis-Isosafrole	(3)	7.177	162	2462	0.4889
69)	2-Methylnaphthalene	(2)	6.944	142	37126	4.6812
71)	1-Methylnaphthalene	(2)	7.040	142	36143	4.8034
72)	Hexachlorocyclopentadiene	(3)	7.105	237	5117	3.3694
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.105	216	16136	4.7549
62)	trans-Isosafrole	(3)	7.393	162	13970	3.7444
76)	2,4,6-Trichlorophenol	(3)	7.237	196	9796	4.3100
77)	2,4,5-Trichlorophenol	(3)	7.267	196	10943	4.1722
63)	Isosafrole	(3)	7.393	162	13970	4.2071
82)	Biphenyl	(3)	7.411	154	48056	4.7315
83)	Diphenyl	(3)	7.411	154	48056	4.7315
84)	1,1'-Biphenyl	(3)	7.411	154	48056	4.7315
85)	2-Chloronaphthalene	(3)	7.411	162	50172M	5.3095
86)	1-Chloronaphthalene	(3)	7.423	162	41620M	4.7297
87)	Diphenyl ether	(3)	7.518	170	25871	4.8379
88)	2-Nitroaniline	(3)	7.530	138	10975	4.0943
60)	1,4-Naphthoquinone	(3)	7.596	158	11448	3.7133
57)	1,4-Dinitrobenzene	(3)	7.680	168	4512	3.4645
92)	Dimethylphthalate	(3)	7.740	163	46064	4.8680
58)	1,3-Dinitrobenzene	(3)	7.746	168	5854	3.6987
98)	2,6-Dinitrotoluene	(3)	7.781	165	9310	4.2529
100)	Acenaphthylene	(3)	7.799	152	54303	4.5180
102)	3-Nitroaniline	(3)	7.925	138	10162	4.1625
103)	Acenaphthene-d10	(3)	7.937	164	281410	40.0000
106)	Acenaphthene	(3)	7.967	153	38027	4.7906
107)	2,4-Dinitrophenol	(3)	8.033	184	9340	9.8273
110)	Pentachlorobenzene	(3)	8.093	250	14417	4.9257
109)	4-Nitrophenol	(3)	8.134	109	12642	7.9627
112)	Dibenzofuran	(3)	8.134	168	53131	4.7174
113)	2,4-Dinitrotoluene	(3)	8.158	165	12016	4.1713
114)	1-Naphthylamine	(3)	8.218	143	40776	4.5114
115)	2,3,4,6-Tetrachlorophenol	(3)	8.266	232	8369	4.2265
117)	2-Naphthylamine	(3)	8.296	143	42264	4.5770
118)	Diethylphthalate	(3)	8.428	149	43031	4.7527
119)	Fluorene	(3)	8.463	166	44385	4.6218
29)	Thionazin	(3)	8.499	107	9073	4.9157

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0353

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	8.499	204	20925	4.7465
70)	5-Nitro-o-toluidine	(3)	8.499	152	12606	4.2636
121)	4-Nitroaniline	(3)	8.505	138	12551	4.6800
122)	4,6-Dinitro-2-methylphenol	(4)	8.541	198	9850	6.4813
67)	1-Nitronaphthalene	(4)	8.547	173	8683	4.3937
123)	N-Nitrosodiphenylamine	(4)	8.613	169	39834	4.6089
124)	NDPA as diphenylamine	(4)	8.613	169	39448	4.5764
125)	1,2-Diphenylhydrazine	(4)	8.643	77	55950	4.5313
108)	Tetraethyldithiopyrophosphate	(4)	8.816	97	7147	4.1177
81)	1,3,5-Trinitrobenzene	(4)	8.906	213	2730	2.6551
78)	Diallate (peak 1)	(4)	8.906	86	17554	3.2489
75)	Phorate	(4)	8.912	75	37156	3.7247
80)	Phenacetin	(4)	8.942	108	23964	4.3148
131)	4-Bromophenyl-phenylether	(4)	8.960	248	11270	4.3874
13)	Diallate (peak 2)	(4)	8.990	86	3287	1.0083
132)	Hexachlorobenzene	(4)	8.978	284	11814	4.7555
96)	Dimethoate	(4)	9.062	87	17289	4.3691
135)	Pentachlorophenol	(4)	9.187	266	19265	12.3763
136)	Pentachloronitrobenzene	(4)	9.193	237	5244	4.5858
105)	4-Aminobiphenyl	(4)	9.211	169	43911	4.8091
97)	Pronamide	(4)	9.301	173	17339	3.9957
140)	Phenanthrene-d10	(4)	9.355	188	503030	40.0000
141)	Phenanthrene	(4)	9.379	178	69717	4.6962
137)	Dinoseb	(4)	9.397	211	4970	2.5666
143)	Anthracene	(4)	9.427	178	67471	4.4586
145)	Carbazole	(4)	9.600	167	64512	4.5830
149)	Methyl parathion	(4)	9.768	109	10455	3.5578
148)	Di-n-butylphthalate	(4)	10.013	149	66278	4.1433
150)	Parathion	(4)	10.156	109	7399	3.4914
133)	4-Nitroquinoline-1-oxide	(4)	10.138	190	2177	2.0283
99)	Isodrin	(4)	10.366	193	6706	4.2157
153)	Fluoranthene	(4)	10.509	202	67365	4.5296
154)	Benzidine	(5)	10.689	184	100981	11.1010
155)	Pyrene	(5)	10.719	202	75388	4.5713
147)	p-Dimethylaminoazobenzene	(5)	11.066	225	12203	3.8015
144)	Chlorobenzilate	(5)	11.131	139	20747	4.0847
161)	3,3'-Dimethylbenzidine	(5)	11.395	212	24519	2.9339
162)	Butylbenzylphthalate	(5)	11.443	149	29879	4.0797
101)	2-Acetylaminofluorene	(5)	11.622	181	20575	3.2379
165)	3,3'-Dichlorobenzidine	(5)	11.897	252	22296	4.0631
164)	Benzo(a)anthracene	(5)	11.879	228	66677	4.5351
167)	4,4'-Methylenebis(2-Chloroanil	(5)	11.909	231	10238	3.6314
166)	Chrysene-d12	(5)	11.891	240	535809	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0354

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

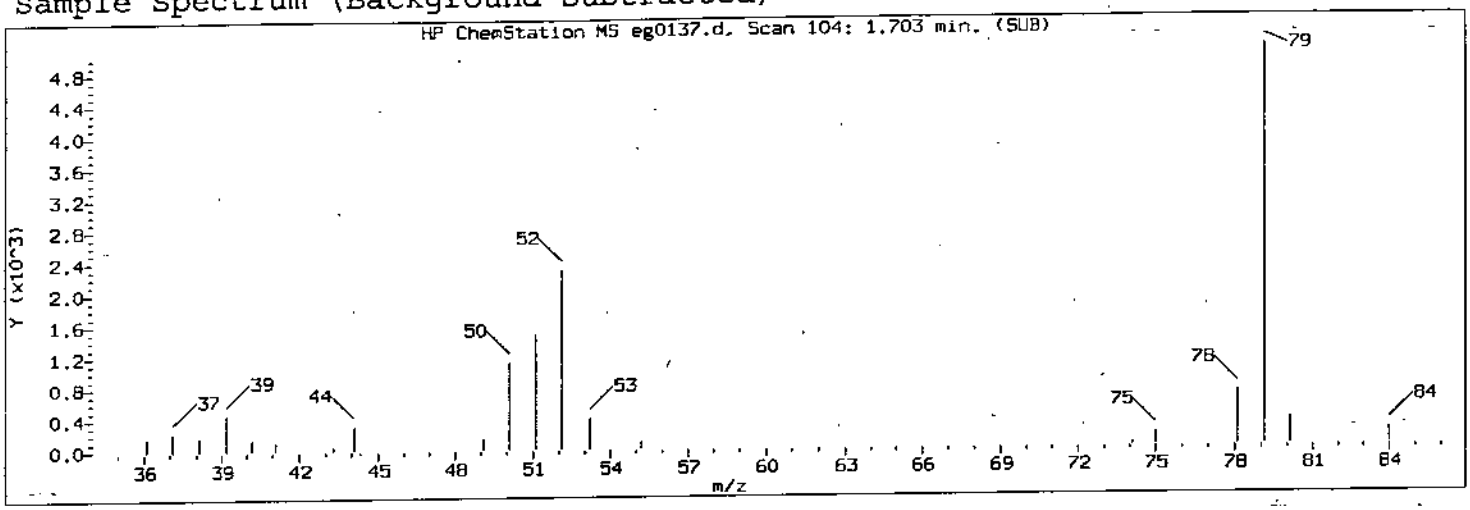
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

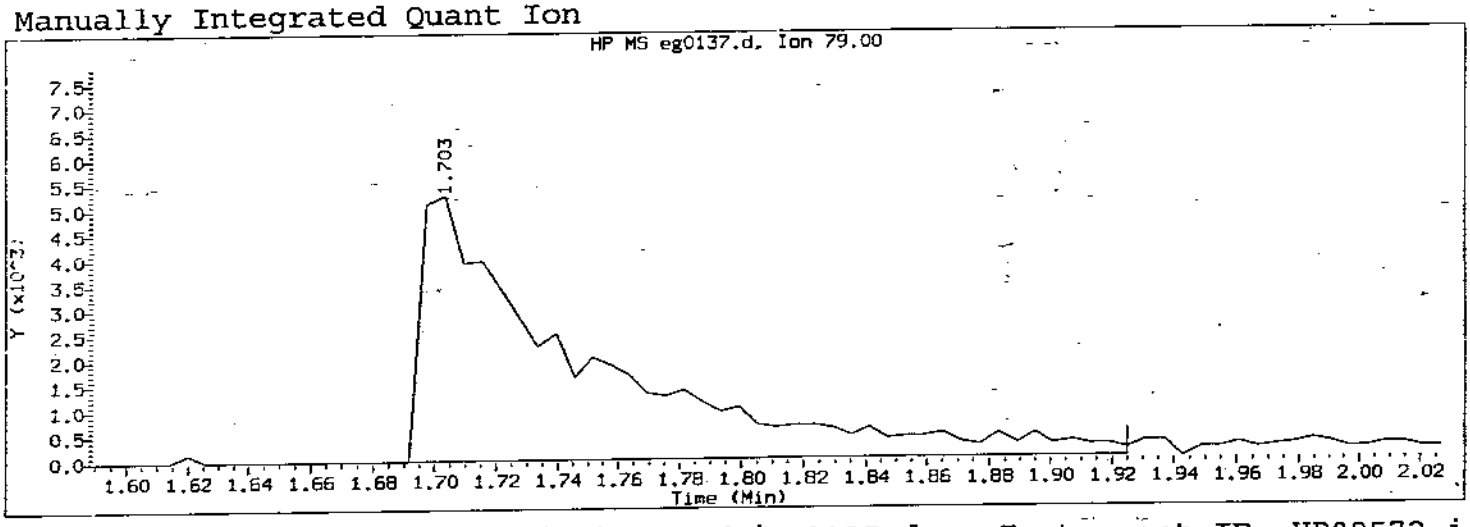
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168) Chrysene	(5)	11.909	228	72650	4.7171
169) bis(2-Ethylhexyl)phthalate	(5)	12.029	149	38441	3.9119
170) 6-Methylchrysene	(5)	12.334	242	46092	4.4416
172) Di-n-octylphthalate	(6)	12.633	149	49035	3.1212
174) 7,12-Dimethylbenz[a]anthracene	(6)	12.860	256	28143	3.9298
173) Benzo(b)fluoranthene	(6)	12.860	252	62375	4.2504
175) Benzo(k)fluoranthene	(6)	12.884	252	65610	4.3295
176) Benzo(a)pyrene	(6)	13.142	252	59289	4.3450
177) Perylene-d12	(6)	13.195	264	498401	40.0000
180) 3-Methylcholanthrene	(6)	13.465	268	29439	3.9651
181) Dibenz(a,h)acridine	(6)	13.919	279	34810	3.6587
183) Dibenz(a,j)acridine	(6)	13.961	279	47632	4.0795
185) Indeno(1,2,3-cd)pyrene	(6)	14.093	276	61926	4.2265
187) Dibenz(a,h)anthracene	(6)	14.123	278	53031	4.1883
188) Benzo(g,h,i)perylene	(6)	14.296	276	55917	4.3878
194) Diallate TRANS/CIS	(4)	23.556	86	20841	4.2572
11) 2-Fluorophenol	(1)	3.558	112	14384	4.4099
19) Phenol-d5	(1)	4.689	99	20872	4.4115
20) Phenol-d6	(1)	4.689	99	20872	4.4115
42) Nitrobenzene-d5	(2)	5.556	82	21616	4.6007
79) 2-Fluorobiphenyl	(3)	7.321	172	40893	4.7659
126) 2,4,6-Tribromophenol	(3)	8.697	330	4003	4.1228
157) Terphenyl-d14	(5)	10.928	244	50912	4.4875

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

Compound Number	: 4
Compound Name	: Pyridine
Scan Number	: 104
Retention Time (minutes)	: 1.703
Quant Ion	: 79
Area (flag)	: 18765 M
Concentration (ng/ul)	: 4.8001
Integration start scan	: 101 Integration stop scan: 140
Y at integration start	: 7 Y at integration end: 24

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-5-11

GC/MS audit/management approval: _____

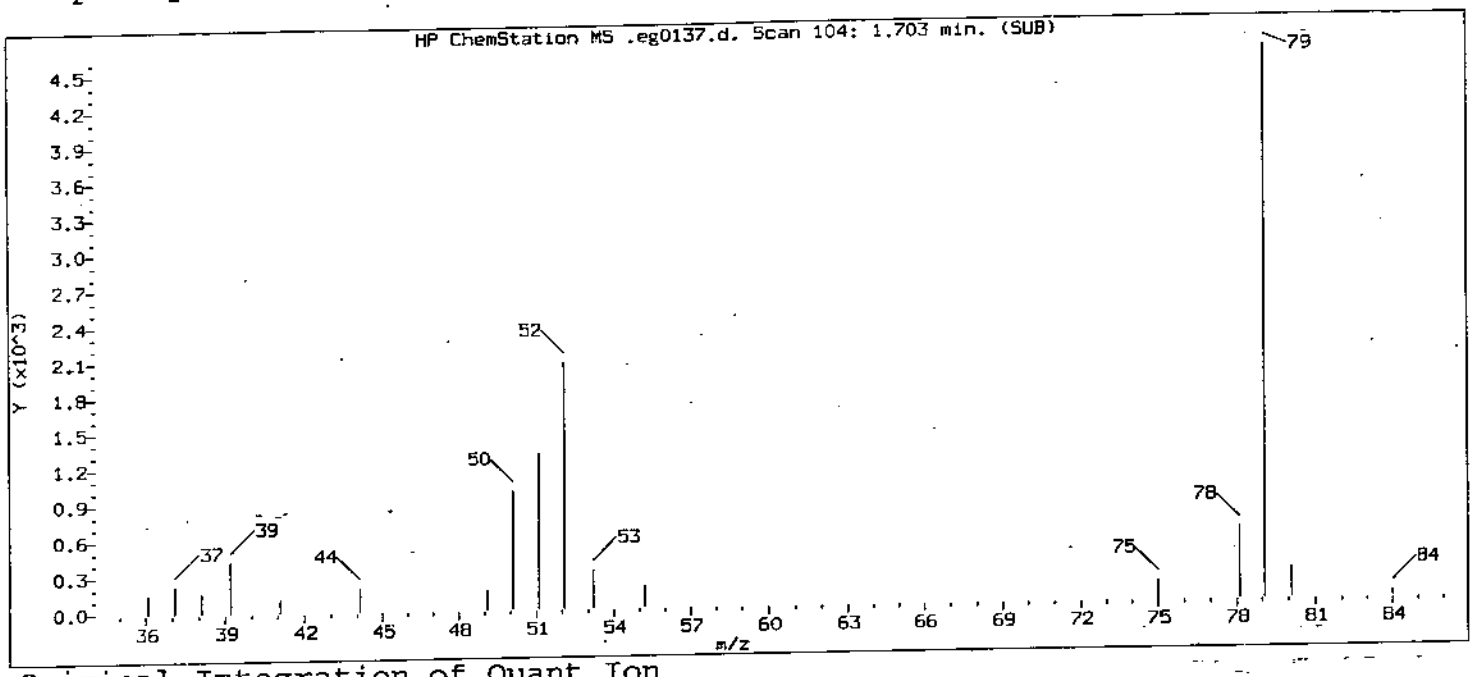
USEPA 0356

JUL 07 2011

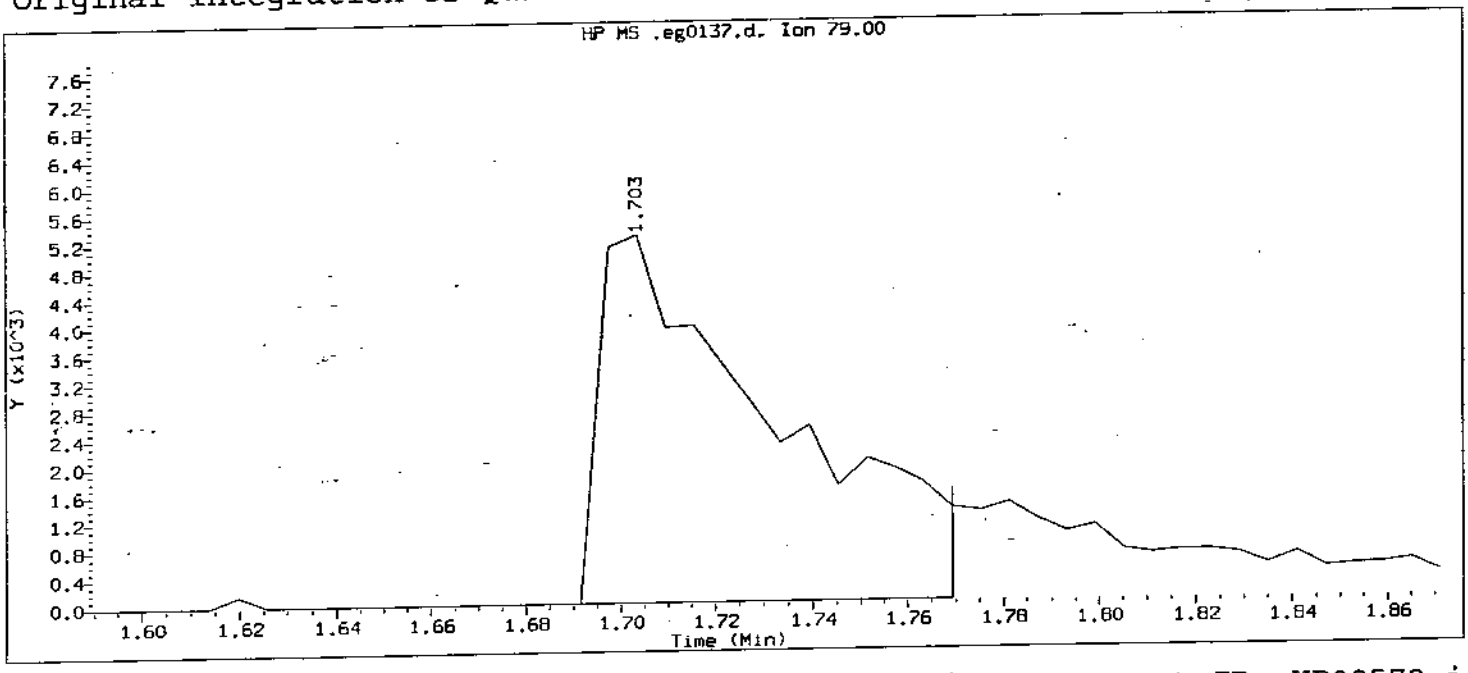
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0137.d, generated on 07/06/2011 at 01:32

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 00:26 Automation

Sample Name: SSTD005 Lab Sample ID: STD1731

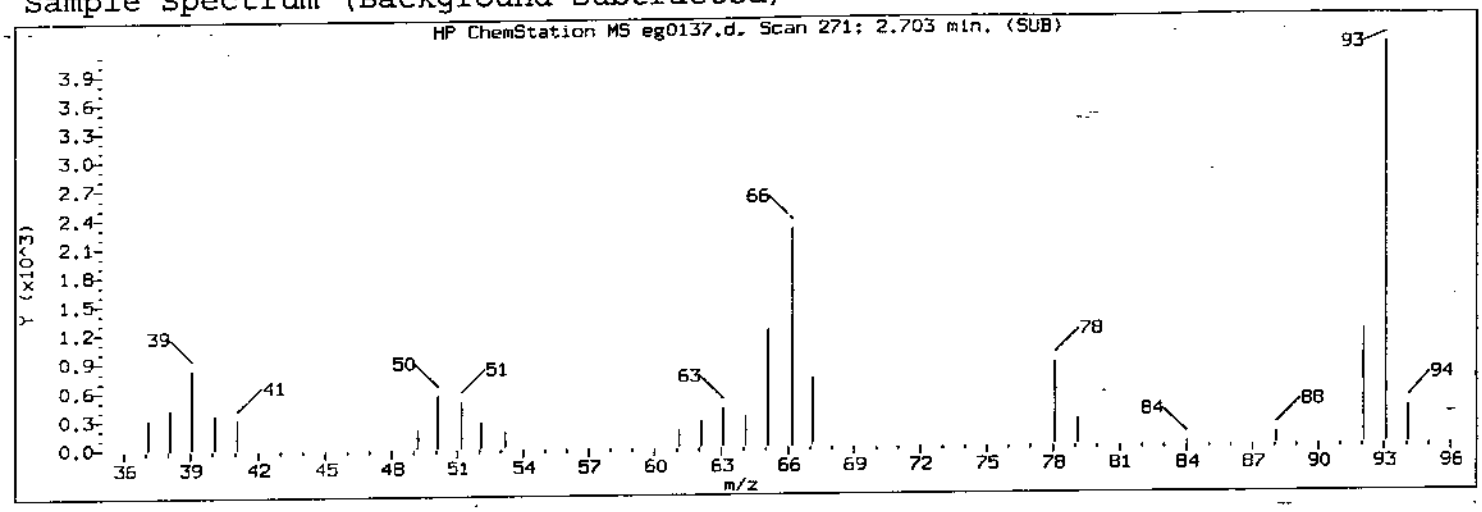
Compound Number	:	4
Compound Name	:	Pyridine
Scan Number	:	104
Retention Time (minutes)	:	1.703
Quant Ion	:	79
Area	:	13333
Concentration (ng/ul)	:	3.4114
Integration start scan	:	101
Integration stop scan	:	114
Y at integration start	:	0
Y at integration end	:	0

7-5-11

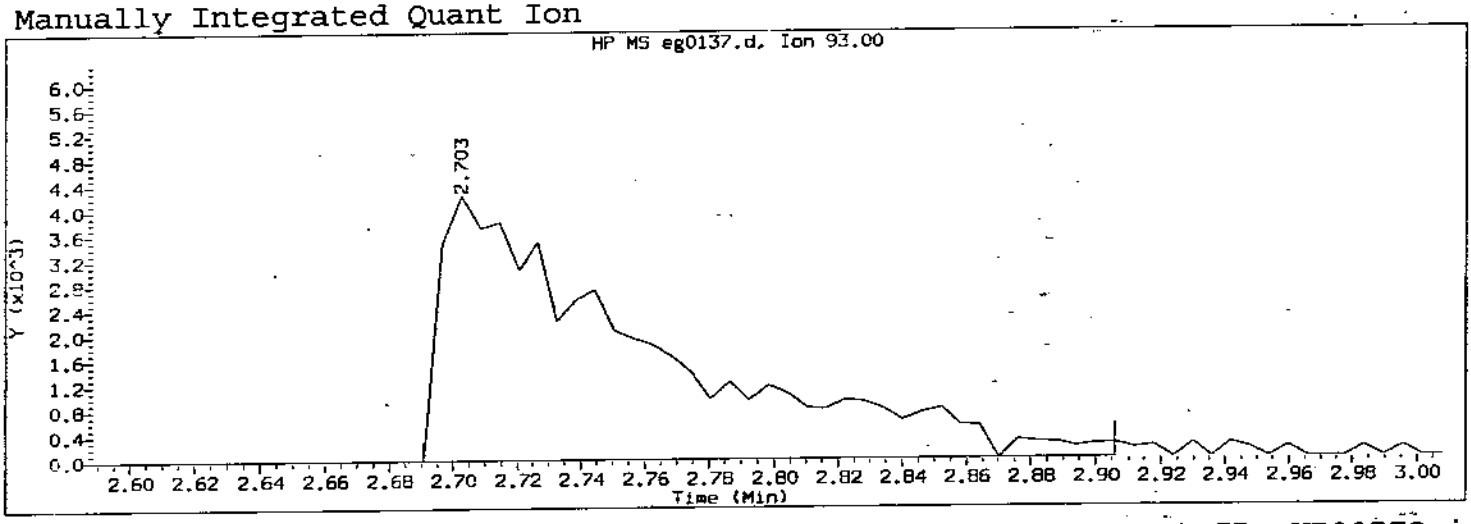
USF03 0357

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0137.d, generated on 07/06/2011 at 01:32

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

Compound Number : 6
Compound Name : 2-Picoline
Scan Number : 271
Retention Time (minutes): 2.703
Quant Ion : 93
Area (flag) : 18761 M
Concentration (ng/ul) : 4.9393
Integration start scan : 268 Integration stop scan: 304
Y at integration start : 5 Y at integration end: 5

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: _____ 7-5-11

USF03 0358

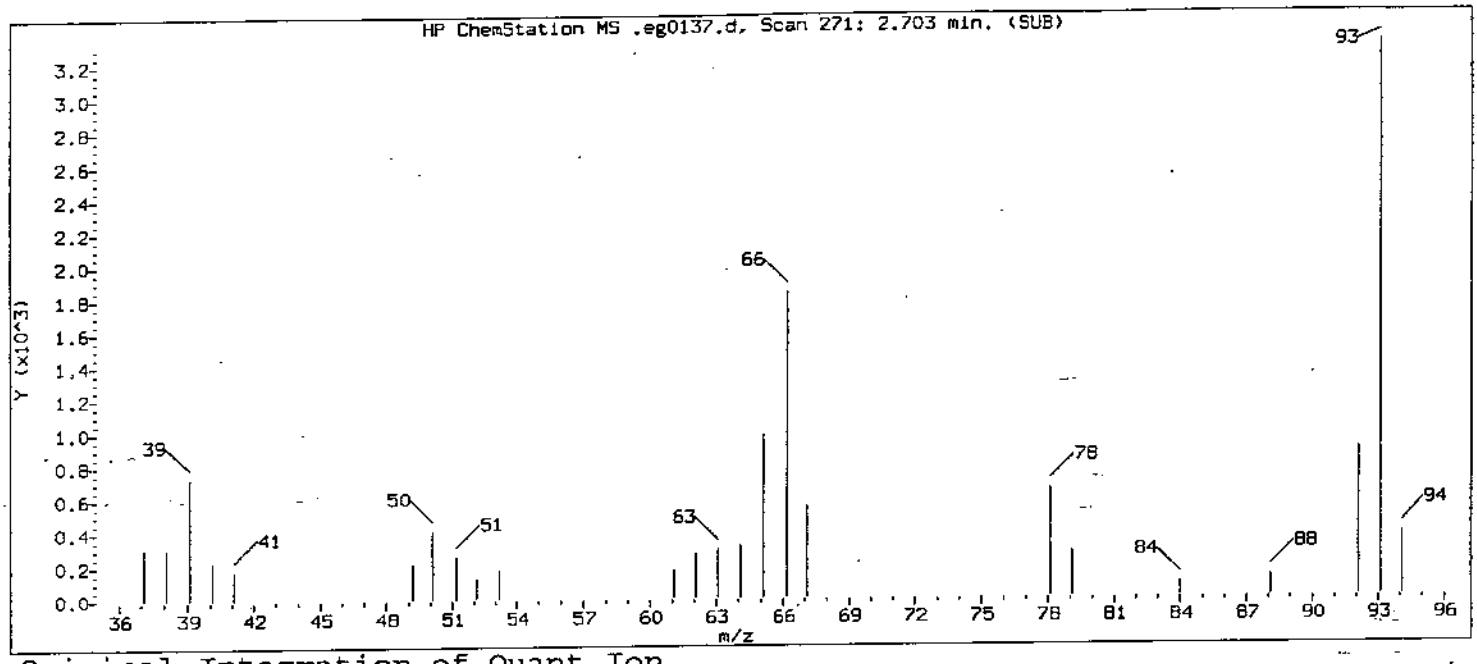
GC/MS audit/management approval: _____

JUL 07 2011

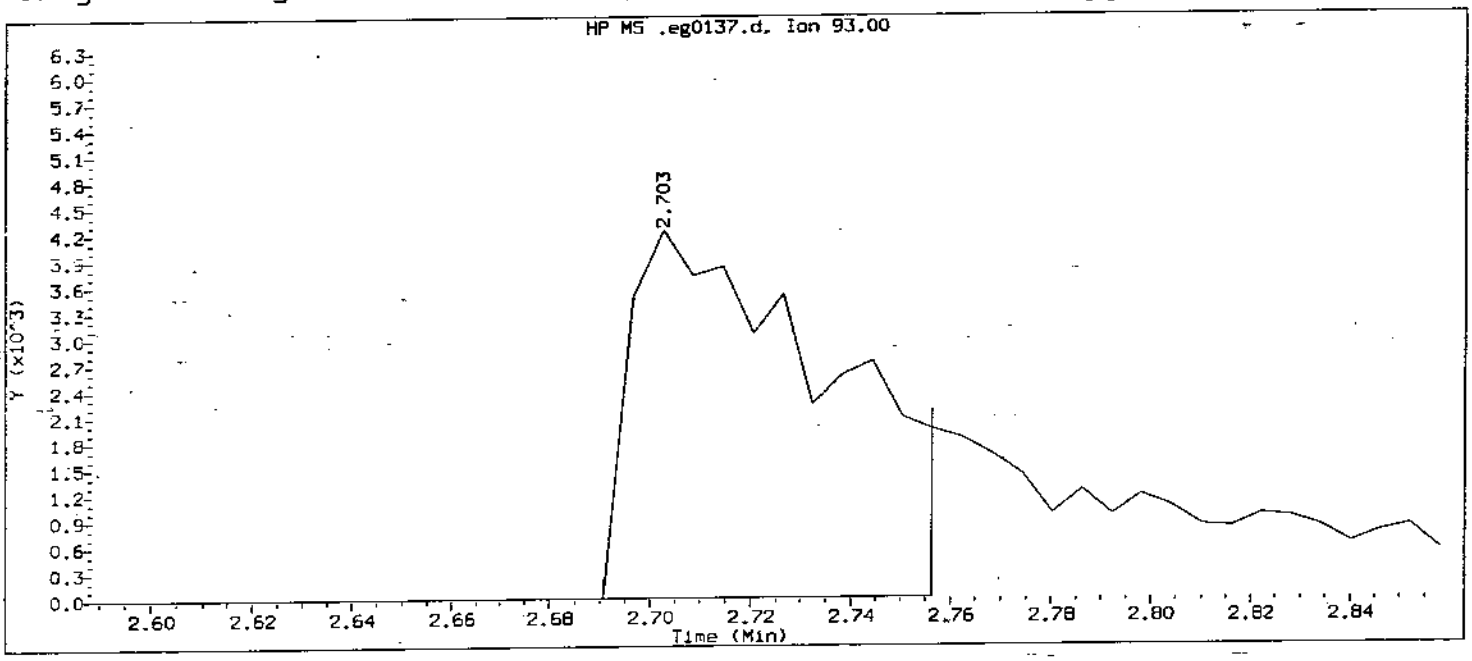
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0137.d, generated on 07/06/2011 at 01:32

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 00:26 Automation

Sample Name: SSTD005 Lab Sample ID: STD1731

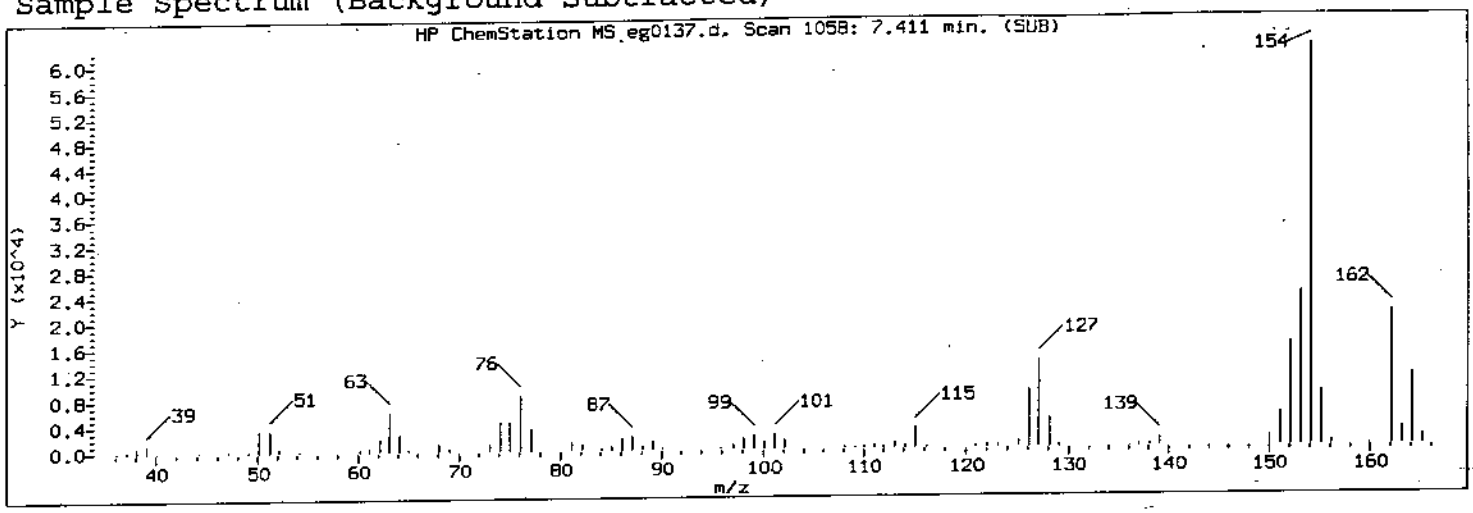
Compound Number : 6
Compound Name : 2-Picoline
Scan Number : 271
Retention Time (minutes): 2.703
Quant Ion : 93
Area : 11592
Concentration (ng/ul) : 3.0914
Integration start scan : 268 Integration stop scan: 279
Y at integration start : 0 Y at integration end: 0

7-5-11

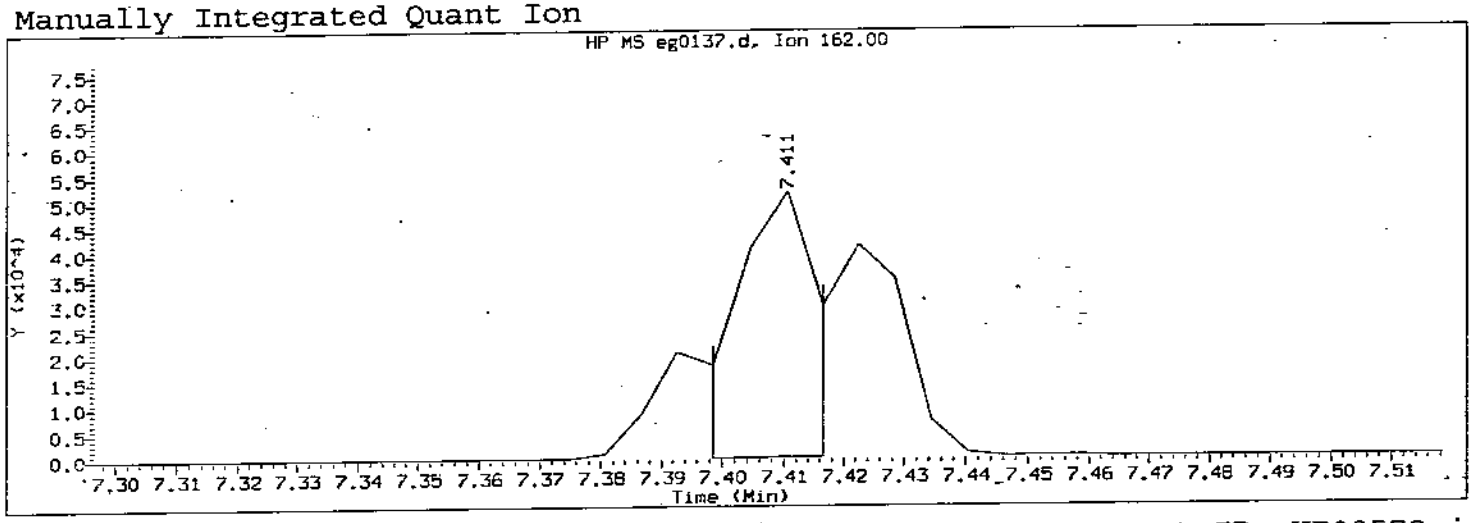
USF03 6359

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0137.d, generated on 07/06/2011 at 01:32

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

Compound Number	: 85
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1058
Retention Time (minutes)	: 7.411
Quant Ion	: 162
Area (flag)	: 50172 M
Concentration (ng/ul)	: 5.3095
Integration start scan	: 1055 Integration stop scan: 1058
Y at integration start	: 53 Y at integration end: 93

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-5-11

USF03 6368

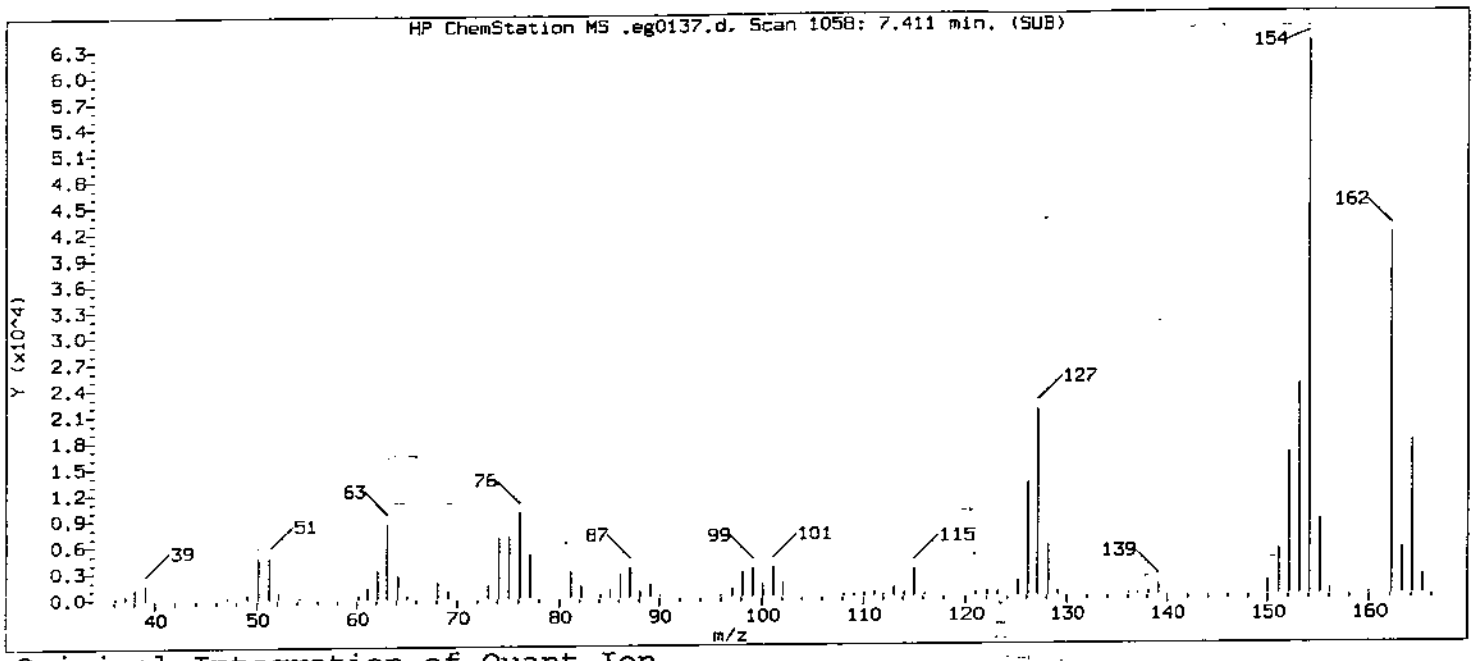
GC/MS audit/management approval: _____

JUL 07 2011

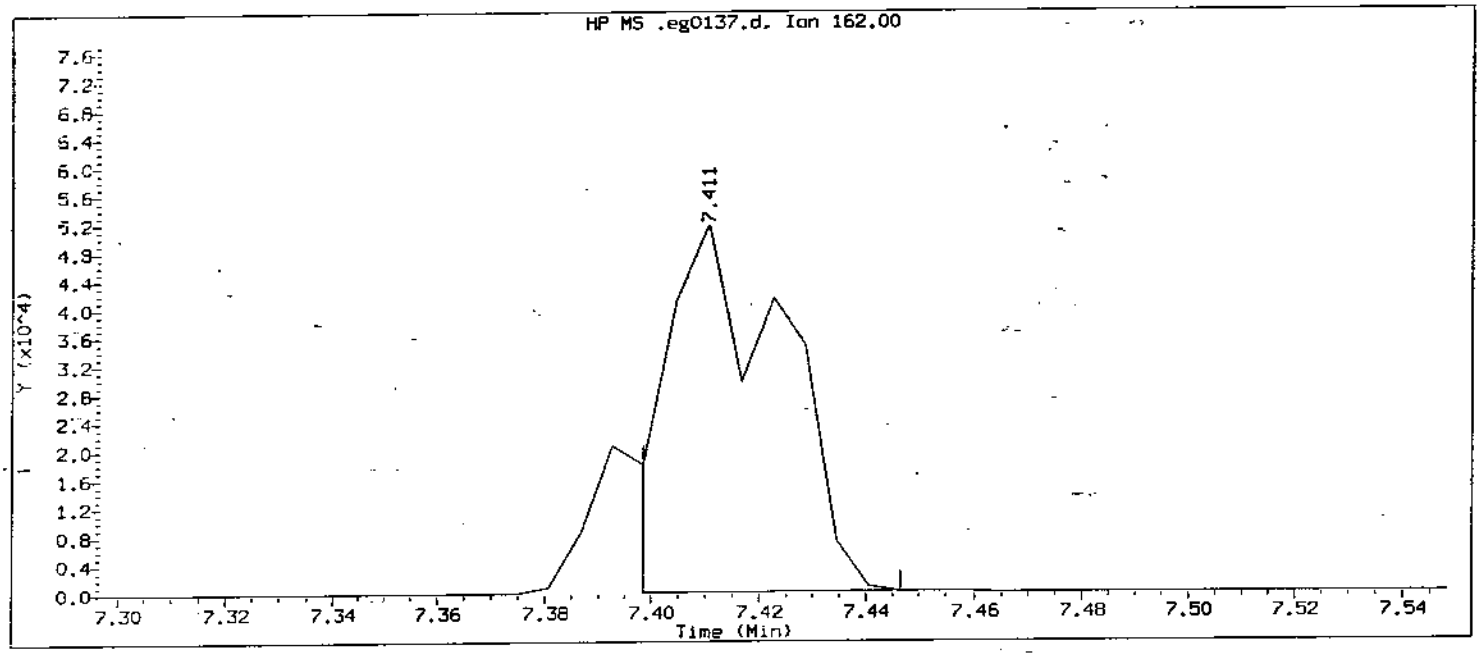
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0137.d, generated on 07/06/2011 at 01:32

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 00:26 Automation

Sample Name: SSTD005 Lab Sample ID: STD1731

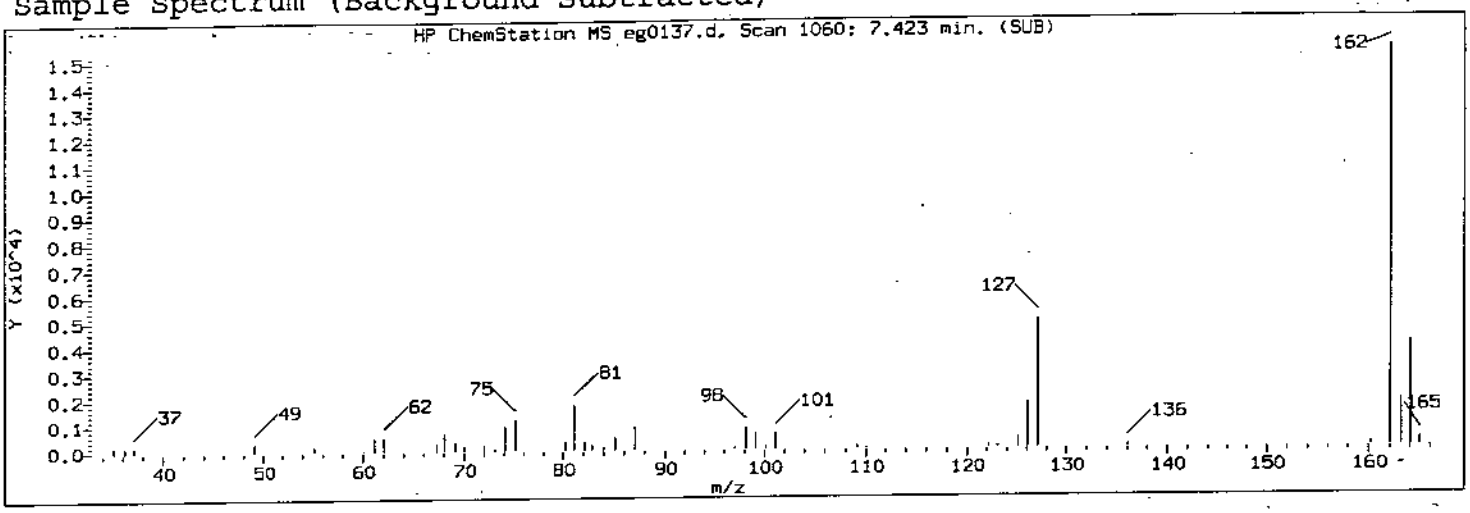
rpb1568 7-5-11

Compound Number : 85
Compound Name : 2-Chloronaphthalene
Scan Number : 1058
Retention Time (minutes): 7.411
Quant Ion : 162
Area : 76964
Concentration (ng/ul) : 6.9322
Integration start scan : 1055 Integration stop scan: 1063
Y at integration start : 53 Y at integration end: 161

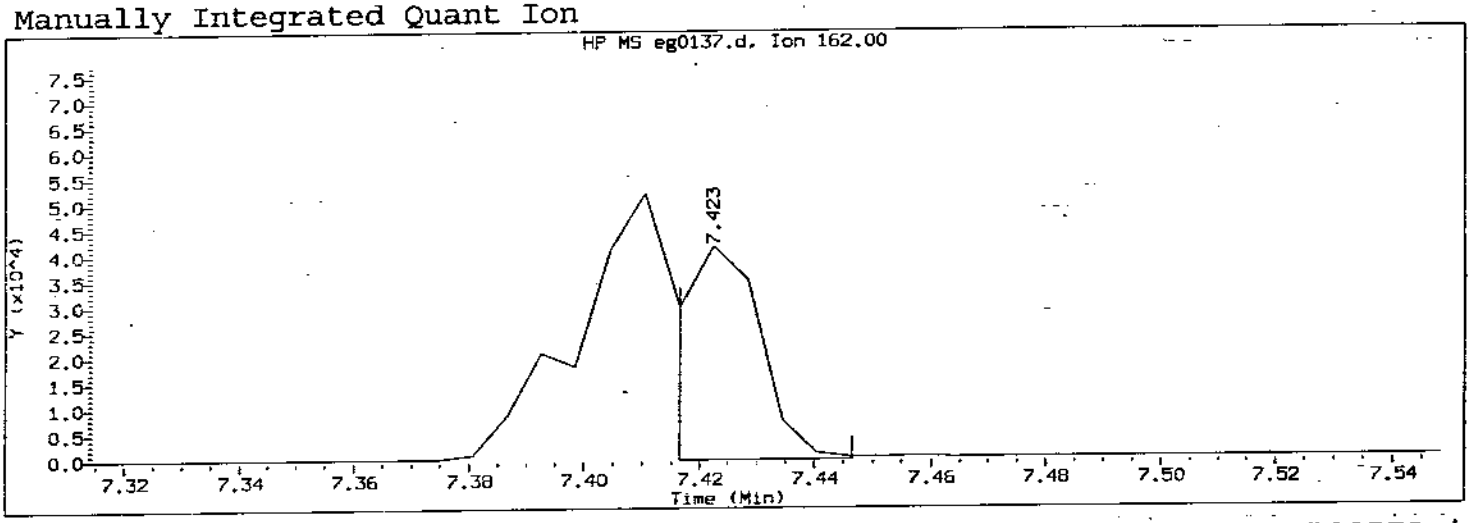
USP03 8361

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0137.d, generated on 07/06/2011 at 01:32

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 01:31
Date, time and analyst ID of latest file update: 06-Jul-2011 01:31 rpb01568

Sample Name: SSTD005 Lab Sample ID: STD1731

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1060
Retention Time (minutes)	:	7.423
Quant Ion	:	162
Area (flag)	:	41620 M
Concentration (ng/ul)	:	4.7297
Integration start scan	:	1058 Integration stop scan: 1063
Y at integration start	:	-358 Y at integration end: -358

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 7-5-11

USF03 0362

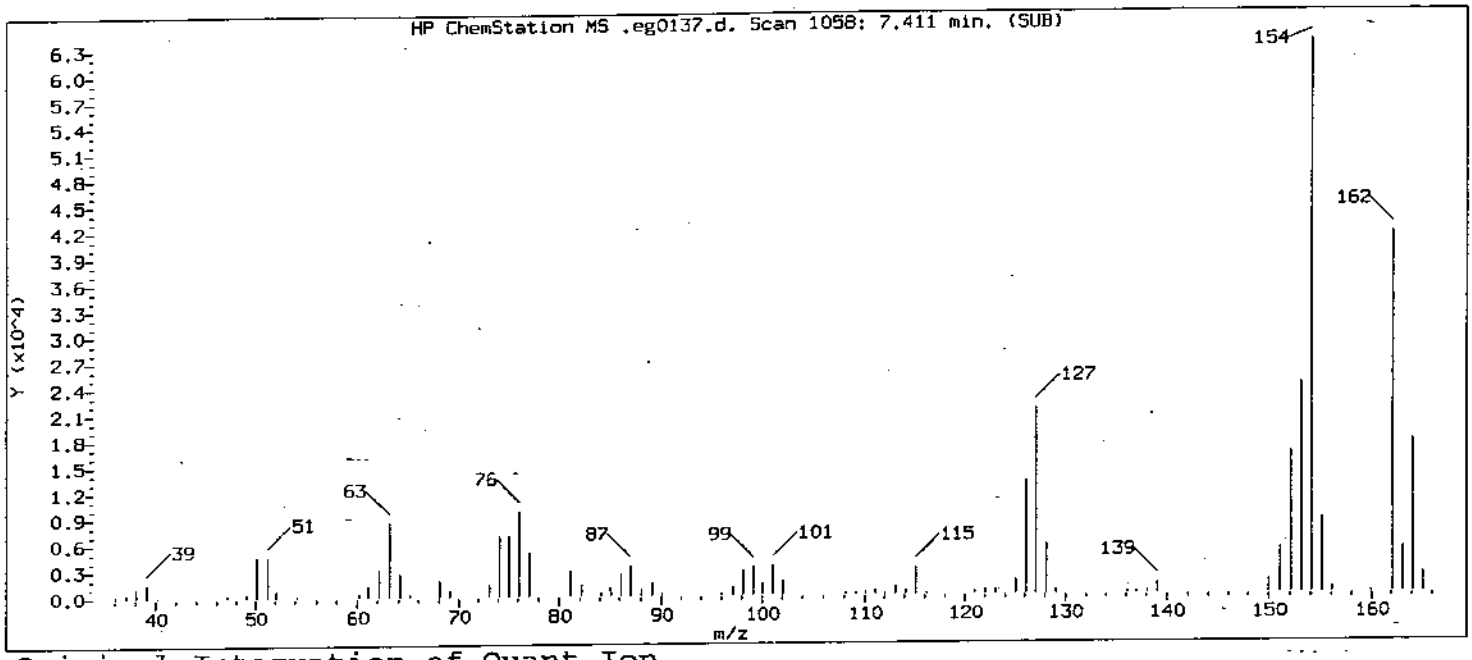
GC/MS audit/management approval:

JUL 07 2011

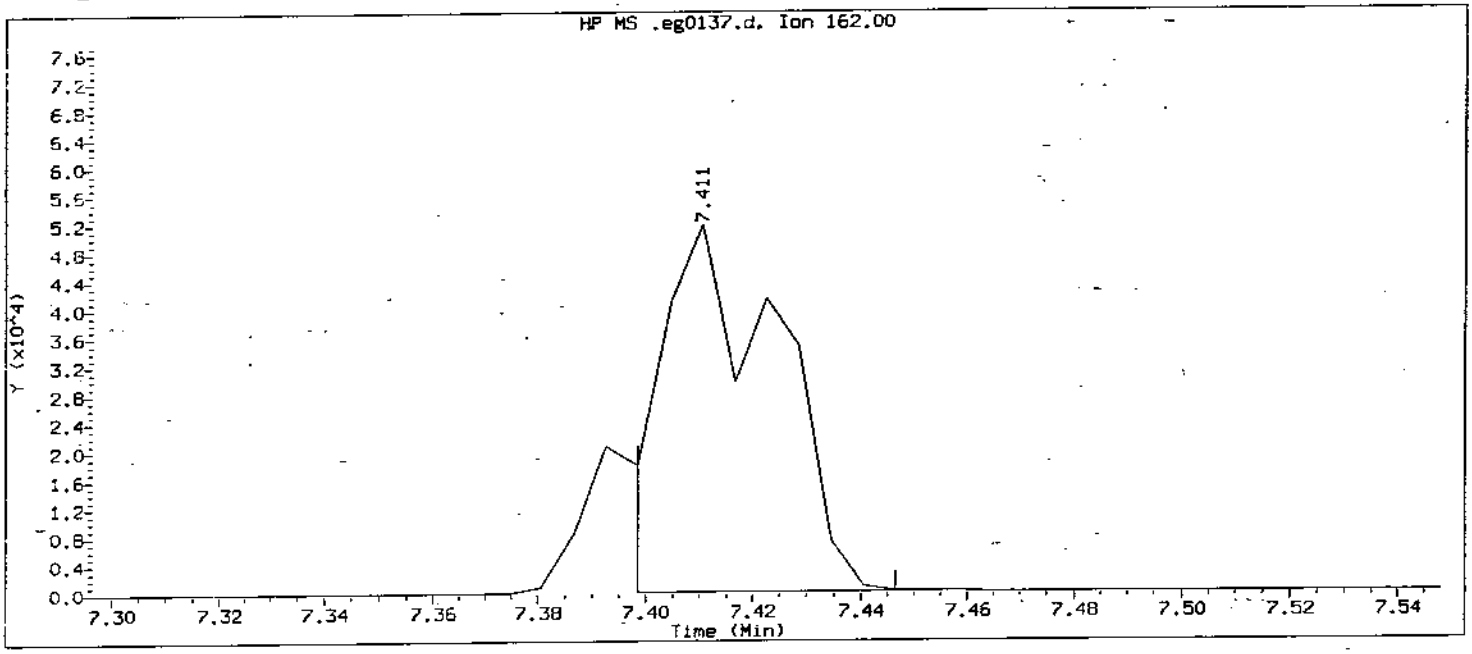
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0137.d, generated on 07/06/2011 at 01:32

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0137.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:07 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 00:26 Automation

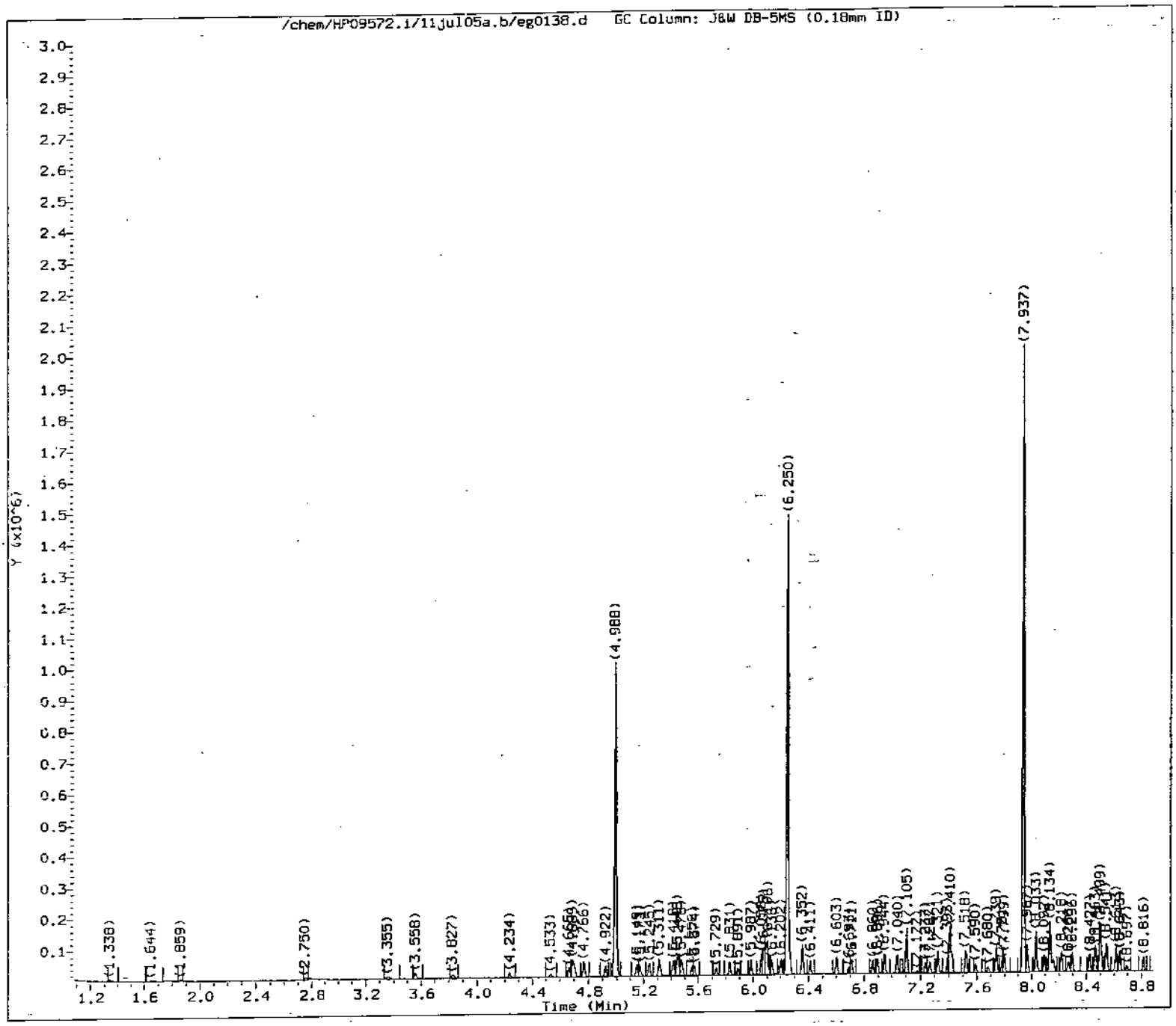
Sample Name: SSTD005 Lab Sample ID: STD1731

7-5-11

Compound Number : 86
Compound Name : 1-Chloronaphthalene
Scan Number : 1058
Retention Time (minutes): 7.411
Quant Ion : 162
Area : 77118
Concentration (ng/ul) : 7.2586
Integration start scan : 1055 Integration stop scan: 1063
Y at integration start : 51 Y at integration end: 56

USF83 0353

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0137.d, generated on 07/06/2011 at 01:32



Quant Report

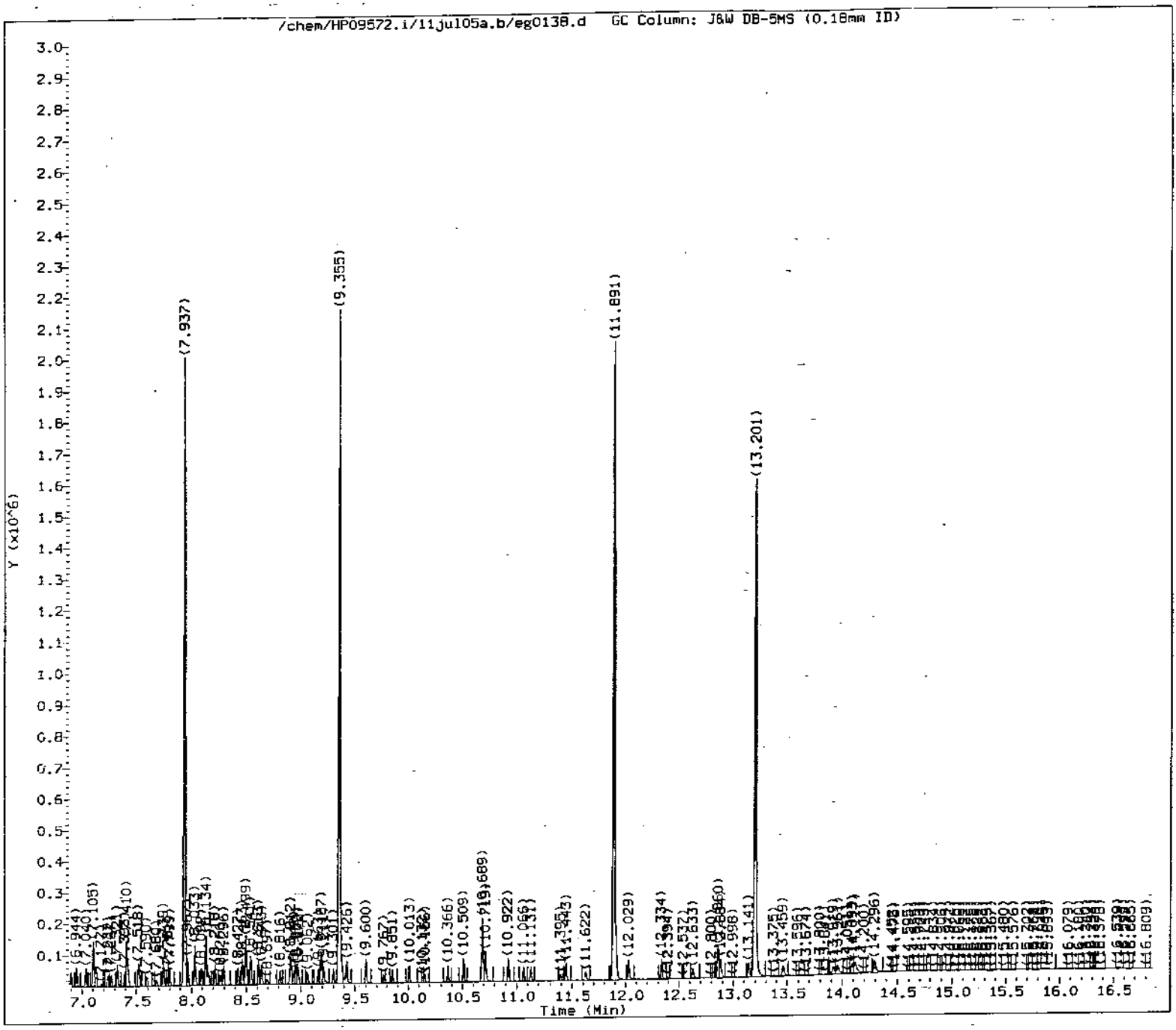
Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:46 rpb01568

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

7-5-11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:46 rpb01568

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

8365

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:46 rpb01568

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.338	88	2580	1.3566
3) N-Nitrosodimethylamine	(1)	1.644	74	3121	0.9015
4) Pyridine	(1)	1.745	79	2298	0.4201
6) 2-Picoline	(1)	2.750	93	2654	0.4994
2) N-Nitrosomethylethylamine	(1)	2.888	88	2000	0.8694
8) Methyl methanesulfonate	(1)	3.355	80	4292	1.3121
9) N-Nitrosodiethylamine	(1)	3.827	102	2993	1.1552
15) Ethyl methanesulfonate	(1)	4.234	109	3440	1.3221
22) Phenol	(1)	4.707	94	9511	1.3121
21) Aniline	(1)	4.665	93	11546	1.3752
33) Pentachloroethane	(1)	4.689	167	2357	1.4192
23) bis(2-Chloroethyl)ether	(1)	4.766	93	7632	1.3756
24) 2-Chlorophenol	(1)	4.772	128	6261	1.2581
26) 1,3-Dichlorobenzene	(1)	4.922	146	7432	1.4144
27) 1,4-Dichlorobenzene-d4	(1)	4.988	152	128148	40.0000
28) 1,4-Dichlorobenzene	(1)	5.006	146	7499	1.3794
31) Benzyl alcohol	(1)	5.173	108	4521	1.2797
32) 1,2-Dichlorobenzene	(1)	5.149	146	7645	1.4775
17) Indene	(1)	5.245	115	11490	1.3648
34) 2-Methylphenol	(1)	5.311	108	6321	1.2820
35) 2,2'-oxybis(1-Chloropropane)	(1)	5.323	45	8993	1.4297
36) bis(2-Chloroisopropyl)ether	(1)	5.323	45	8993	1.4297
30) N-Nitrosopyrrolidine	(1)	5.406	100	3856	1.2760
37) Acetophenone	(1)	5.418	105	10822	1.4065
38) N-Nitroso-di-n-propylamine	(1)	5.442	70	6813	1.3033
39) 4-Methylphenol	(1)	5.472	108	6810	1.2373
7) N-Nitrosomorpholine	(1)	5.454	56	4819	1.2878
40) o-Toluidine	(1)	5.448	106	11460	1.3001
41) Hexachloroethane	(1)	5.484	117	2479	1.1941
43) Nitrobenzene	(2)	5.574	77	8827	1.3707
18) N-Nitrosopiperidine	(2)	5.729	114	3509	1.3161
46) Isophorone	(2)	5.831	82	16207	1.3961
47) 2-Nitrophenol	(2)	5.891	139	2922	1.1475
48) 2,4-Dimethylphenol	(2)	5.987	107	7331	1.3277
93) O,O,O-triethylphosphorothioate	(2)	6.058	198	3615	1.4212
49) bis(2-Chloroethoxy)methane	(2)	6.076	93	10211	1.5882
50) Benzoic acid	(2)	6.106	105	54458	12.8964
51) 2,4-Dichlorophenol	(2)	6.136	162	5489	1.2732
52) 1,2,4-Trichlorobenzene	(2)	6.202	180	6759	1.4795
53) Naphthalene-d8	(2)	6.250	136	555029	40.0000
54) Naphthalene	(2)	6.268	128	22610	1.5035
56) 4-Chloroaniline	(2)	6.352	127	9406	1.4252
55) 2,6-Dichlorophenol	(2)	6.352	162	5893	1.3718

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:46 rpb01568

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44) Hexachloropropene	(2)	6.358	213	2691	1.0842
59) Hexachlorobutadiene	(2)	6.411	225	3226	1.5185
65) Quinoline	(2)	6.603	129	15567	1.5097
66) Caprolactam	(2)	6.693	113	2830	1.3164
5) N-Nitrosodi-n-butylamine	(2)	6.711	84	8084	1.6699
68) 4-Chloro-3-methylphenol	(2)	6.860	107	7309	1.4427
61) Safrole	(2)	6.896	162	5687	1.3711
64) cis-Isosafrole	(3)	7.177	162	1172	0.1734
69) 2-Methylnaphthalene	(2)	6.944	142	15699	1.4789
71) 1-Methylnaphthalene	(2)	7.040	142	14279	1.4178
72) Hexachlorocyclopentadiene	(3)	7.105	237	9051	7.9661
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.105	216	6802	1.4931
62) trans-Isosafrole	(3)	7.393	162	5607	2.4033
76) 2,4,6-Trichlorophenol	(3)	7.237	196	3755	1.2307
77) 2,4,5-Trichlorophenol	(3)	7.267	196	4564	1.2962
63) Isosafrole	(3)	7.393	162	5607	2.7003
82) Biphenyl	(3)	7.410	154	19621	1.4391
83) Diphenyl	(3)	7.410	154	19621	1.4391
84) 1,1'-Biphenyl	(3)	7.410	154	19621	1.4391
85) 2-Chloronaphthalene	(3)	7.410	162	20904M	1.6480
86) 1-Chloronaphthalene	(3)	7.422	162	16232M	1.3741
87) Diphenyl ether	(3)	7.518	170	10697	1.4901
88) 2-Nitroaniline	(3)	7.530	138	3900	1.0838
60) 1,4-Naphthoquinone	(3)	7.596	158	4394	1.0617
57) 1,4-Dinitrobenzene	(3)	7.680	168	1732	4.1138
92) Dimethylphthalate	(3)	7.739	163	18467	1.4538
58) 1,3-Dinitrobenzene	(3)	7.745	168	2033	0.9569
98) 2,6-Dinitrotoluene	(3)	7.781	165	3076	1.0467
100) Acenaphthylene	(3)	7.799	152	21490	1.3319
102) 3-Nitroaniline	(3)	7.925	138	3983	1.2153
103) Acenaphthene-d10	(3)	7.937	164	377771	40.0000
106) Acenaphthene	(3)	7.967	153	16014	1.5028
107) 2,4-Dinitrophenol	(3)	8.033	184	13153	17.2984
110) Pentachlorobenzene	(3)	8.092	250	5937	1.5110
109) 4-Nitrophenol	(3)	8.134	109	10315	4.8398
112) Dibenzofuran	(3)	8.140	168	23999	1.5873
113) 2,4-Dinitrotoluene	(3)	8.158	165	5036	1.3023
114) 1-Naphthylamine	(3)	8.218	143	16712	1.3774
115) 2,3,4,6-Tetrachlorophenol	(3)	8.272	232	3316	1.2475
117) 2-Naphthylamine	(3)	8.296	143	17996	1.4518
118) Diethylphthalate	(3)	8.427	149	17821	1.4662
119) Fluorene	(3)	8.463	166	18195	1.4114
29) Thionazin	(3)	8.493	107	3922	1.5829

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:46 rpb01568

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	8.499	204	8836	1.4931
70)	5-Nitro-o-toluidine	(3)	8.499	152	5150	1.2975
121)	4-Nitroaniline	(3)	8.505	138	4918	1.3661
122)	4,6-Dinitro-2-methylphenol	(4)	8.541	198	6679	9.1422
67)	1-Nitronaphthalene	(4)	8.547	173	3761	1.4652
123)	N-Nitrosodiphenylamine	(4)	8.613	169	16082	1.4326
124)	NDPA as diphenylamine	(4)	8.613	169	16082	1.4364
125)	1,2-Diphenylhydrazine	(4)	8.643	77	22608	1.4097
108)	Tetraethyldithiopyrophosphate	(4)	8.816	97	2948	1.3077
81)	1,3,5-Trinitrobenzene	(4)	8.906	213	814	6.7580
78)	Diallate (peak 1)	(4)	8.906	86	7280	1.0374
75)	Phorate	(4)	8.912	75	15782	4.6701
80)	Phenacetin	(4)	8.942	108	8884	1.2315
131)	4-Bromophenyl-phenylether	(4)	8.960	248	4774	1.4309
13)	Diallate (peak 2)	(4)	8.906	86	7279	1.7191
132)	Hexachlorobenzene	(4)	8.978	284	5036	1.5607
96)	Dimethoate	(4)	9.062	87	6068	1.1806
135)	Pentachlorophenol	(4)	9.187	266	8093	4.0029
136)	Pentachloronitrobenzene	(4)	9.193	237	1861	1.2530
105)	4-Aminobiphenyl	(4)	9.211	169	17160	1.4469
97)	Pronamide	(4)	9.301	173	6178	1.0961
140)	Phenanthrene-d10	(4)	9.355	188	653363	40.0000
141)	Phenanthrene	(4)	9.373	178	29055	1.5069
137)	Dinoseb	(4)	9.397	211	1632	7.5779
143)	Anthracene	(4)	9.426	178	27128	1.3802
145)	Carbazole	(4)	9.600	167	25422	1.3904
149)	Methyl parathion	(4)	9.767	109	3347	2.2415
148)	Di-n-butylphthalate	(4)	10.013	149	24684	1.1880
150)	Parathion	(4)	10.156	109	2230	3.7349
133)	4-Nitroquinoline-1-oxide	(4)	10.138	190	784	7.7705
99)	Isodrin	(4)	10.366	193	2824	1.3668
153)	Fluoranthene	(4)	10.509	202	25972	1.3445
154)	Benzidine	(5)	10.689	184	75233	6.6400
155)	Pyrene	(5)	10.719	202	30540	1.4868
147)	p-Dimethylaminoazobenzene	(5)	11.066	225	3896	0.9744
144)	Chlorobenzilate	(5)	11.131	139	7268	1.1488
161)	3,3'-Dimethylbenzidine	(5)	11.395	212	7877	3.4956
162)	Butylbenzylphthalate	(5)	11.443	149	10152	1.1129
101)	2-Acetylaminofluorene	(5)	11.622	181	6297	3.6646
165)	3,3'-Dichlorobenzidine	(5)	11.897	252	7709	1.1279
164)	Benzo(a)anthracene	(5)	11.879	228	26719	1.4590
167)	4,4'-Methylenebis(2-Chloroanil	(5)	11.891	231	5789	1.6485
166)	Chrysene-d12	(5)	11.891	240	667379	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

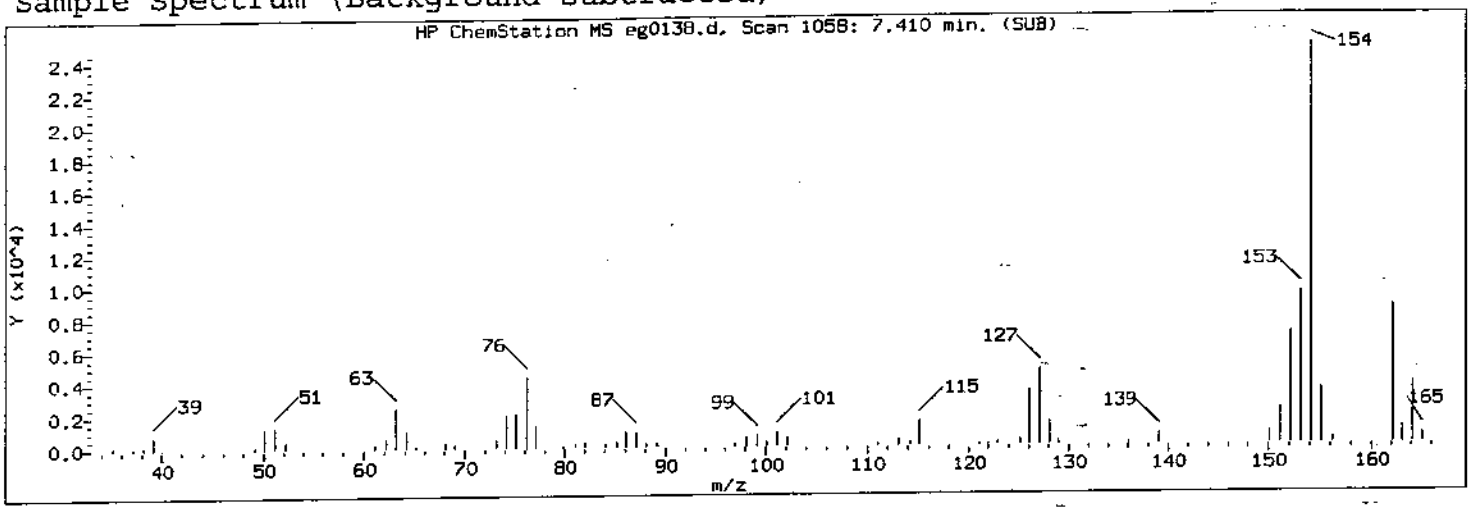
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:46 rpb01568

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

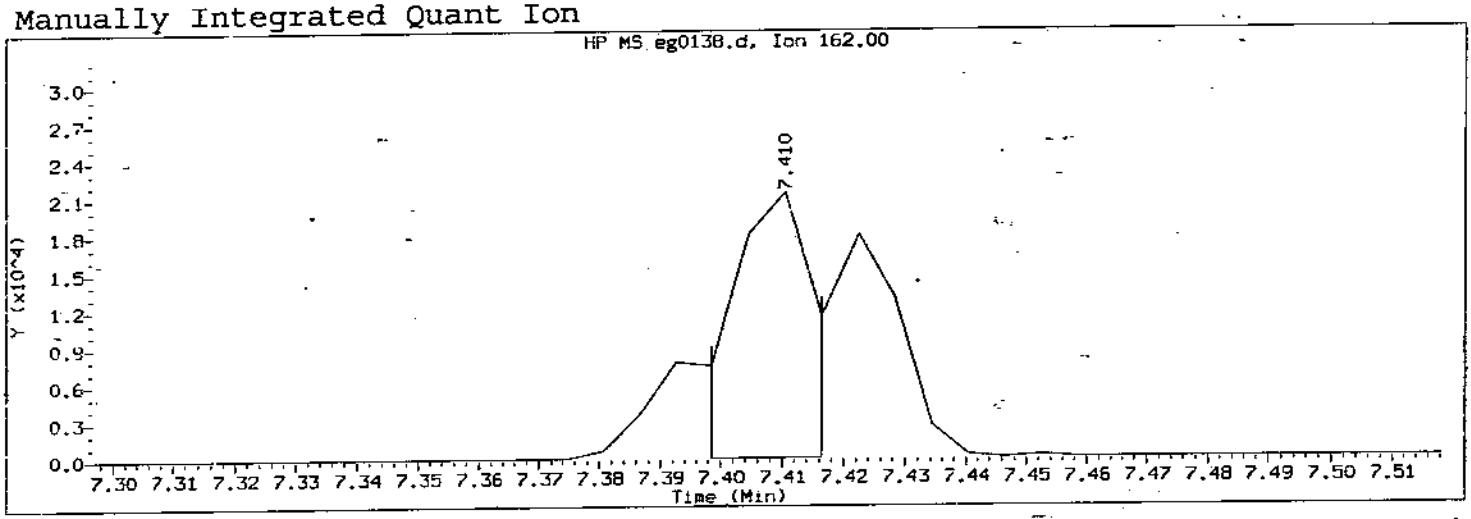
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168)	Chrysene	(5)	11.909	228	30177	1.5731
169)	bis(2-Ethylhexyl)phthalate	(5)	12.029	149	14785	1.2080
170)	6-Methylchrysene	(5)	12.334	242	16616	1.2855
172)	Di-n-octylphthalate	(6)	12.633	149	15161	4.6986
174)	7,12-Dimethylbenz[a]anthracene	(6)	12.860	256	10276	1.1375
173)	Benzo(b)fluoranthene	(6)	12.854	252	23313 A	1.2593
175)	Benzo(k)fluoranthene	(6)	12.884	252	25186	1.3175
176)	Benzo(a)pyrene	(6)	13.141	252	22772	1.3229
177)	Perylene-d12	(6)	13.201	264	628713	40.0000
180)	3-Methylcholanthrene	(6)	13.464	268	9287	0.9916
181)	Dibenz(a,h)acridine	(6)	13.919	279	11864	4.5817
183)	Dibenz(a,j)acridine	(6)	13.961	279	17127	1.1628
185)	Indeno(1,2,3-cd)pyrene	(6)	14.093	276	22697	1.2280
187)	Dibenz(a,h)anthracene	(6)	14.123	278	18414	1.1529
188)	Benzo(g,h,i)perylene	(6)	14.296	276	20583	1.2804
194)	Diallate TRANS/CIS	(4)	23.556	86	14559	2.7565
11)	2-Fluorophenol	(1)	3.558	112	5477	1.2002
19)	Phenol-d5	(1)	4.689	99	8581	1.2963
20)	Phenol-d6	(1)	4.689	99	8581	1.2963
42)	Nitrobenzene-d5	(2)	5.556	82	8471	1.3470
79)	2-Fluorobiphenyl	(3)	7.321	172	17085	1.4833
126)	2,4,6-Tribromophenol	(3)	8.697	330	1479	1.1347
157)	Terphenyl-d14	(5)	10.922	244	20326	1.4384

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:46 rpb01568

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

Compound Number	: 85
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1058
Retention Time (minutes)	: 7.410
Quant Ion	: 162
Area (flag)	: 20904 M
Concentration (ng/ul)	: 1.6480
Integration start scan	: 1055 Integration stop scan: 1058
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-5-11

USF03 9376

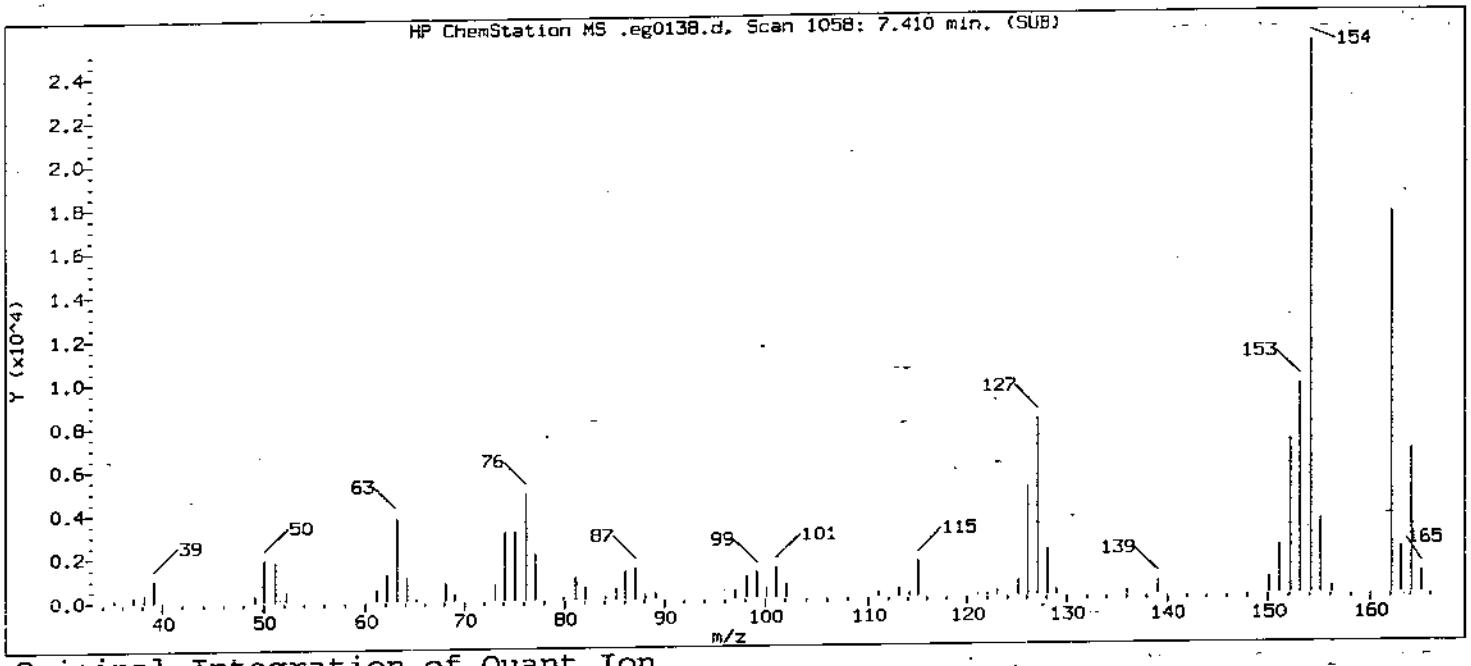
GC/MS audit/management approval: _____

JUL 07 2011

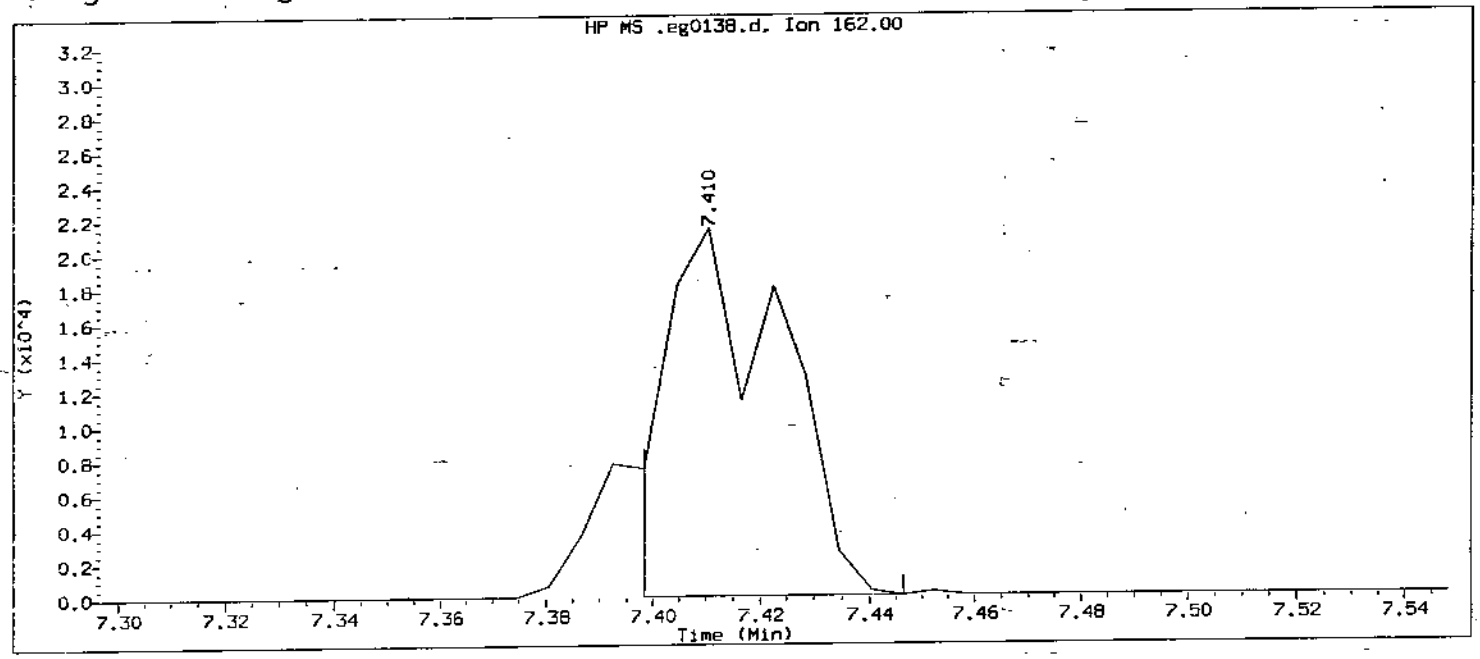
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0138.d, generated on 07/06/2011 at 01:50

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 00:51 Automation

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

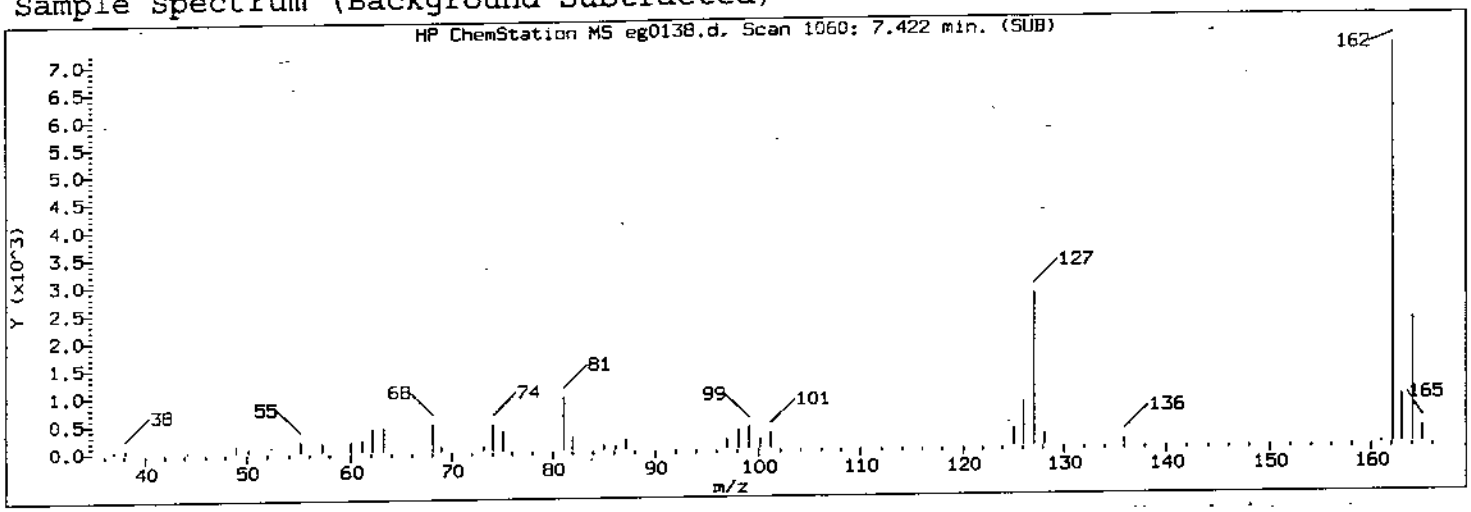
Compound Number	:	85
Compound Name	:	2-Chloronaphthalene
Scan Number	:	1058
Retention Time (minutes)	:	7.410
Quant Ion	:	162
Area	:	31666
Concentration (ng/ul)	:	2.1247
Integration start scan	:	1055 Integration stop scan: 1063
Y at integration start	:	0 Y at integration end: 0

7-5-11

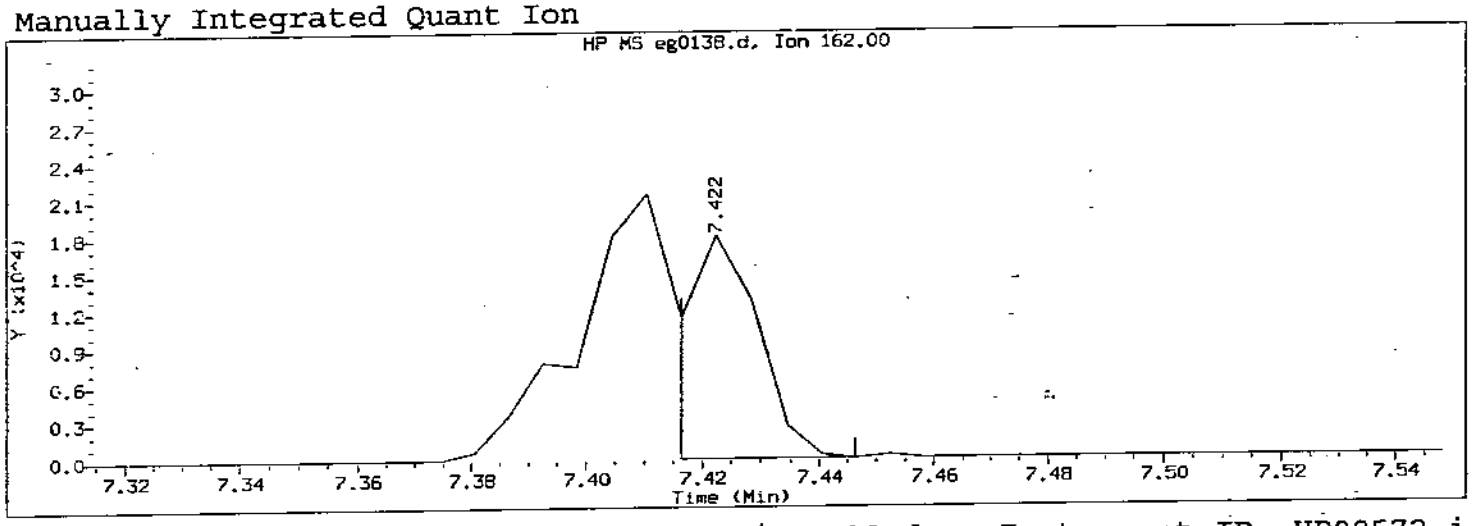
USP03 0371

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0138.d, generated on 07/06/2011 at 01:50

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:46 rpb01568

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1060
Retention Time (minutes)	:	7.422
Quant Ion	:	162
Area (flag)	:	16232 M
Concentration (ng/ul)	:	1.3741
Integration start scan	:	1058 Integration stop scan: 1063
Y at integration start	:	-25 Y at integration end: -25

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 7-5-11

USF03 0372

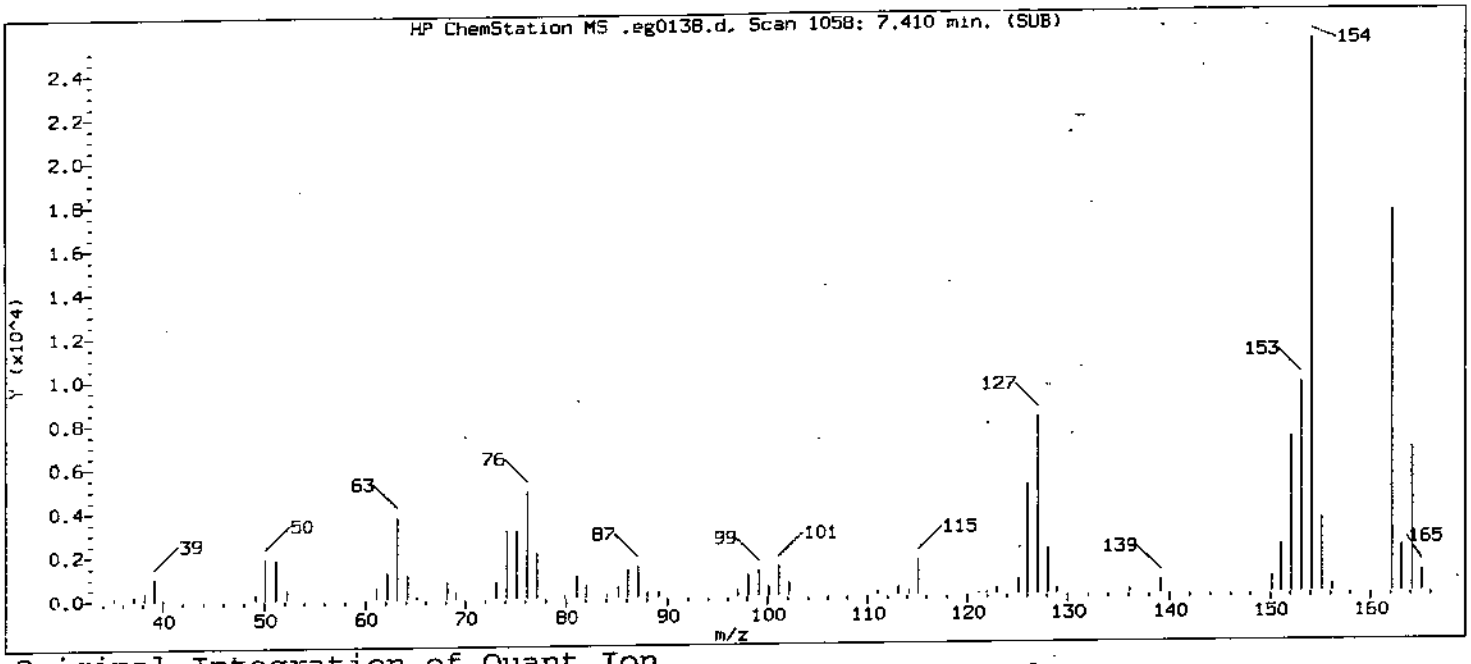
GC/MS audit/management approval: [signature]

JUL 07 2011

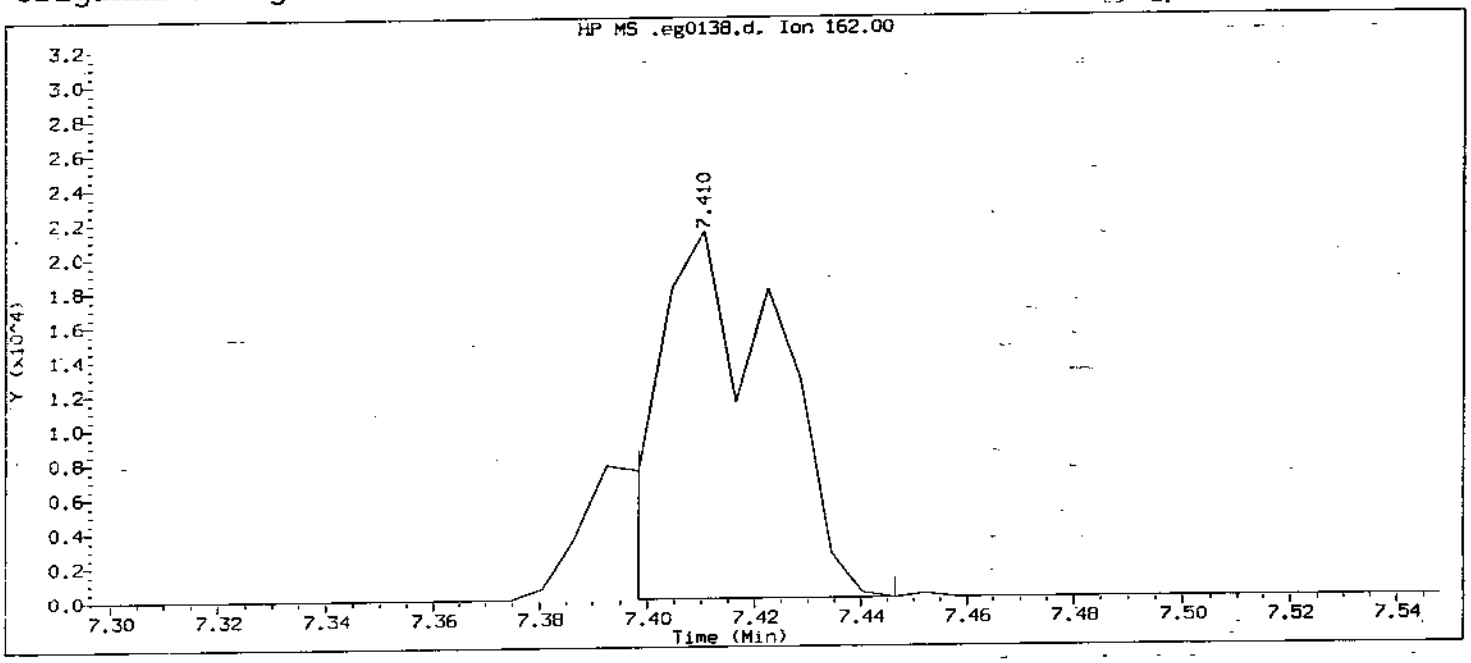
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0138.d, generated on 07/06/2011 at 01:50

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 00:51 Automation

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

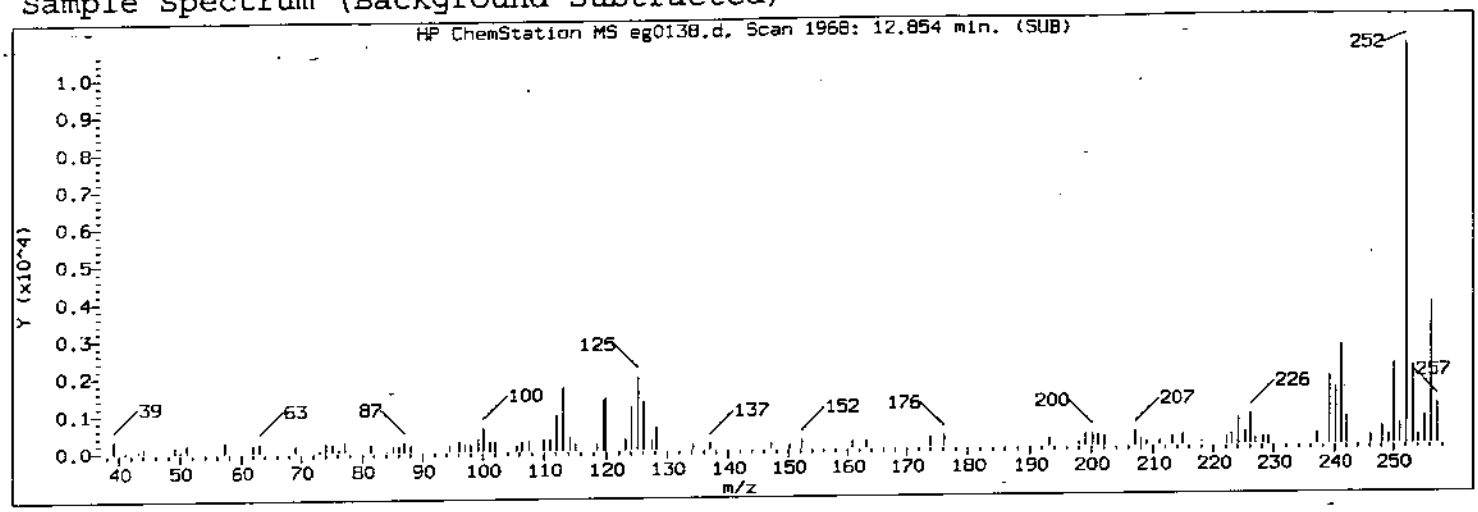
7-5-11

Compound Number : 86
Compound Name : 1-Chloronaphthalene
Scan Number : 1058
Retention Time (minutes): 7.410
Quant Ion : 162
Area : 31666
Concentration (ng/ul) : 2.2203
Integration start scan : 1055 Integration stop scan: 1063
Y at integration start : 0 Y at integration end: 0

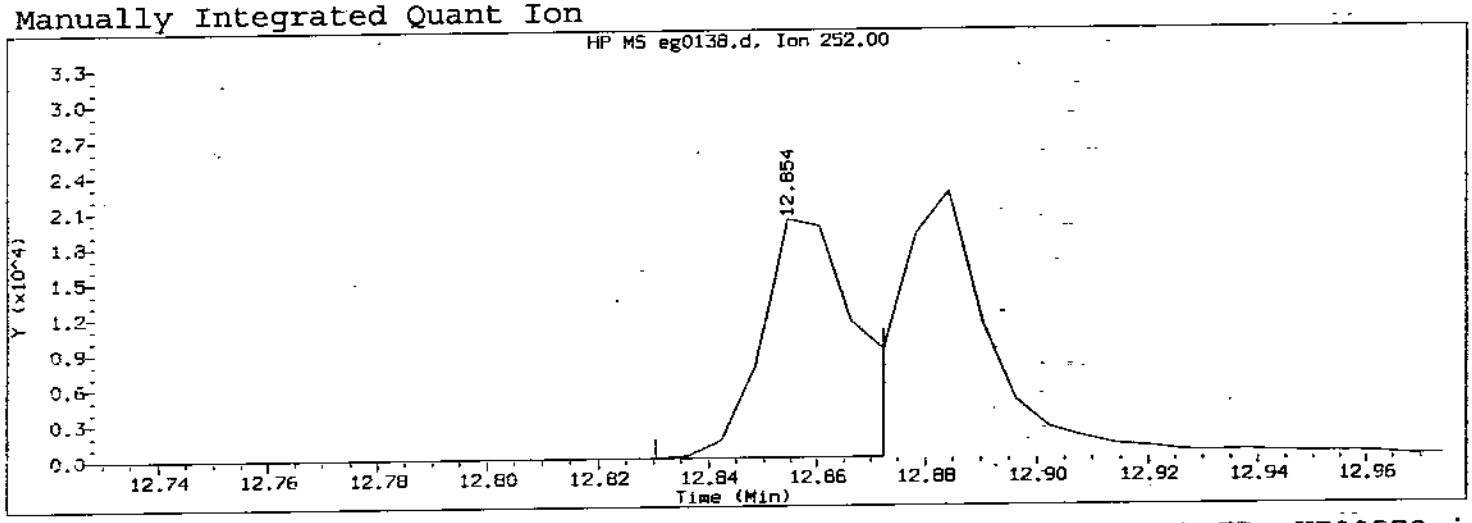
USF03 0373

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0138.d, generated on 07/06/2011 at 01:50

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:46 rpb01568

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

Compound Number	: 173
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1968
Retention Time (minutes)	: 12.854
Quant Ion	: 252
Area (flag)	: 23313A
Concentration (ng/ul)	: 1.2593
Integration start scan	: 1963 Integration stop scan: 1970
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: [signature] 7-5-11

USF03 0374

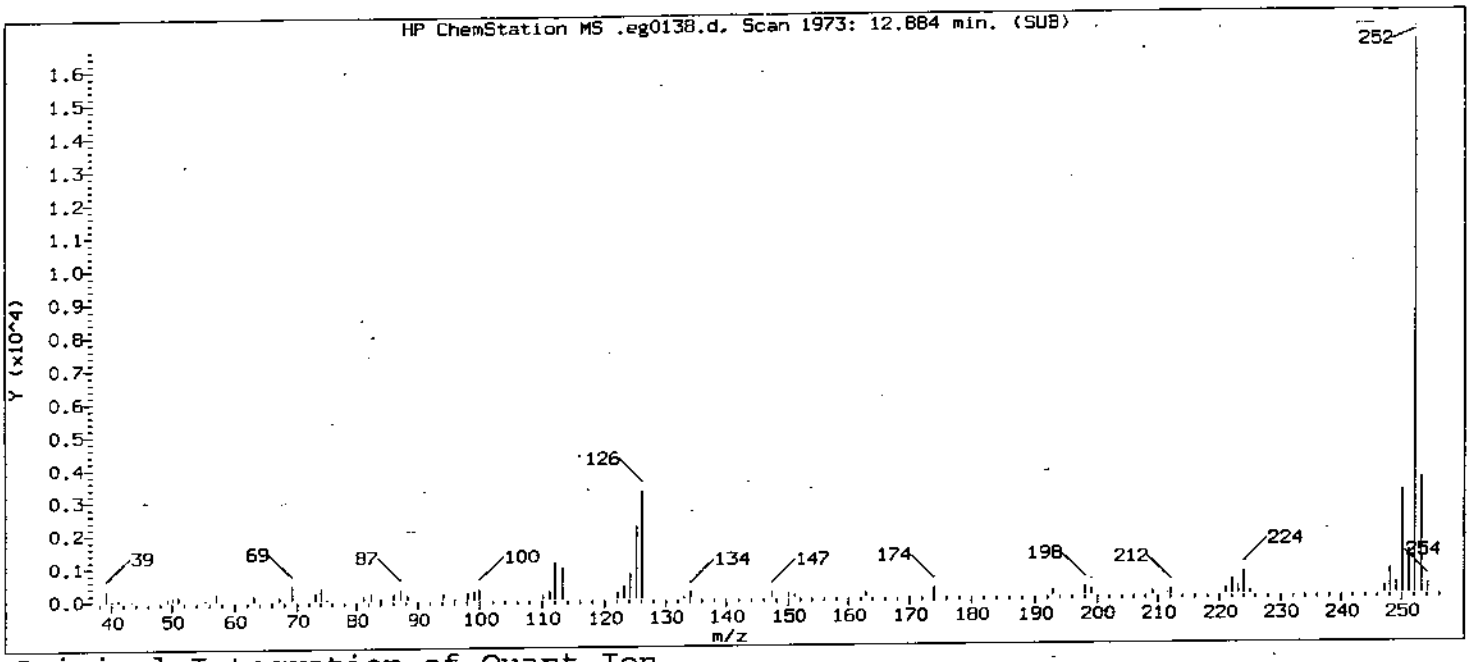
GC/MS audit/management approval: [signature]

JUL 07 2011

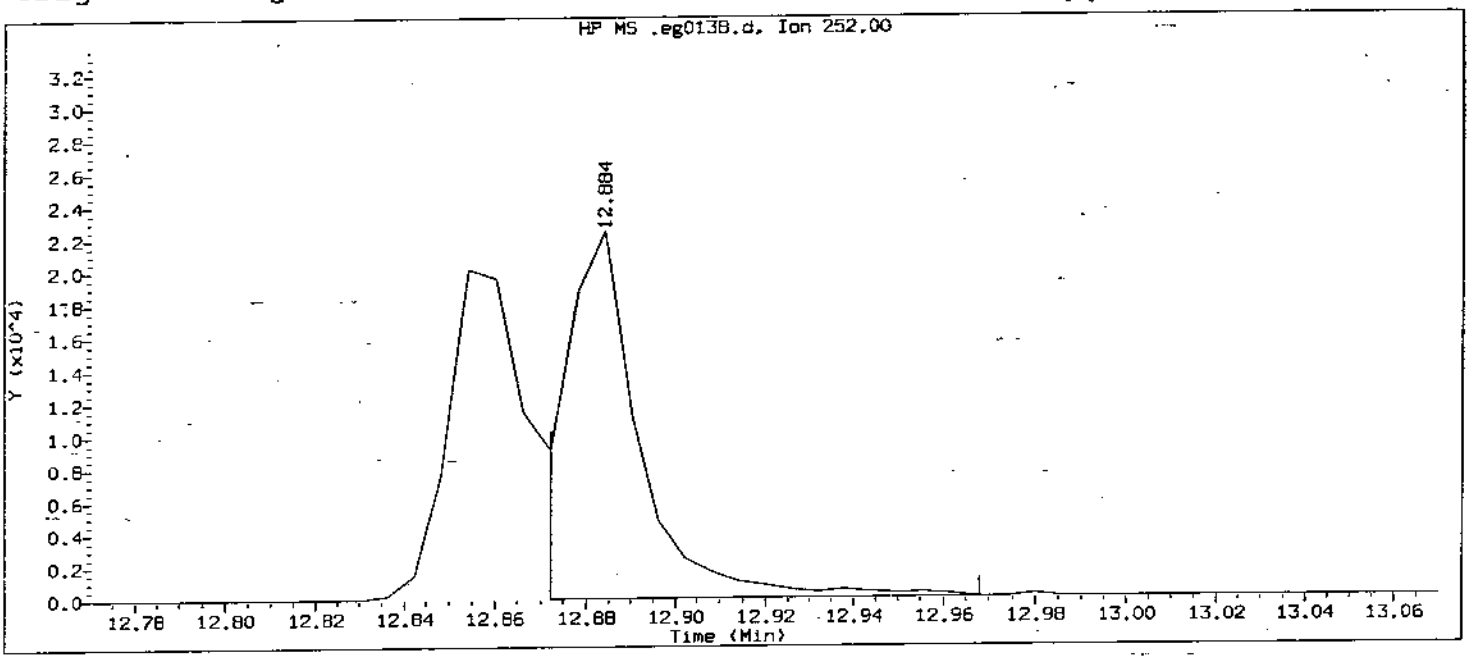
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0138.d, generated on 07/06/2011 at 01:50

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0138.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:32 Analyst ID: rpb01568

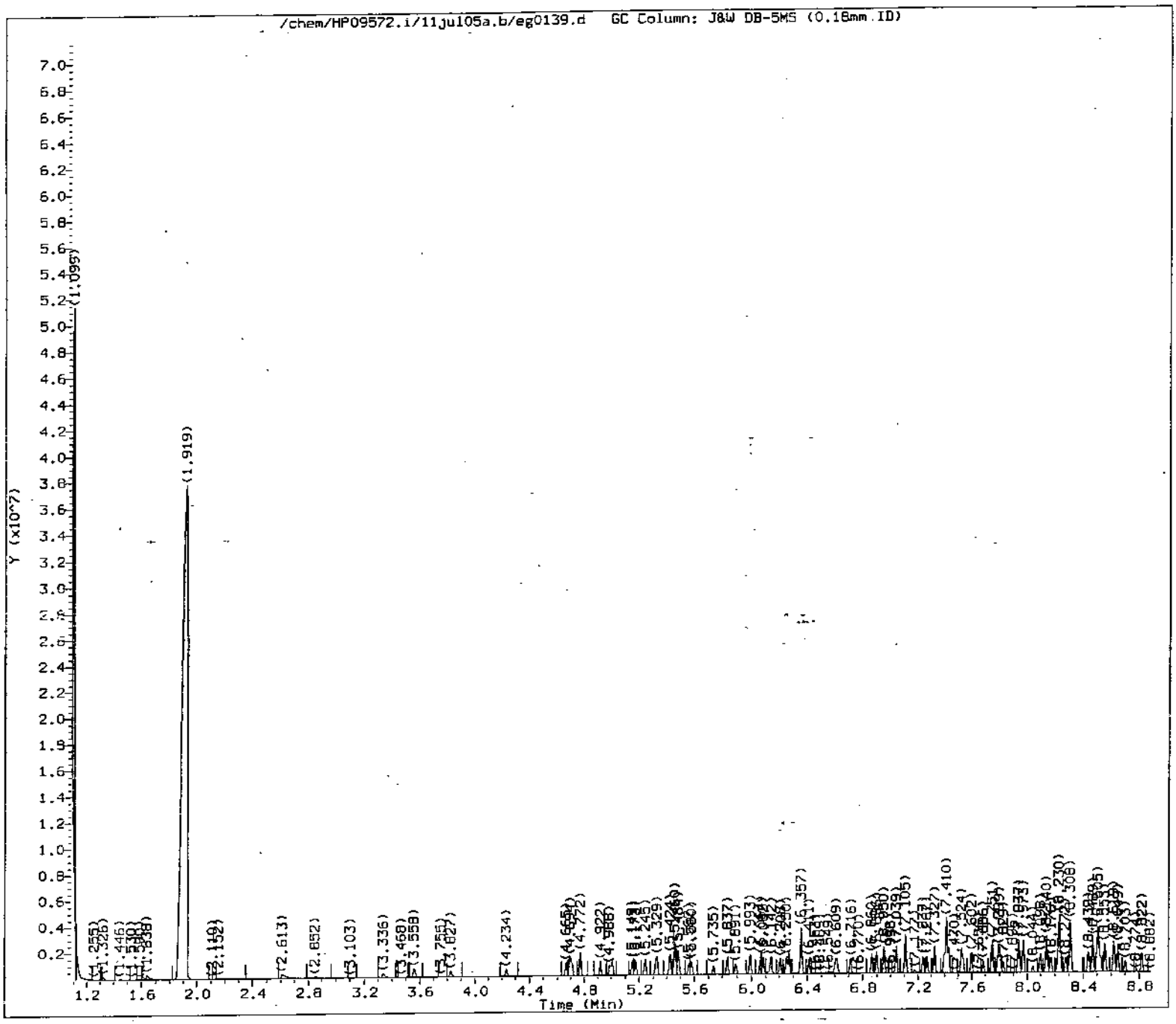
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: all1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 00:51 Automation

Sample Name: SSTD001 Lab Sample ID: 8270MDL1731

Compound Number	:	173
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1973
Retention Time (minutes)	:	12.884
Quant Ion	:	252
Area	:	25186
Concentration (ng/ul)	:	1.3284
Integration start scan	:	1970 Integration stop scan: 1986
Y at integration start	:	0 Y at integration end: 0

USF03 8375

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0138.d, generated on 07/06/2011 at 01:50



Quant Report

Target Revision 3.5

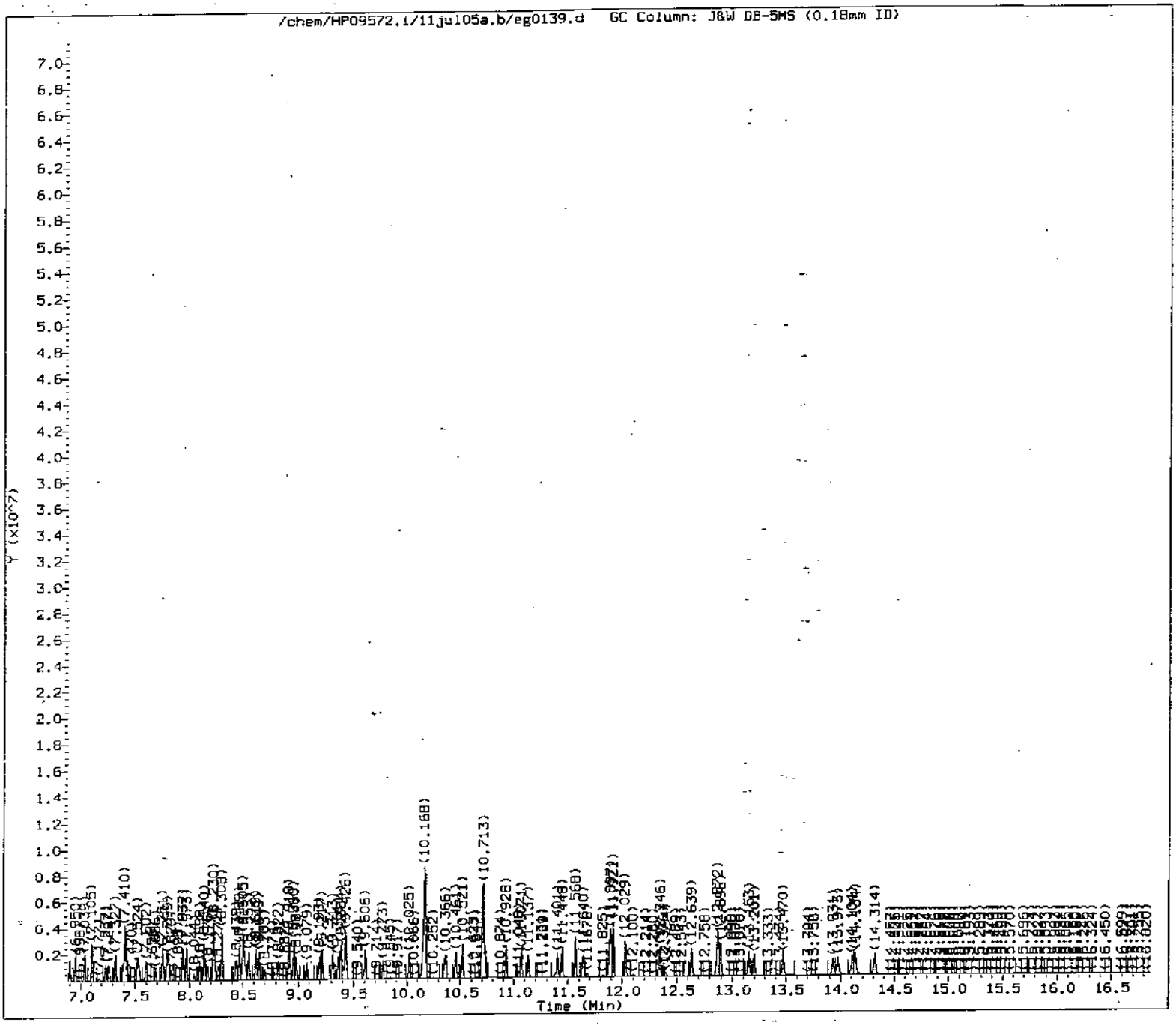
Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icval11
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

07-5-11

USF03 0376



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icvall1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

7-5-11

USF03 0377

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icval11
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.326	88	89814	60.3170
3)	N-Nitrosodimethylamine	(1)	1.608	74	144904	53.4593
4)	Pyridine	(1)	1.638	79	221341	51.6854
6)	2-Picoline	(1)	2.613	93	230096	55.3003
2)	N-Nitrosomethylethylamine	(1)	2.852	88	96063	53.3329
8)	Methyl methanesulfonate	(1)	3.336	80	135400	52.8657
9)	N-Nitrosodiethylamine	(1)	3.827	102	106625	52.5628
15)	Ethyl methanesulfonate	(1)	4.234	109	106633	52.3430
22)	Phenol	(1)	4.712	94	309312	54.5013
21)	Aniline	(1)	4.665	93	345644	52.5802
33)	Pentachloroethane	(1)	4.688	167	67073	51.5809
23)	bis(2-Chloroethyl)ether	(1)	4.772	93	231613	53.3173
24)	2-Chlorophenol	(1)	4.772	128	208281	53.4545
26)	1,3-Dichlorobenzene	(1)	4.922	146	215861	52.4694
27)	1,4-Dichlorobenzene-d4	(1)	4.988	152	100335	40.0000
28)	1,4-Dichlorobenzene	(1)	5.005	146	223043	52.4022
31)	Benzyl alcohol	(1)	5.173	108	150539	54.4240
32)	1,2-Dichlorobenzene	(1)	5.149	146	208878	51.5586
17)	Indene	(1)	5.245	115	328955	49.9054
34)	2-Methylphenol	(1)	5.329	108	208425	53.9906
35)	2,2'-oxybis(1-Chloropropane)	(1)	5.317	45	256495	52.0798
36)	bis(2-Chloroisopropyl)ether	(1)	5.317	45	256495	52.0798
30)	N-Nitrosopyrrolidine	(1)	5.418	100	128398	54.2666
37)	Acetophenone	(1)	5.424	105	315471	52.3676
38)	N-Nitroso-di-n-propylamine	(1)	5.460	70	216088	52.7953
39)	4-Methylphenol	(1)	5.478	108	226643	52.5919
7)	N-Nitrosomorpholine	(1)	5.466	56	155498	53.0716
40)	o-Toluidine	(1)	5.460	106	363484	52.6658
41)	Hexachloroethane	(1)	5.484	117	85282	52.4655
43)	Nitrobenzene	(2)	5.580	77	286050	52.7875
18)	N-Nitrosopiperidine	(2)	5.735	114	118431	52.7867
46)	Isophorone	(2)	5.837	82	536752	54.9452
47)	2-Nitrophenol	(2)	5.891	139	115510	53.9065
48)	2,4-Dimethylphenol	(2)	5.993	107	252193	54.2777
93)	O,O,O-triethylphosphorothioate	(2)	6.064	198	107098	50.0363
49)	bis(2-Chloroethoxy)methane	(2)	6.082	93	285266	52.7281
50)	Benzoic acid	(2)	6.142	105	146307	41.1743
51)	2,4-Dichlorophenol	(2)	6.142	162	190635	52.5499
52)	1,2,4-Trichlorobenzene	(2)	6.208	180	192685	50.1243
53)	Naphthalene-d8	(2)	6.250	136	467049	40.0000
54)	Naphthalene	(2)	6.268	128	662237	52.3312
56)	4-Chloroaniline	(2)	6.357	127	308552	55.5599
55)	2,6-Dichlorophenol	(2)	6.357	162	191190	52.8883

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icvall1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	6.357	213	109079	52.2268
59)	Hexachlorobutadiene	(2)	6.411	225	90451	50.5976
65)	Quinoline	(2)	6.609	129	470783	54.2559
5)	N-Nitrosodi-n-butylamine	(2)	6.716	84	189206	46.4475
68)	4-Chloro-3-methylphenol	(2)	6.860	107	229184	53.7585
61)	Safrole	(2)	6.896	162	183513	52.5801
64)	cis-Isosafrole	(3)	7.177	162	32630	5.5125
69)	2-Methylnaphthalene	(2)	6.950	142	446878	50.0281
71)	1-Methylnaphthalene	(2)	7.039	142	448573	52.9308
72)	Hexachlorocyclopentadiene	(3)	7.105	237	199179	94.5945
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.111	216	195452	48.9951
62)	trans-Isosafrole	(3)	7.398	162	272607M	59.4726
76)	2,4,6-Trichlorophenol	(3)	7.237	196	134957	50.5108
77)	2,4,5-Trichlorophenol	(3)	7.267	196	156996	50.9196
63)	Isosafrole	(3)	7.398	162	280390M	68.3768
82)	Biphenyl	(3)	7.410	154	596419	49.9541
83)	Diphenyl	(3)	7.410	154	596419	49.9541
84)	1,1'-Biphenyl	(3)	7.410	154	596419	49.9541
85)	2-Chloronaphthalene	(3)	7.410	162	640687M	57.6773
86)	1-Chloronaphthalene	(3)	7.428	162	473840M	45.8062
87)	Diphenyl ether	(3)	7.524	170	309953	49.3067
88)	2-Nitroaniline	(3)	7.536	138	169081	53.6581
60)	1,4-Naphthoquinone	(3)	7.602	158	236806	65.3410
57)	1,4-Dinitrobenzene	(3)	7.686	168	83171	49.2024
92)	Dimethylphthalate	(3)	7.751	163	583399	52.4470
58)	1,3-Dinitrobenzene	(3)	7.751	168	103138	55.4349
98)	2,6-Dinitrotoluene	(3)	7.787	165	138167	53.6908
100)	Acenaphthylene	(3)	7.799	152	737725	52.2133
102)	3-Nitroaniline	(3)	7.937	138	154188	53.7265
103)	Acenaphthene-d10	(3)	7.943	164	330807	40.0000
106)	Acenaphthene	(3)	7.973	153	474306	50.8300
107)	2,4-Dinitrophenol	(3)	8.044	184	56795	47.4864
110)	Pentachlorobenzene	(3)	8.098	250	169604	49.2941
109)	4-Nitrophenol	(3)	8.146	109	100934	54.0815
112)	Dibenzofuran	(3)	8.140	168	683727	51.6416
113)	2,4-Dinitrotoluene	(3)	8.176	165	183797	54.2768
114)	1-Naphthylamine	(3)	8.230	143	1136708	106.9849
115)	2,3,4,6-Tetrachlorophenol	(3)	8.278	232	127499	54.7741
117)	2-Naphthylamine	(3)	8.308	143	1136200	104.6711
118)	Diethylphthalate	(3)	8.439	149	553471	52.0016
119)	Fluorene	(3)	8.469	166	592334	52.4699
29)	Thionazin	(3)	8.505	107	109227	50.3421
120)	4-Chlorophenyl-phenylether	(3)	8.499	204	265947	51.3183

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icvall1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
70)	5-Nitro-o-toluidine	(3)	8.511	152	183788	52.8792
121)	4-Nitroaniline	(3)	8.529	138	165227	52.4102
122)	4,6-Dinitro-2-methylphenol	(4)	8.553	198	92951	47.5552
67)	1-Nitronaphthalene	(4)	8.559	173	118378	52.8995
123)	N-Nitrosodiphenylamine	(4)	8.619	169	506883	51.7934
124)	NDPA as diphenylamine	(4)	8.619	169	506739	51.9167
125)	1,2-Diphenylhydrazine	(4)	8.649	77	730397	52.2403
108)	Tetraethyldithiopyrophosphate	(4)	8.816	97	100263	51.0146
81)	1,3,5-Trinitrobenzene	(4)	8.924	213	65323	47.4566
78)	Diallate (peak 1)	(4)	8.912	86	219801	35.9258
75)	Phorate	(4)	8.918	75	591144	47.7001
80)	Phenacetin	(4)	8.966	108	345350	54.9140
131)	4-Bromophenyl-phenylether	(4)	8.966	248	152842	52.5475
13)	Diallate (peak 2)	(4)	8.990	86	44416	12.0326
132)	Hexachlorobenzene	(4)	8.984	284	143954	51.1734
96)	Dimethoate	(4)	9.079	87	231580	51.6823
135)	Pentachlorophenol	(4)	9.193	266	91036	51.6484
136)	Pentachloronitrobenzene	(4)	9.199	237	65976	50.9520
105)	4-Aminobiphenyl	(4)	9.217	169	629629	60.8977
97)	Pronamide	(4)	9.313	173	255654	52.0288
140)	Phenanthrene-d10	(4)	9.361	188	569603	40.0000
141)	Phenanthrene	(4)	9.384	178	877071	52.1757
137)	Dinoseb	(4)	9.402	211	121581	46.4673
143)	Anthracene	(4)	9.432	178	913777	53.3266
145)	Carbazole	(4)	9.612	167	857050	53.7692
149)	Methyl parathion	(4)	9.773	109	179306	50.1470
148)	Di-n-butylphthalate	(4)	10.025	149	972236	53.6750
150)	Parathion	(4)	10.168	109	147251	55.6436
133)	4-Nitroquinoline-1-oxide	(4)	10.180	190	1454124	821.8860
99)	Isodrin	(4)	10.372	193	95572	53.0587
153)	Fluoranthene	(4)	10.521	202	897147	53.2739
154)	Benzidine	(5)	10.713	184	3209360	317.2818
155)	Pyrene	(5)	10.730	202	969930	52.8912
147)	p-Dimethylaminoazobenzene	(5)	11.071	225	194104	54.3791
144)	Chlorobenzilate	(5)	11.131	139	295823	52.3771
161)	3,3'-Dimethylbenzidine	(5)	11.401	212	515250	49.7863
162)	Butylbenzylphthalate	(5)	11.448	149	445686	54.7268
101)	2-Acetylaminofluorene	(5)	11.640	181	414550	52.6070
165)	3,3'-Dichlorobenzidine	(5)	11.903	252	311393	51.0326
164)	Benzo(a)anthracene	(5)	11.885	228	865680	52.9506
167)	4,4'-Methylenebis(2-Chloroanil	(5)	11.915	231	166845	53.2204
166)	Chrysene-d12	(5)	11.897	240	595807	40.0000
168)	Chrysene	(5)	11.921	228	896534	52.3497

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

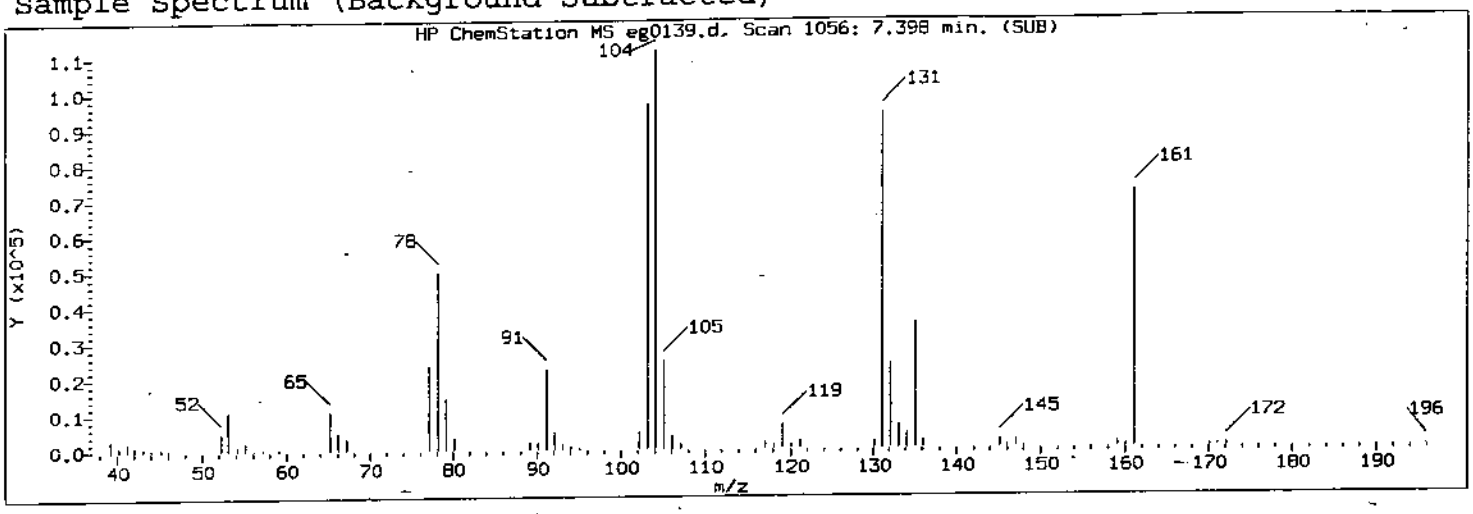
Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icvall1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

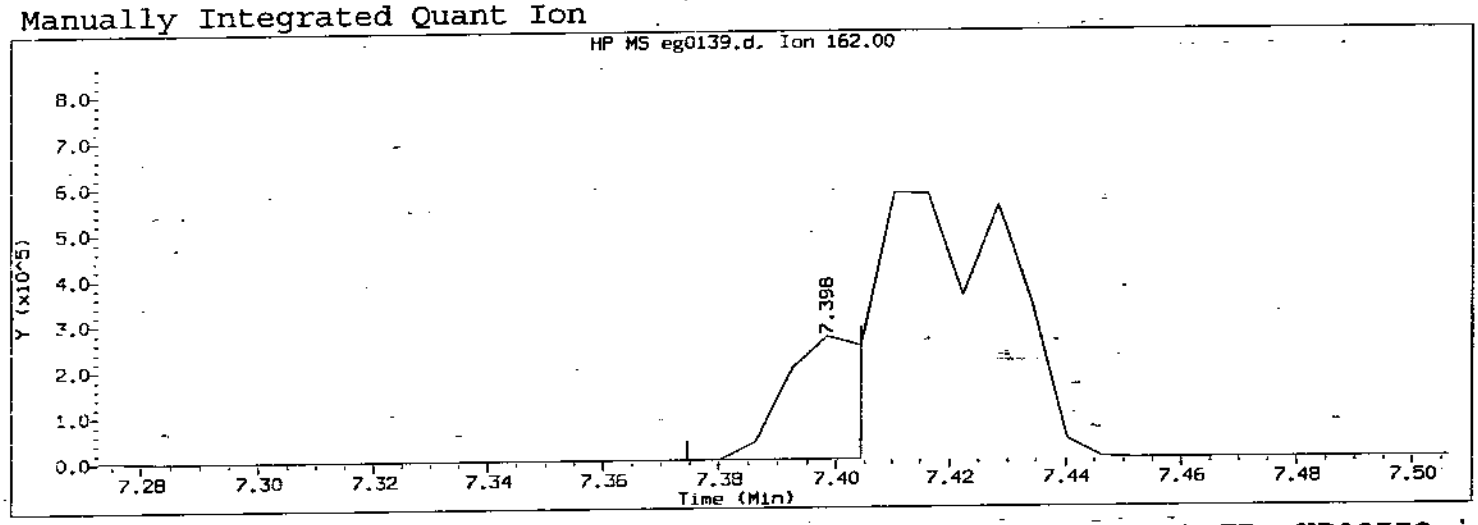
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
169)	bis(2-Ethylhexyl)phthalate	(5)	12.029	149	608297	55.6690
170)	6-Methylchrysene	(5)	12.346	242	631508	54.7269
172)	Di-n-octylphthalate	(6)	12.639	149	970754	47.8551
174)	7,12-Dimethylbenz[a]anthracene	(6)	12.878	256	416481	50.7913
173)	Benzo(b)fluoranthene	(6)	12.872	252	865632	51.5169
175)	Benzo(k)fluoranthene	(6)	12.896	252	862343	49.6987
176)	Benzo(a)pyrene	(6)	13.153	252	796759	50.9959
177)	Perylene-d12	(6)	13.201	264	570666	40.0000
180)	3-Methylcholanthrene	(6)	13.470	268	429648	50.5405
181)	Dibenz(a,h)acridine	(6)	13.931	279	525834	44.2284
183)	Dibenz(a,j)acridine	(6)	13.973	279	700306	52.3839
185)	Indeno(1,2,3-cd)pyrene	(6)	14.104	276	858247	51.1587
187)	Dibenz(a,h)anthracene	(6)	14.134	278	731685	50.4690
188)	Benzo(g,h,i)perylene	(6)	14.314	276	736186	50.4529
194)	Diallate TRANS/CIS	(4)	23.556	86	264217	47.9584
11)	2-Fluorophenol	(1)	3.558	112	197333	55.2273
19)	Phenol-d5	(1)	4.694	99	288380	55.6412
20)	Phenol-d6	(1)	4.694	99	288380	55.6412
42)	Nitrobenzene-d5	(2)	5.562	82	281927	53.2768
79)	2-Fluorobiphenyl	(3)	7.327	172	509664	50.5290
126)	2,4,6-Tribromophenol	(3)	8.703	330	62898	55.1072
157)	Terphenyl-d14	(5)	10.928	244	683059	54.1432

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icval11
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number	: 62
Compound Name	: trans-Isosafrole
Scan Number	: 1056
Retention Time (minutes)	: 7.398
Quant Ion	: 162
Area (flag)	: 272607 M
Concentration (ng/ul)	: 59.4726
Integration start scan	: 1051 Integration stop scan: 1056
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-5-11

USP83 8382

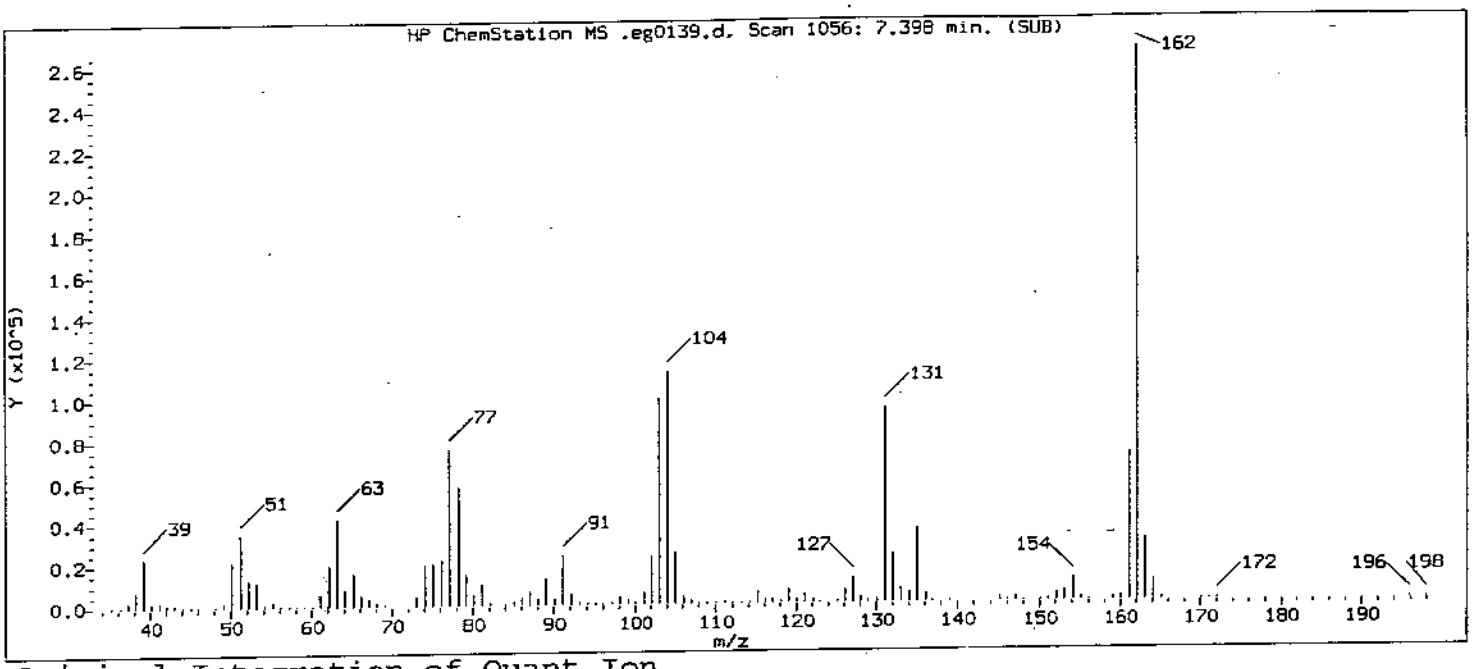
GC/MS audit/management approval: _____

JUL 07 2011

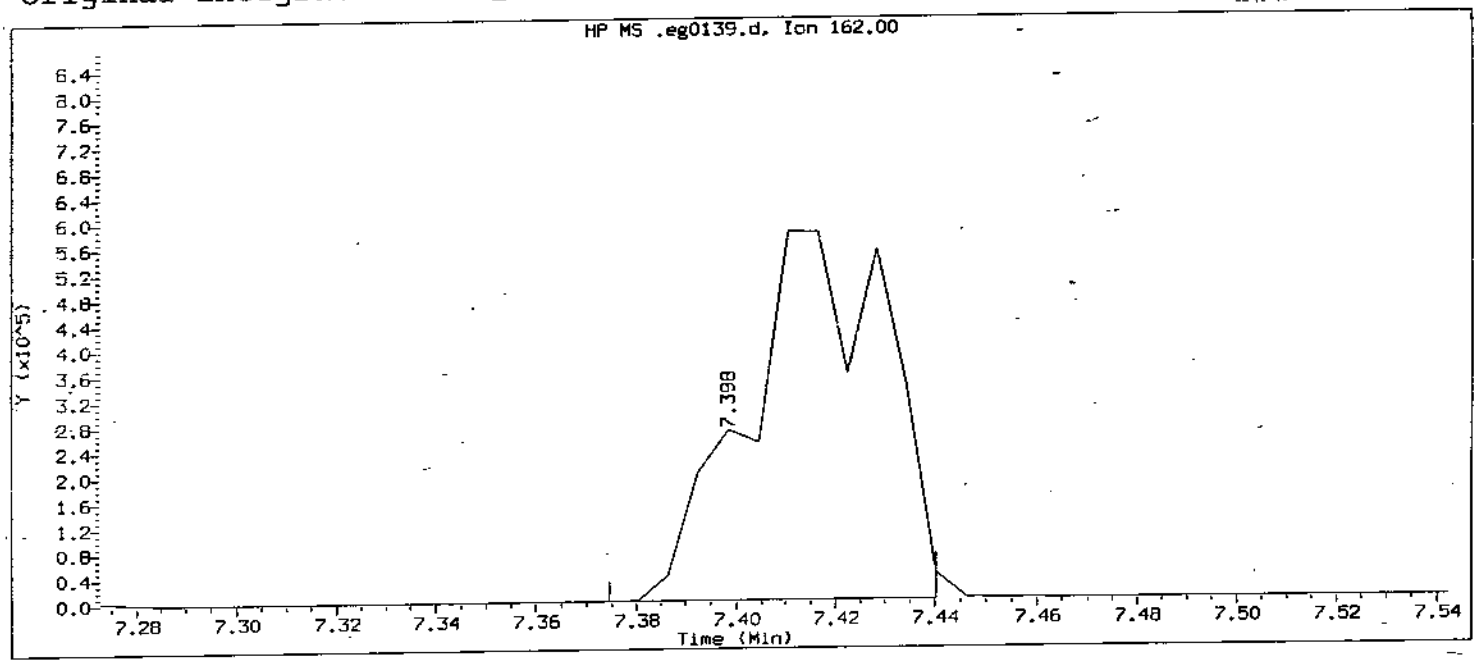
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0139.d, generated on 07/06/2011 at 02:03

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icvall1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:16 Automation

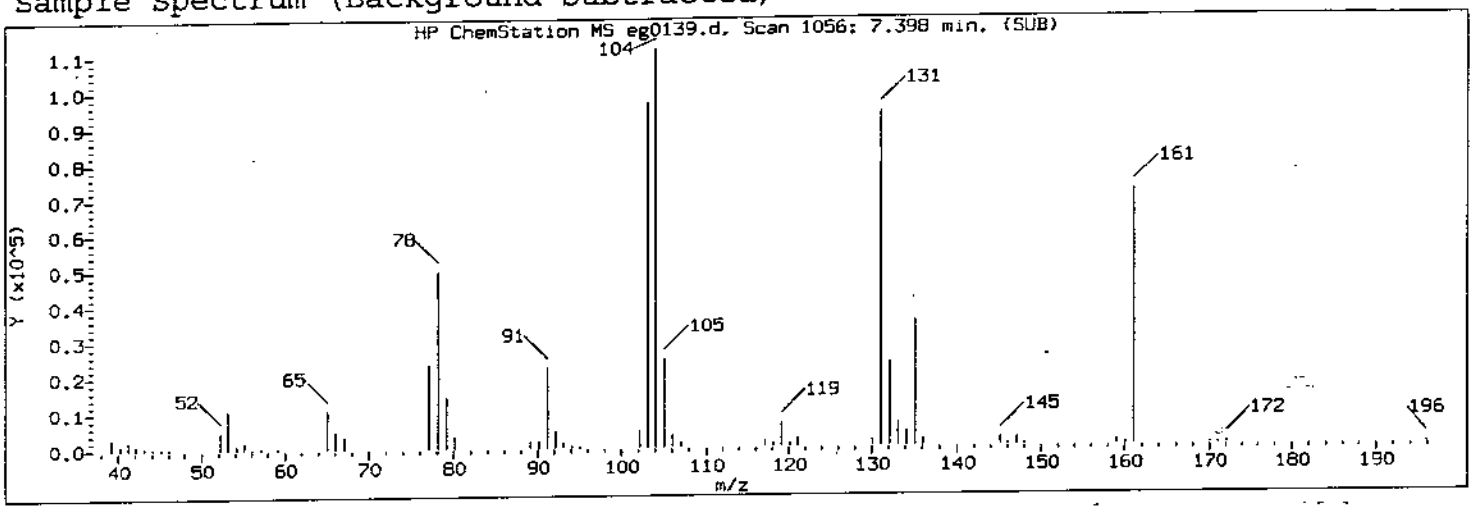
Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number	:	62
Compound Name	:	trans-Isosafrole
Scan Number	:	1056
Retention Time (minutes)	:	7.398
Quant Ion	:	162
Area	:	1142586
Concentration (ng/ul)	:	264.6239
Integration start scan	:	1051 Integration stop scan: 1062
Y at integration start	:	0 Y at integration end: 0

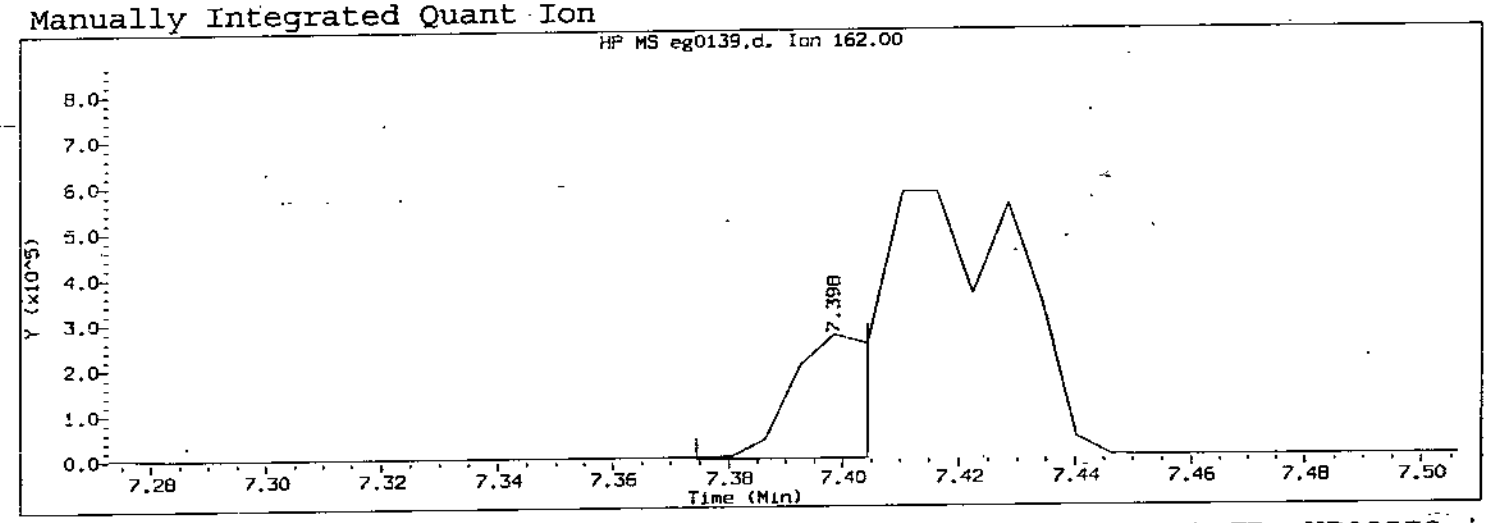
USEPA 8270

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0139.d, generated on 07/06/2011 at 02:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icval11
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number	:	63
Compound Name	:	Isosafrole
Scan Number	:	1056
Retention Time (minutes)	:	7.398
Quant Ion	:	162
Area (flag)	:	280390 M
Concentration (ng/ul)	:	68.3768
Integration start scan	:	1051 Integration stop scan: 1056
Y at integration start	:	-3614 Y at integration end: -3614

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 7-5-11

GC/MS audit/management approval: [signature]

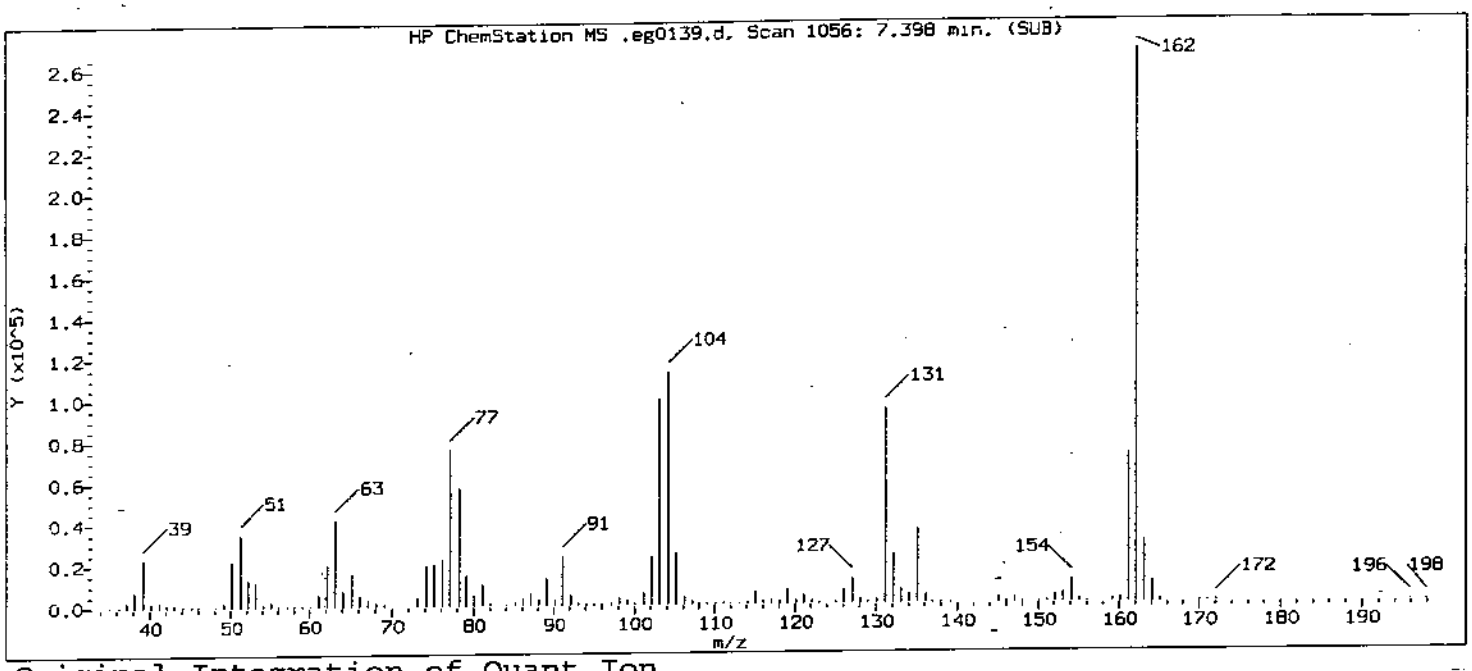
USEPA 0384

JUL 07 2011

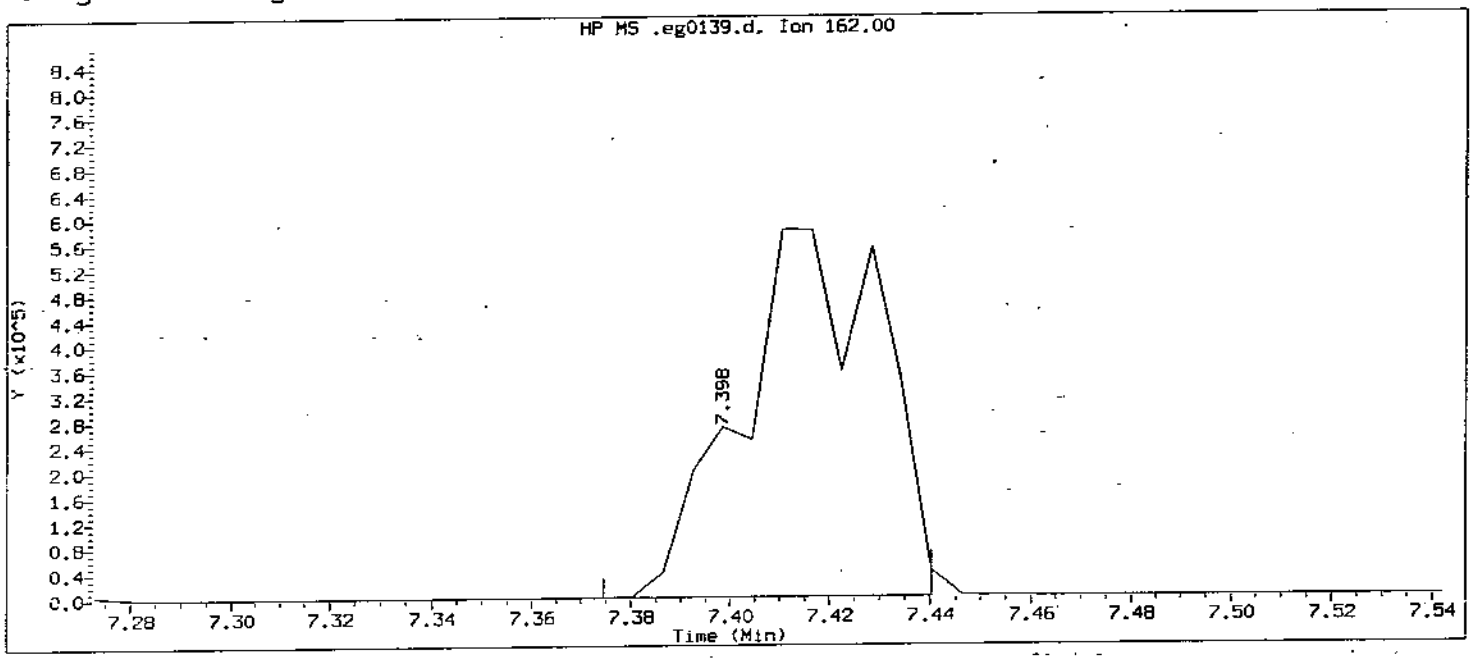
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0139.d, generated on 07/06/2011 at 02:03

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icval11
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:16 Automation

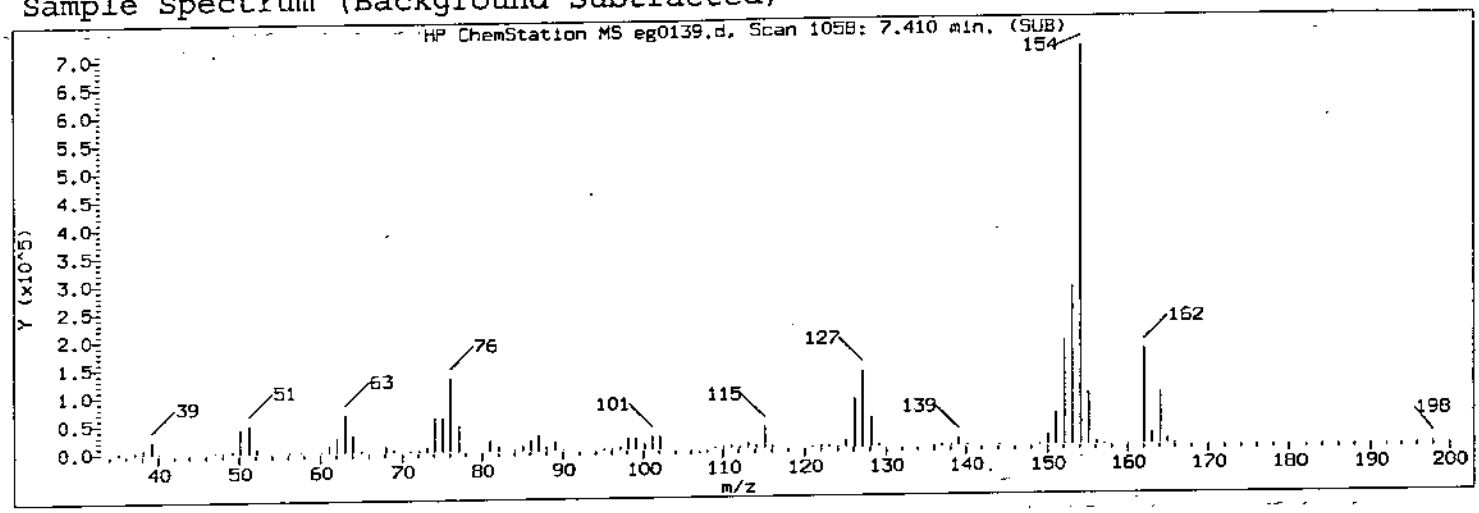
Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number : 63
Compound Name : Isosafrole
Scan Number : 1056
Retention Time (minutes): 7.398
Quant Ion : 162
Area : 1142586
Concentration (ng/ul) : 297.3302
Integration start scan : 1051 Integration stop scan: 1062
Y at integration start : 0 Y at integration end: 0

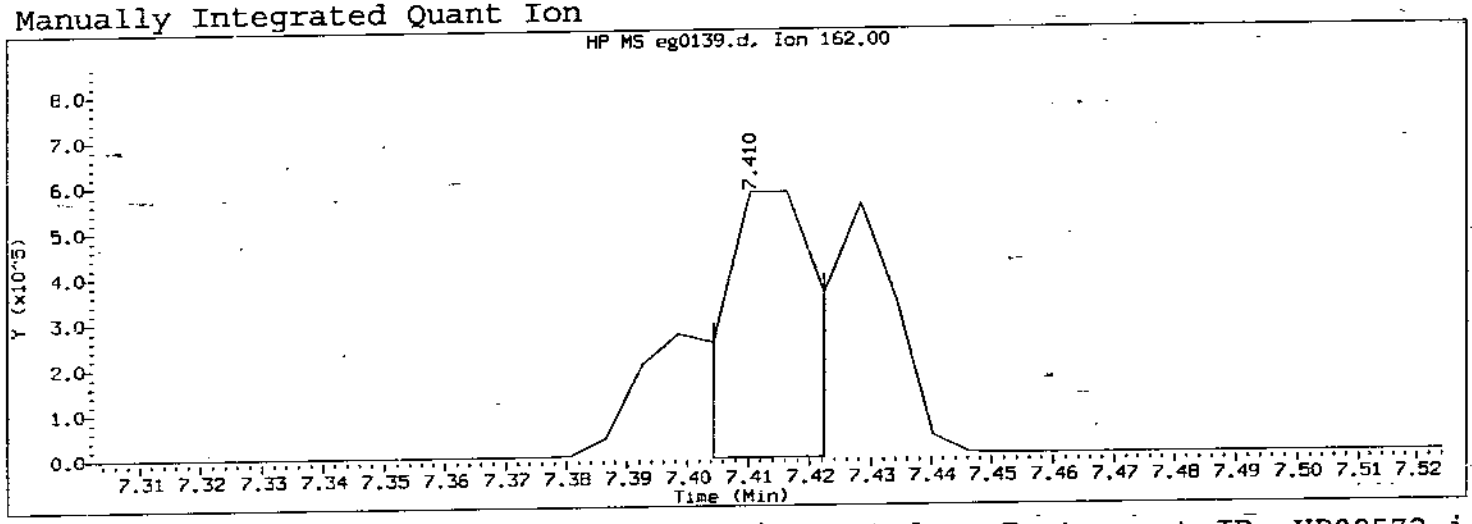
USF83 0385

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0139.d, generated on 07/06/2011 at 02:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icval11
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number	:	85
Compound Name	:	2-Chloronaphthalene
Scan Number	:	1058
Retention Time (minutes)	:	7.410
Quant Ion	:	162
Area (flag)	:	640687 M
Concentration (ng/ul)	:	57.6773
Integration start scan	:	1056
Integration stop scan	:	1059
Y at integration start	:	-5481
Y at integration end	:	-5481

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 7/06 25-11

USTR3 8386

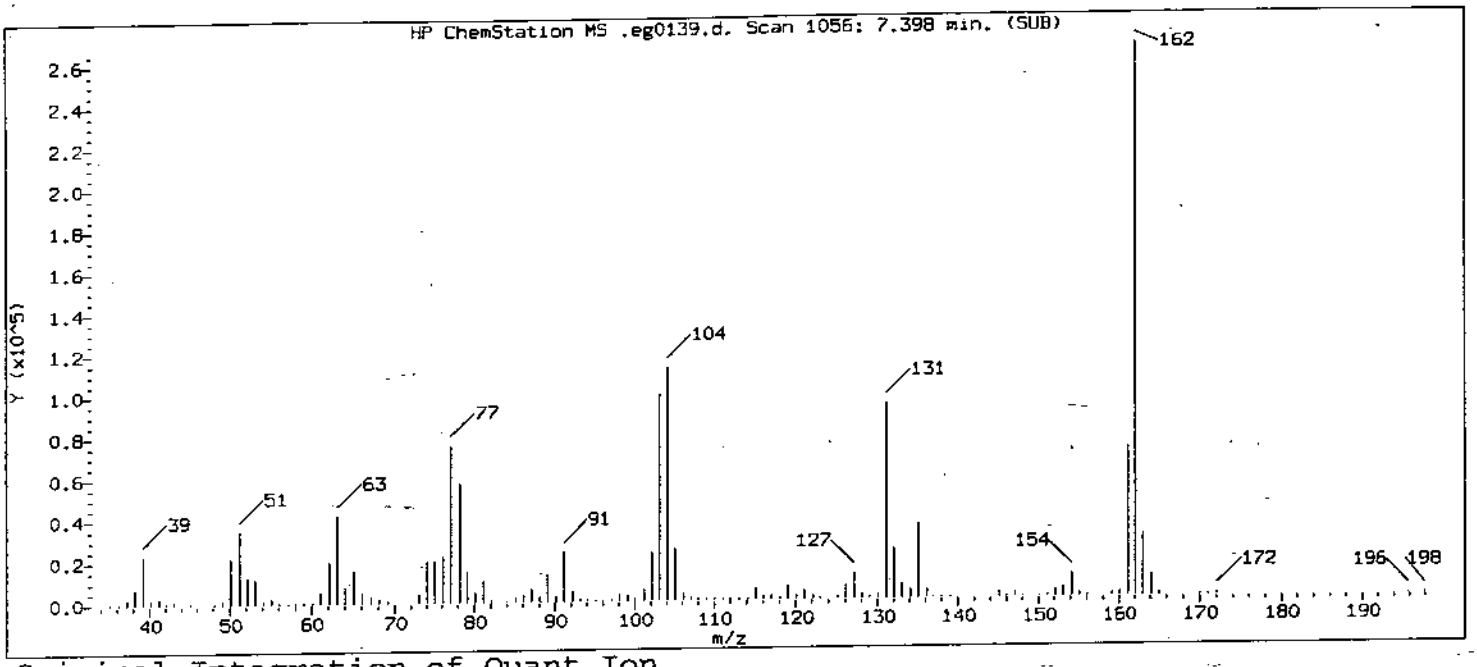
GC/MS audit/management approval: [signature]

JUL 07 2011

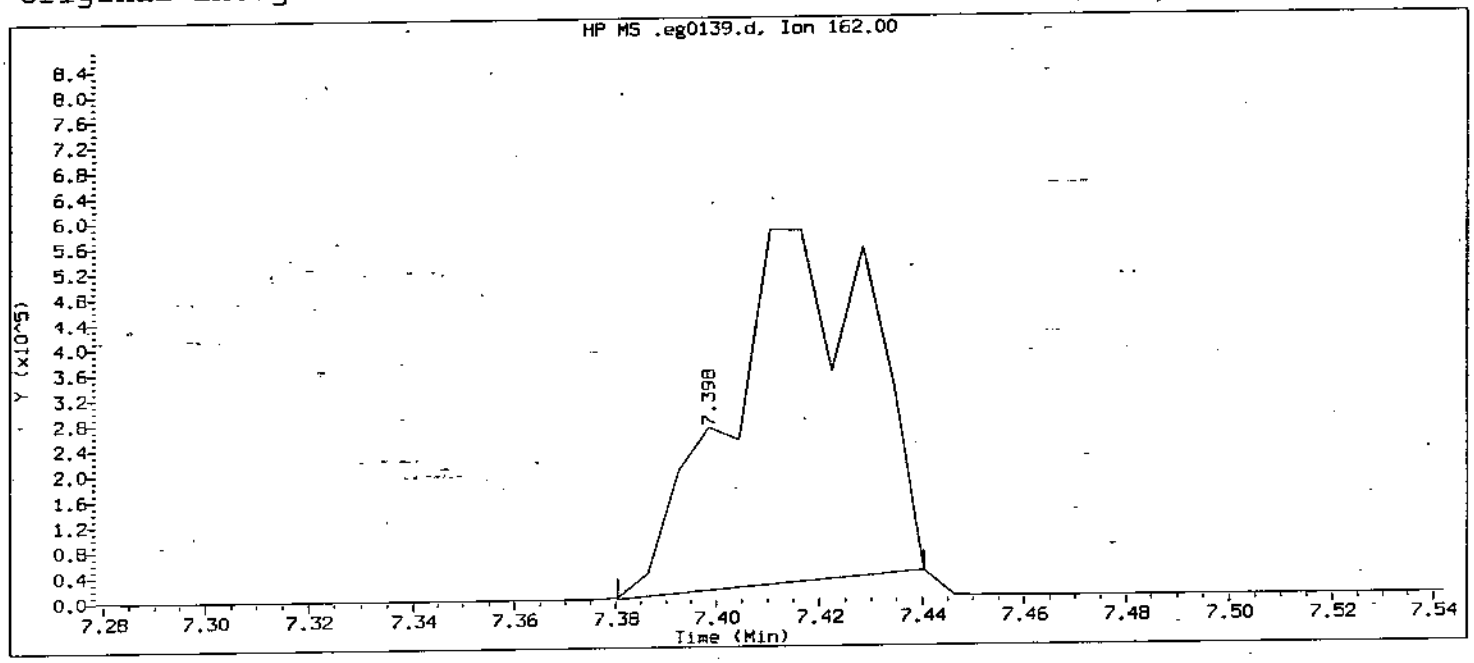
Manual Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0139.d, generated on 07/06/2011 at 02:04

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0139.d
Injection date and time: 06-JUL-2011 00:57

Instrument ID: HP09572.i
Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m
Calibration date and time: 06-JUL-2011 00:26

Sublist used: icvall1

Date, time and analyst ID of latest file update: 06-Jul-2011 01:16 Automation

Sample Name: SSTD050

Lab Sample ID: ICV0751

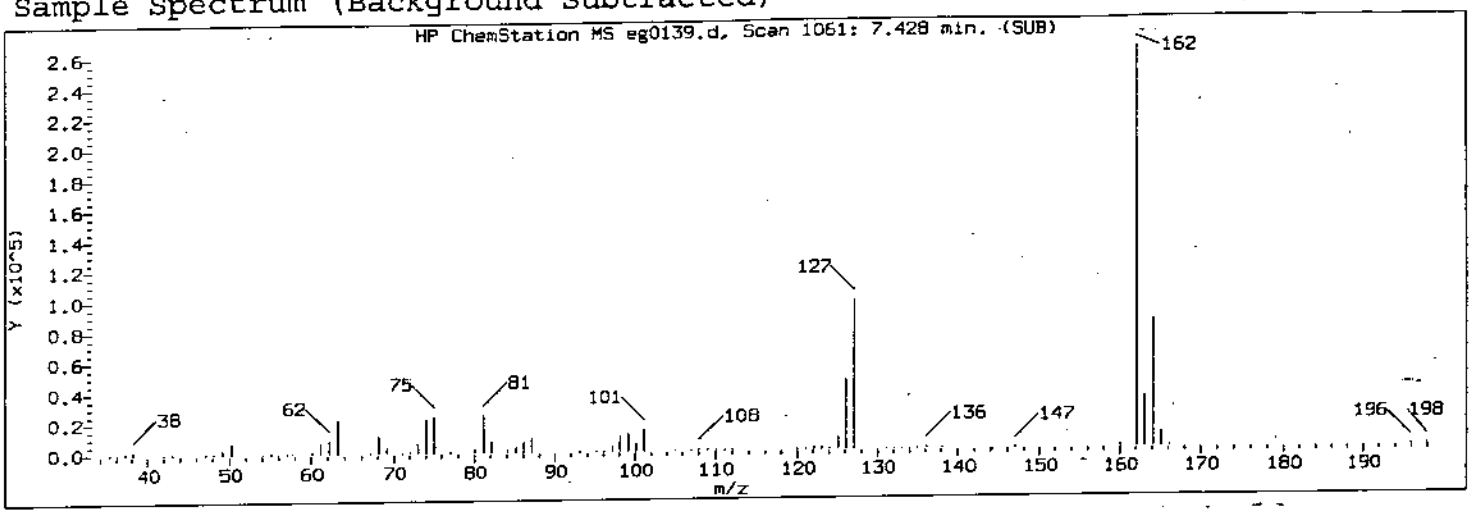
7/12/5
7-5-11

Compound Number	:	85
Compound Name	:	2-Chloronaphthalene
Scan Number	:	1056
Retention Time (minutes)	:	7.398
Quant Ion	:	162
Area	:	1068128
Concentration (ng/ul)	:	88.1477
Integration start scan	:	1052 Integration stop scan: 1062
Y at integration start	:	0 Y at integration end: 41288

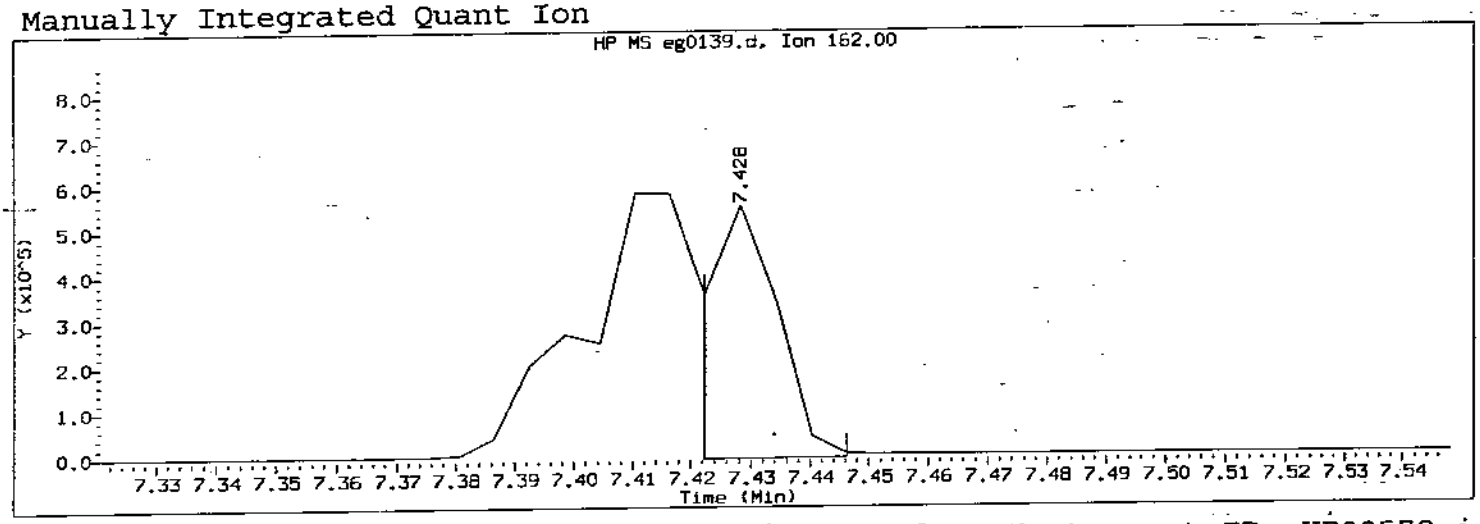
USI02 0307

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0139.d, generated on 07/06/2011 at 02:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icval11
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 02:03 rpb01568

Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number : 86
Compound Name : 1-Chloronaphthalene
Scan Number : 1061
Retention Time (minutes): 7.428
Quant Ion : 162
Area (flag) : 473840 M
Concentration (ng/ul) : 45.8062
Integration start scan : 1059 Integration stop scan: 1063
Y at integration start : -7267 Y at integration end: -5767

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: 7-05-11

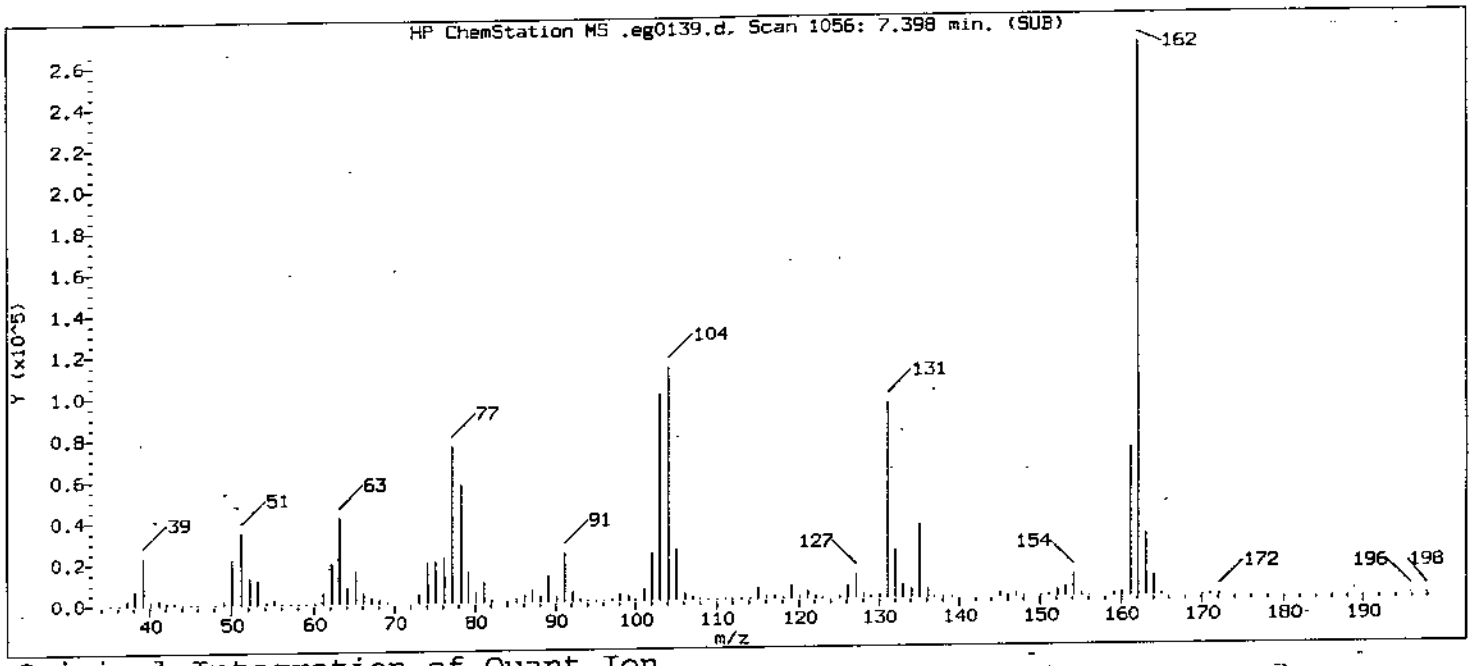
USF03 0080

GC/MS audit/management approval: JUL 07 2011

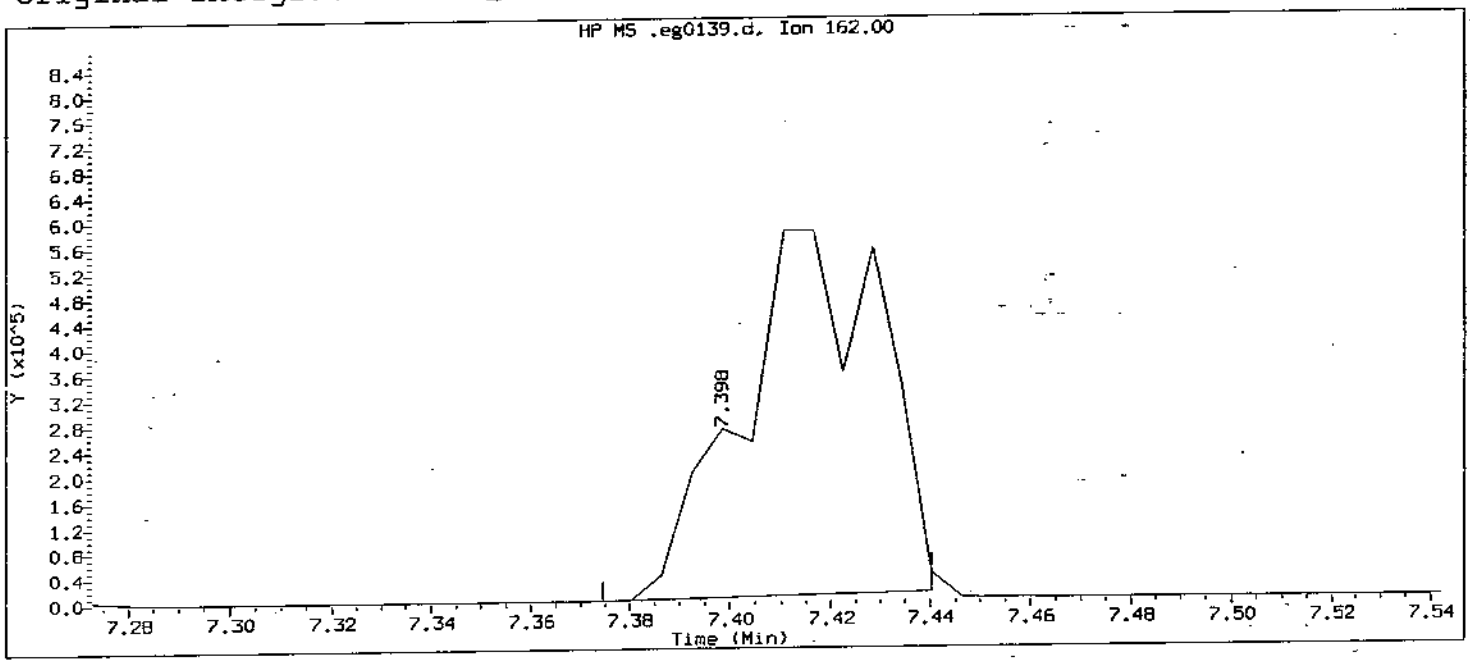
Manual Integration Report for data file /chem/HP09572.i/[illegible].d, generated on 07/06/2011 at 02:04

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul05a.b/eg0139.d Instrument ID: HP09572.i
Injection date and time: 06-JUL-2011 00:57 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul05a.b/m8270.m Sublist used: icvall1
Calibration date and time: 06-JUL-2011 00:26
Date, time and analyst ID of latest file update: 06-Jul-2011 01:16 Automation

Sample Name: SSTD050 Lab Sample ID: ICV0751

7-5-11

Compound Number : 86
Compound Name : 1-Chloronaphthalene
Scan Number : 1056
Retention Time (minutes): 7.398
Quant Ion : 162
Area : 1121542
Concentration (ng/ul) : 99.6471
Integration start scan : 1051 Integration stop scan: 1062
Y at integration start : 0 Y at integration end: 10660

USF03 8389

Original Integration Report for data file /chem/HP09572.i/11jul05a.b/eg0139.d, generated on 07/06/2011 at 02:04

Data File: /chem/HP09572.i/11jul15a.b/eg0590.d

Date : 15-JUL-2011 21:45

Client ID: DFTPP

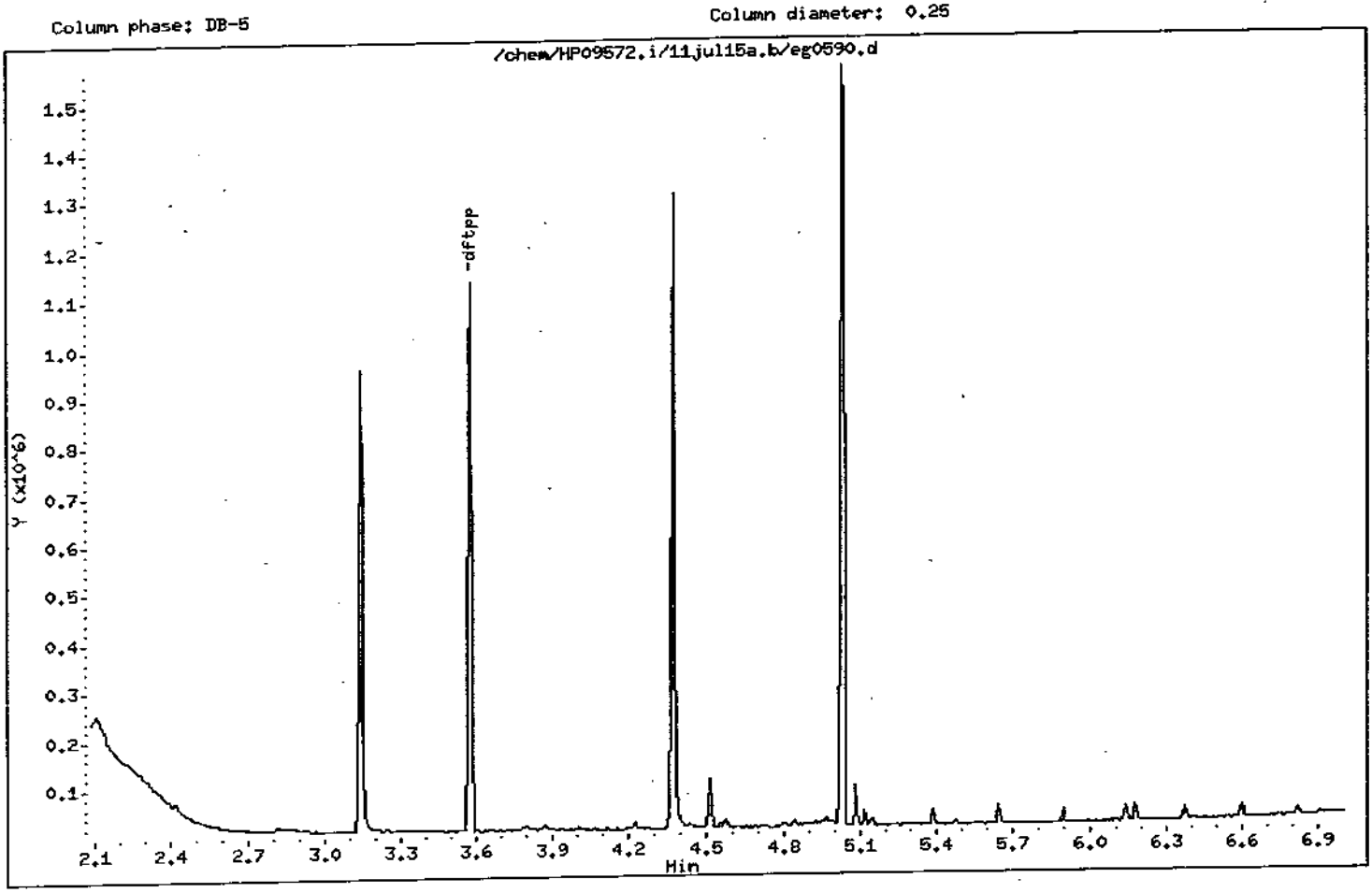
Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1261;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP09572.i/11jul15a.b/eg0590.d

Date : 15-JUL-2011 21:45

Client ID: DFTPP

Instrument: HP09572.i

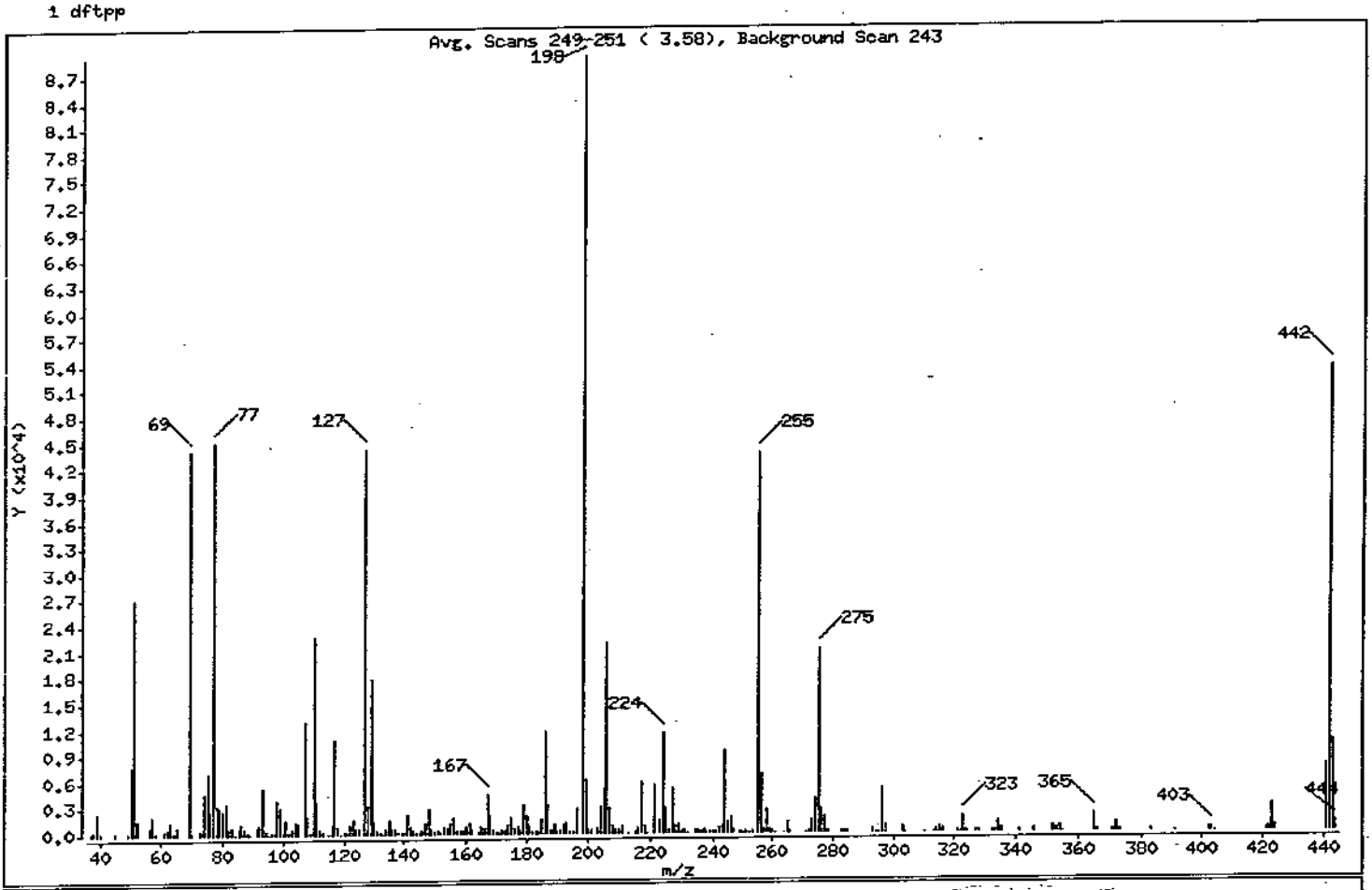
Sample Info: DFTPP;8270DFTPP1261;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.39
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.35
70	Less than 2.00% of mass 69	0.23 (0.47)
127	40.00 - 60.00% of mass 198	49.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.85
275	10.00 - 30.00% of mass 198	23.69
365	Greater than 1.00% of mass 198	2.33
441	Present, but less than mass 443	8.56
442	40.00 - 99.99% of mass 198	59.85
443	17.00 - 23.00% of mass 442	11.39 (19.02)

USEPA 03391

Data File: /chem/HP09572.i/11jul15a.b/eg0590.d

Date : 15-JUL-2011 21:45

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1261;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

Data File: eg0590.d

Spectrum: Avg. Scans 249-251 (3.58), Background Scan 243

Location of Maximum: 198.00

Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	126	121.00	171	187.00	3338	260.00	135
38.00	507	122.00	937	188.00	359	261.00	61
39.00	2506	123.00	1564	189.00	957	264.00	74
40.00	169	124.00	652	190.00	216	265.00	1190
45.00	133	125.00	515	191.00	394	266.00	198
49.00	165	127.00	44320	192.00	973	271.00	62
50.00	7827	128.00	3303	193.00	1219	272.00	174
51.00	27120	129.00	17872	194.00	263	273.00	1417
52.00	1659	130.00	1474	195.00	222	274.00	3914
56.00	915	131.00	376	196.00	2949	275.00	21144
57.00	2113	132.00	134	198.00	89248	276.00	2741
58.00	128	133.00	75	199.00	6118	277.00	1759
61.00	413	134.00	635	200.00	440	278.00	191
62.00	555	135.00	1576	201.00	464	283.00	189
63.00	1504	136.00	565	203.00	596	284.00	152
64.00	194	137.00	697	204.00	3137	285.00	292
65.00	873	138.00	186	205.00	5173	293.00	424
69.00	44040	139.00	135	206.00	21896	294.00	50
70.00	209	140.00	200	207.00	2892	295.00	89
73.00	385	141.00	2347	208.00	906	296.00	5192
74.00	4667	142.00	751	209.00	376	297.00	800
75.00	6904	143.00	503	210.00	345	303.00	647
76.00	2604	144.00	163	211.00	902	304.00	92
77.00	45096	145.00	160	213.00	55	310.00	67
78.00	3225	146.00	487	215.00	285	313.00	64
79.00	3137	147.00	1280	216.00	526	314.00	310
80.00	2684	148.00	2843	217.00	5933	315.00	590
81.00	3447	149.00	702	218.00	735	316.00	339
82.00	682	150.00	181	219.00	54	321.00	141
83.00	742	151.00	430	221.00	5582	322.00	57
84.00	84	152.00	289	223.00	1377	323.00	1774
85.00	643	153.00	737	224.00	11418	324.00	304
86.00	1203	154.00	524	225.00	2897	327.00	300
87.00	527	155.00	1262	226.00	357	328.00	160
88.00	173	156.00	1842	227.00	5084	332.00	121

USF03 0392

Data File: /chem/HP09572.i/11jul15a.b/eg0590.d

Date : 15-JUL-2011 21:45

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1261;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

Data File: eg0590.d

Spectrum: Avg. Scans 249-251 (3.58), Background Scan 243

Location of Maximum: 198.00

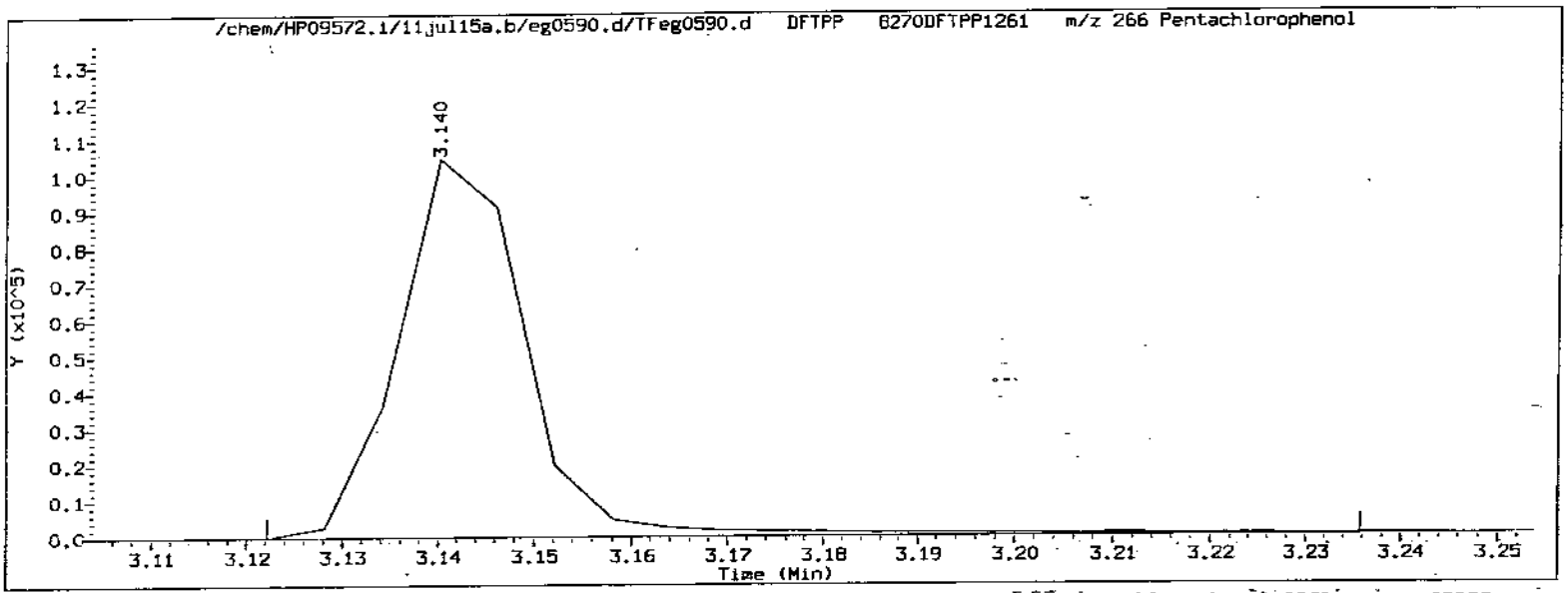
Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
89.00	66	157.00	418	228.00	751	333.00	178
91.00	796	158.00	433	229.00	1099	334.00	1279
92.00	997	159.00	378	230.00	156	335.00	395
93.00	5379	160.00	820	231.00	510	341.00	134
94.00	420	161.00	1145	232.00	58	346.00	384
95.00	90	162.00	352	234.00	308	352.00	513
96.00	130	164.00	168	235.00	338	353.00	310
97.00	169	165.00	775	236.00	235	354.00	611
98.00	3951	166.00	697	237.00	390	355.00	75
99.00	3136	167.00	4531	238.00	63	365.00	2081
100.00	278	168.00	2061	239.00	168	366.00	269
101.00	1648	169.00	338	240.00	120	371.00	110
102.00	149	170.00	159	241.00	262	372.00	999
103.00	657	171.00	303	242.00	600	373.00	191
104.00	1351	172.00	434	243.00	726	383.00	117
105.00	1261	173.00	455	244.00	9472	391.00	65
107.00	12914	174.00	1018	245.00	1166	402.00	331
108.00	1981	175.00	1937	246.00	1755	403.00	481
109.00	193	176.00	611	247.00	403	404.00	69
110.00	22688	177.00	767	249.00	293	421.00	298
111.00	3687	178.00	363	250.00	74	422.00	406
112.00	523	179.00	3212	251.00	110	423.00	3011
113.00	171	180.00	2111	252.00	73	424.00	630
115.00	96	181.00	913	253.00	232	441.00	7641
116.00	953	182.00	176	255.00	43712	442.00	53416
117.00	10962	183.00	186	256.00	6854	443.00	10162
118.00	817	184.00	270	257.00	441	444.00	964
119.00	1	185.00	1638	258.00	2708		
120.00	181	186.00	11782	259.00	426		

USP83 0393

Assessment of GC Column Performance and Injection Port Inertness for

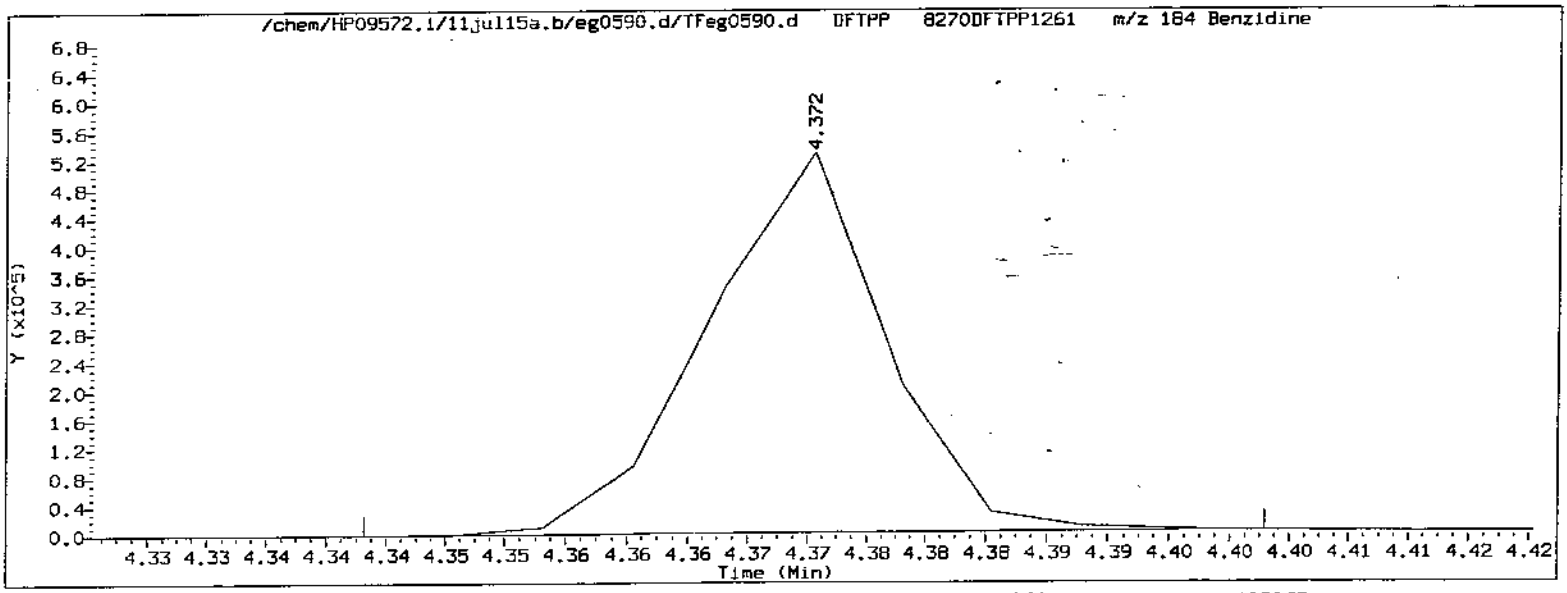
Instrument ID: HP09572.i Injection Date: 15-JUL-2011 21:45 Operator: rpb01568



Pentachlorophenol EICP peak height = 104632 EICP peak height at 10% = 10463 Pentachlorophenol EICP area = 97275

Pentachlorophenol EICP peak apex (min.) = 3.140
RT at 10% of front half of EICP (min.) = 3.130 'Front' peak width (min.) = 0.0105833333
RT at 10% of back half of EICP (min.) = 3.156 'Tailing' peak width (min.) = 0.0156833333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0156833333}{0.0105833333} = 1.482$



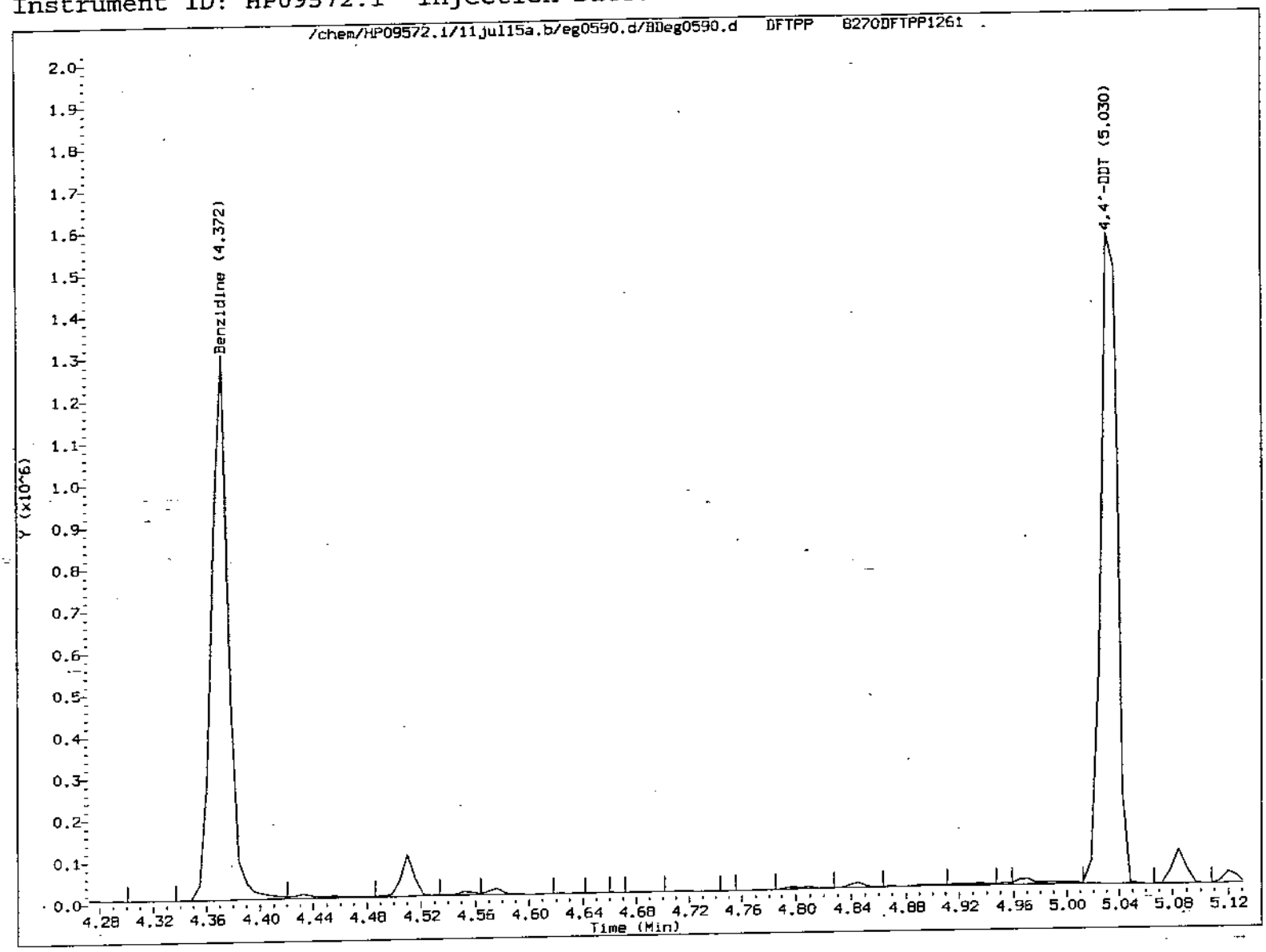
Benzidine EICP peak height = 527122 EICP peak height at 10% = 52712 Benzidine EICP area = 435965

Benzidine EICP peak apex (min.) = 4.372
RT at 10% of front half of EICP (min.) = 4.358 'Front' peak width (min.) = 0.0148666667
RT at 10% of back half of EICP (min.) = 4.384 'Tailing' peak width (min.) = 0.0111333333

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0111333333}{0.0148666667} = 0.749$

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP09572.i Injection Date: 15-JUL-2011 21:45 Operator: rpb01568

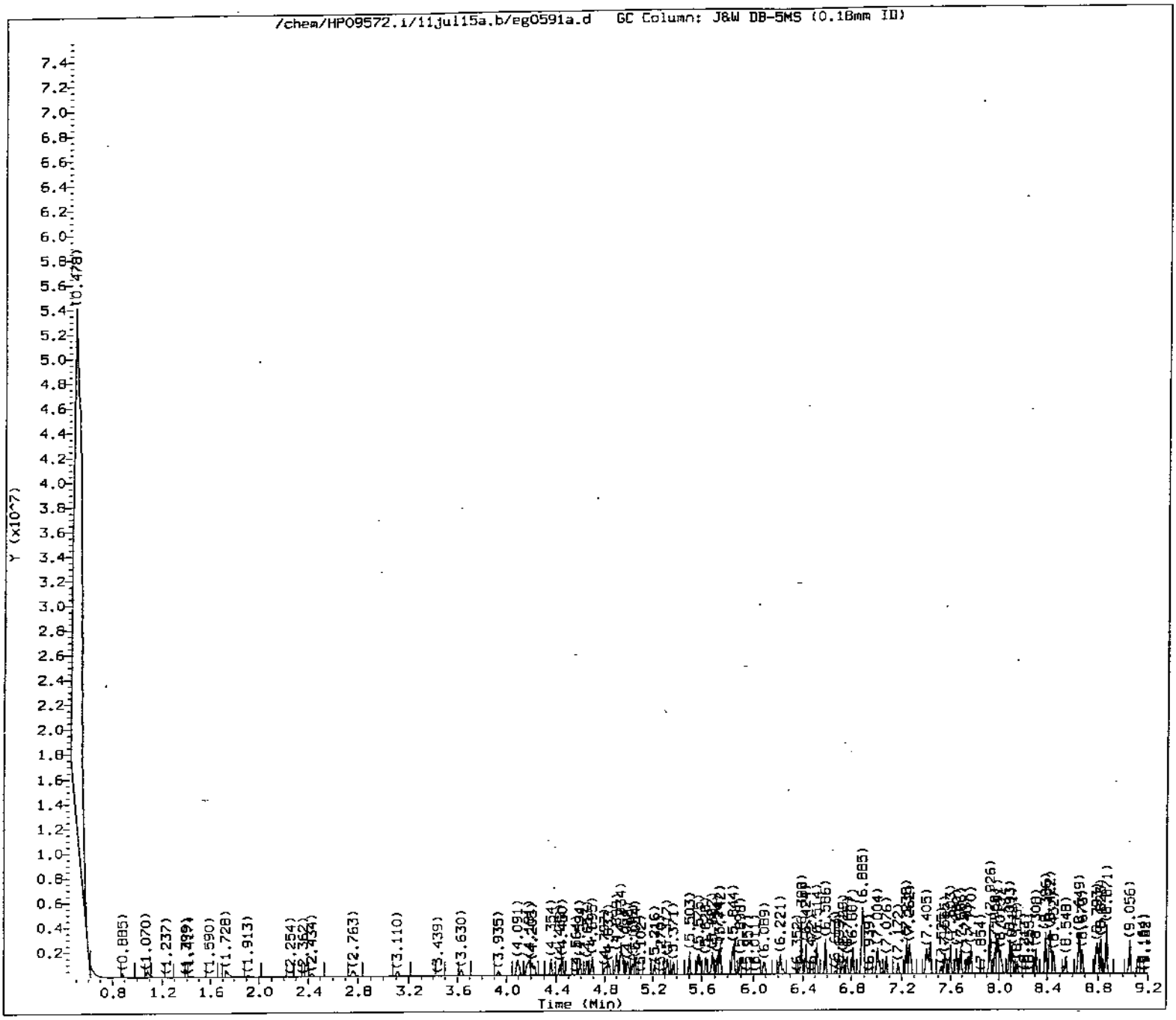


$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 0}{0 + 0 + 1367853} \times 100 = 0.0$$

USF03 0395

printed on 07/16/2011 at 02:00



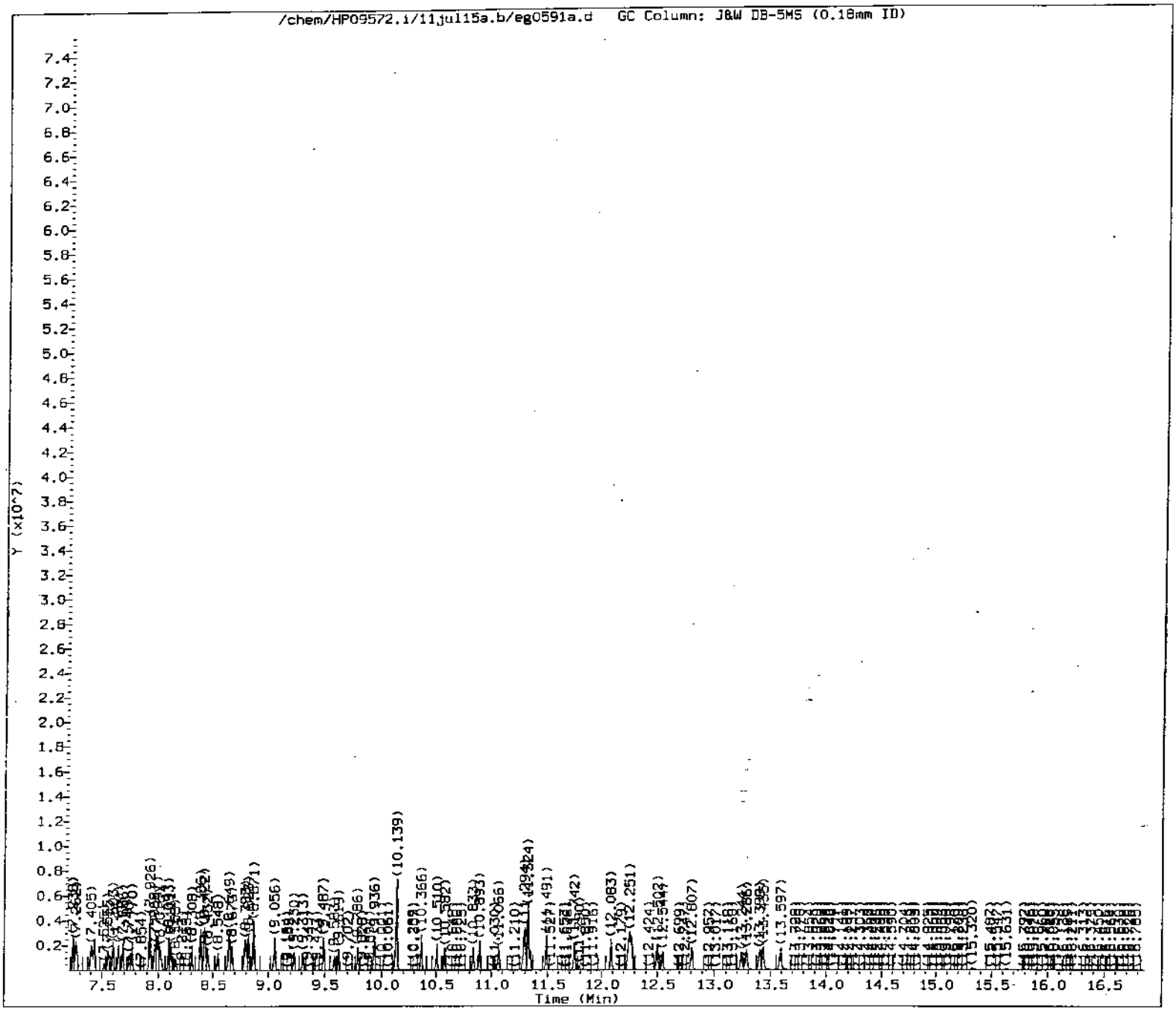
Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 04:43
Date, time and analyst ID of latest file update: 19-Jul-2011 04:43 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 04:43
Date, time and analyst ID of latest file update: 19-Jul-2011 04:43 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 04:43
Date, time and analyst ID of latest file update: 19-Jul-2011 04:43 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	0.885	88	91891	45.7446
3)	N-Nitrosodimethylamine	(1)	1.070	74	183804 A	50.2654
4)	Pyridine	(1)	1.082	79	308305	53.3652
6)	2-Picoline	(1)	1.728	93	309943	55.2169
2)	N-Nitrosomethylethylamine	(1)	1.758	88	138899	57.1623
8)	Methyl methanesulfonate	(1)	2.434	80	157745	45.6544
9)	N-Nitrosodiethylamine	(1)	3.110	102	138613	50.6519
15)	Ethyl methanesulfonate	(1)	3.630	109	134751	49.0310
22)	Phenol	(1)	4.181	94	365321	47.7152
21)	Aniline	(1)	4.091	93	445215	50.2036
33)	Pentachloroethane	(1)	4.103	167	91359	52.0792
23)	bis(2-Chloroethyl)ether	(1)	4.223	93	294458	50.2459
24)	2-Chlorophenol	(1)	4.205	128	268895	51.1551
26)	1,3-Dichlorobenzene	(1)	4.354	146	285768	51.4893
27)	1,4-Dichlorobenzene-d4	(1)	4.432	152	135357	40.0000
28)	1,4-Dichlorobenzene	(1)	4.450	146	290484	50.5889
31)	Benzyl alcohol	(1)	4.653	108	180055	48.2524
32)	1,2-Dichlorobenzene	(1)	4.594	146	276442	50.5806
17)	Indene	(1)	4.695	115	414349	46.5961
34)	2-Methylphenol	(1)	4.833	108	259172 A	49.7655
35)	2,2'-oxybis(1-Chloropropane)	(1)	4.809	45	263327	39.6331
36)	bis(2-Chloroisopropyl)ether	(1)	4.809	45	263327	39.6331
30)	N-Nitrosopyrrolidine	(1)	4.899	100	155642	48.7610
37)	Acetophenone	(1)	4.899	105	398471	49.0311
38)	N-Nitroso-di-n-propylamine	(1)	4.946	70	251894	45.6199
39)	4-Methylphenol	(1)	4.988	108	280899 A	48.3168
7)	N-Nitrosomorpholine	(1)	4.952	56	157852	39.9355
40)	o-Toluidine	(1)	4.934	106	461050	49.5180
41)	Hexachloroethane	(1)	4.940	117	111689	50.9329
43)	Nitrobenzene	(2)	5.054	77	336198	48.3382
18)	N-Nitrosopiperidine	(2)	5.216	114	145664	50.5846
46)	Isophorone	(2)	5.317	82	608878	48.5616
47)	2-Nitrophenol	(2)	5.371	139	155301	56.4680
48)	2,4-Dimethylphenol	(2)	5.503	107	304584	51.0743
93)	O,O,O-triethylphosphorothioate	(2)	5.575	198	146719	53.4068
49)	bis(2-Chloroethoxy)methane	(2)	5.587	93	457090	65.8264
50)	Benzoic acid	(2)	5.688	105	170627	37.4124
51)	2,4-Dichlorophenol	(2)	5.628	162	237447	50.9968
52)	1,2,4-Trichlorobenzene	(2)	5.682	180	263457	53.3970
53)	Naphthalene-d8	(2)	5.724	136	599454	40.0000
54)	Naphthalene	(2)	5.742	128	833607	51.3234
56)	4-Chloroaniline	(2)	5.850	127	355249	49.8393
55)	2,6-Dichlorophenol	(2)	5.844	162	236192	50.9056

M = Compound was manually integrated. A = User selected an alternate hit

USP03 0398

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 04:43
Date, time and analyst ID of latest file update: 19-Jul-2011 04:43 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44) Hexachloropropene	(2)	5.832	213	149144	55.6371
59) Hexachlorobutadiene	(2)	5.898	225	127544	55.5883
65) Quinoline	(2)	6.089	129	540420	48.5249
66) Caprolactam	(2)	6.245	113	113758	48.9945
5) N-Nitrosodi-n-butylamine	(2)	6.221	84	295429	56.5051
68) 4-Chloro-3-methylphenol	(2)	6.382	107	280602	51.2814
61) Safrole	(2)	6.388	162	230533	51.4629
64) cis-Isosafrole	(3)	6.669	162	39973	5.8029
69) 2-Methylnaphthalene	(2)	6.424	142	571883	49.8814
71) 1-Methylnaphthalene	(2)	6.514	142	539879	49.6339
72) Hexachlorocyclopentadiene	(3)	6.586	237	139740	58.7661
73) 1,2,4,5-Tetrachlorobenzene	(3)	6.586	216	253568	54.6203
62) trans-Isosafrole	(3)	6.879	162	371764M	67.5602
76) 2,4,6-Trichlorophenol	(3)	6.729	196	177221	56.9968
77) 2,4,5-Trichlorophenol	(3)	6.765	196	194814	54.2954
63) Isosafrole	(3)	6.879	162	378131M	76.9301
82) Biphenyl	(3)	6.891	154	713756	51.3708
83) Diphenyl	(3)	6.891	154	713756	51.3708
84) 1,1'-Biphenyl	(3)	6.891	154	713756	51.3708
85) 2-Chloronaphthalene	(3)	6.885	162	929553M	71.9083
86) 1-Chloronaphthalene	(3)	6.897	162	612616M	50.8894
87) Diphenyl ether	(3)	7.004	170	384630	52.5775
88) 2-Nitroaniline	(3)	7.022	138	197024	53.7287
60) 1,4-Naphthoquinone	(3)	7.076	158	234569	55.6174
57) 1,4-Dinitrobenzene	(3)	7.172	168	105367	53.2728
92) Dimethylphthalate	(3)	7.238	163	654740	50.5790
58) 1,3-Dinitrobenzene	(3)	7.238	168	119508	55.1961
98) 2,6-Dinitrotoluene	(3)	7.280	165	159454	53.2449
100) Acenaphthylene	(3)	7.262	152	850021	51.6968
102) 3-Nitroaniline	(3)	7.417	138	169235	50.6728
103) Acenaphthene-d10	(3)	7.399	164	384971	40.0000
106) Acenaphthene	(3)	7.435	153	552807	50.9075
107) 2,4-Dinitrophenol	(3)	7.525	184	89607	60.9576
110) Pentachlorobenzene	(3)	7.561	250	217024	54.2018
109) 4-Nitrophenol	(3)	7.650	109	91830	42.2808
112) Dibenzofuran	(3)	7.603	168	782970	50.8170
113) 2,4-Dinitrotoluene	(3)	7.650	165	210066	53.3063
114) 1-Naphthylamine	(3)	7.686	143	623220	50.4036
115) 2,3,4,6-Tetrachlorophenol	(3)	7.740	232	156060	57.6112
117) 2-Naphthylamine	(3)	7.770	143	636152	50.3593
118) Diethylphthalate	(3)	7.926	149	641804	51.8168
119) Fluorene	(3)	7.926	166	674437	51.3371
29) Thionazin	(3)	7.991	107	126183	49.9746

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 04:43
Date, time and analyst ID of latest file update: 19-Jul-2011 04:43 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	7.968	204	314418	52.1352
70)	5-Nitro-o-toluidine	(3)	7.979	152	201790	49.8900
121)	4-Nitroaniline	(3)	7.997	138	180988	49.3322
122)	4,6-Dinitro-2-methylphenol	(4)	8.027	198	126369	54.9726
67)	1-Nitronaphthalene	(4)	8.015	173	131536	51.0609
123)	N-Nitrosodiphenylamine	(4)	8.093	169	571798	50.7543
124)	NDPA as diphenylamine	(4)	8.093	169	571798	50.8896
125)	1,2-Diphenylhydrazine	(4)	8.111	77	730503	45.3871
108)	Tetraethyldithiopyrophosphate	(4)	8.308	97	111938	49.4761
81)	1,3,5-Trinitrobenzene	(4)	8.422	213	87235	54.0433
78)	Diallate (peak 1)	(4)	8.386	86	268709	38.1525
75)	Phorate	(4)	8.392	75	469709	34.0534
80)	Phenacetin	(4)	8.452	108	352815	48.7343
131)	4-Bromophenyl-phenylether	(4)	8.422	248	181980	54.3497
13)	Diallate (peak 2)	(4)	8.458	86	54542	12.8356
132)	Hexachlorobenzene	(4)	8.428	284	172154	53.1620
96)	Dimethoate	(4)	8.548	87	267390	51.8382
135)	Pentachlorophenol	(4)	8.643	266	119453	58.8714
136)	Pentachloronitrobenzene	(4)	8.649	237	73291	49.1688
105)	4-Aminobiphenyl	(4)	8.673	169	594700	49.9664
97)	Pronamide	(4)	8.787	173	295384	52.2206
140)	Phenanthrene-d10	(4)	8.799	188	655705	40.0000
141)	Phenanthrene	(4)	8.823	178	970741	50.1650
137)	Dinoseb	(4)	8.871	211	176004	56.6014
143)	Anthracene	(4)	8.871	178	1005348	50.9664
145)	Carbazole	(4)	9.056	167	915800	49.9105
149)	Methyl parathion	(4)	9.230	109	210883	51.2023
148)	Di-n-butylphthalate	(4)	9.487	149	1076906	51.6466
150)	Parathion	(4)	9.619	109	144534	47.8930
133)	4-Nitroquinoline-1-oxide	(4)	9.583	190	102272	57.1510
99)	Isodrin	(4)	9.786	193	108351	52.2543
153)	Fluoranthene	(4)	9.936	202	1004581	51.8203
154)	Benzidine	(5)	10.139	184	1738569	156.5672
155)	Pyrene	(5)	10.139	202	1074803	53.3893
147)	p-Dimethylaminoazobenzene	(5)	10.510	225	223721	57.0934
144)	Chlorobenzilate	(5)	10.576	139	317944	51.2793
161)	3,3'-Dimethylbenzidine	(5)	10.833	212	580243	50.9984
162)	Butylbenzylphthalate	(5)	10.893	149	478949	53.5725
101)	2-Acetylaminofluorene	(5)	11.066	181	458114	52.9370
165)	3,3'-Dichlorobenzidine	(5)	11.324	252	368380	54.9942
164)	Benzo(a)anthracene	(5)	11.294	228	940221	52.3873
167)	4,4'-Methylenebis(2-Chloroanil	(5)	11.341	231	185242	53.8253
166)	Chrysene-d12	(5)	11.300	240	654069	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 04:43
Date, time and analyst ID of latest file update: 19-Jul-2011 04:43 rpb01568

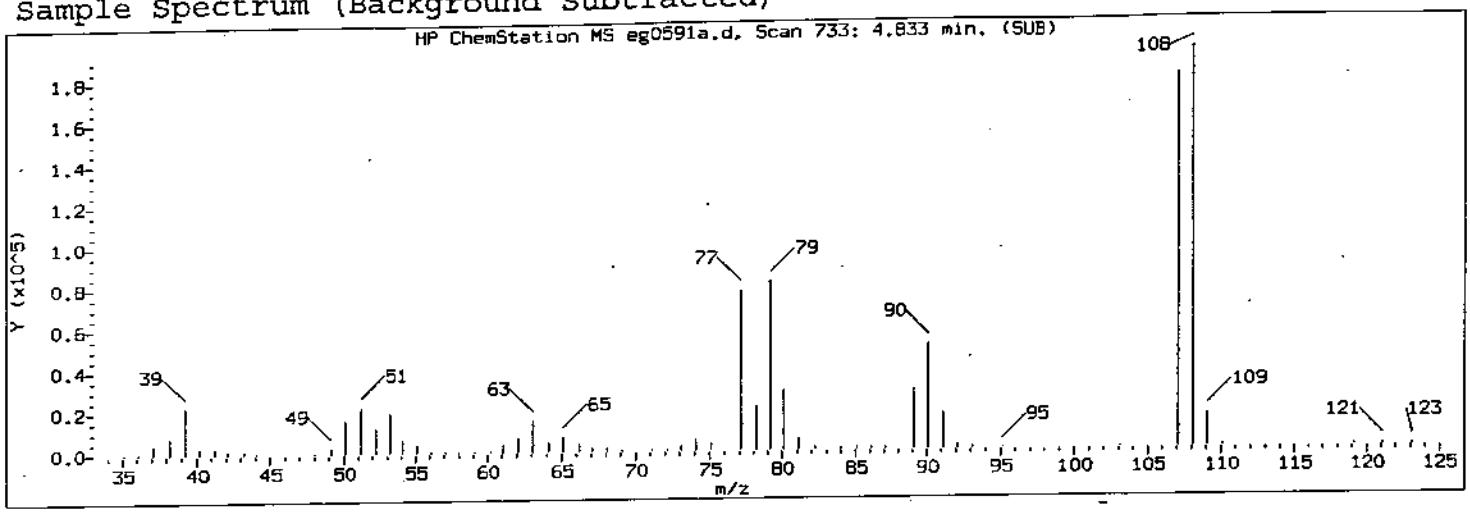
Sample Name: SSTD050 Lab Sample ID: STD1891

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168) Chrysene	(5)	11.324	228	977957	52.0175
169) bis(2-Ethylhexyl)phthalate	(5)	11.491	149	654319	54.5468
170) 6-Methylchrysene	(5)	11.748	242	682969	53.9144
172) Di-n-octylphthalate	(6)	12.083	149	1084440	54.5752
174) 7,12-Dimethylbenz[a]anthracene	(6)	12.257	256	453522	57.1106
173) Benzo(b)fluoranthene	(6)	12.245	252	921341	56.6189
175) Benzo(k)fluoranthene	(6)	12.269	252	918179	54.6407
176) Benzo(a)pyrene	(6)	12.502	252	872801	57.6830
177) Perylene-d12	(6)	12.550	264	552660	40.0000
180) 3-Methylcholanthrene	(6)	12.807	268	497270	60.4009
181) Dibenz(a,h)acridine	(6)	13.244	279	651868	55.5646
183) Dibenz(a,j)acridine	(6)	13.286	279	770636	59.5228
185) Indeno(1,2,3-cd)pyrene	(6)	13.405	276	932596	57.4017
187) Dibenz(a,h)anthracene	(6)	13.435	278	811284	57.7826
188) Benzo(g,h,i)perylene	(6)	13.597	276	804660	56.9423
194) Diallate TRANS/CIS	(4)	23.556	86	323251	50.9880
11) 2-Fluorophenol	(1)	2.763	112	249940	51.8515
19) Phenol-d5	(1)	4.169	99	349404	49.9725
20) Phenol-d6	(1)	4.169	99	349404	49.9725
42) Nitrobenzene-d5	(2)	5.030	82	329989	48.5856
79) 2-Fluorobiphenyl	(3)	6.813	172	619703	52.7943
126) 2,4,6-Tribromophenol	(3)	8.159	330	80914	60.9175
157) Terphenyl-d14	(5)	10.366	244	768382	55.4810

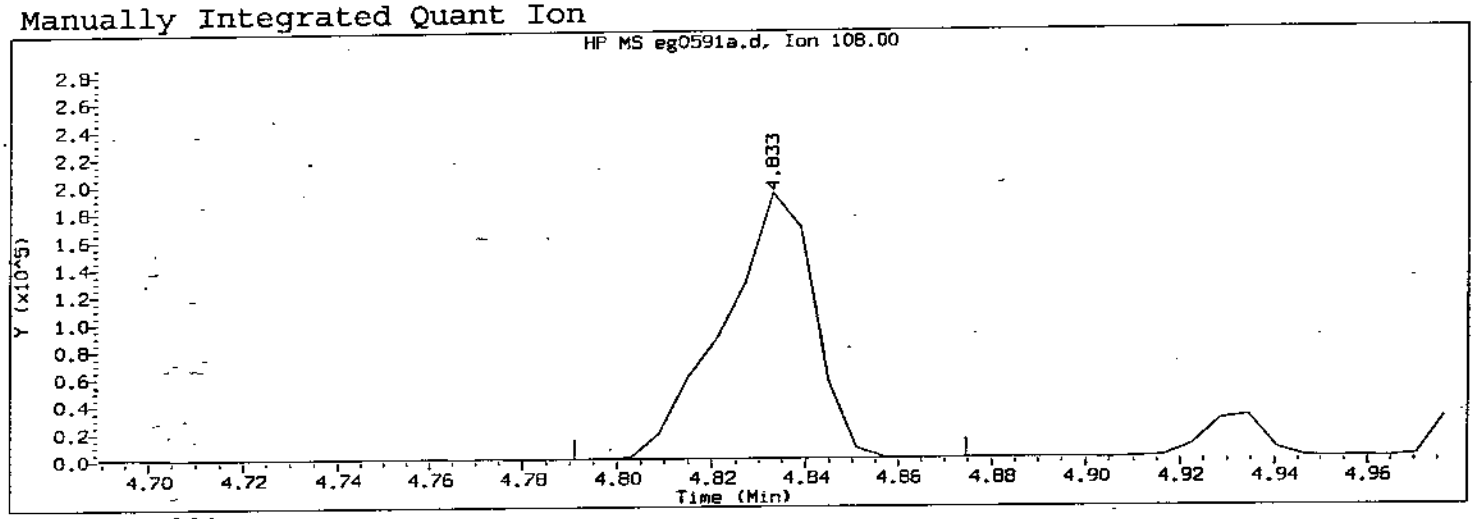
M = Compound was manually integrated. A = User selected an alternate hit

USF03 #491

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 04:43
Date, time and analyst ID of latest file update: 19-Jul-2011 04:43 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

Compound Number : 34
Compound Name : 2-Methylphenol
Scan Number : 733
Retention Time (minutes): 4.833
Quant Ion : 108
Area (flag) : 259172A
Concentration (ng/ul) : 49.7655
Integration start scan : 725 Integration stop scan: 739
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-18-11

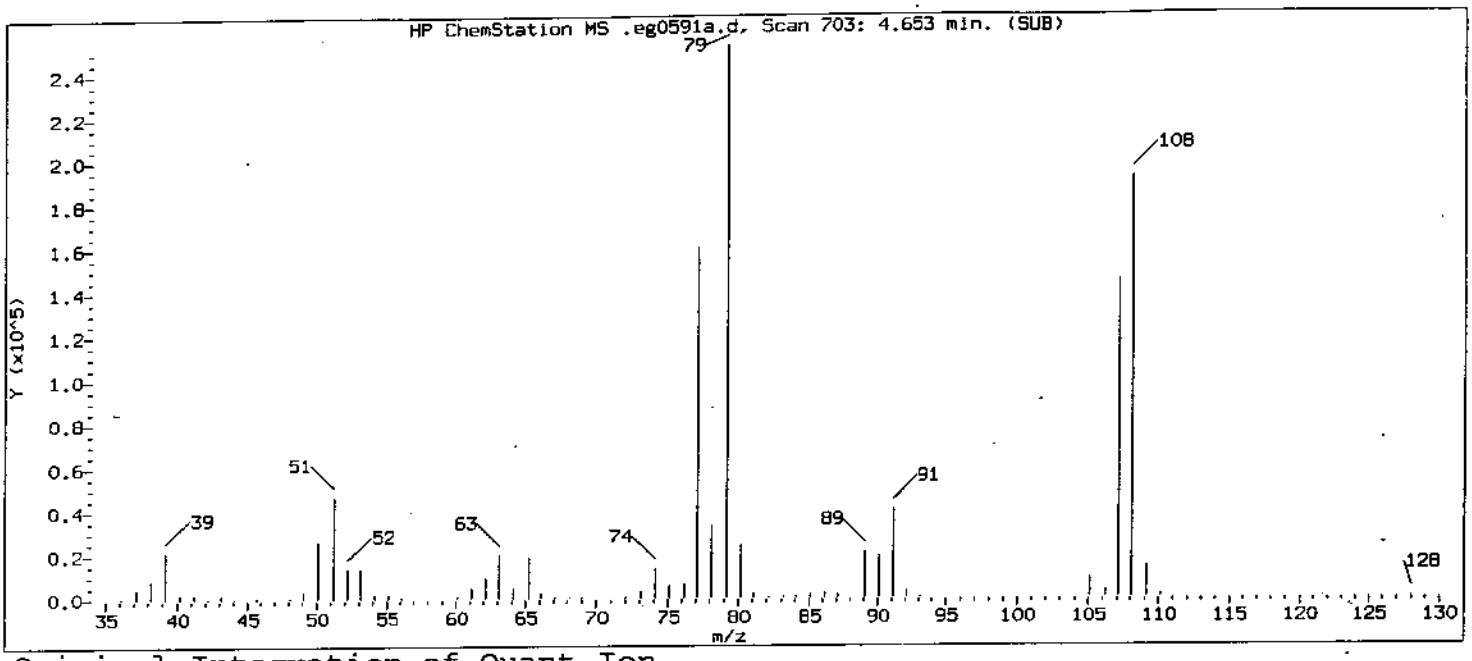
GC/MS audit/management approval: _____ USF03 8482

JUL 20 2011

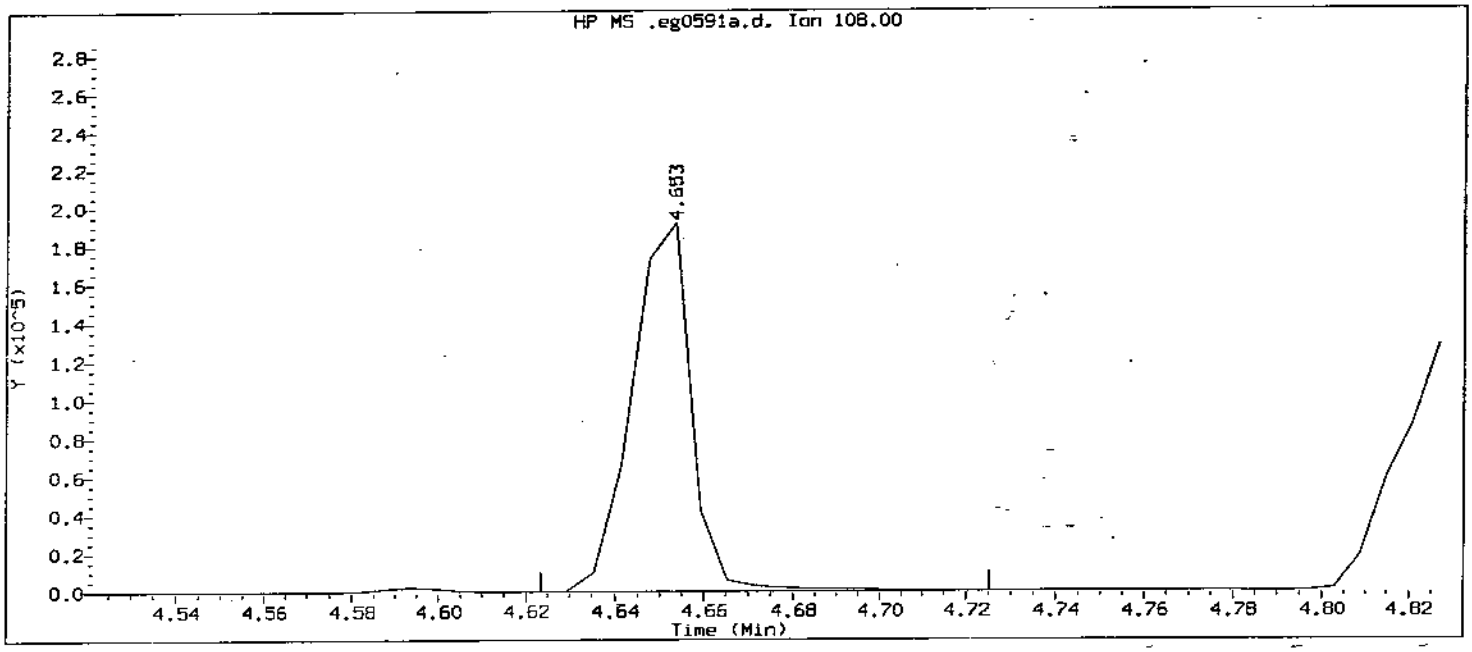
Manual Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/19/2011 at 04:43

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:09
Date, time and analyst ID of latest file update: 15-Jul-2011 23:10 Automation

Sample Name: SSTD050 Lab Sample ID: STD1891

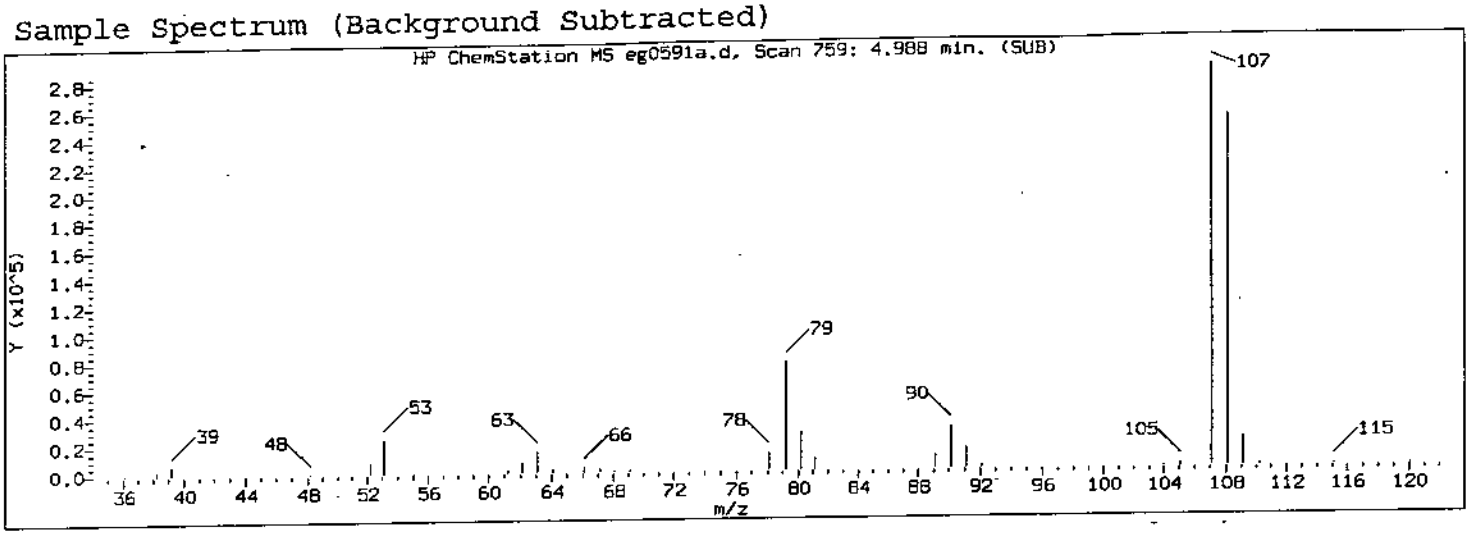
Compound Number : 34
Compound Name : 2-Methylphenol
Scan Number : 703
Retention Time (minutes): 4.653
Quant Ion : 108
Area : 180055
Concentration (ng/ul) : 34.5736
Integration start scan : 697 Integration stop scan: 714
Y at integration start : 0 Y at integration end: 0

7-18-11

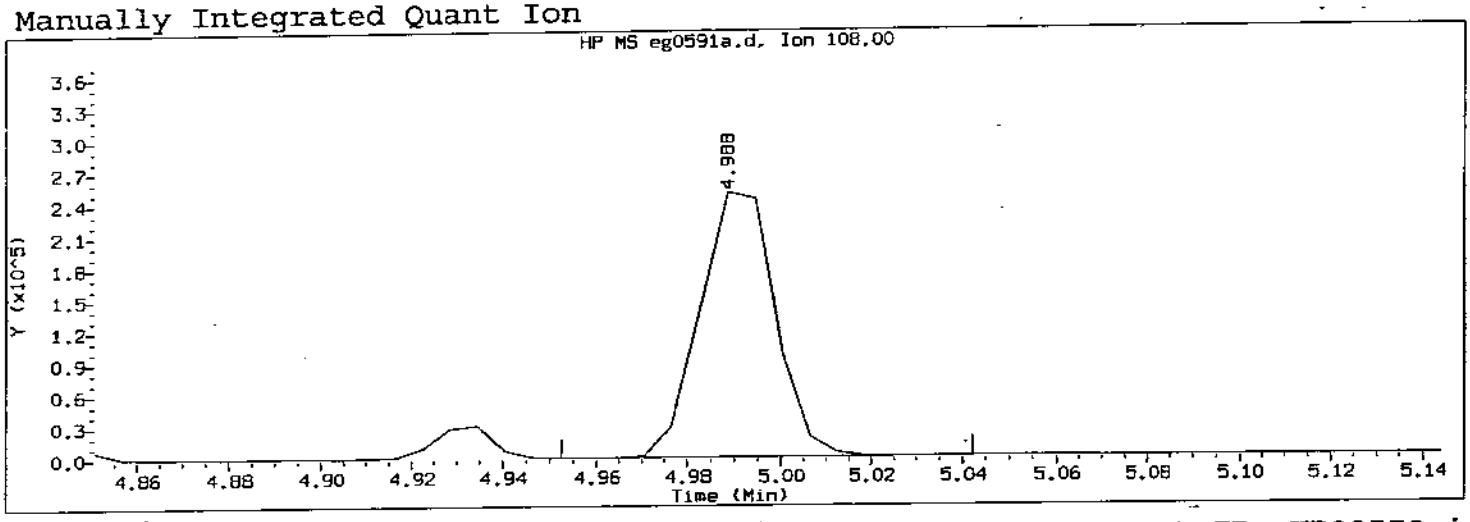
USF03 0483

Original Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/19/2011 at 04:43

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 04:43
Date, time and analyst ID of latest file update: 19-Jul-2011 04:43 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

Compound Number : 39
Compound Name : 4-Methylphenol
Scan Number : 759
Retention Time (minutes): 4.988
Quant Ion : 108
Area (flag) : 280899A
Concentration (ng/ul) : 48.3168
Integration start scan : 752 Integration stop scan: 767
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 7-18-11

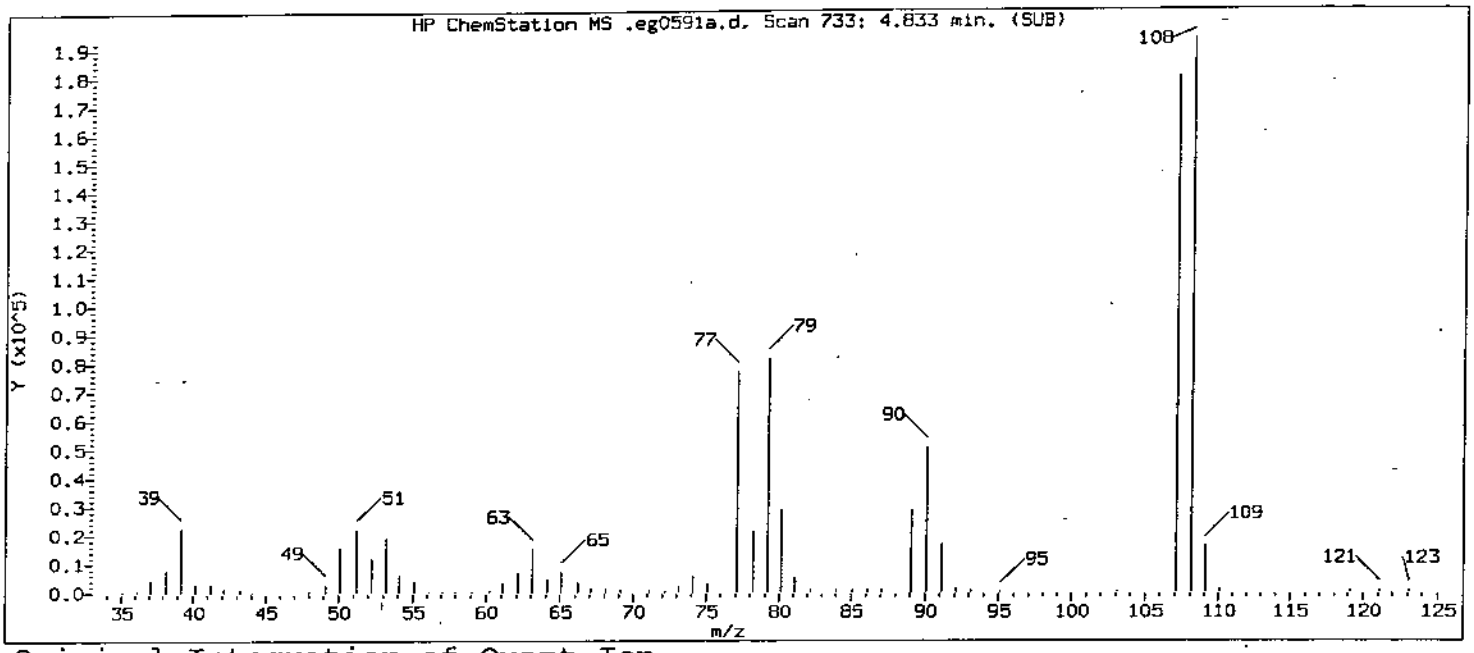
GC/MS audit/management approval: JUL 20 2011

USF03 4484

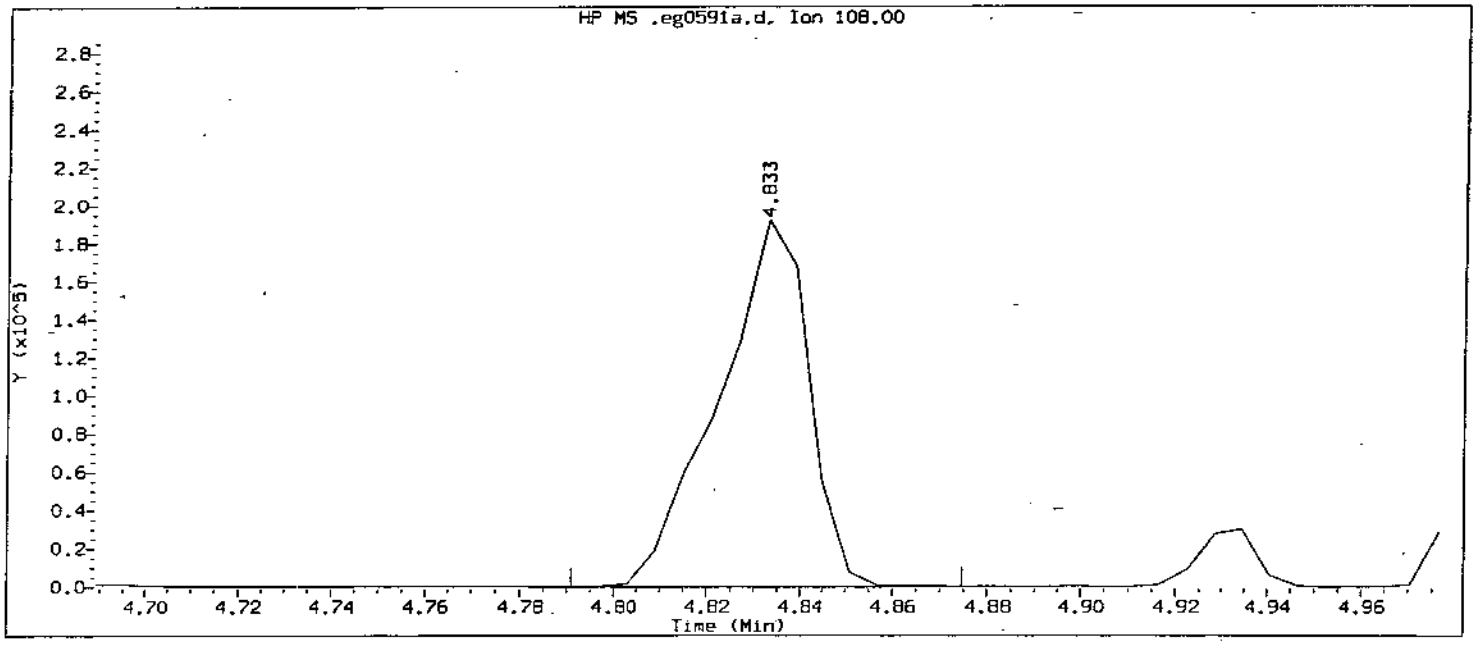
Manual Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/19/2011 at 04:43

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:09
Date, time and analyst ID of latest file update: 15-Jul-2011 23:10 Automation

Sample Name: SSTD050 Lab Sample ID: STD1891

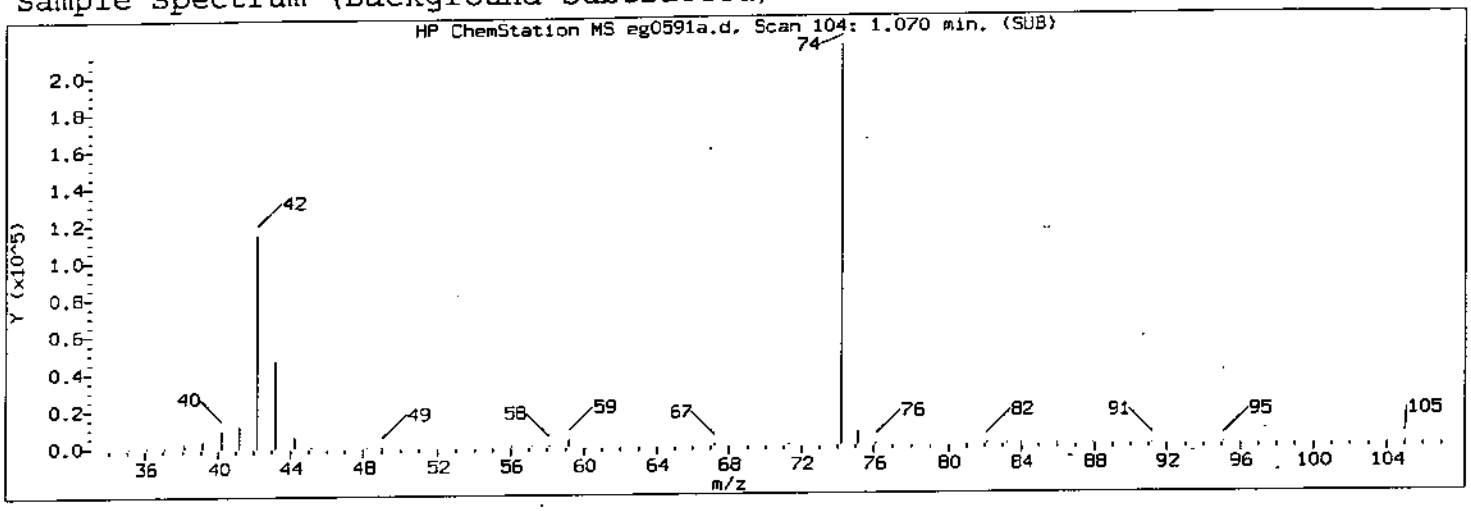
Compound Number : 39
Compound Name : 4-Methylphenol
Scan Number : 733
Retention Time (minutes): 4.833
Quant Ion : 108
Area : 259172
Concentration (ng/ul) : 44.5794
Integration start scan : 725 Integration stop scan: 739
Y at integration start : 0 Y at integration end: 0

7-19-11

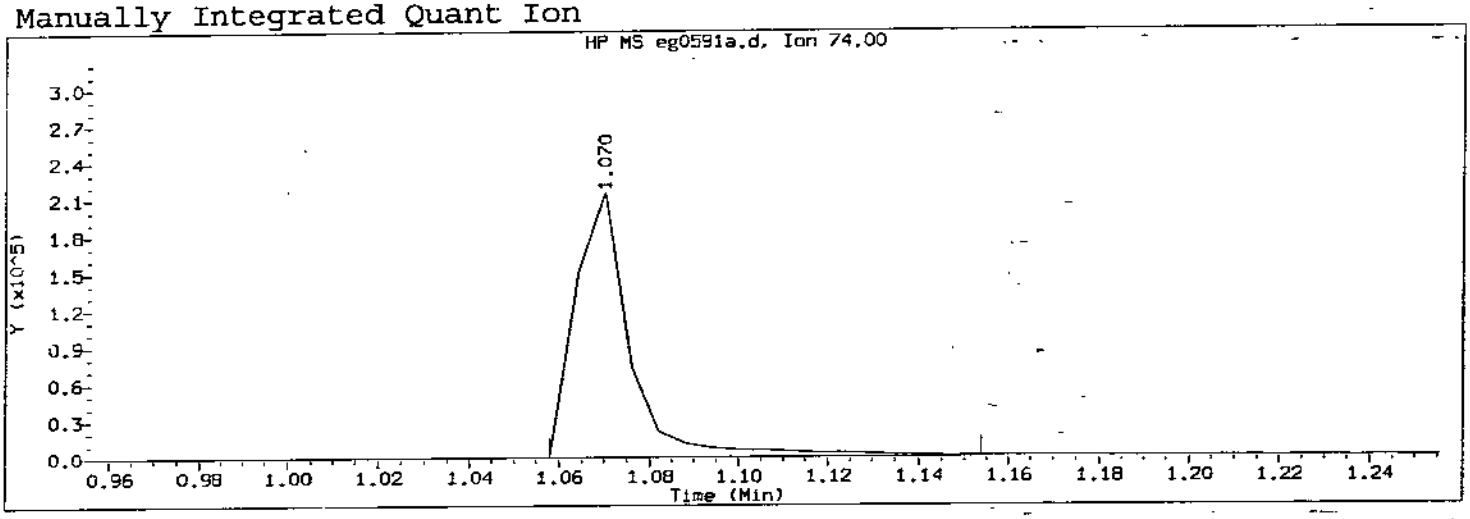
USF03 0485

Original Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/19/2011 at 04:43

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:19
Date, time and analyst ID of latest file update: 15-Jul-2011 23:19 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

Compound Number : 3
Compound Name : N-Nitrosodimethylamine
Scan Number : 104
Retention Time (minutes): 1.070
Quant Ion : 74
Area (flag) : 183804A
Concentration (ng/ul) : 50.2654
Integration start scan : 101 Integration stop scan: 117
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 7-15-11

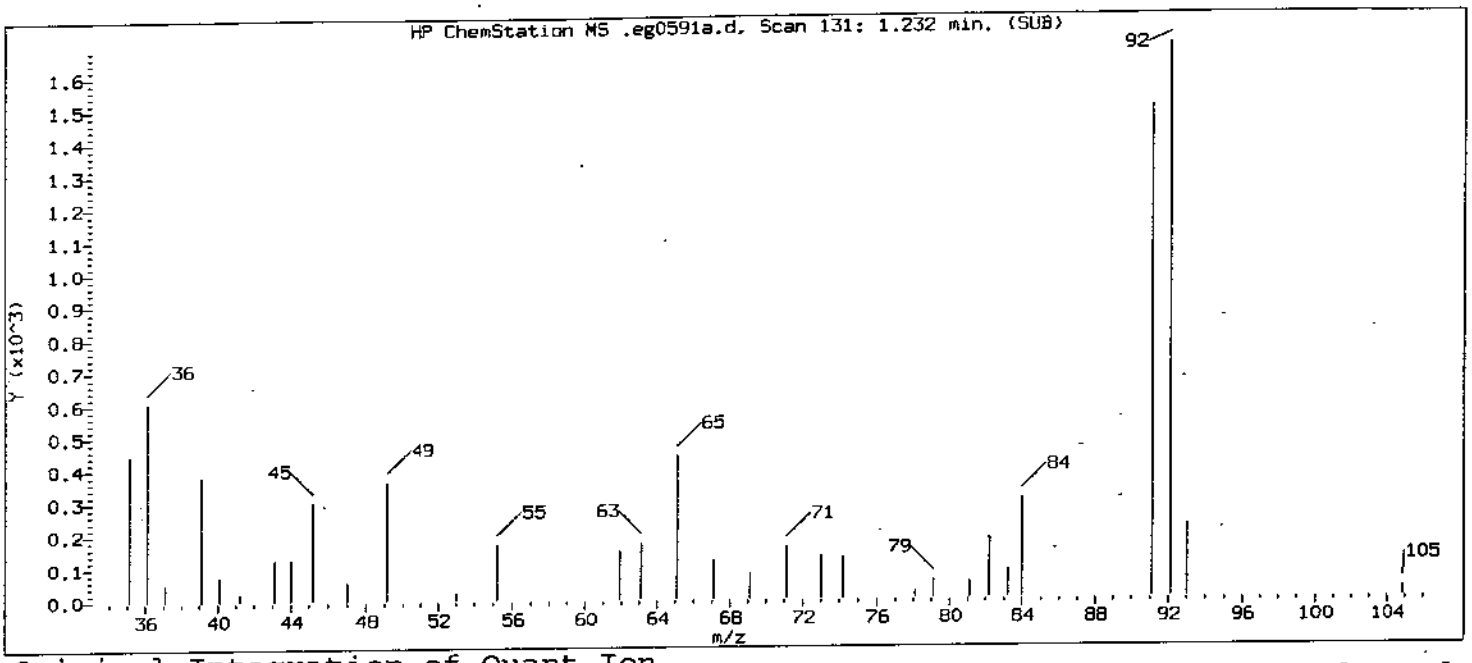
GC/MS audit/management approval: [signature] USF03 0406

JUL 18 2011

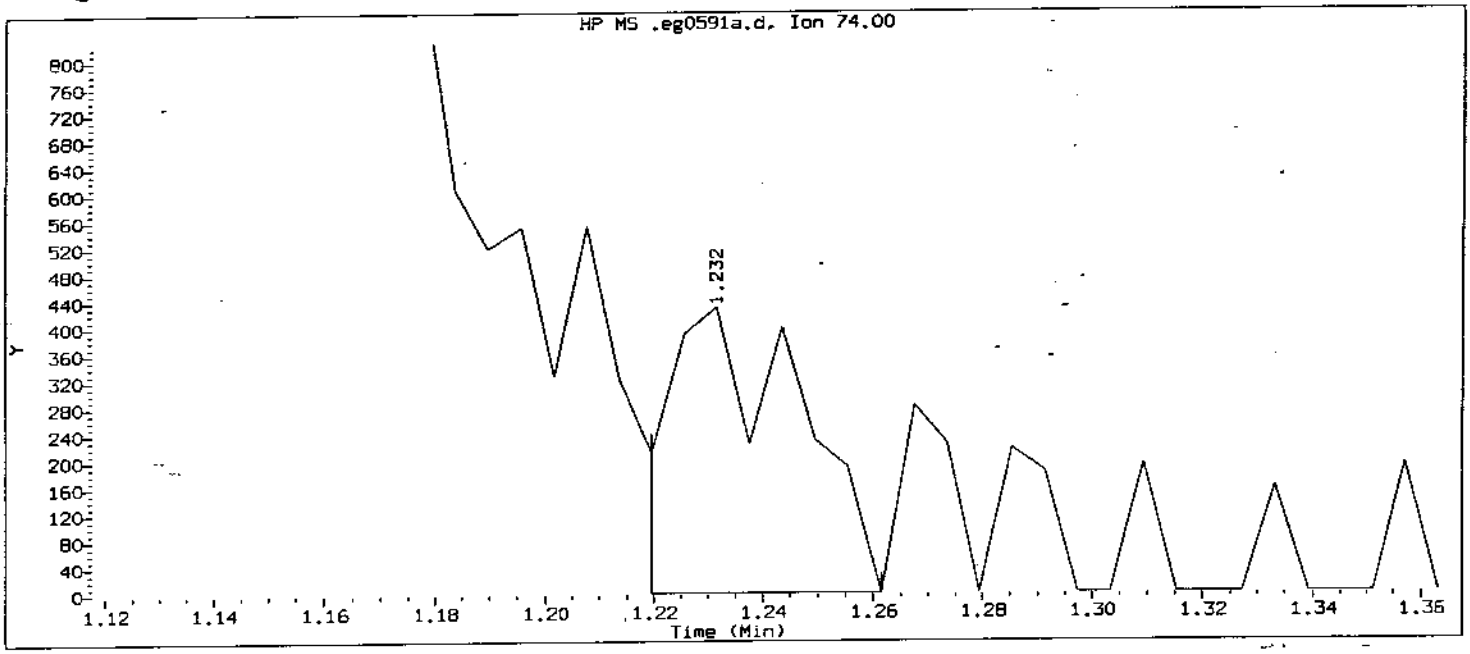
Manual Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:09
Date, time and analyst ID of latest file update: 15-Jul-2011 23:10 Automation

Sample Name: SSTD050 Lab Sample ID: STD1891

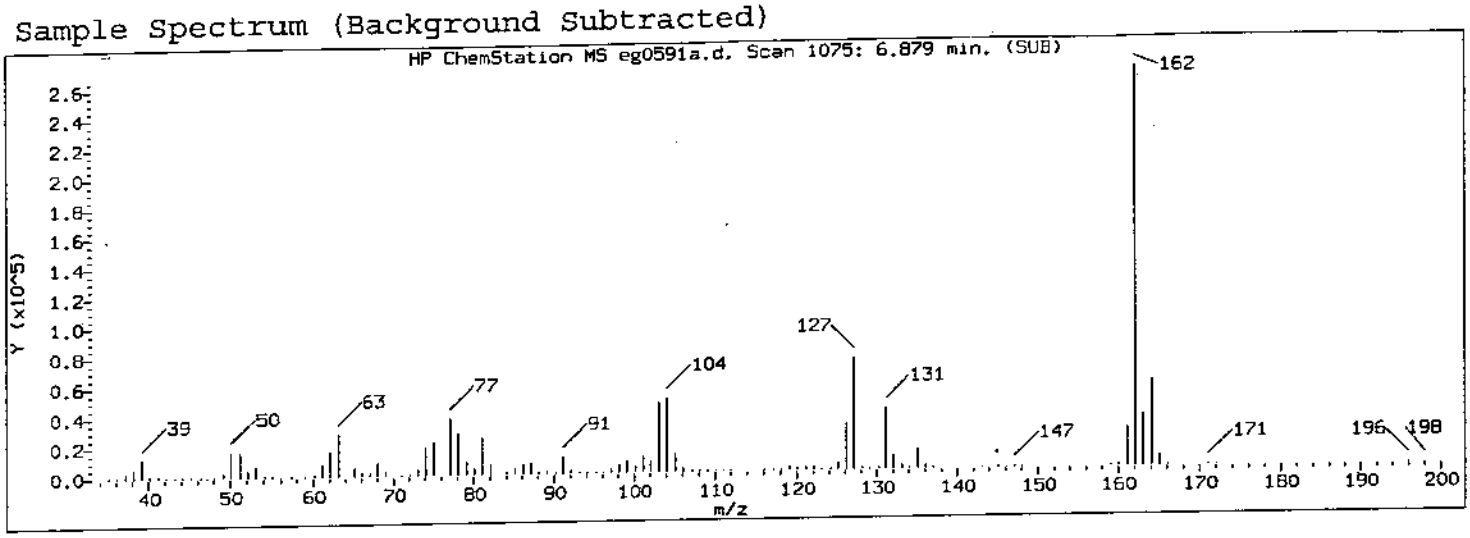
Compound Number : 3
Compound Name : N-Nitrosodimethylamine
Scan Number : 131
Retention Time (minutes): 1.232
Quant Ion : 74
Area : 704
Concentration (ng/ul) : 0.1927
Integration start scan : 128 Integration stop scan: 135
Y at integration start : 0 Y at integration end: 0

7-15-11

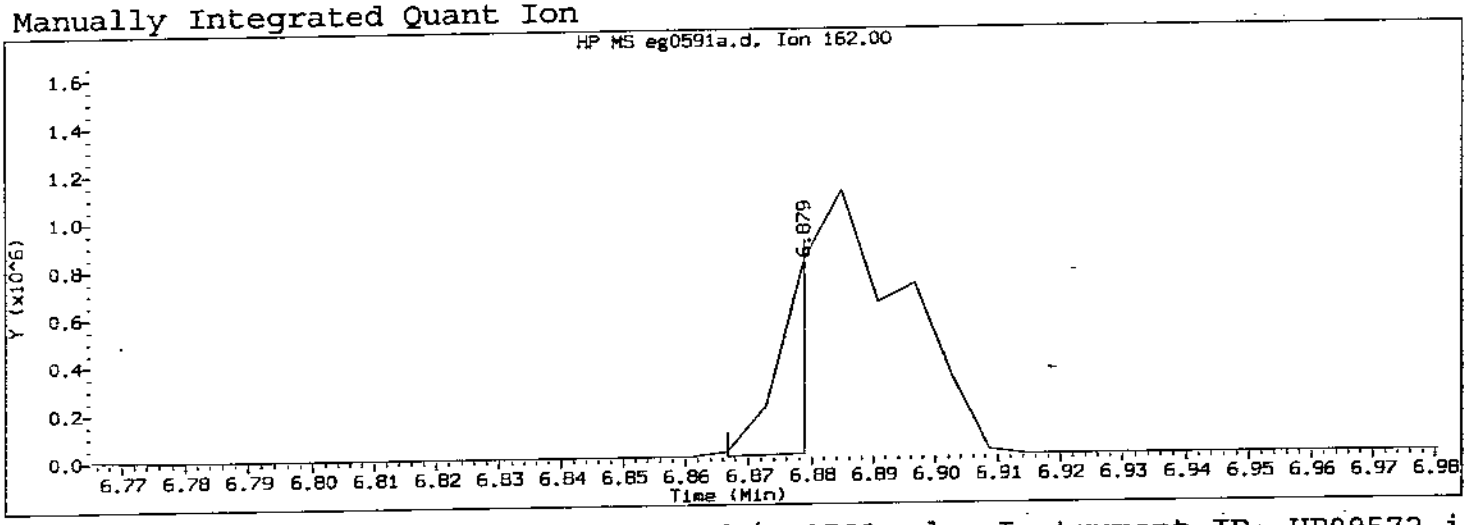
USF03 8487

Original Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:19
Date, time and analyst ID of latest file update: 15-Jul-2011 23:19 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

Compound Number	:	62
Compound Name	:	trans-Isosafrole
Scan Number	:	1075
Retention Time (minutes)	:	6.879
Quant Ion	:	162
Area (flag)	:	371764 M
Concentration (ng/ul)	:	67.5602
Integration start scan	:	1072 Integration stop scan: 1074
Y at integration start	:	580 Y at integration end: 8133

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-15-11

GC/MS audit/management approval: _____

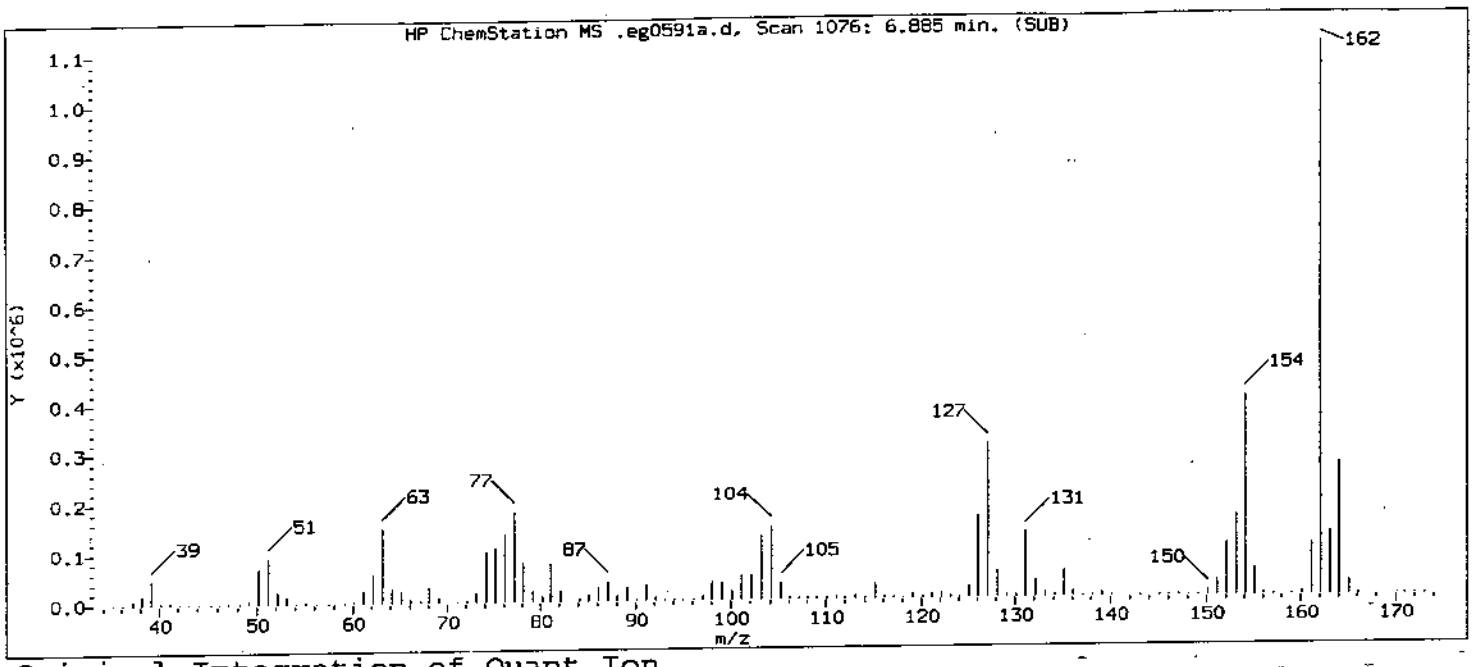
USEPA 8468

JUL 18 2011

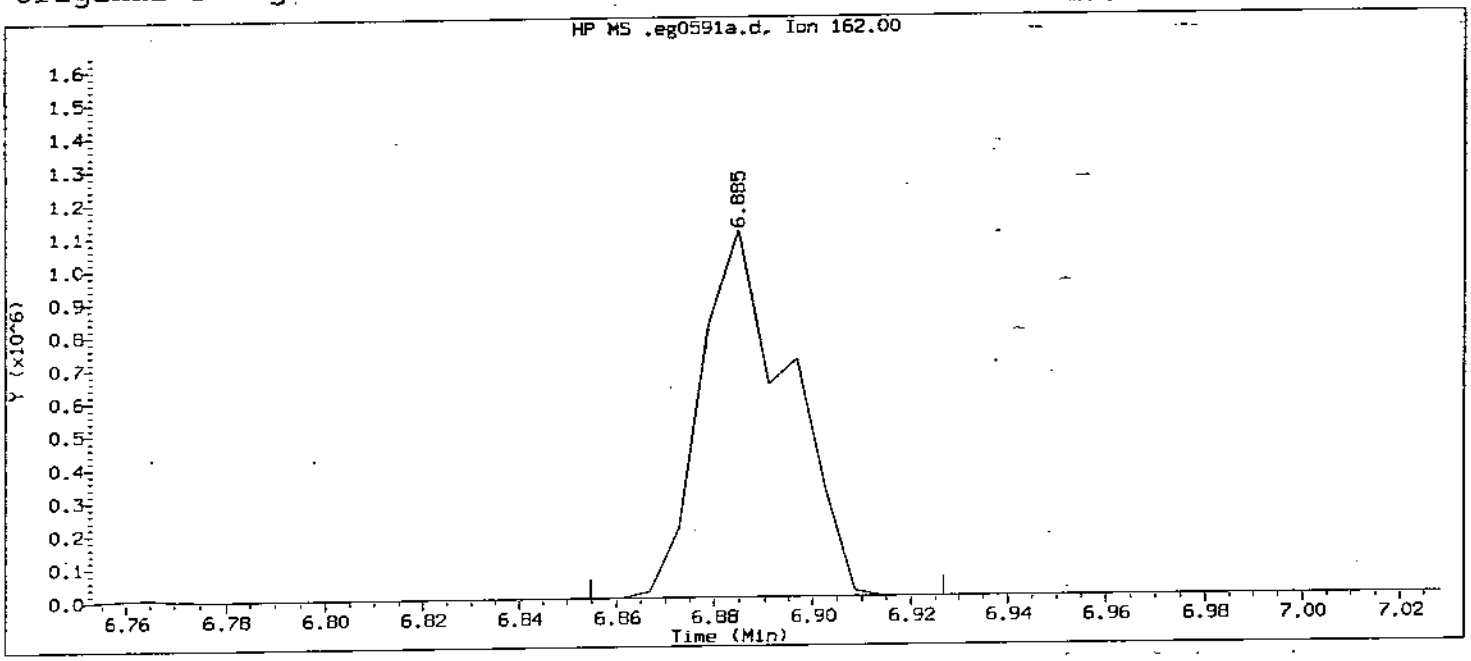
Manual Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:09
Date, time and analyst ID of latest file update: 15-Jul-2011 23:10 Automation

Sample Name: SSTD050 Lab Sample ID: STD1891

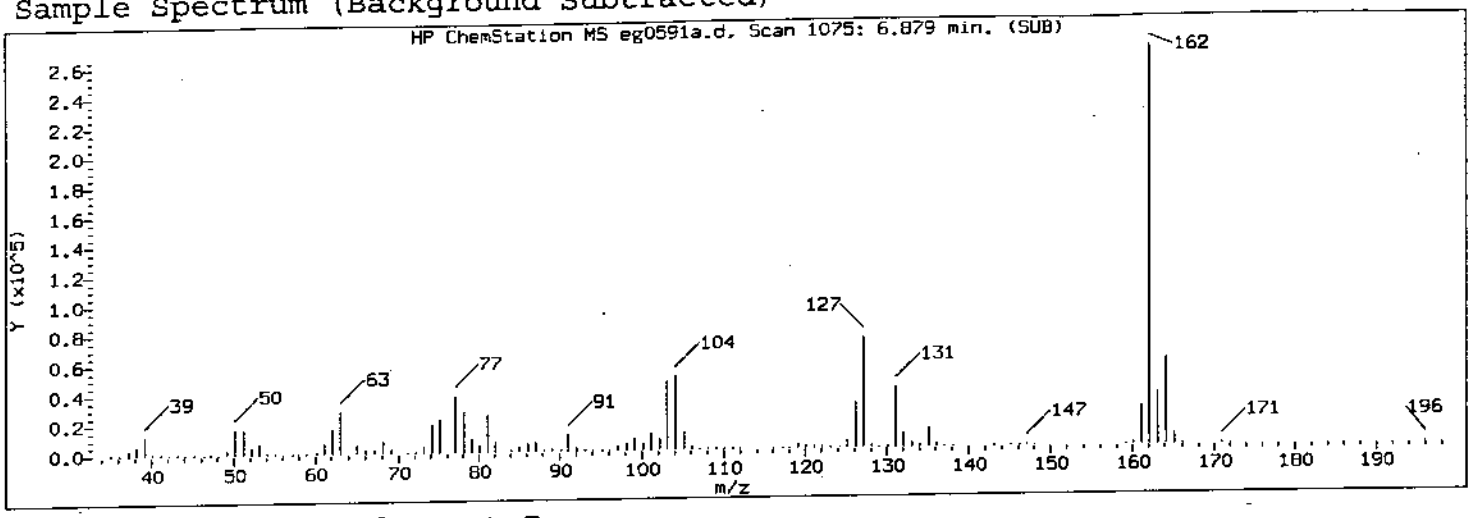
Compound Number	: 62
Compound Name	: trans-Isosafrole
Scan Number	: 1076
Retention Time (minutes)	: 6.885
Quant Ion	: 162
Area	: 1383208
Concentration (ng/ul)	: 114.9434
Integration start scan	: 1070 Integration stop-scan: 1082
Y at integration start	: 0 Y at integration end: 0

7-15-11

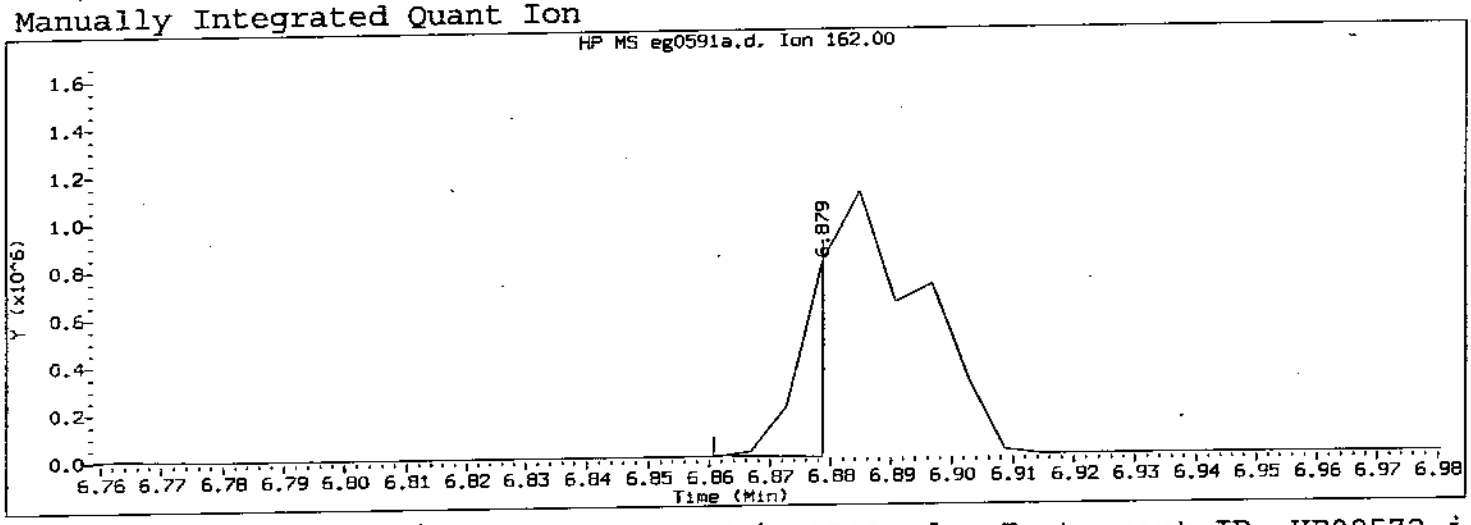
USF83 8489

Original Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:19
Date, time and analyst ID of latest file update: 15-Jul-2011 23:19 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

Compound Number	: 63	
Compound Name	: Isosafrole	
Scan Number	: 1075	
Retention Time (minutes)	: 6.879	
Quant Ion	: 162	
Area (flag)	: 378131	M
Concentration (ng/ul)	: 76.9301	
Integration start scan	: 1071	Integration stop scan: 1074
Y at integration start	: 3149	Y at integration end: -5153

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7-15-11

GC/MS audit/management approval: _____

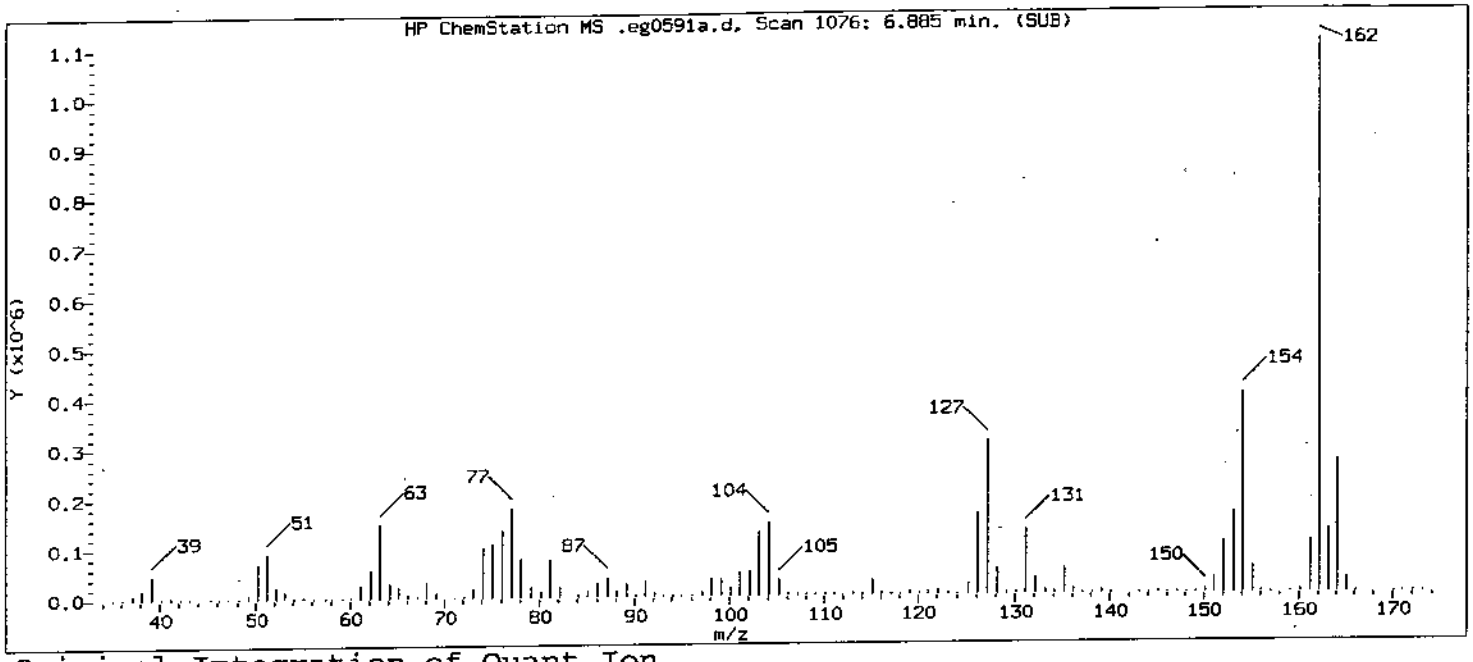
USPS3 0410

JUL 18 2011

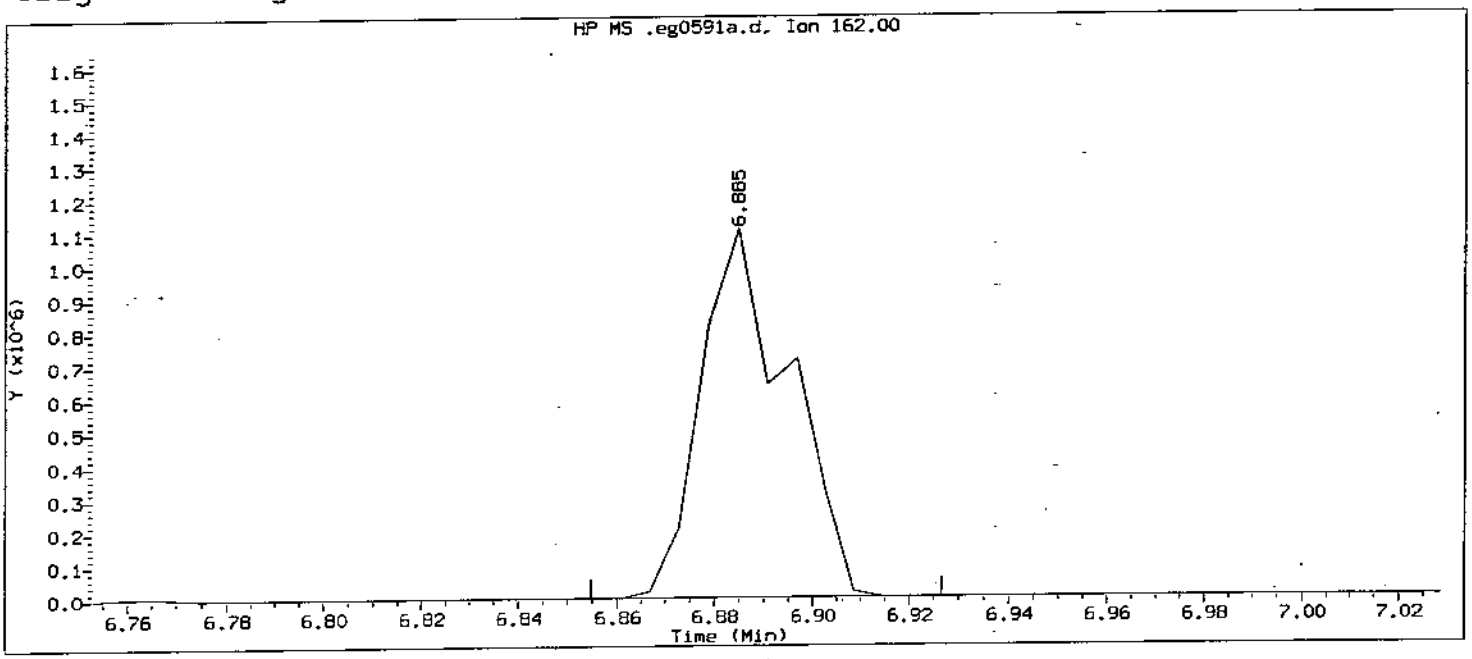
Manual Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:09
Date, time and analyst ID of latest file update: 15-Jul-2011 23:10 Automation

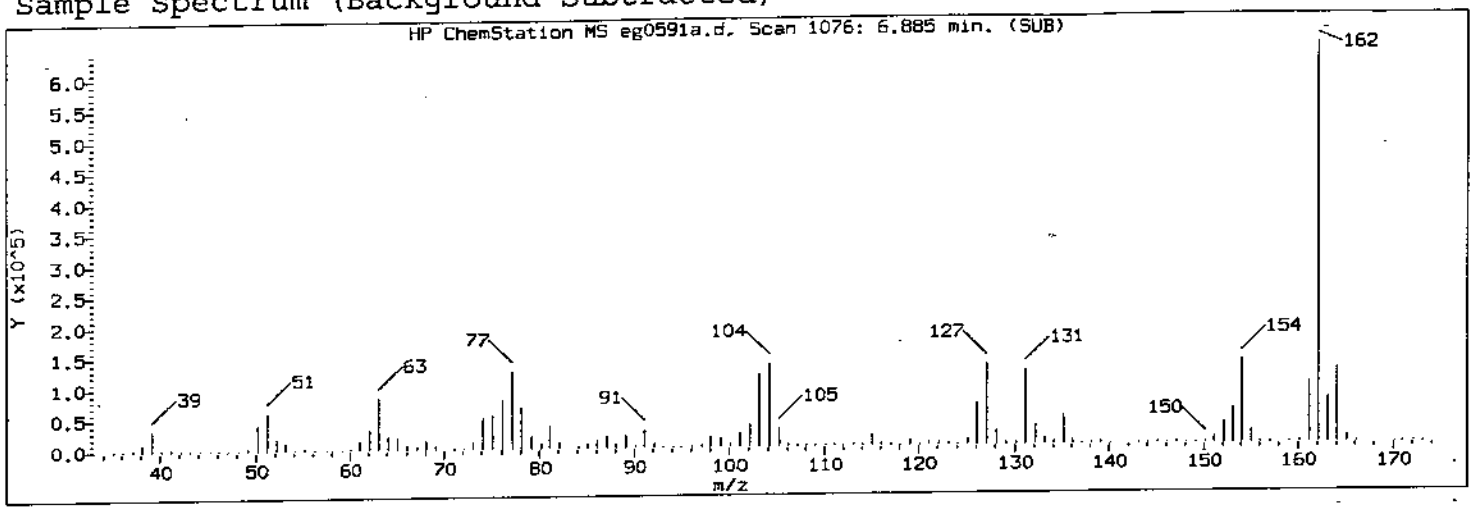
Sample Name: SSTD050 Lab Sample ID: STD1891

7-15-11

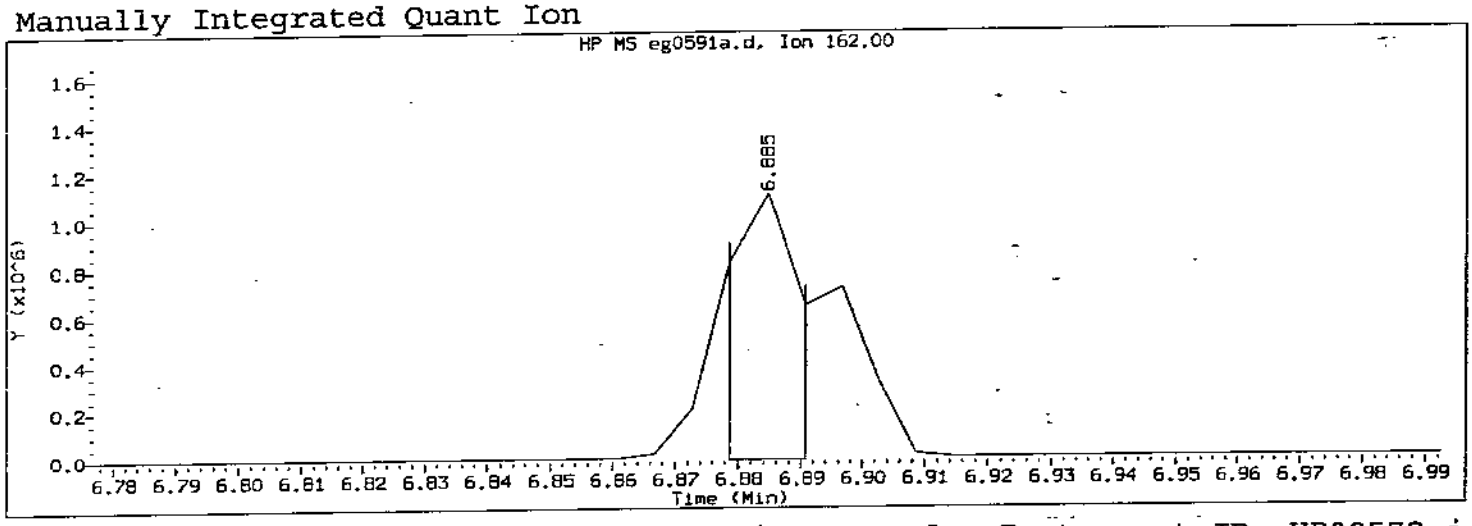
Compound Number	:	63
Compound Name	:	Isosafrole
Scan Number	:	1076
Retention Time (minutes)	:	6.885
Quant Ion	:	162
Area	:	1383208
Concentration (ng/ul)	:	129.1498
Integration start scan	:	1070 Integration stop scan: 1082
Y at integration start	:	0 Y at integration end: 0

Original Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:19
Date, time and analyst ID of latest file update: 15-Jul-2011 23:19 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

Compound Number : 85
Compound Name : 2-Chloronaphthalene
Scan Number : 1076
Retention Time (minutes): 6.885
Quant Ion : 162
Area (flag) : 929553 M
Concentration (ng/ul) : 71.9083
Integration start scan : 1074 Integration stop scan: 1076
Y at integration start : -7049 Y at integration end: -7049

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 7-15-11

GC/MS audit/management approval:

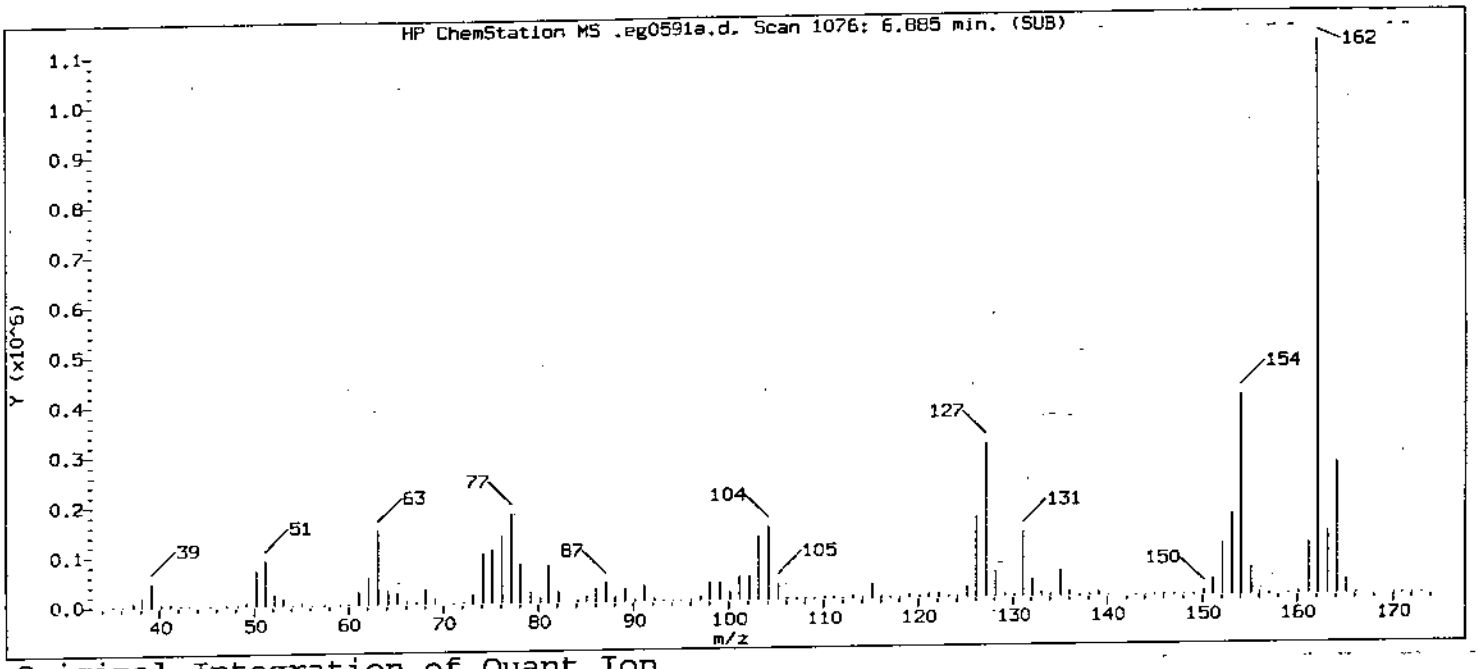
USF03 0412

JUL 18 2011

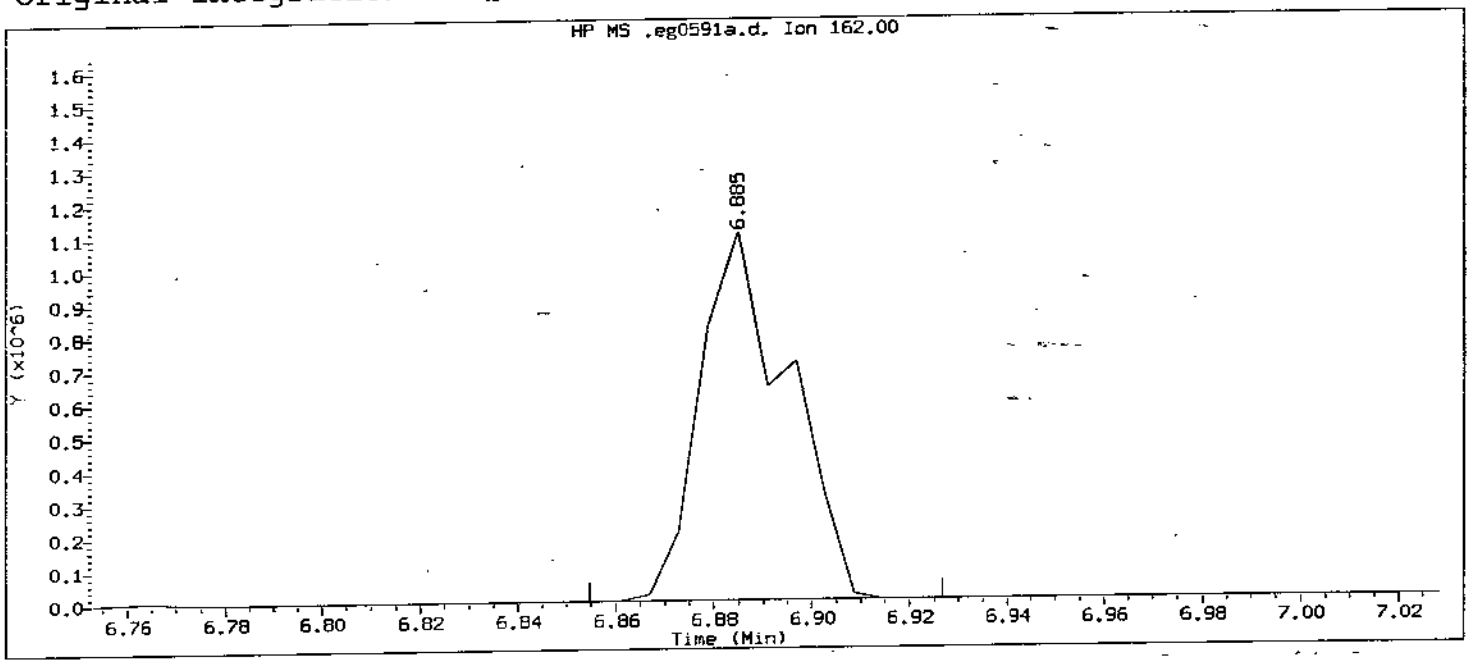
Manual Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:09
Date, time and analyst ID of latest file update: 15-Jul-2011 23:10 Automation

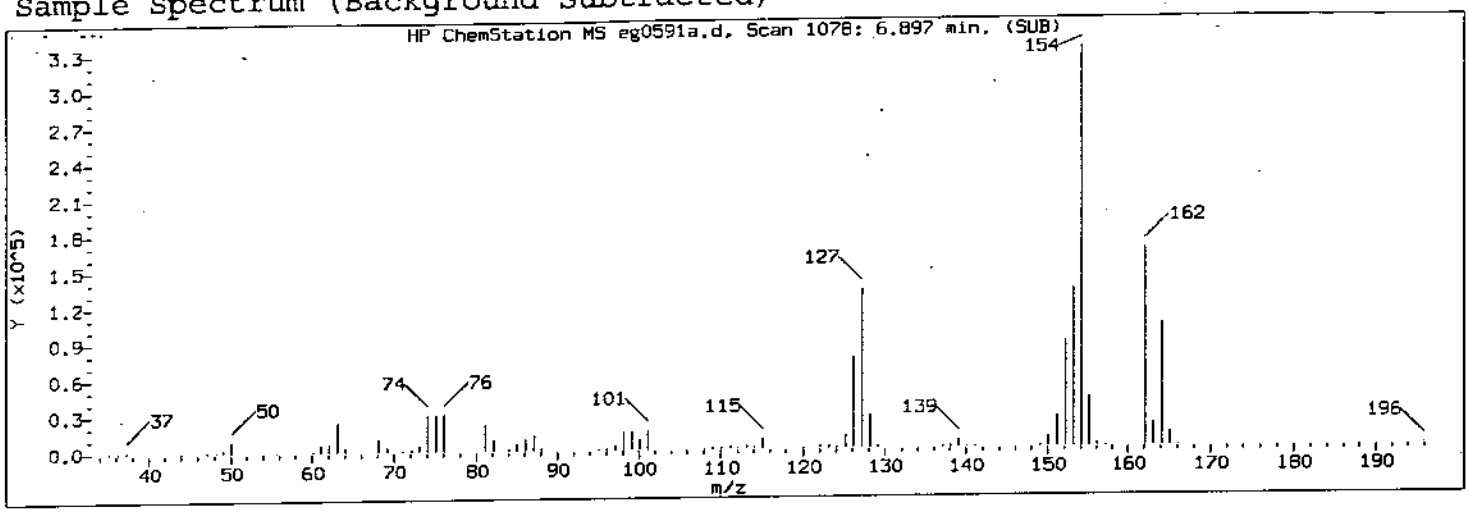
Sample Name: SSTD050 Lab Sample ID: STD1891

Compound Number	: 85
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1076
Retention Time (minutes)	: 6.885
Quant Ion	: 162
Area	: 1382590
Concentration (ng/ul)	: 106.9542
Integration start scan	: 1070 Integration stop scan: 1082
Y at integration start	: 0 Y at integration end: 287

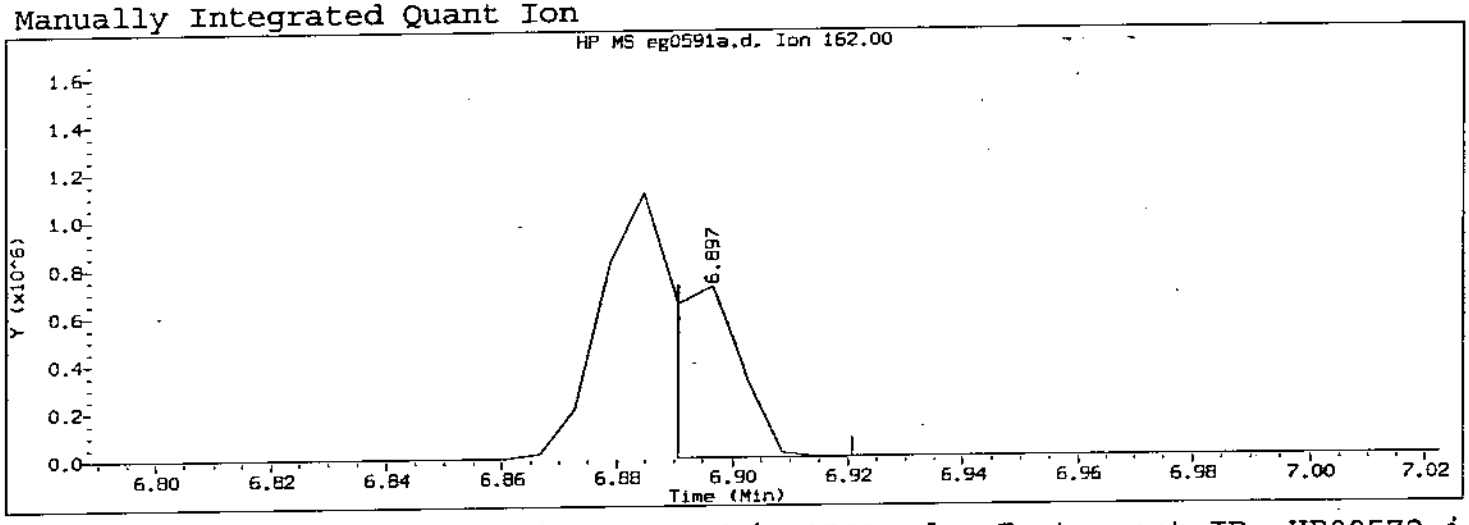
USF03 8413

Original Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:19
Date, time and analyst ID of latest file update: 15-Jul-2011 23:19 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1891

Compound Number	: 86	
Compound Name	: 1-Chloronaphthalene	
Scan Number	: 1078	
Retention Time (minutes)	: 6.897	
Quant Ion	: 162	
Area (flag)	: 612616	M
Concentration (ng/ul)	: 50.8894	
Integration start scan	: 1076	Integration stop scan: 1081
Y at integration start	: -1510	Y at integration end: -1510

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 7-15-11

GC/MS audit/management approval: [signature]

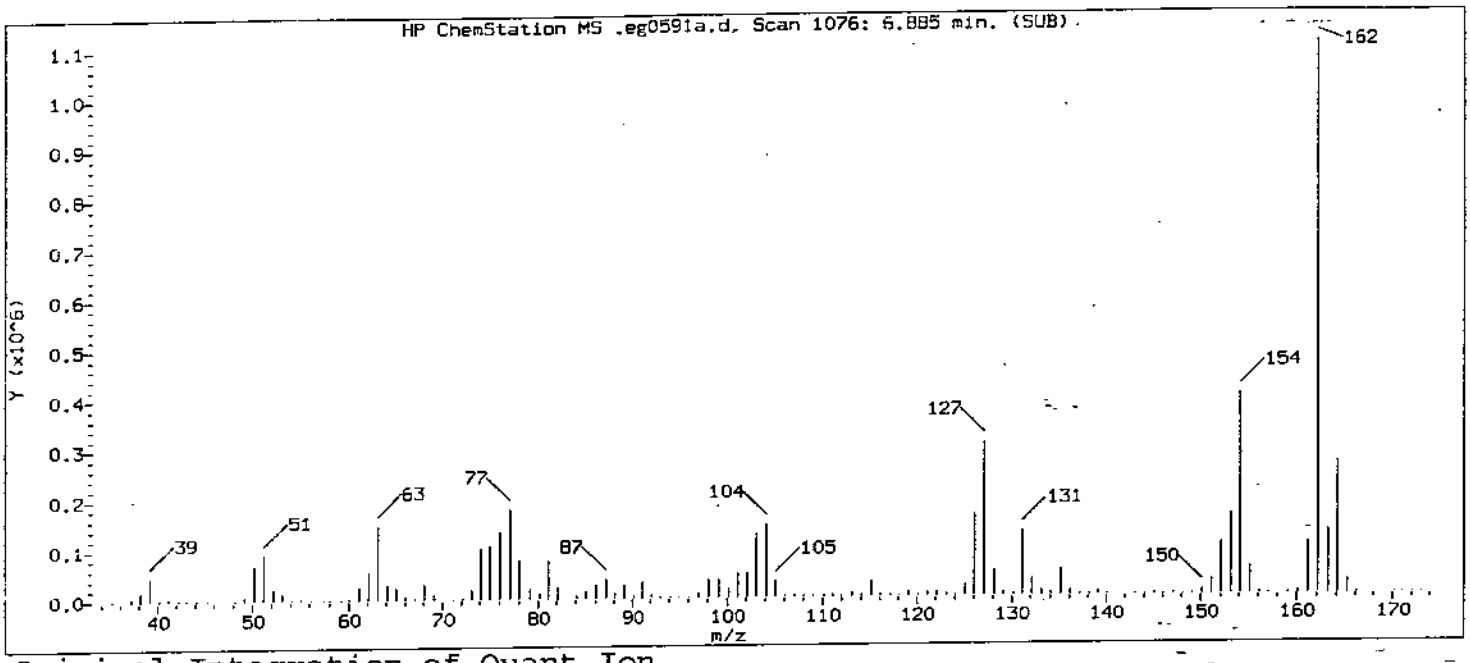
USEPA 8414

JUL 18 2011

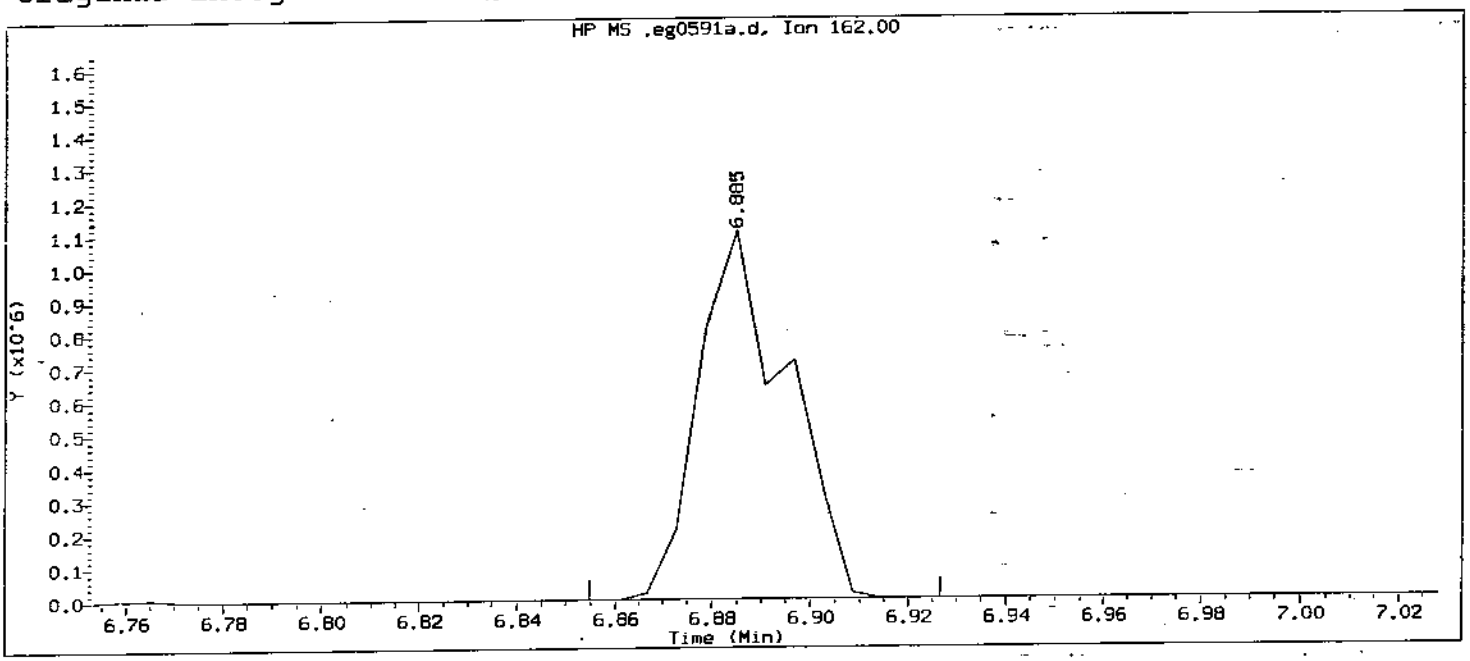
Manual Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul15a.b/eg0591a.d Instrument ID: HP09572.i
Injection date and time: 15-JUL-2011 22:50 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: all1
Calibration date and time: 15-JUL-2011 23:09
Date, time and analyst ID of latest file update: 15-Jul-2011 23:10 Automation

Sample Name: SSTD050 Lab Sample ID: STD1891

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1076
Retention Time (minutes)	:	6.885
Quant Ion	:	162
Area	:	1383058
Concentration (ng/ul)	:	114.8890
Integration start scan	:	1070 Integration stop scan: 1082
Y at integration start	:	0 Y at integration end: 70

7-15-11

USF03 8415

Original Integration Report for data file /chem/HP09572.i/11jul15a.b/eg0591a.d, generated on 07/15/2011 at 23:19

Data File: /chem/HP09572.i/11jul18a.b/eg0650q.d

Date : 18-JUL-2011 23:59

Client ID: DFTPP

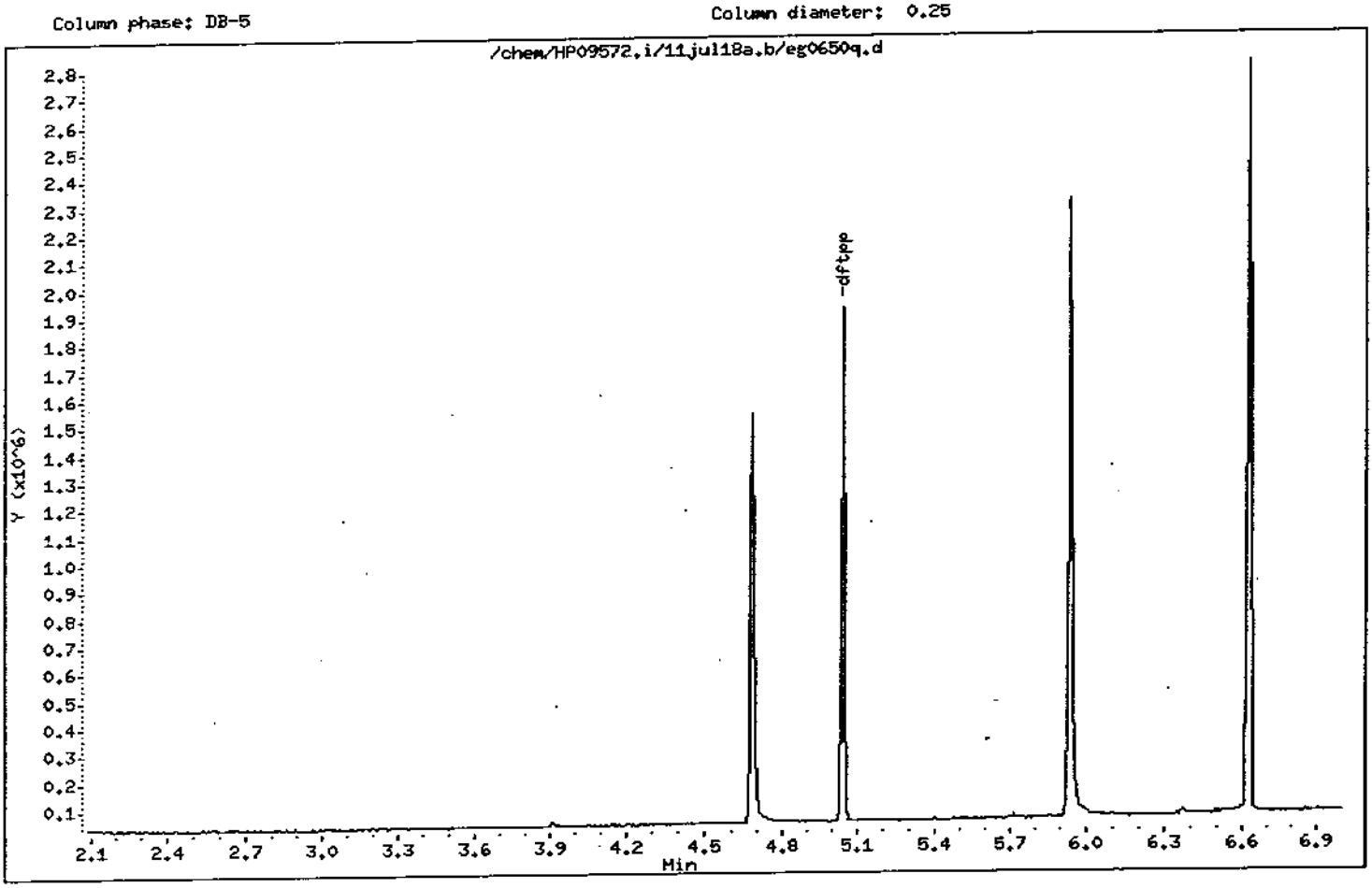
Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP09572.i/11jul18a.b/eg0650q.d

Date : 18-JUL-2011 23:59

Client ID: DFTPP

Instrument: HP09572.i

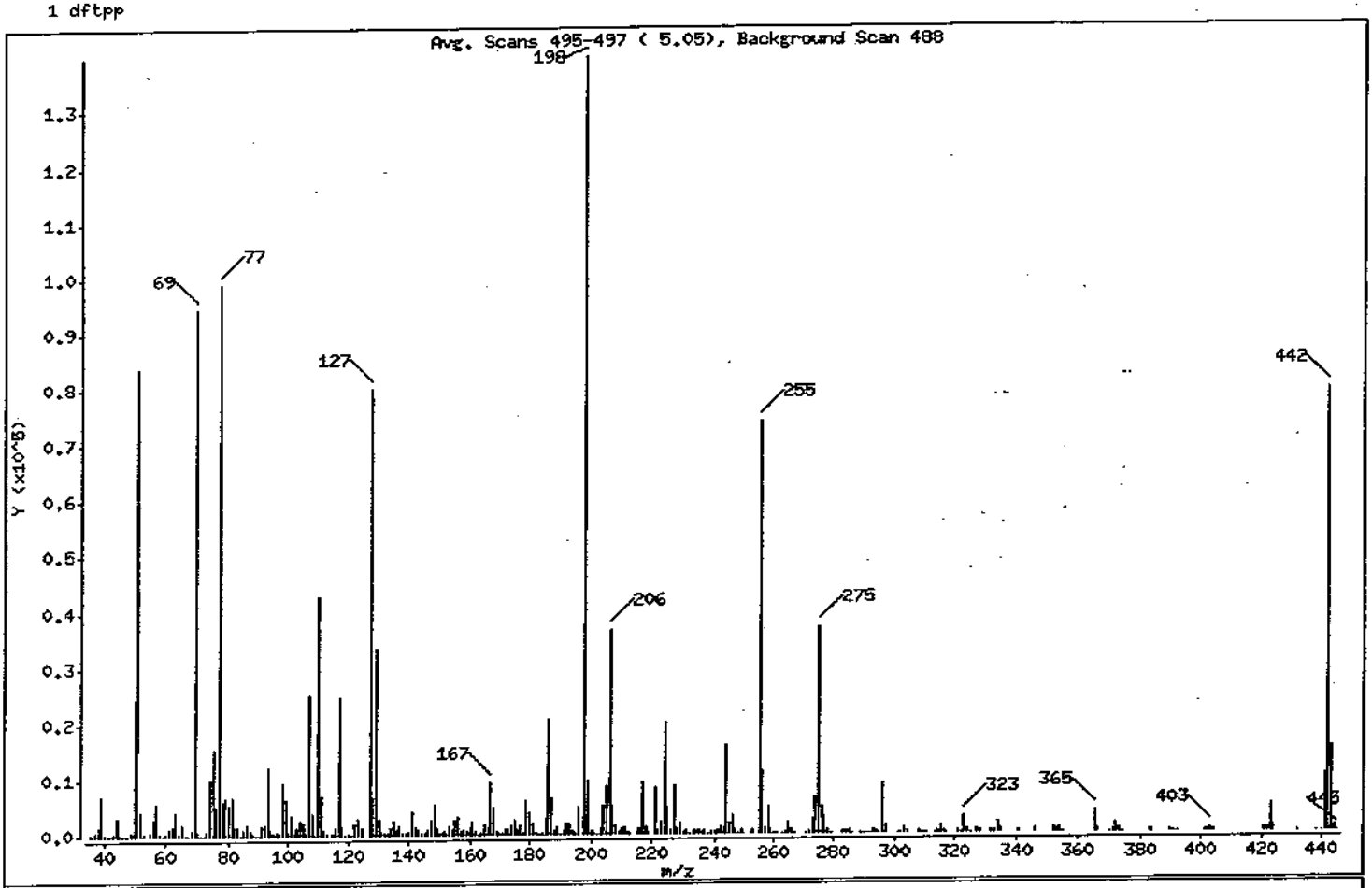
Sample Info: DFTPP;8270DFTPP1991;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	60.00
68	Less than 2.00% of mass 69	0.70 (1.04)
69	Mass 69 relative abundance	67.48
70	Less than 2.00% of mass 69	0.42 (0.62)
127	40.00 - 60.00% of mass 198	57.26
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 30.00% of mass 198	26.34
365	Greater than 1.00% of mass 198	2.71
441	Present, but less than mass 443	7.36
442	40.00 - 99.99% of mass 198	56.68
443	17.00 - 23.00% of mass 442	10.75 (18.97)

USP03 0417

Data File: /chem/HP09572.i/11jul18a.b/eg0650q.d

Date : 18-JUL-2011 23:59

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

Data File: eg0650q.d

Spectrum: Avg. Scans 495-497 (5.05), Background Scan 488

Location of Maximum: 198.00

Number of points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	174	112.00	840	190.00	55	275.00	36832
36.00	102	113.00	252	191.00	604	276.00	4801
37.00	613	115.00	230	192.00	2027	277.00	2889
38.00	1606	116.00	1430	193.00	1821	278.00	525
39.00	7181	117.00	24832	194.00	497	279.00	147
40.00	475	118.00	1761	195.00	259	283.00	254
41.00	59	119.00	75	196.00	4741	284.00	165
42.00	41	120.00	282	198.00	139776	285.00	519
43.00	196	121.00	135	199.00	9730	286.00	75
44.00	3090	122.00	1833	200.00	754	289.00	69
45.00	251	123.00	2866	201.00	773	290.00	92
46.00	44	124.00	1355	202.00	69	291.00	71
47.00	140	125.00	1233	203.00	1119	292.00	124
48.00	59	127.00	80072	204.00	5199	293.00	592
49.00	563	128.00	6698	205.00	8798	294.00	216
50.00	24336	129.00	33360	206.00	36600	295.00	62
51.00	83888	130.00	2925	207.00	5009	296.00	9111
52.00	4272	131.00	653	208.00	1494	297.00	1274
53.00	288	132.00	444	209.00	474	301.00	120
55.00	638	133.00	346	210.00	972	302.00	111
56.00	2767	134.00	1127	211.00	1416	303.00	956
57.00	5842	135.00	2648	212.00	177	304.00	351
58.00	289	136.00	1093	213.00	121	308.00	195
59.00	149	137.00	1559	215.00	378	309.00	62
60.00	261	138.00	258	216.00	1122	310.00	127
61.00	1358	139.00	161	217.00	9435	313.00	70
62.00	1457	140.00	518	218.00	1355	314.00	332
63.00	4088	141.00	4099	219.00	187	315.00	1207
64.00	450	142.00	1401	221.00	8248	316.00	435
65.00	1915	143.00	1054	222.00	620	317.00	116
66.00	133	144.00	355	223.00	2238	321.00	397
67.00	53	145.00	190	224.00	20032	322.00	90
68.00	983	146.00	869	225.00	4968	323.00	3023
69.00	94360	147.00	2452	226.00	625	324.00	619
70.00	586	148.00	5428	227.00	8725	325.00	59

USPS3 B418

Data File: /chem/HP09572.i/11jul18a.b/eg0650q.d

Date : 18-JUL-2011 23:59

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

Data File: eg0650q.d

Spectrum: Avg. Scans 495-497 (5.05), Background Scan 488

Location of Maximum: 198.00

Number of points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	69	149.00	1210	228.00	1103	327.00	583
72.00	55	150.00	315	229.00	1942	328.00	279
73.00	795	151.00	656	230.00	270	332.00	266
74.00	9811	152.00	440	231.00	779	333.00	316
75.00	15581	153.00	1489	232.00	118	334.00	1830
76.00	5174	154.00	896	233.00	227	335.00	539
77.00	98896	155.00	2444	234.00	501	341.00	467
78.00	6259	156.00	3262	235.00	798	346.00	535
79.00	6601	157.00	695	236.00	475	352.00	1031
80.00	5408	158.00	939	237.00	746	353.00	556
81.00	6671	159.00	607	238.00	84	354.00	866
82.00	1607	160.00	1288	239.00	216	355.00	63
83.00	1565	161.00	2208	240.00	241	365.00	3795
84.00	2	162.00	587	241.00	576	366.00	507
85.00	1069	163.00	73	242.00	1132	370.00	52
86.00	2048	164.00	230	243.00	1112	371.00	193
87.00	925	165.00	1841	244.00	15616	372.00	1491
88.00	394	166.00	1186	245.00	2033	373.00	489
89.00	98	167.00	9450	246.00	3212	374.00	92
90.00	50	168.00	4714	247.00	642	383.00	333
91.00	1559	169.00	687	248.00	114	384.00	205
92.00	1968	170.00	171	249.00	552	390.00	202
93.00	12068	171.00	359	250.00	132	391.00	67
94.00	886	172.00	1000	252.00	140	392.00	51
95.00	367	173.00	936	253.00	613	401.00	53
96.00	524	174.00	1732	255.00	74016	402.00	481
97.00	407	175.00	2664	256.00	11212	403.00	591
98.00	9164	176.00	847	257.00	898	404.00	184
99.00	6441	177.00	1619	258.00	4746	421.00	712
100.00	570	178.00	466	259.00	732	422.00	599
101.00	3392	179.00	6030	260.00	154	423.00	4739
102.00	171	180.00	3711	261.00	69	424.00	915
103.00	1406	181.00	1889	263.00	50	432.00	71
104.00	2449	182.00	209	264.00	253	438.00	115
105.00	2350	183.00	97	265.00	1939	440.00	54

USF03 0419

Data File: /chem/HP09572.i/11jul18a.b/eg0650q.d

Date : 18-JUL-2011 23:59

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: rpb01568

Column phase: DB-5

Column diameter: 0.25

Data File: eg0650q.d

Spectrum: Avg. Scans 495-497 (5.05), Background Scan 488

Location of Maximum: 198.00

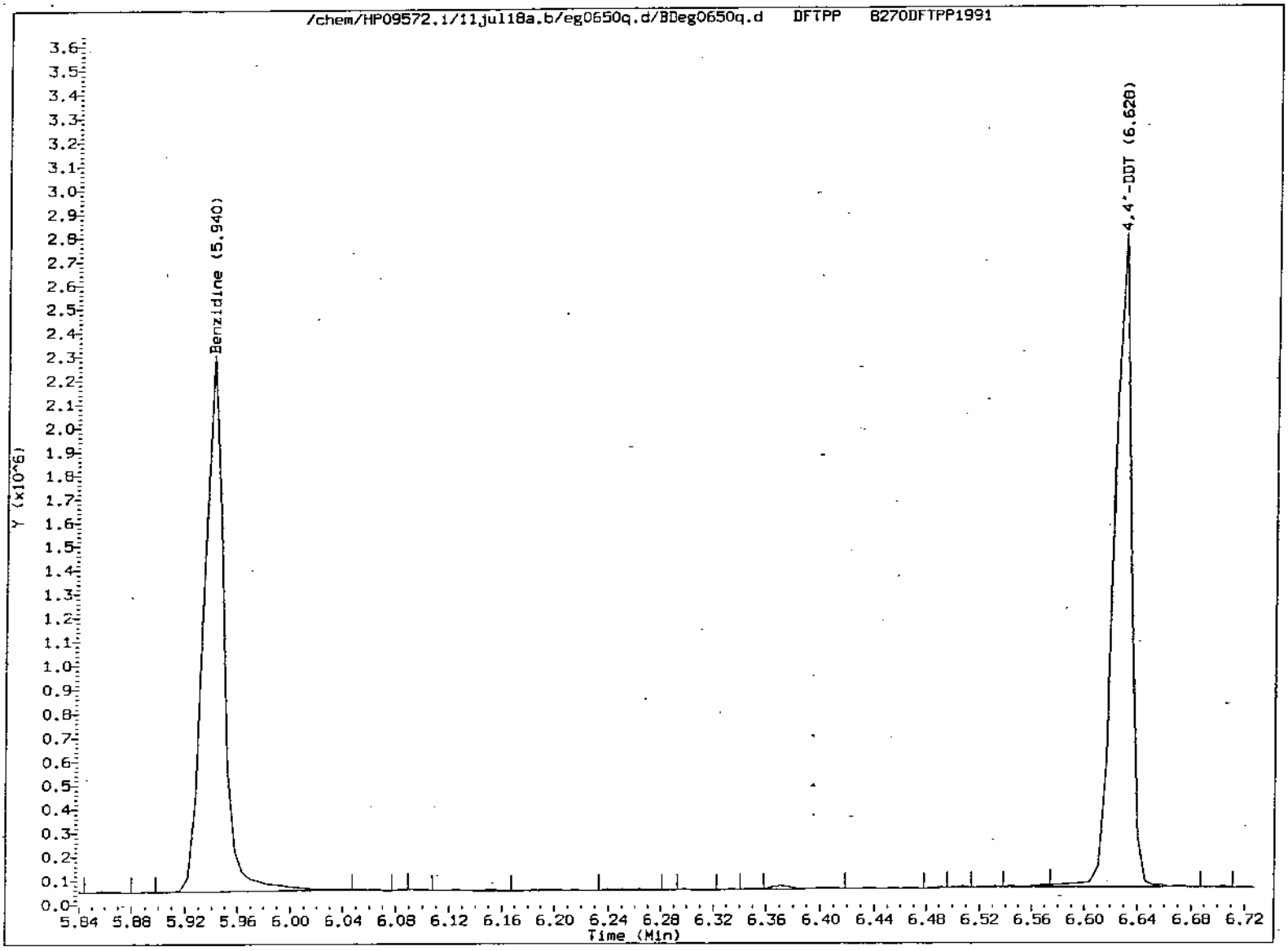
Number of points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
106.00	378	184.00	406	266.00	526	441.00	10296
107.00	25168	185.00	2752	267.00	72	442.00	79256
108.00	3918	186.00	20544	271.00	72	443.00	15038
109.00	73	187.00	6311	272.00	232	444.00	1099
110.00	42712	188.00	626	273.00	2516	445.00	58
111.00	7161	189.00	1443	274.00	6327		

USP03 9420

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP09572.i Injection Date: 18-JUL-2011 23:59 Operator: rpb01568



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

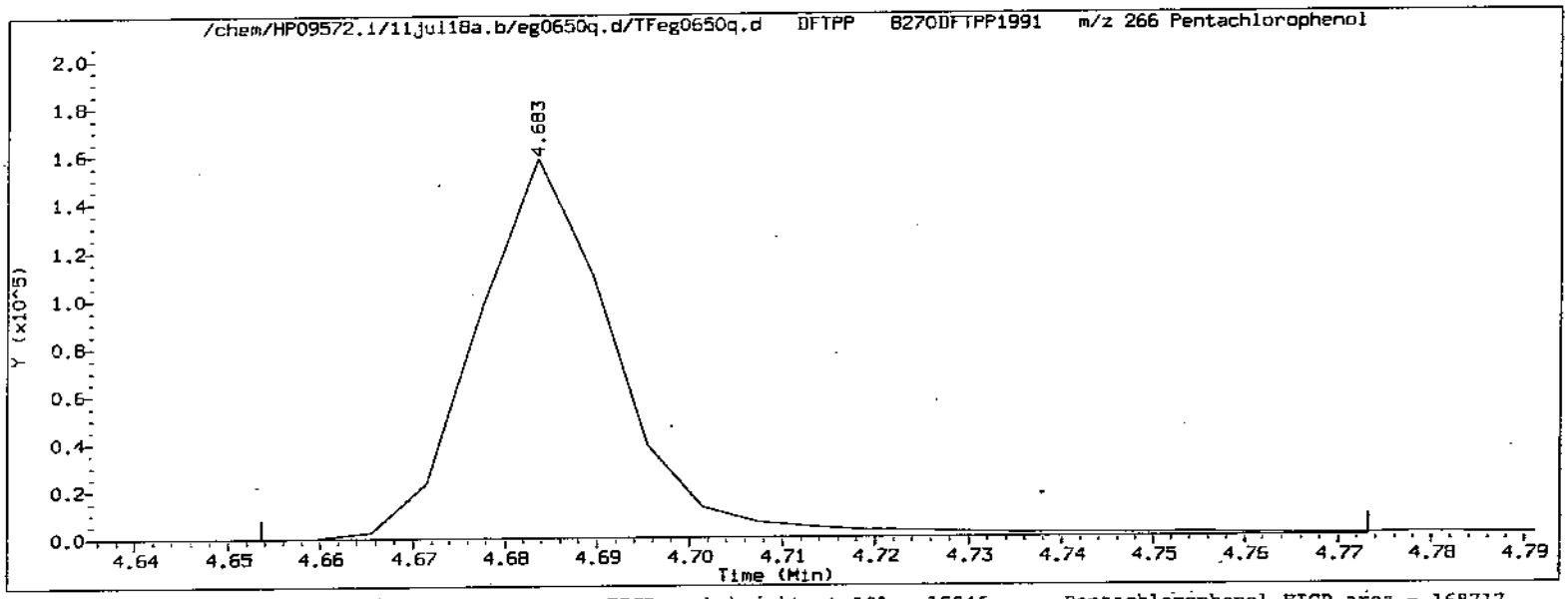
$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 0}{0 + 0 + 2498967} \times 100 = 0.0$$

USF03 8421

printed on 07/19/2011 at 05:28

Assessment of GC Column Performance and Injection Port Inertness for

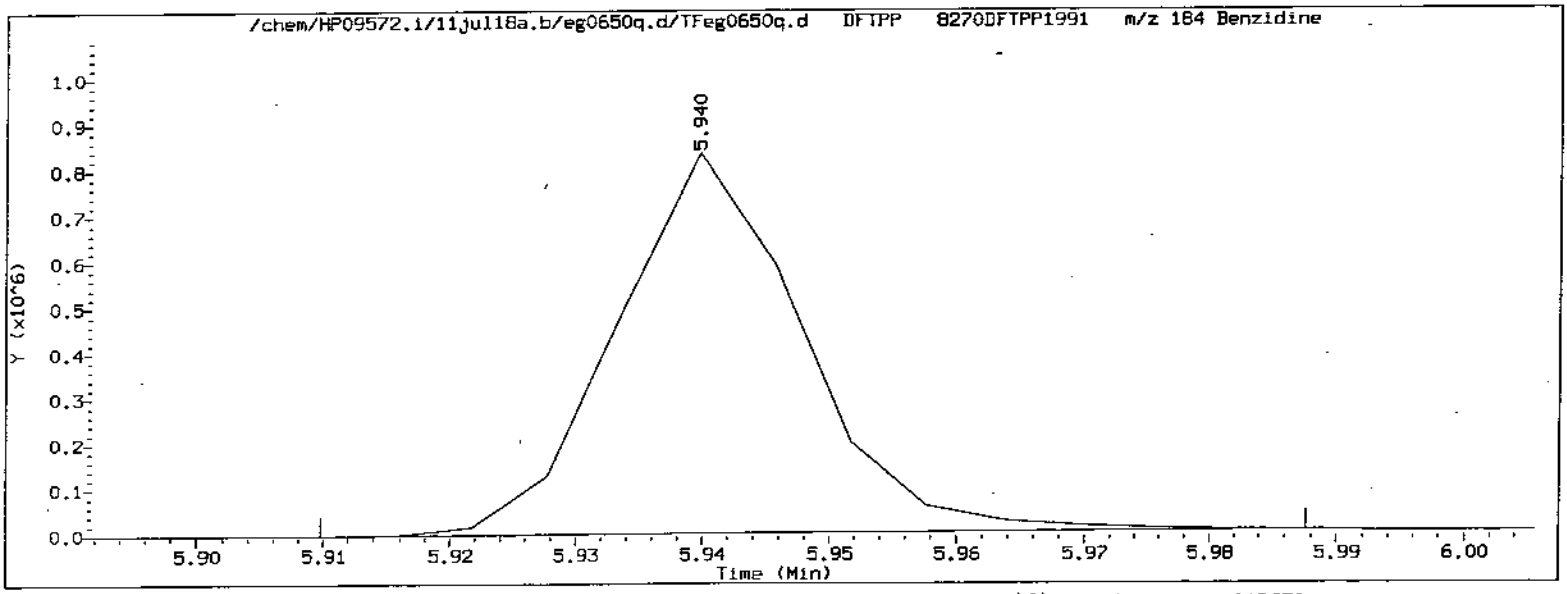
Instrument ID: HP09572.i Injection Date: 18-JUL-2011 23:59 Operator: rpb01568



Pentachlorophenol EICP peak height = 158464 EICP peak height at 10% = 15846 Pentachlorophenol EICP area = 168717

Pentachlorophenol EICP peak apex (min.) = 4.683
RT at 10% of front half of EICP (min.) = 4.669 'Front' peak width (min.) = 0.0140833333
RT at 10% of back half of EICP (min.) = 4.701 'Tailing' peak width (min.) = 0.0171833333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0171833333}{0.0140833333} = 1.220$

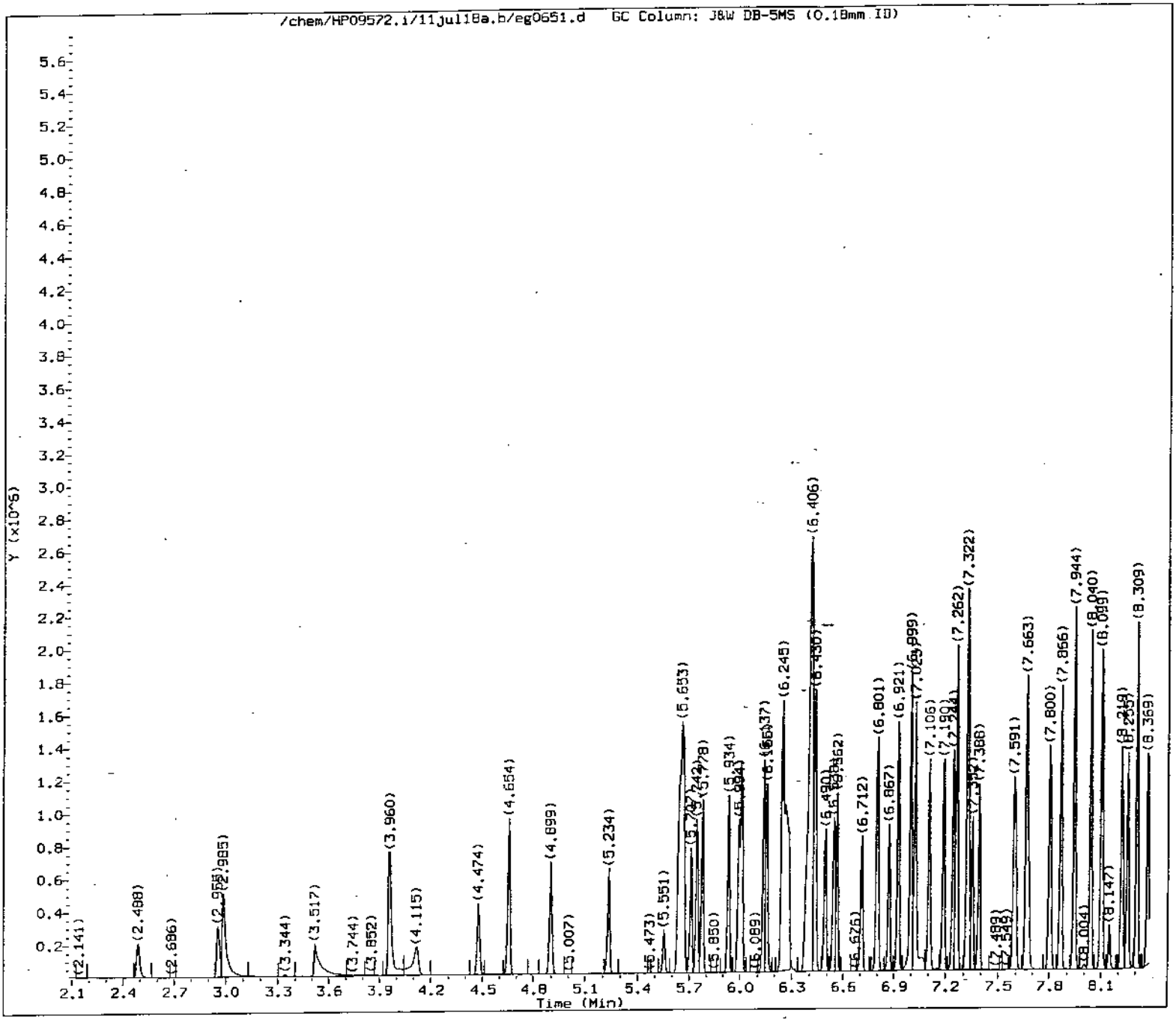


Benzidine EICP peak height = 833290 EICP peak height at 10% = 83329 Benzidine EICP area = 845671

Benzidine EICP peak apex (min.) = 5.940
RT at 10% of front half of EICP (min.) = 5.925 'Front' peak width (min.) = 0.0142333333
RT at 10% of back half of EICP (min.) = 5.957 'Tailing' peak width (min.) = 0.0169166667

USF03 2422

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0169166667}{0.0142333333} = 1.189$



Quant Report

Target Revision 3.5

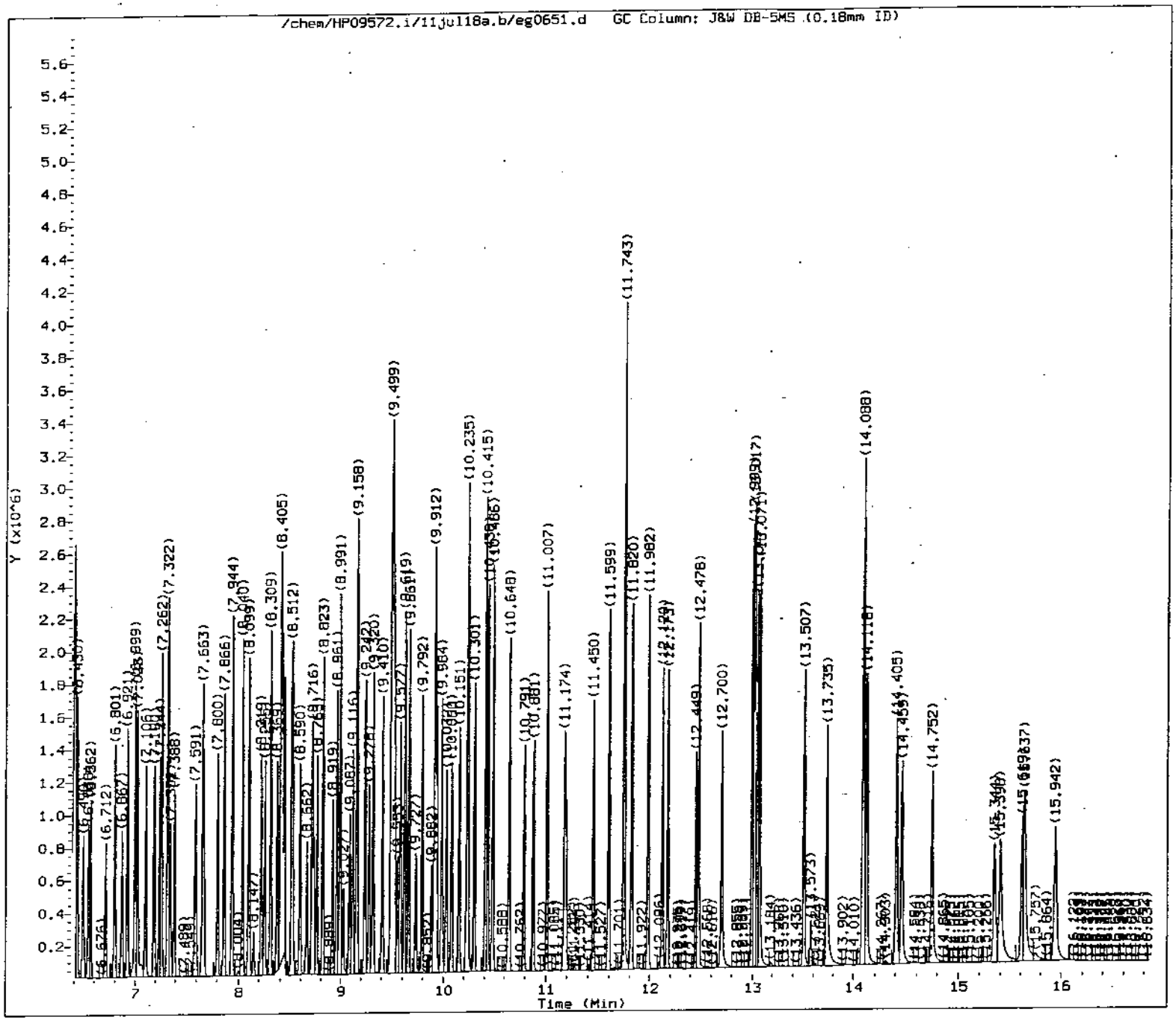
Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

USTBB 8423

mjg 7/19/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: alll
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

USF03 0424

mcb 8/9/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.488	88	91738	51.1852
3)	N-Nitrosodimethylamine	(1)	2.955	74	165151	51.9872
4)	Pyridine	(1)	2.985	79	281840	53.0156
6)	2-Picoline	(1)	3.960	93	271040	50.0896
2)	N-Nitrosomethylethylamine	(1)	4.115	88	126242	49.9812
8)	Methyl methanesulfonate	(1)	4.474	80	152795	50.4888
9)	N-Nitrosodiethylamine	(1)	4.899	102	121428	50.0078
15)	Ethyl methanesulfonate	(1)	5.234	109	122438	50.0770
22)	Phenol	(1)	5.653	94	370290	49.9690
21)	Aniline	(1)	5.665	93	422563	49.9267
33)	Pentachloroethane	(1)	5.713	167	77273	50.4799
23)	bis(2-Chloroethyl)ether	(1)	5.742	93	267816	49.6315
24)	2-Chlorophenol	(1)	5.778	128	227508	49.9354
26)	1,3-Dichlorobenzene	(1)	5.934	146	232831	50.1725
27)	1,4-Dichlorobenzene-d4	(1)	5.994	152	116958	40.0000
28)	1,4-Dichlorobenzene	(1)	6.006	146	240104	50.0704
31)	Benzyl alcohol	(1)	6.137	108	155935M	46.6704
32)	1,2-Dichlorobenzene	(1)	6.155	146	224363	49.3958
17)	Indene	(1)	6.245	115	363296	47.6122
34)	2-Methylphenol	(1)	6.257	108	232739	50.1858
35)	2,2'-oxybis(1-Chloropropane)	(1)	6.281	45	421059	49.9567
36)	bis(2-Chloroisopropyl)ether	(1)	6.281	45	421059	49.9471
30)	N-Nitrosopyrrolidine	(1)	6.383	100	139069	49.5222
37)	Acetophenone	(1)	6.394	105	363721	49.8469
38)	N-Nitroso-di-n-propylamine	(1)	6.412	70	252041	50.2411
39)	4-Methylphenol	(1)	6.406	108	258475	47.9347
7)	N-Nitrosomorpholine	(1)	6.424	56	202473	50.7289
40)	o-Toluidine	(1)	6.430	106	407947	49.7128
41)	Hexachloroethane	(1)	6.490	117	95193	50.0201
43)	Nitrobenzene	(2)	6.562	77	333630	51.0705
18)	N-Nitrosopiperidine	(2)	6.712	114	128166	49.9176
46)	Isophorone	(2)	6.801	82	595616	51.2113
47)	2-Nitrophenol	(2)	6.867	139	132744	51.2502
48)	2,4-Dimethylphenol	(2)	6.921	107	270119	51.2689
93)	O,O,O-triethylphosphorothioate	(2)	6.999	198	121575	50.1690
49)	bis(2-Chloroethoxy)methane	(2)	7.023	93	331155	49.5897
50)	Benzoic acid	(2)	7.029	105	210071	48.1620
51)	2,4-Dichlorophenol	(2)	7.106	162	199381	51.2883
52)	1,2,4-Trichlorobenzene	(2)	7.190	180	215892	50.8406
53)	Naphthalene-d8	(2)	7.244	136	534720	40.0000
54)	Naphthalene	(2)	7.262	128	722200	50.9820
56)	4-Chloroaniline	(2)	7.322	127	313891	50.9347
55)	2,6-Dichlorophenol	(2)	7.328	162	198942	51.1121

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	7.352	213	119448	51.0492
59)	Hexachlorobutadiene	(2)	7.388	225	104458	51.0359
65)	Quinoline	(2)	7.591	129	468849	50.2623
66)	Caprolactam	(2)	7.675	113	100723	52.1710
5)	N-Nitrosodi-n-butylamine	(2)	7.663	84	284494	56.8629
68)	4-Chloro-3-methylphenol	(2)	7.800	107	241003	50.9621
61)	Safrole	(2)	7.866	162	192288	50.8702
64)	cis-Isosafrole	(3)	8.147	162	33473	5.8008
69)	2-Methylnaphthalene	(2)	7.944	142	495884	50.8286
71)	1-Methylnaphthalene	(2)	8.040	142	466297	50.8271
72)	Hexachlorocyclopentadiene	(3)	8.099	237	111379	51.8387
73)	1,2,4,5-Tetrachlorobenzene	(3)	8.105	216	209948	51.0204
62)	trans-Isosafrole	(3)	8.375	162	194971	45.3962
76)	2,4,6-Trichlorophenol	(3)	8.219	196	146579	51.5282
77)	2,4,5-Trichlorophenol	(3)	8.255	196	162058	50.8813
63)	Isosafrole	(3)	8.375	162	194971	51.0069
82)	Biphenyl	(3)	8.405	154	614851	50.7743
83)	Diphenyl	(3)	8.405	154	614851	50.7743
84)	1,1'-Biphenyl	(3)	8.405	154	614851	50.7743
85)	2-Chloronaphthalene	(3)	8.416	162	520832	46.9795
86)	1-Chloronaphthalene	(3)	8.440	162	442130	50.8061
87)	Diphenyl ether	(3)	8.512	170	327337	50.5414
88)	2-Nitroaniline	(3)	8.524	138	171407	51.6328
60)	1,4-Naphthoquinone	(3)	8.596	158	205910	52.9760
57)	1,4-Dinitrobenzene	(3)	8.662	168	85576	51.3235
92)	Dimethylphthalate	(3)	8.716	163	547013	50.4697
58)	1,3-Dinitrobenzene	(3)	8.734	168	100652	51.4202
98)	2,6-Dinitrotoluene	(3)	8.763	165	133146	51.0505
100)	Acenaphthylene	(3)	8.823	152	725638	51.1439
102)	3-Nitroaniline	(3)	8.925	138	143989	52.1238
103)	Acenaphthene-d10	(3)	8.961	164	333899	40.0000
106)	Acenaphthene	(3)	8.991	153	479784	50.6630
107)	2,4-Dinitrophenol	(3)	9.027	184	64409	49.0705
110)	Pentachlorobenzene	(3)	9.116	250	184429	50.7341
109)	4-Nitrophenol	(3)	9.087	109	83946	51.3549
112)	Dibenzofuran	(3)	9.164	168	689610	50.8359
113)	2,4-Dinitrotoluene	(3)	9.158	165	176248	51.2355
114)	1-Naphthylamine	(3)	9.242	143	542017	52.3189
115)	2,3,4,6-Tetrachlorophenol	(3)	9.284	232	124870	50.6699
117)	2-Naphthylamine	(3)	9.320	143	547599	52.2754
118)	Diethylphthalate	(3)	9.410	149	539818	51.0510
119)	Fluorene	(3)	9.499	166	588733	51.0728
29)	Thionazin	(3)	9.487	107	97882	49.2233

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area		Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	9.505	204	275292		50.6816
70)	5-Nitro-o-toluidine	(3)	9.517	152	181111		52.6078
121)	4-Nitroaniline	(3)	9.523	138	156017		50.6494
122)	4,6-Dinitro-2-methylphenol	(4)	9.553	198	92037		51.7839
67)	1-Nitronaphthalene	(4)	9.577	173	114076		50.8243
123)	N-Nitrosodiphenylamine	(4)	9.619	169	494752		51.0432
124)	NDPA as diphenylamine	(4)	9.619	169	494752		51.0678
125)	1,2-Diphenylhydrazine	(4)	9.661	77	747984		50.7694
108)	Tetraethyldithiopyrophosphate	(4)	9.792	97	104657		52.2239
81)	1,3,5-Trinitrobenzene	(4)	9.882	213	61165		53.0272
78)	Diallate (peak 1)	(4)	9.912	86	259236		38.1701
75)	Phorate	(4)	9.918	75	464739		51.5758
80)	Phenacetin	(4)	9.936	108	315940		52.5076
131)	4-Bromophenyl-phenylether	(4)	9.984	248	147049		50.2781
13)	Diallate (peak 2)	(4)	9.996	86	50446		12.3853
132)	Hexachlorobenzene	(4)	10.032	284	148906		50.9866
96)	Dimethoate	(4)	10.080	87	246957		53.8695
135)	Pentachlorophenol	(4)	10.223	266	100026		50.2684
136)	Pentachloronitrobenzene	(4)	10.241	237	61235		50.1068
105)	4-Aminobiphenyl	(4)	10.235	169	547289		51.3193
97)	Pronamide	(4)	10.301	173	251641		51.9813
140)	Phenanthrene-d10	(4)	10.415	188	582806		40.0000
141)	Phenanthrene	(4)	10.438	178	805757		50.7308
137)	Dinoseb	(4)	10.415	211	133795		53.9350
143)	Anthracene	(4)	10.486	178	827831		51.3637
145)	Carbazole	(4)	10.648	167	775713		51.3921
149)	Methyl parathion	(4)	10.791	109	187660	A	53.4175
148)	Di-n-butylphthalate	(4)	11.007	149	929606		52.2260
150)	Parathion	(4)	11.174	109	123837		53.3987
133)	4-Nitroquinoline-1-oxide	(4)	11.192	190	77990		58.4371
99)	Isodrin	(4)	11.450	193	87767		50.8160
153)	Fluoranthene	(4)	11.599	202	836297		52.1240
154)	Benzidine	(5)	11.743	184	1418450		164.5686
155)	Pyrene	(5)	11.820	202	890994		50.5205
147)	p-Dimethylaminoazobenzene	(5)	12.120	225	177367		51.6114
144)	Chlorobenzilate	(5)	12.173	139	276847		51.5971
161)	3,3'-Dimethylbenzidine	(5)	12.449	212	432917		57.1958
162)	Butylbenzylphthalate	(5)	12.478	149	406436		51.7506
101)	2-Acetylaminofluorene	(5)	12.700	181	344744		53.6716
165)	3,3'-Dichlorobenzidine	(5)	12.993	252	288618		52.9265
164)	Benzo(a)anthracene	(5)	13.011	228	785939	A	51.1485
167)	4,4'-Methylenebis(2-Chloroanil	(5)	12.999	231	151679		52.6632
166)	Chrysene-d12	(5)	13.023	240	558311		40.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

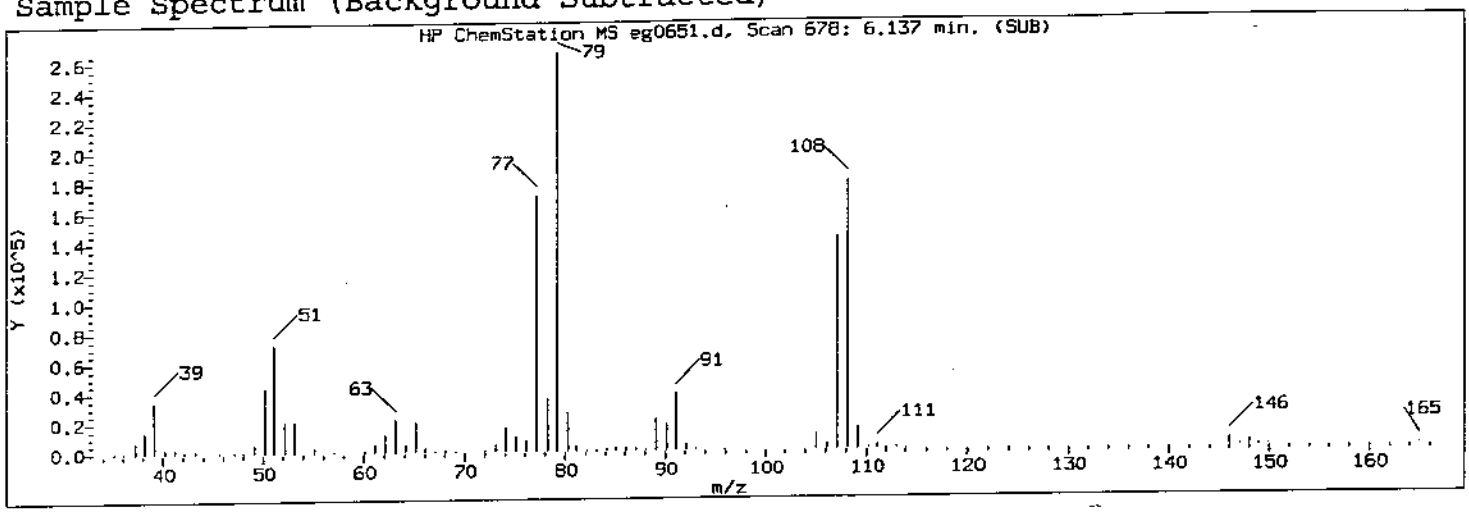
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

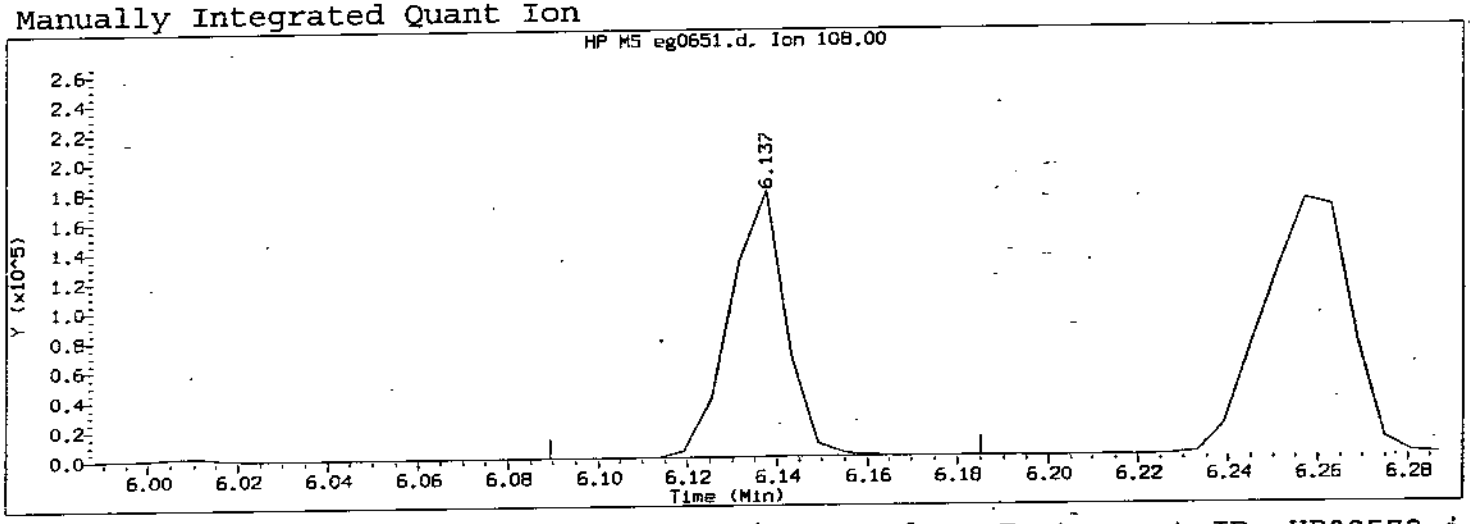
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168)	Chrysene	(5)	13.047	228	768670	50.9134
169)	bis(2-Ethylhexyl)phthalate	(5)	13.071	149	550448	51.8881
170)	6-Methylchrysene	(5)	13.507	242	553443	52.4238
172)	Di-n-octylphthalate	(6)	13.735	149	836823	53.5280
174)	7,12-Dimethylbenz[a]anthracene	(6)	14.088	256	373644	52.7387
173)	Benzo(b)fluoranthene	(6)	14.088	252	714898	52.7479
175)	Benzo(k)fluoranthene	(6)	14.118	252	783308	51.8406
176)	Benzo(a)pyrene	(6)	14.405	252	649482M	50.1900
177)	Perylene-d12	(6)	14.459	264	491627	40.0000
180)	3-Methylcholanthrene	(6)	14.752	268	355338	52.4882
181)	Dibenz(a,h)acridine	(6)	15.344	279	421096	53.3490
183)	Dibenz(a,j)acridine	(6)	15.404	279	591548	51.6786
185)	Indeno(1,2,3-cd)pyrene	(6)	15.613	276	691935	51.7388
187)	Dibenz(a,h)anthracene	(6)	15.637	278	585167	51.8943
188)	Benzo(g,h,i)perylene	(6)	15.948	276	572774	51.0281
194)	Diallate TRANS/CIS	(4)	23.556	86	309682	50.5554
11)	2-Fluorophenol	(1)	4.654	112	214066	50.4832
19)	Phenol-d5	(1)	5.641	99	305836	50.5162
20)	Phenol-d6	(1)	5.641	99	305836	50.5162
42)	Nitrobenzene-d5	(2)	6.538	82	315509	50.9616
79)	2-Fluorobiphenyl	(3)	8.309	172	534301	50.7849
126)	2,4,6-Tribromophenol	(3)	9.733	330	63880	51.3395
157)	Terphenyl-d14	(5)	11.982	244	589618	50.6024

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

Compound Number : 31
Compound Name : Benzyl alcohol
Scan Number : 678
Retention Time (minutes): 6.137
Quant Ion : 108
Area (flag) : 155935 M
Concentration (ng/ul) : 46.6704
Integration start scan : 669 Integration stop scan: 685
Y at integration start : 0 Y at integration end: 260

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MAR 7/19/11

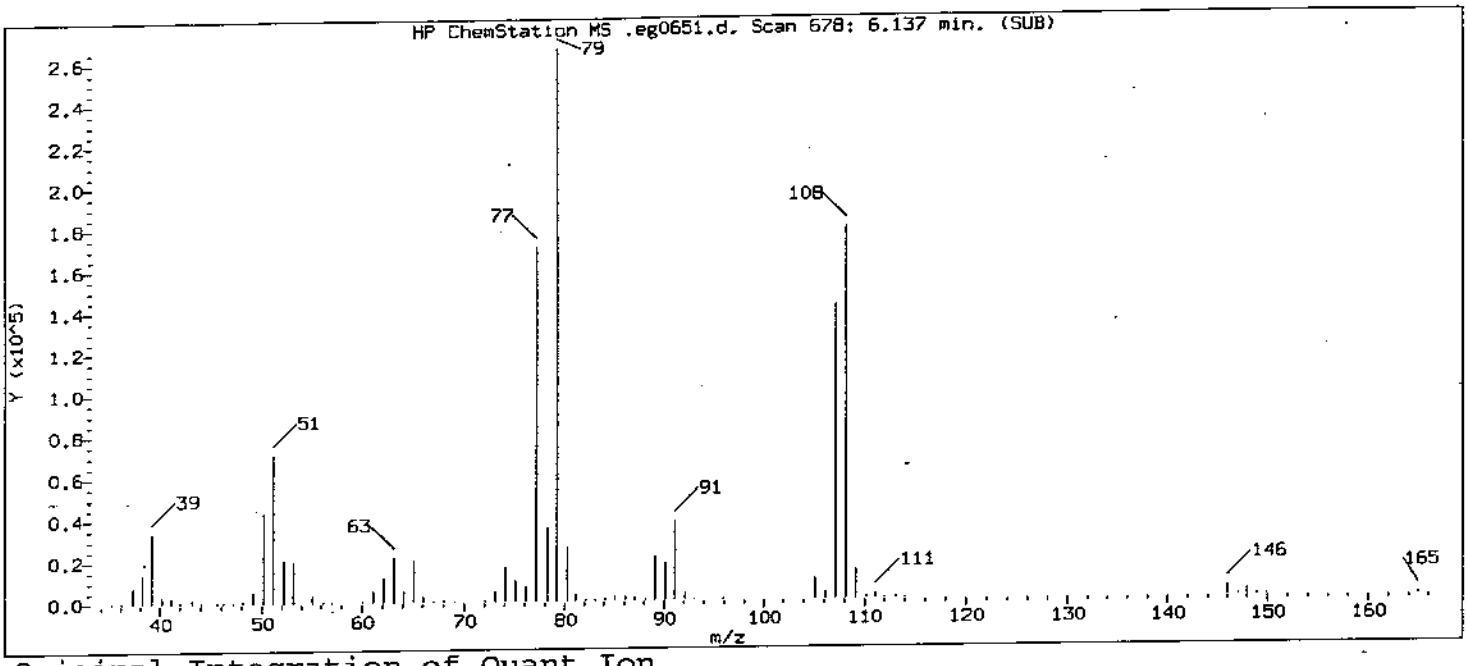
Mark A. Ratcliff
Senior Specialist

USF03 8429

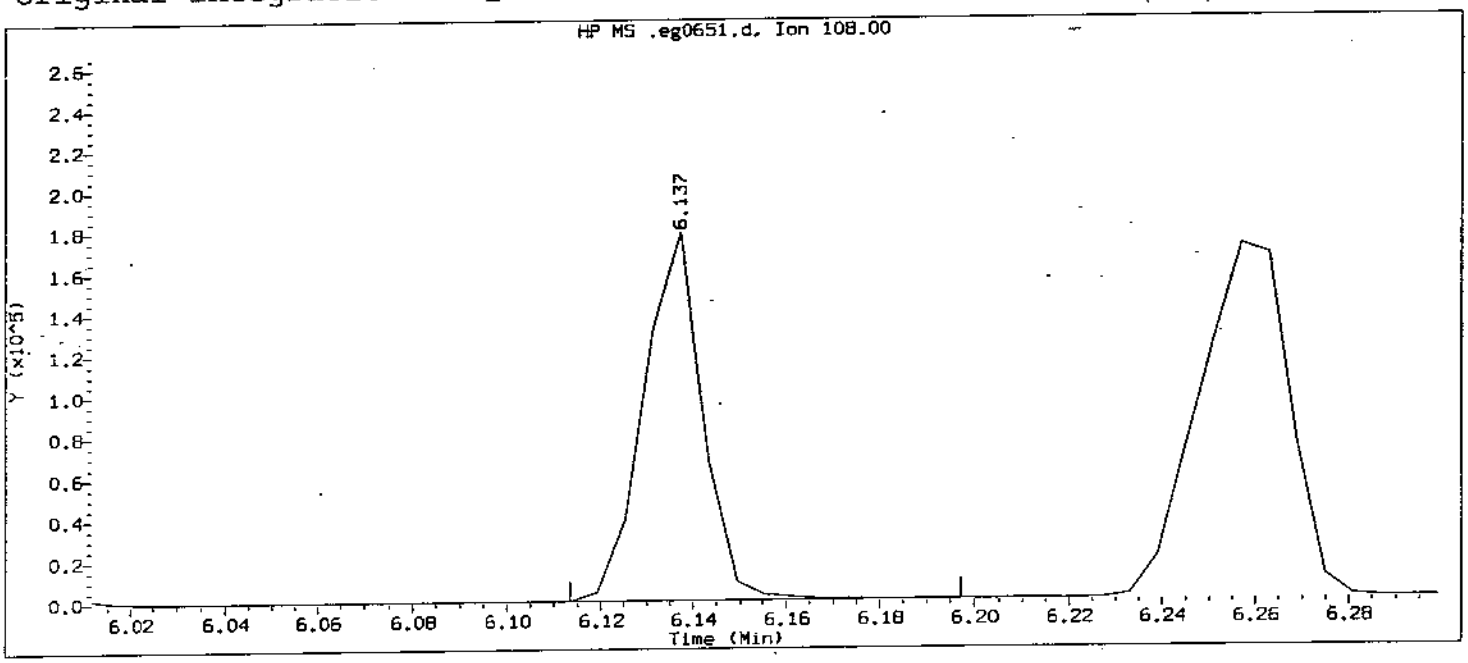
GC/MS audit/management approval: JUL 19 2011

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0651.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 01:05
Date, time and analyst ID of latest file update: 19-Jul-2011 01:05 rpb01568

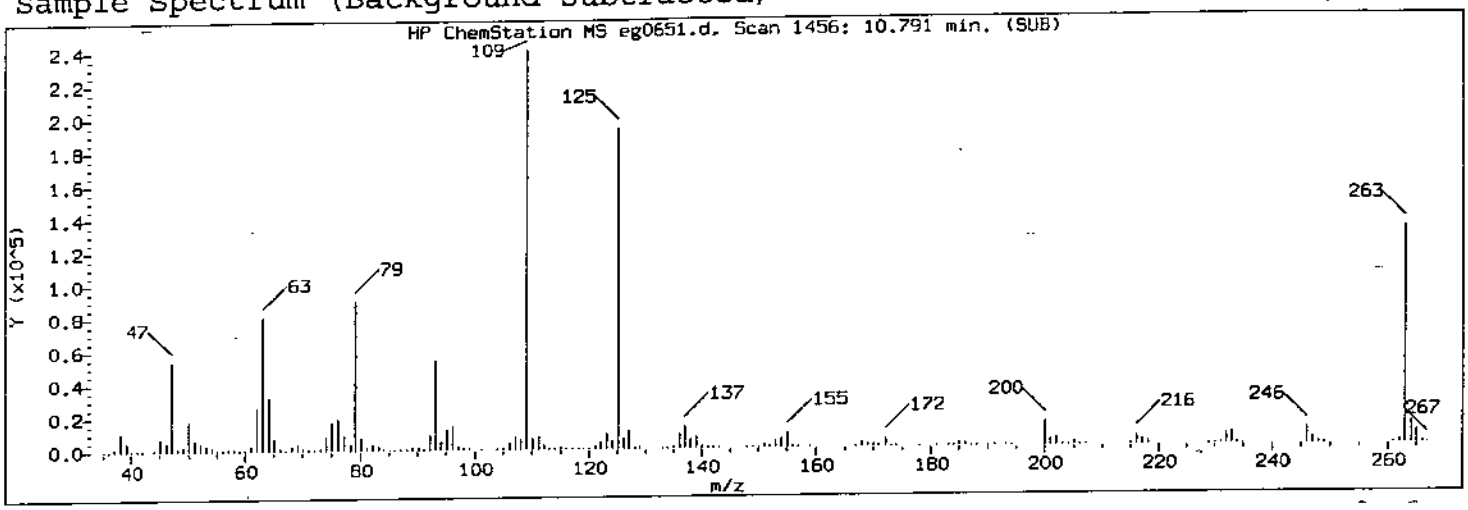
Sample Name: SSTD050 Lab Sample ID: STD1991

Compound Number	: 31
Compound Name	: Benzyl alcohol
Scan Number	: 678
Retention Time (minutes)	: 6.137
Quant Ion	: 108
Area	: 156855
Concentration (ng/ul)	: 48.6476
Integration start scan	: 673 Integration stop scan: 687
Y at integration start	: 0 Y at integration end: 0

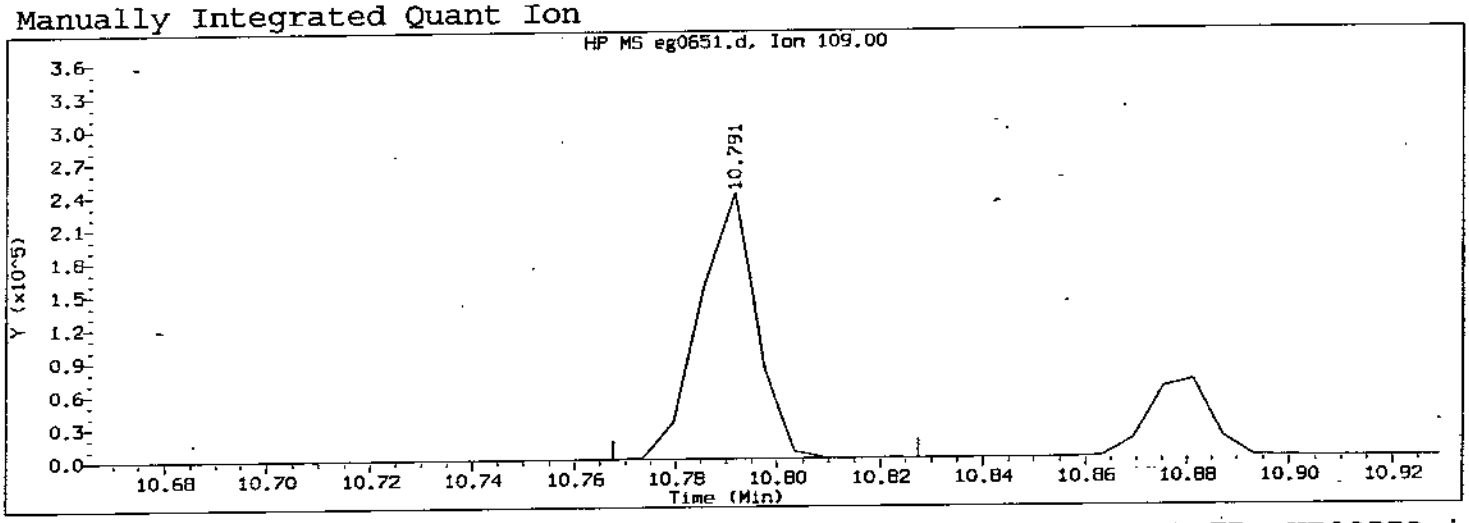
USF03 04438

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0651.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

Compound Number	:	149
Compound Name	:	Methyl parathion
Scan Number	:	1456
Retention Time (minutes)	:	10.791
Quant Ion	:	109
Area (flag)	:	187660A
Concentration (ng/ul)	:	53.4175
Integration start scan	:	1451 Integration stop scan: 1461
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MSW 7/19/11

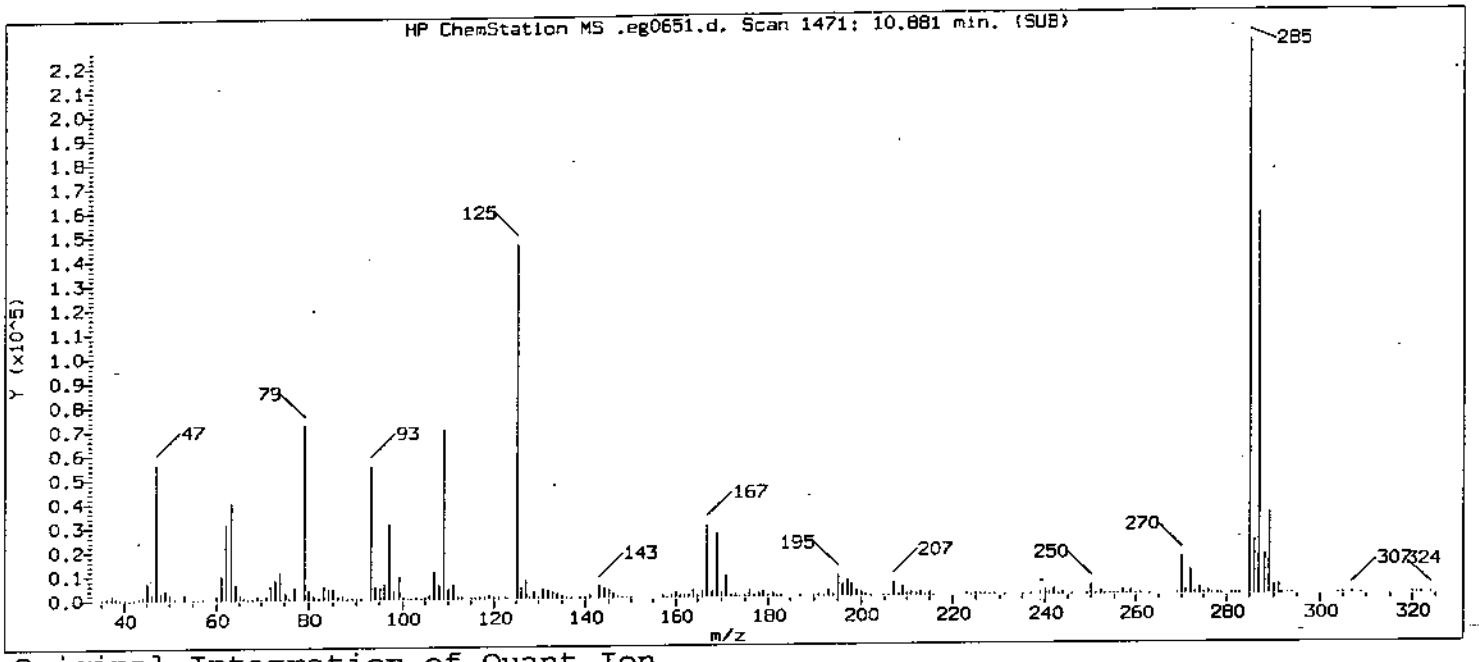
GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist

USEPA 0431

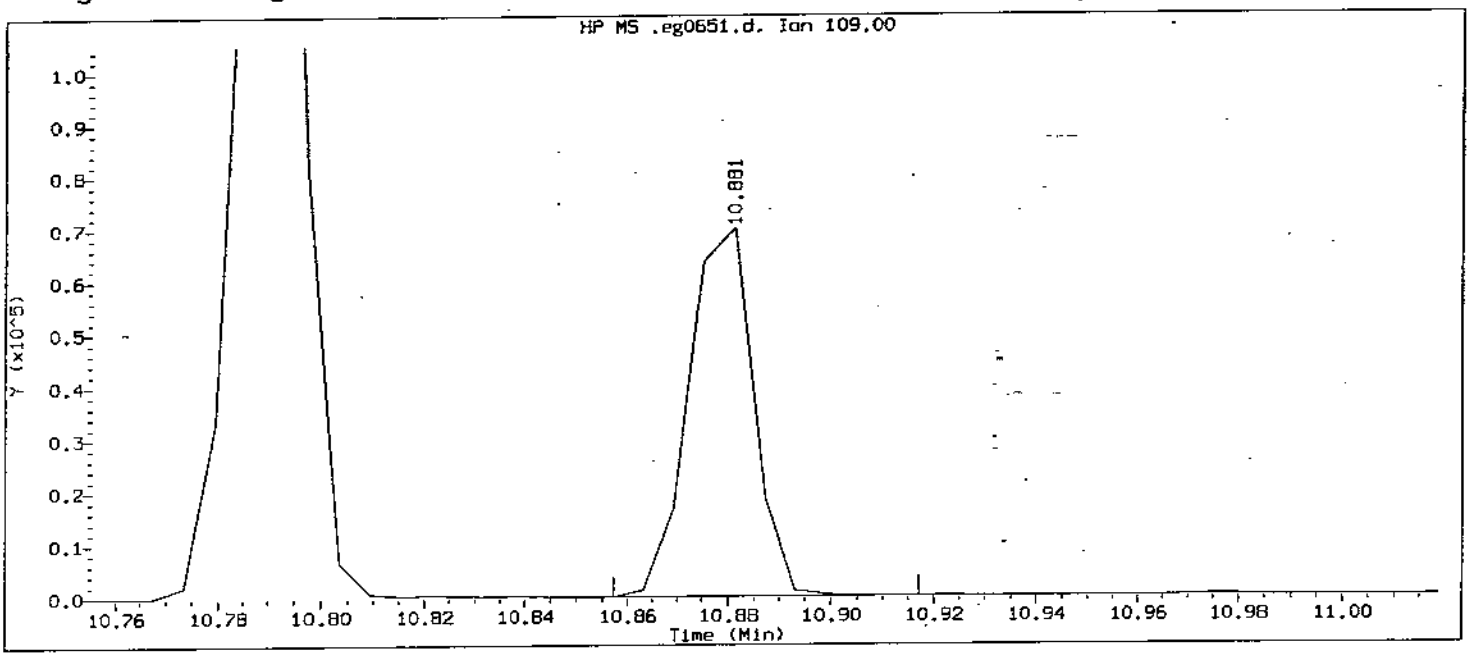
JUL 19 2011

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0651.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 01:05
Date, time and analyst ID of latest file update: 19-Jul-2011 01:05 rpb01568

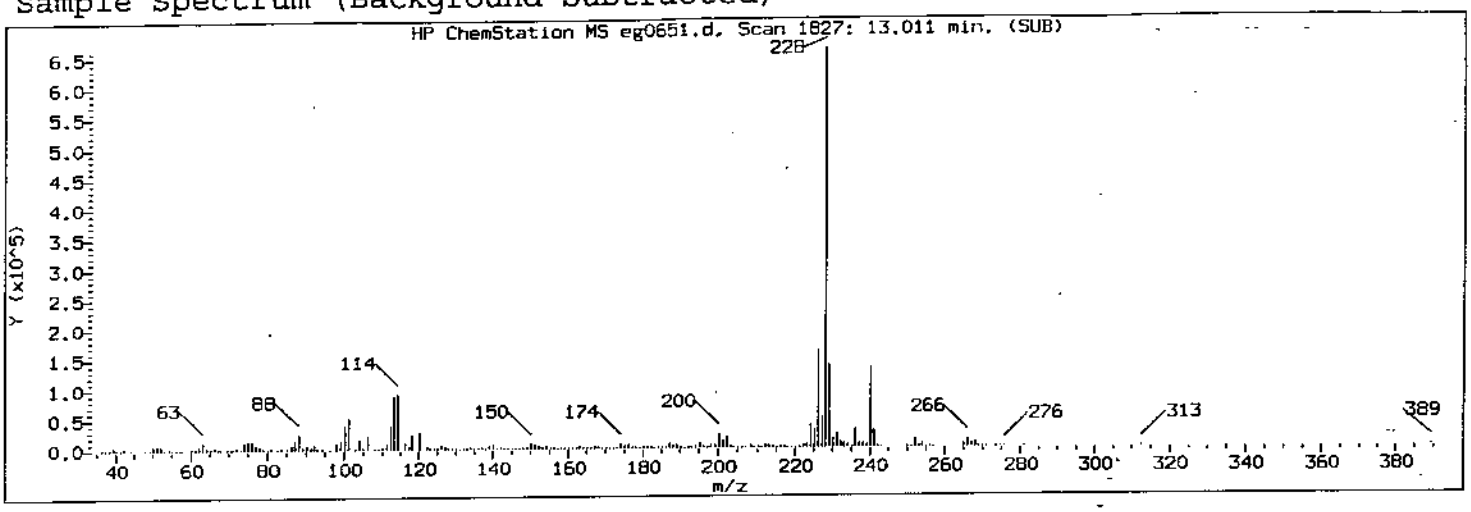
Sample Name: SSTD050 Lab Sample ID: STD1991

Compound Number	: 149
Compound Name	: Methyl parathion
Scan Number	: 1471
Retention Time (minutes)	: 10.881
Quant Ion	: 109
Area	: 61762
Concentration (ng/ul)	: 17.8433
Integration start scan	: 1466 Integration stop scan: 1476
Y at integration start	: 0 Y at integration end: 0

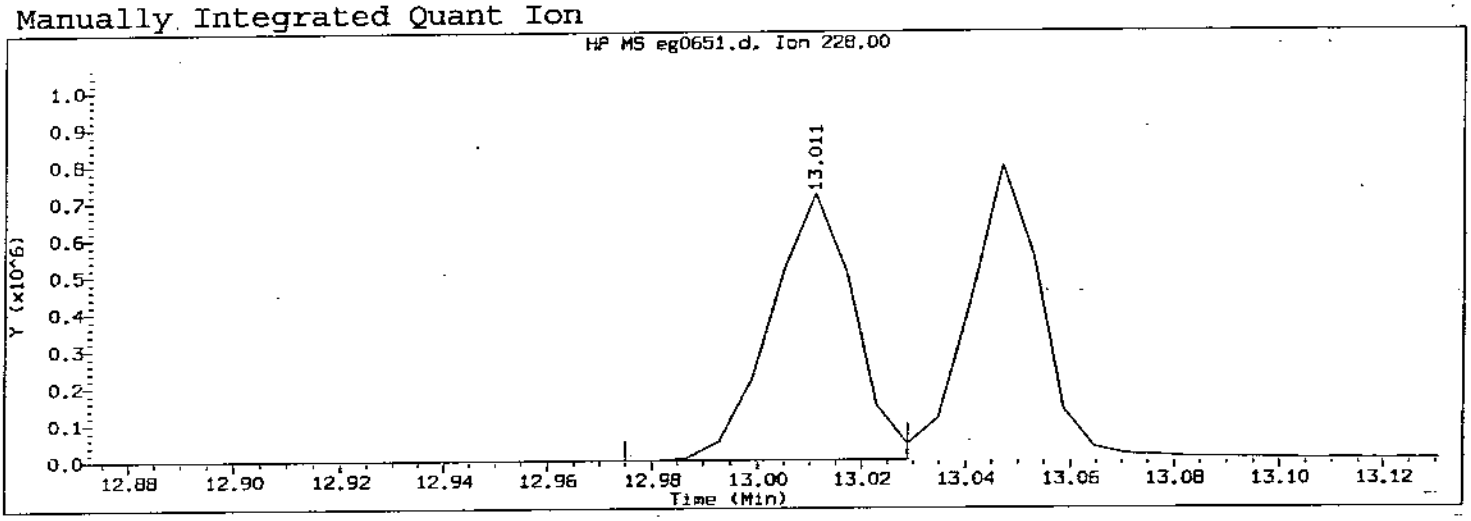
USF83 8432

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0651.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

Compound Number	:	164
Compound Name	:	Benzo(a)anthracene
Scan Number	:	1827
Retention Time (minutes)	:	13.011
Quant Ion	:	228
Area (flag)	:	785939A
Concentration (ng/ul)	:	51.1485
Integration start scan	:	1820 Integration stop scan: 1829
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

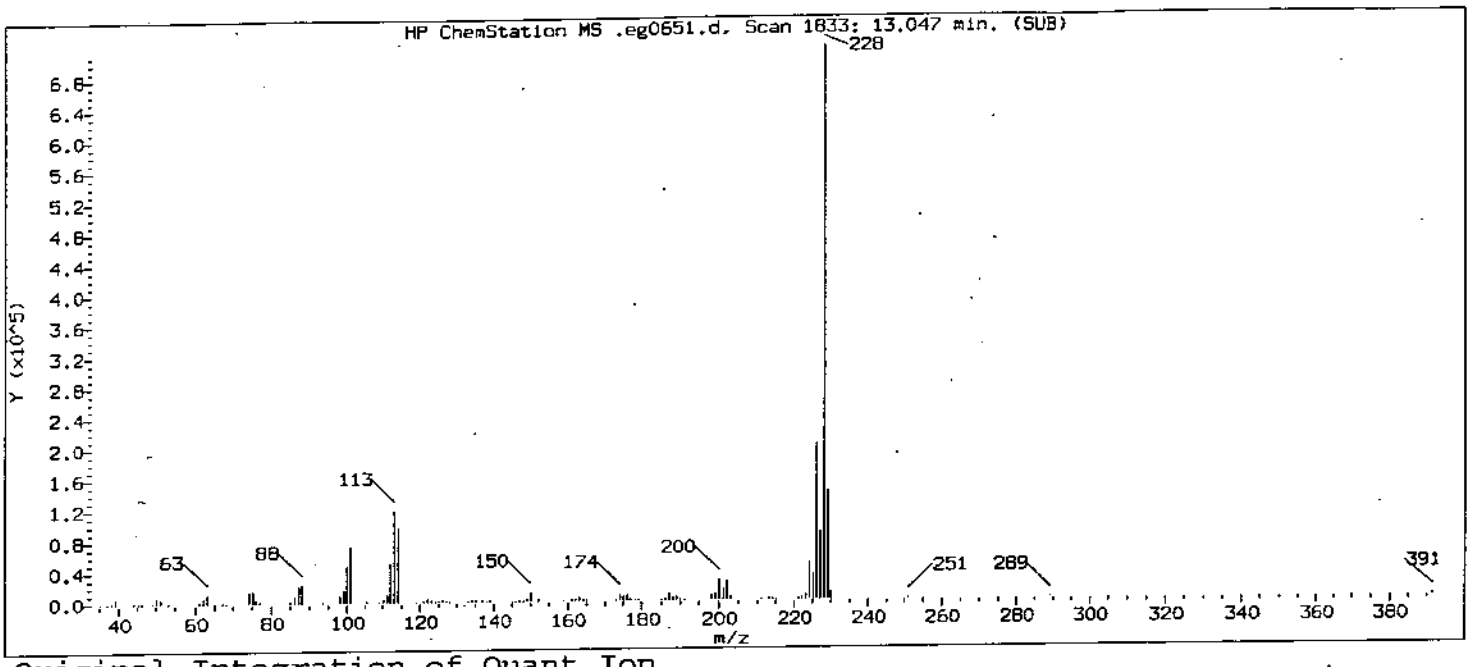
Analyst responsible for change: MCW JMG 7/19/11

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

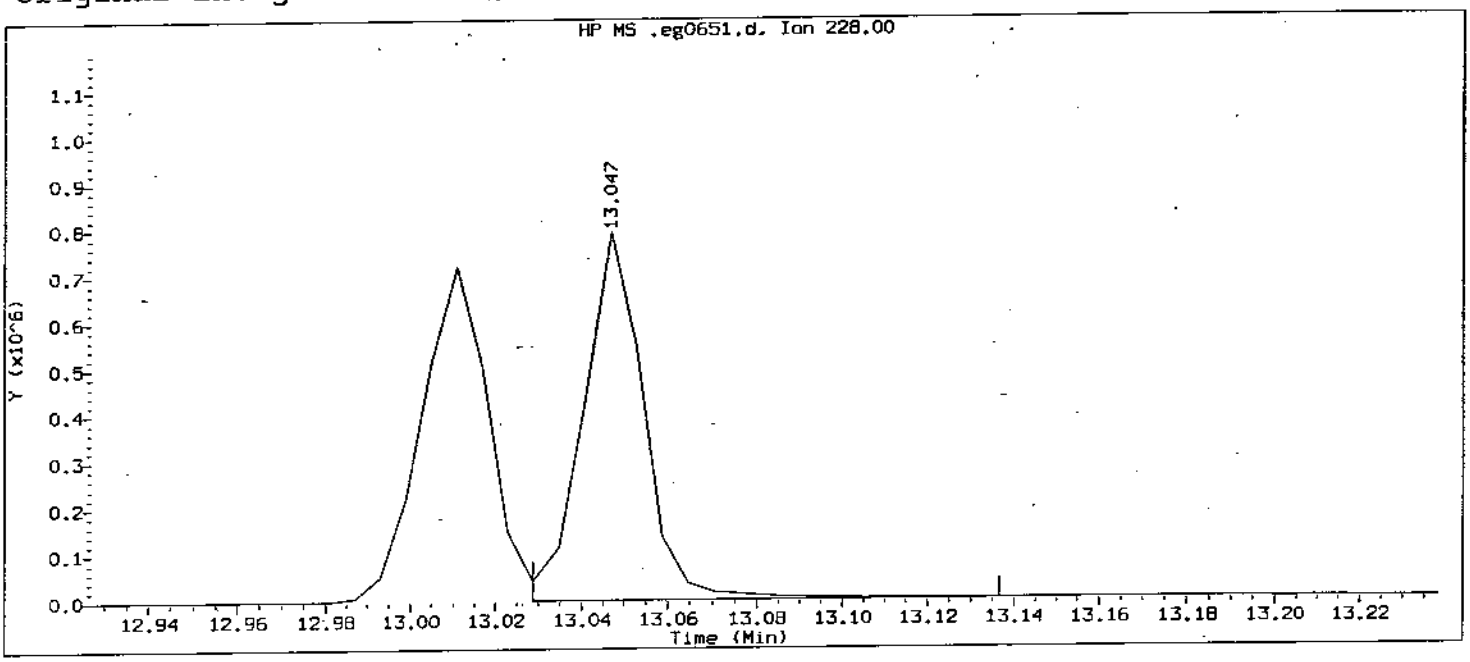
USF03 0433

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0651.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 01:05
Date, time and analyst ID of latest file update: 19-Jul-2011 01:05 rpb01568

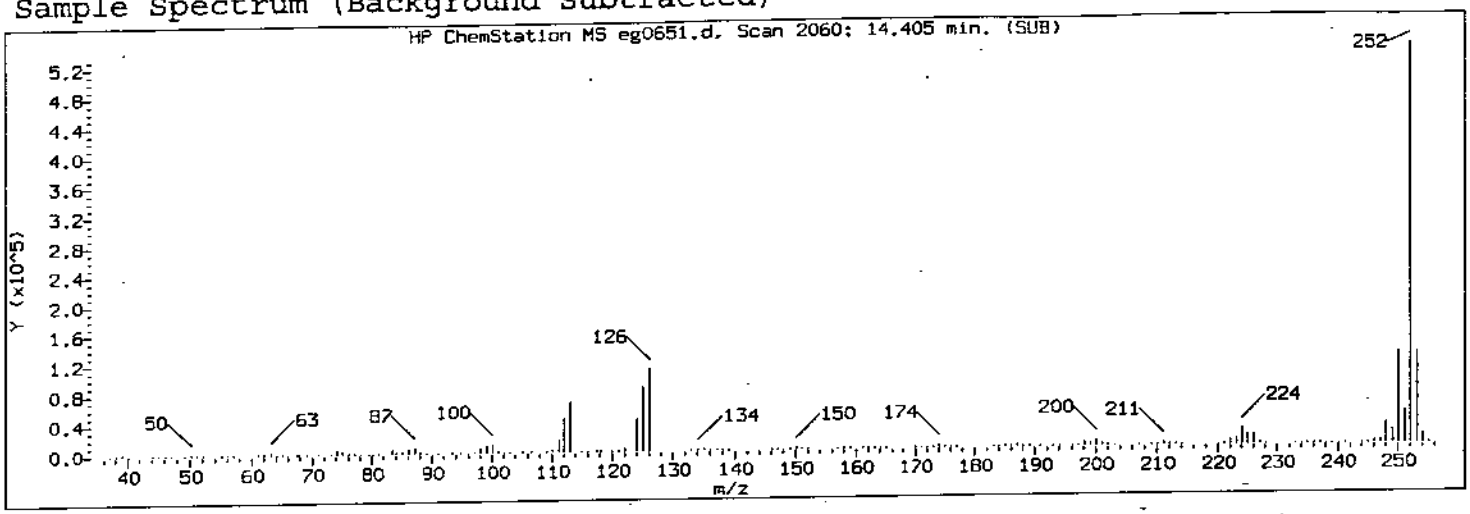
Sample Name: SSTD050 Lab Sample ID: STD1991

Compound Number	:	164
Compound Name	:	Benzo(a)anthracene
Scan Number	:	1833
Retention Time (minutes)	:	13.047
Quant Ion	:	228
Area	:	768670
Concentration (ng/ul)	:	50.1745
Integration start scan	:	1829 Integration stop scan: 1847
Y at integration start	:	0 Y at integration end: 0

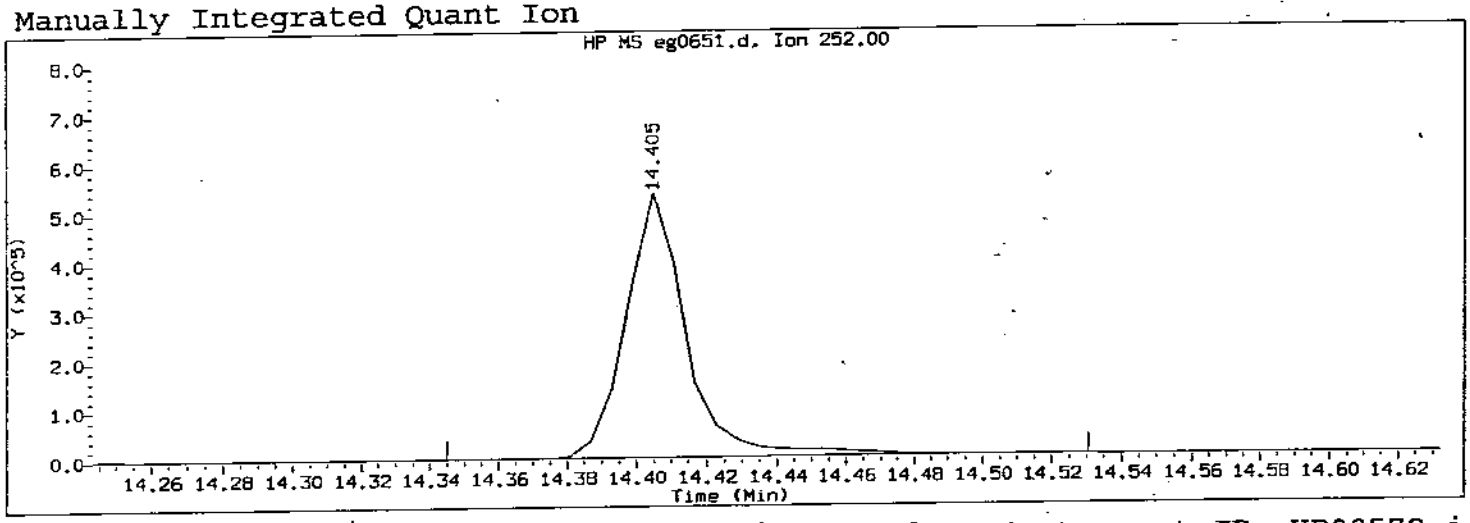
USF03 8434

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0651.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1991

Compound Number	: 176	
Compound Name	: Benzo(a)pyrene	
Scan Number	: 2060	
Retention Time (minutes)	: 14.405	
Quant Ion	: 252	
Area (flag)	: 649482	M
Concentration (ng/ul)	: 50.1900	
Integration start scan	: 2049	Integration stop scan: 2080
Y at integration start	: 1224	Y at integration end: 2278

Reason for manual integration (circle one): missed peak ~~improper integration~~

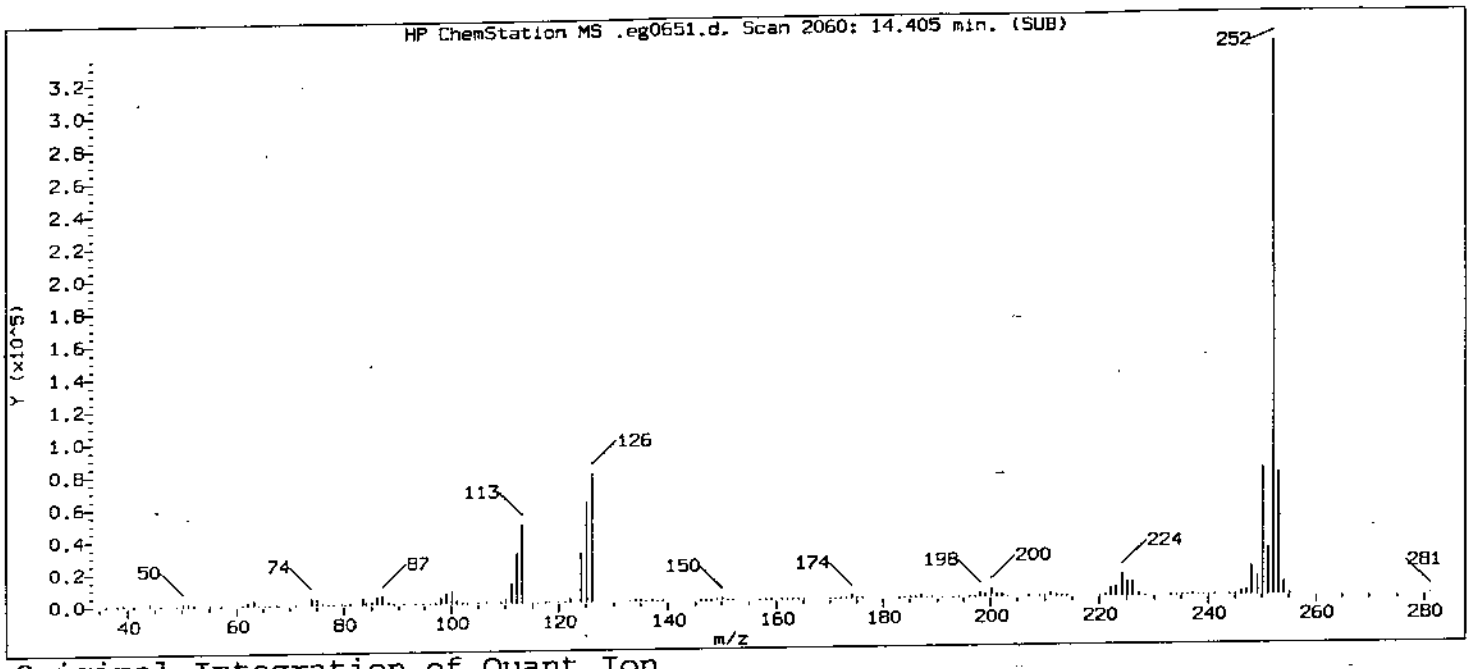
Analyst responsible for change: MAW 7/19/11

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

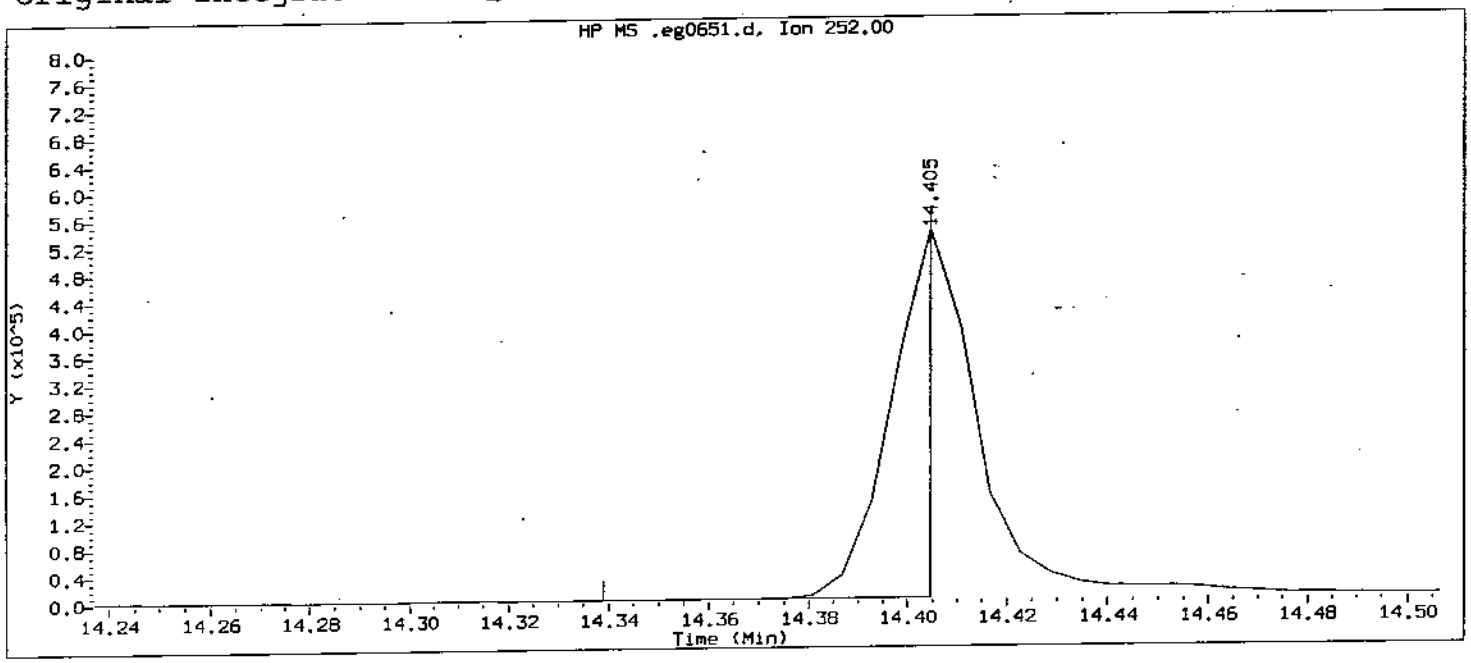
USF03 0435

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0651.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0651.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 00:27 Analyst ID: rpb01568

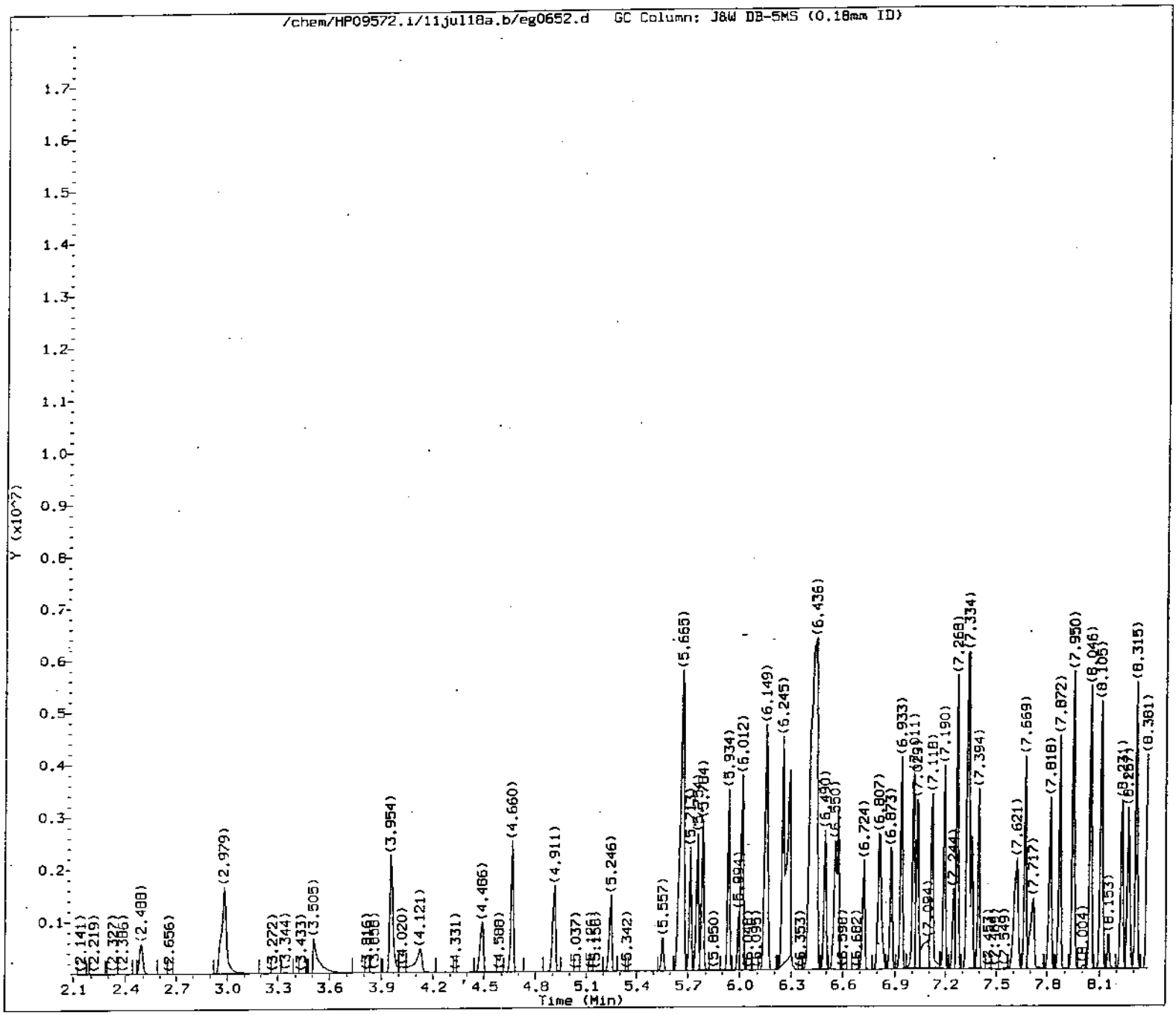
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 01:05
Date, time and analyst ID of latest file update: 19-Jul-2011 01:05 rpb01568

Sample Name: SSTD050 Lab Sample ID: STD1991

Compound Number	:	176
Compound Name	:	Benzo(a)pyrene
Scan Number	:	2060
Retention Time (minutes)	:	14.405
Quant Ion	:	252
Area	:	290017
Concentration (ng/ul)	:	21.5466
Integration start scan	:	2048
Integration stop scan	:	2059
Y at integration start	:	670
Y at integration end	:	670

USF03 0436

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0651.d, generated on 07/19/2011 at 07:14



Quant Report

Target Revision 3.5

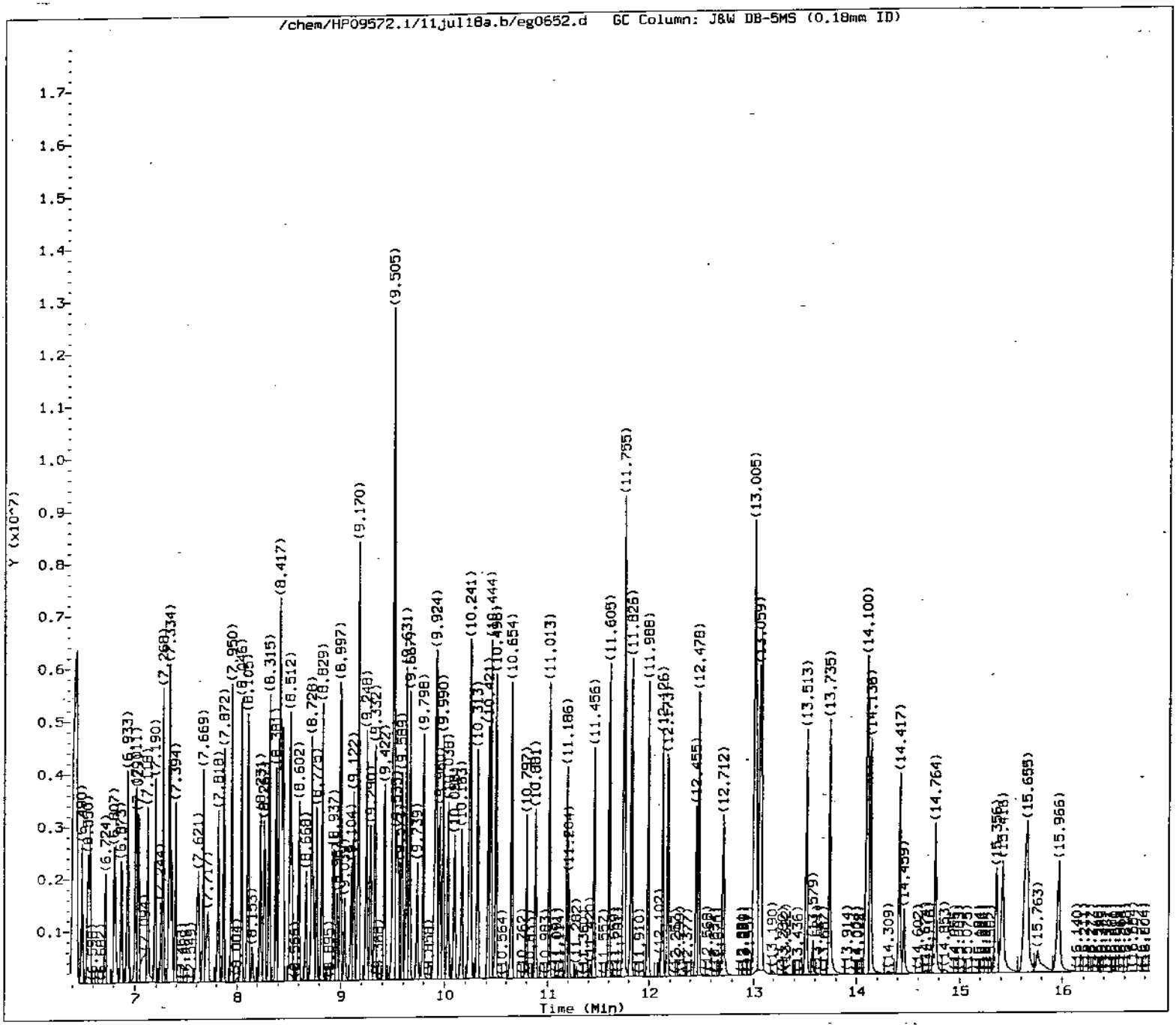
Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

USF03 8437

MSL 2107 7/19/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

USF03 0430

7/19/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.488	88	253524	122.0987
3) N-Nitrosodimethylamine	(1)	2.967	74	476057	129.3515
4) Pyridine	(1)	2.979	79	788910	128.0930
6) 2-Picoline	(1)	3.954	93	766456	122.2640
2) N-Nitrosomethylethylamine	(1)	4.121	88	355875	121.6179
8) Methyl methanesulfonate	(1)	4.486	80	421825	120.3137
9) N-Nitrosodiethylamine	(1)	4.911	102	351076	124.8007
15) Ethyl methanesulfonate	(1)	5.246	109	340905	120.3518
22) Phenol	(1)	5.665	94	1084822	126.3612
21) Aniline	(1)	5.671	93	1225783	125.0120
33) Pentachloroethane	(1)	5.713	167	217885	122.8613
23) bis(2-Chloroethyl)ether	(1)	5.754	93	765678	122.4797
24) 2-Chlorophenol	(1)	5.784	128	653907	123.8867
26) 1,3-Dichlorobenzene	(1)	5.934	146	664043	123.5146
27) 1,4-Dichlorobenzene-d4	(1)	5.994	152	135498	40.0000
28) 1,4-Dichlorobenzene	(1)	6.012	146	689345	124.0838
31) Benzyl alcohol	(1)	6.149	108	492670	127.2772
32) 1,2-Dichlorobenzene	(1)	6.155	146	663122	126.0170
17) Indene	(1)	6.245	115	1131938	128.0493
34) 2-Methylphenol	(1)	6.263	108	661176M	123.0624
35) 2,2'-oxybis(1-Chloropropane)	(1)	6.281	45	1158470M	118.6404
36) bis(2-Chloroisopropyl)ether	(1)	6.281	45	1159830M	118.7568
30) N-Nitrosopyrrolidine	(1)	6.406	100	404895	124.4541
37) Acetophenone	(1)	6.406	105	1030610	121.9161
38) N-Nitroso-di-n-propylamine	(1)	6.430	70	724349	124.6329
39) 4-Methylphenol	(1)	6.418	108	827945	132.5349
7) N-Nitrosomorpholine	(1)	6.442	56	554097	119.8316
40) o-Toluidine	(1)	6.436	106	1195222	125.7216
41) Hexachloroethane	(1)	6.490	117	275317	124.8732
43) Nitrobenzene	(2)	6.568	77	927504	123.8975
18) N-Nitrosopiperidine	(2)	6.724	114	353727	120.2238
46) Isophorone	(2)	6.807	82	1602139	120.2101
47) 2-Nitrophenol	(2)	6.879	139	383159	129.0926
48) 2,4-Dimethylphenol	(2)	6.933	107	752481	124.6339
93) O,O,O-triethylphosphorothioate	(2)	7.011	198	339976	122.4281
49) bis(2-Chloroethoxy)methane	(2)	7.029	93	934348	122.0986
50) Benzoic acid	(2)	7.094	105	636952M	127.4345
51) 2,4-Dichlorophenol	(2)	7.118	162	549791	123.4167
52) 1,2,4-Trichlorobenzene	(2)	7.190	180	617130	126.8214
53) Naphthalene-d8	(2)	7.244	136	612752	40.0000
54) Naphthalene	(2)	7.268	128	2020398	124.4624
56) 4-Chloroaniline	(2)	7.328	127	893456	126.5173
55) 2,6-Dichlorophenol	(2)	7.334	162	567169	127.1603

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44) Hexachloropropene	(2)	7.352	213	353371	131.7900
59) Hexachlorobutadiene	(2)	7.394	225	301678	128.6233
65) Quinoline	(2)	7.621	129	1270963	118.9005
66) Caprolactam	(2)	7.717	113	259181	117.1508
5) N-Nitrosodi-n-butylamine	(2)	7.669	84	598885	104.4579
68) 4-Chloro-3-methylphenol	(2)	7.818	107	652155	120.3421
61) Safrole	(2)	7.872	162	539901	124.6428
64) cis-Isosafrole	(3)	8.153	162	90877	14.2187
69) 2-Methylnaphthalene	(2)	7.950	142	1373019	122.8136
71) 1-Methylnaphthalene	(2)	8.046	142	1287004	122.4205
72) Hexachlorocyclopentadiene	(3)	8.105	237	341379	143.4509
73) 1,2,4,5-Tetrachlorobenzene	(3)	8.111	216	591718	129.8263
62) trans-Isosafrole	(3)	8.381	162	533843	112.2220
76) 2,4,6-Trichlorophenol	(3)	8.231	196	403229	127.9796
77) 2,4,5-Trichlorophenol	(3)	8.267	196	450278	127.6391
63) Isosafrole	(3)	8.381	162	533843	126.0922
82) Biphenyl	(3)	8.411	154	1705567	127.1622
83) Diphenyl	(3)	8.411	154	1705567	127.1622
84) 1,1'-Biphenyl	(3)	8.411	154	1705567	127.1622
85) 2-Chloronaphthalene	(3)	8.428	162	1834700M	149.4141
86) 1-Chloronaphthalene	(3)	8.446	162	1147775M	119.0798
87) Diphenyl ether	(3)	8.512	170	899330	125.3681
88) 2-Nitroaniline	(3)	8.530	138	465455	126.5873
60) 1,4-Naphthoquinone	(3)	8.602	158	530274	123.1735
57) 1,4-Dinitrobenzene	(3)	8.668	168	248007	134.2900
92) Dimethylphthalate	(3)	8.728	163	1465061	122.0404
58) 1,3-Dinitrobenzene	(3)	8.746	168	279357	128.8506
98) 2,6-Dinitrotoluene	(3)	8.775	165	360655	124.8472
100) Acenaphthylene	(3)	8.829	152	1981110	126.0659
102) 3-Nitroaniline	(3)	8.937	138	389860	127.4179
103) Acenaphthene-d10	(3)	8.967	164	369828	40.0000
106) Acenaphthene	(3)	8.997	153	1313233	125.1995
107) 2,4-Dinitrophenol	(3)	9.039	184	208751	143.5879
110) Pentachlorobenzene	(3)	9.122	250	496514	123.3155
109) 4-Nitrophenol	(3)	9.104	109	255541	141.1426
112) Dibenzofuran	(3)	9.170	168	1890469	125.8206
113) 2,4-Dinitrotoluene	(3)	9.170	165	500528	131.3683
114) 1-Naphthylamine	(3)	9.248	143	1422597	123.9774
115) 2,3,4,6-Tetrachlorophenol	(3)	9.290	232	346632	126.9917
117) 2-Naphthylamine	(3)	9.332	143	1409462	121.4797
118) Diethylphthalate	(3)	9.422	149	1438468	122.8209
119) Fluorene	(3)	9.505	166	1646016	128.9202
29) Thionazin	(3)	9.499	107	289562	131.4695

M = Compound was manually integrated. A = User selected an alternate hit

USF83 8448

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	9.511	204	775430	128.8887
70)	5-Nitro-o-toluidine	(3)	9.529	152	460020	120.6416
121)	4-Nitroaniline	(3)	9.547	138	402871	118.0821
122)	4,6-Dinitro-2-methylphenol	(4)	9.571	198	273999	140.0802
67)	1-Nitronaphthalene	(4)	9.589	173	305107	123.5165
123)	N-Nitrosodiphenylamine	(4)	9.631	169	1311552	122.9507
124)	NDPA as diphenylamine	(4)	9.631	169	1312215	123.0722
125)	1,2-Diphenylhydrazine	(4)	9.667	77	2009569	123.9392
108)	Tetraethyldithiopyrophosphate	(4)	9.798	97	281945	127.8384
81)	1,3,5-Trinitrobenzene	(4)	9.906	213	185259	145.9387
78)	Diallate (peak 1)	(4)	9.918	86	719655	96.2827
75)	Phorate	(4)	9.924	75	1285612	129.6409
80)	Phenacetin	(4)	9.960	108	817790	123.4965
131)	4-Bromophenyl-phenylether	(4)	9.990	248	401590	124.7657
13)	Diallate (peak 2)	(4)	9.996	86	140925	31.4386
132)	Hexachlorobenzene	(4)	10.038	284	394753	122.8189
96)	Dimethoate	(4)	10.098	87	581385	115.2341
135)	Pentachlorophenol	(4)	10.229	266	281039	128.3348
136)	Pentachloronitrobenzene	(4)	10.247	237	167283	124.3783
105)	4-Aminobiphenyl	(4)	10.247	169	1303041	111.0242
97)	Pronamide	(4)	10.313	173	676834	127.0409
140)	Phenanthrene-d10	(4)	10.421	188	641399	40.0000
141)	Phenanthrene	(4)	10.444	178	2146064	122.7738
137)	Dinoseb	(4)	10.421	211	400184	146.5840
143)	Anthracene	(4)	10.498	178	2198818	123.9652
145)	Carbazole	(4)	10.654	167	2038401	122.7102
149)	Methyl parathion	(4)	10.797	109	455614	117.8433
148)	Di-n-butylphthalate	(4)	11.013	149	2498309	127.5352
150)	Parathion	(4)	11.186	109	340719	133.4973
133)	4-Nitroquinoline-1-oxide	(4)	11.204	190	207464	141.2499
99)	Isodrin	(4)	11.456	193	239317	125.9038
153)	Fluoranthene	(4)	11.605	202	2200849	124.6417
154)	Benzidine	(5)	11.755	184	3671915	388.8452
155)	Pyrene	(5)	11.826	202	2306940	119.3935
147)	p-Dimethylaminoazobenzene	(5)	12.126	225	475660	126.3341
144)	Chlorobenzilate	(5)	12.173	139	732299	124.5733
161)	3,3'-Dimethylbenzidine	(5)	12.460	212	1154668	139.2413
162)	Butylbenzylphthalate	(5)	12.478	149	1072564	124.6514
101)	2-Acetylaminofluorene	(5)	12.712	181	907823	129.0030
165)	3,3'-Dichlorobenzidine	(5)	12.999	252	768011	128.5490
164)	Benzo(a)anthracene	(5)	13.017	228	2071100	123.0258
167)	4,4'-Methylenebis(2-Chloroanil	(5)	13.005	231	398391	126.2532
166)	Chrysene-d12	(5)	13.029	240	611681	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0441

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

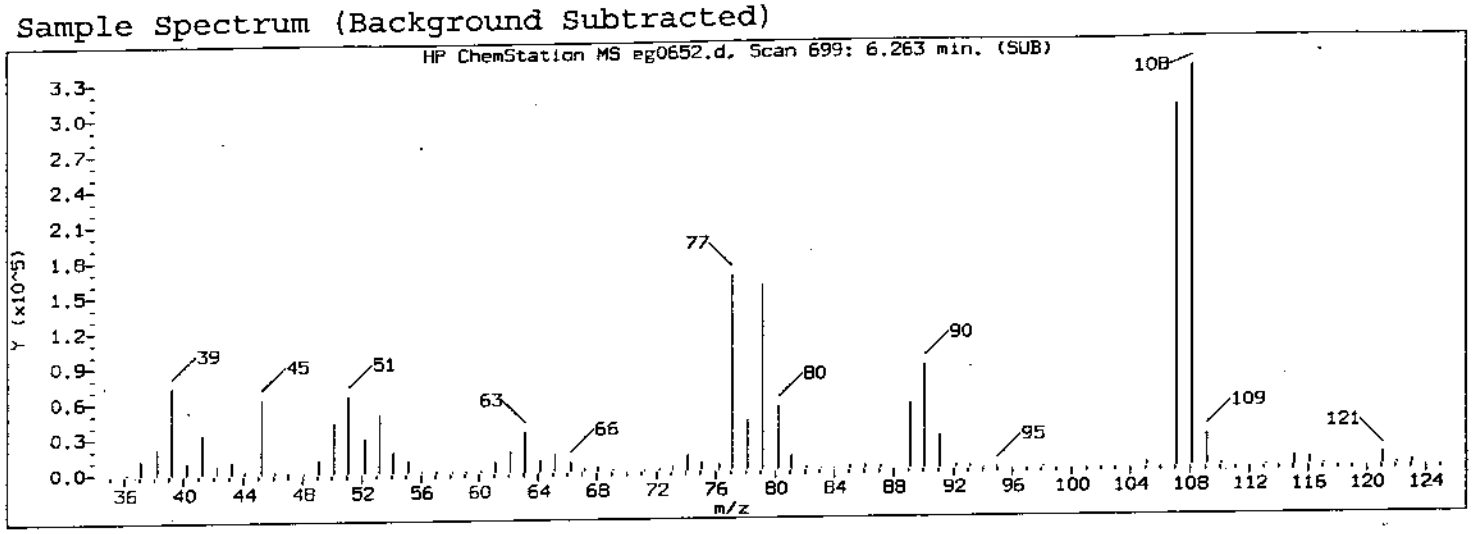
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

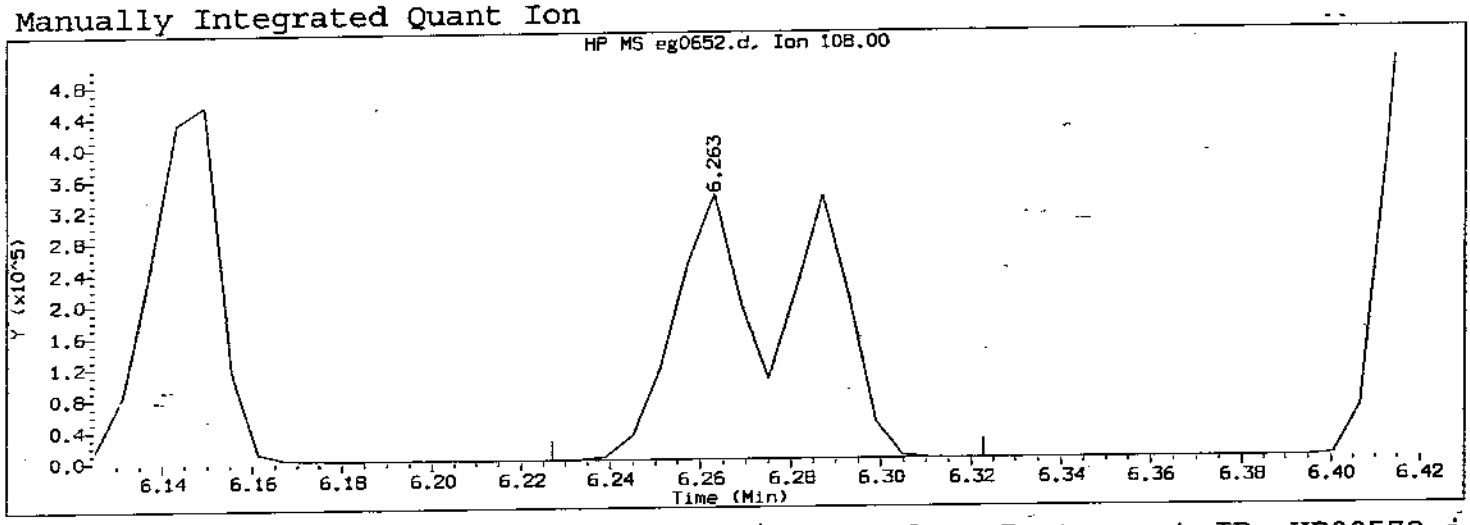
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168)	Chrysene	(5)	13.059	228	1984837	119.9963
169)	bis(2-Ethylhexyl)phthalate	(5)	13.077	149	1495929	128.7105
170)	6-Methylchrysene	(5)	13.513	242	1429713	123.6107
172)	Di-n-octylphthalate	(6)	13.735	149	2303607	140.5532
174)	7,12-Dimethylbenz[a]anthracene	(6)	14.100	256	975773	131.3725
173)	Benzo(b)fluoranthene	(6)	14.106	252	1835331	129.1695
175)	Benzo(k)fluoranthene	(6)	14.136	252	1980073	124.9982
176)	Benzo(a)pyrene	(6)	14.417	252	1721959	126.9279
177)	Perylene-d12	(6)	14.465	264	515408	40.0000
180)	3-Methylcholanthrene	(6)	14.764	268	930506	131.1063
181)	Dibenz(a,h)acridine	(6)	15.356	279	1187750	143.5339
183)	Dibenz(a,j)acridine	(6)	15.416	279	1546489	128.8700
185)	Indeno(1,2,3-cd)pyrene	(6)	15.637	276	1843931	131.5166
187)	Dibenz(a,h)anthracene	(6)	15.655	278	1564540	132.3461
188)	Benzo(g,h,i)perylene	(6)	15.966	276	1522961	129.4194
194)	Diallate TRANS/CIS	(4)	23.556	86	860580	127.7213
11)	2-Fluorophenol	(1)	4.660	112	611157	124.4082
19)	Phenol-d5	(1)	5.653	99	878911	125.3095
20)	Phenol-d6	(1)	5.653	99	878911	125.3095
42)	Nitrobenzene-d5	(2)	6.550	82	887423	125.0844
79)	2-Fluorobiphenyl	(3)	8.315	172	1472279	126.3439
126)	2,4,6-Tribromophenol	(3)	9.739	330	176086	127.7693
157)	Terphenyl-d14	(5)	11.988	244	1564710	122.5705

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number : 34
Compound Name : 2-Methylphenol
Scan Number : 699
Retention Time (minutes): 6.263
Quant Ion : 108
Area (flag) : 661176 M
Concentration (ng/ul) : 123.0624
Integration start scan : 692 Integration stop scan: 708
Y at integration start : 234 Y at integration end: 151

Reason for manual integration (circle one): missed peak improper integration

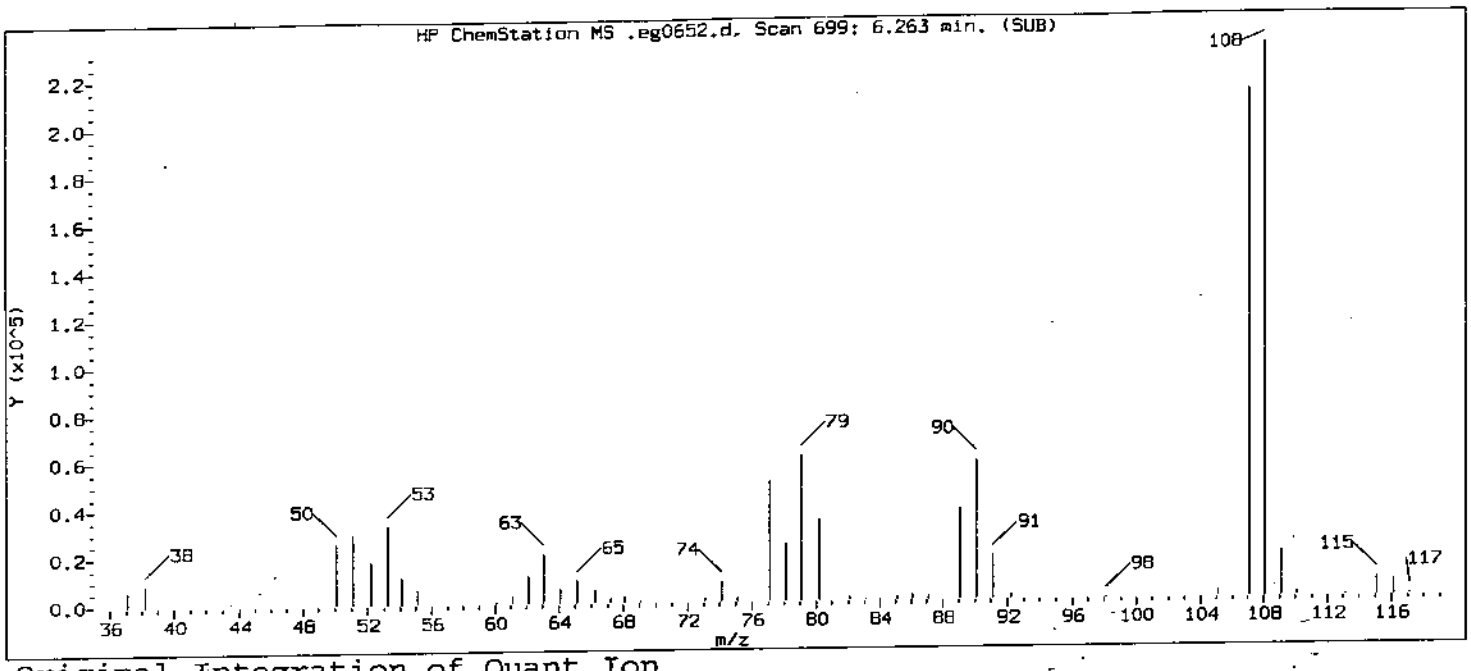
Analyst responsible for change: MAR 7/19/11

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

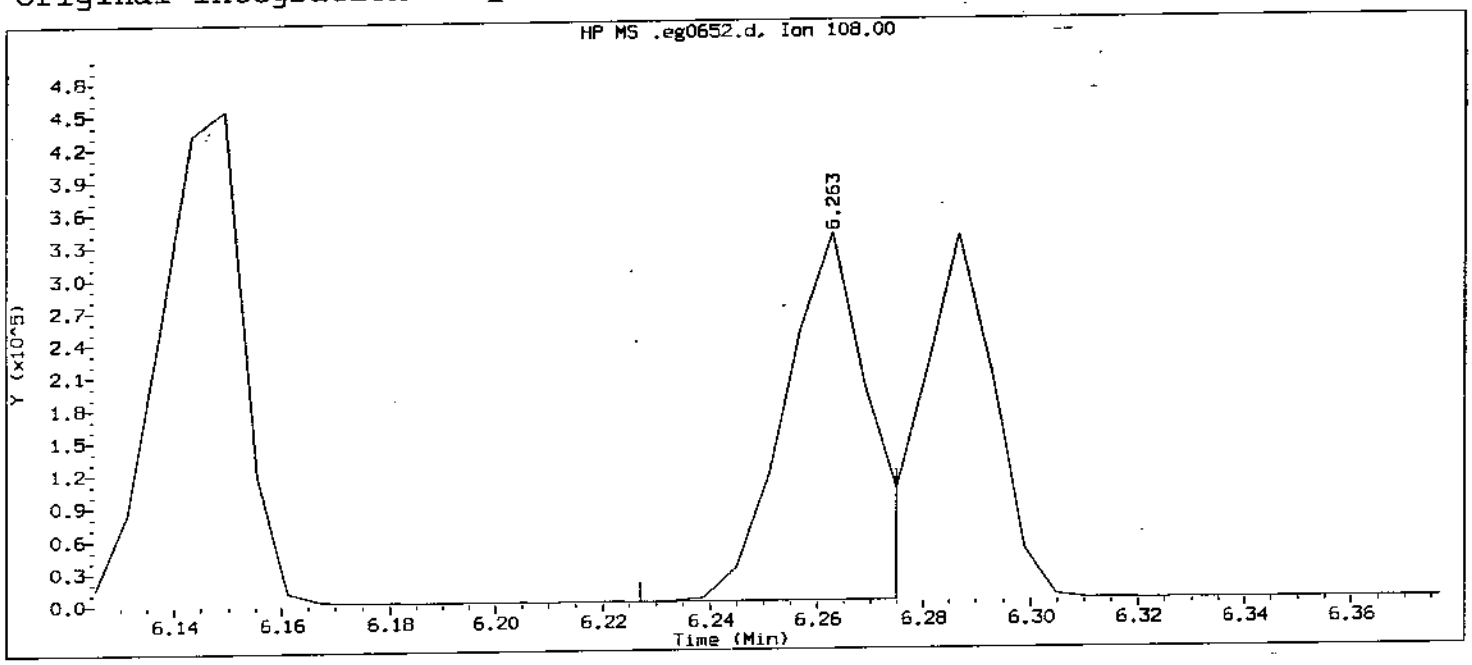
USF03 2443

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0652.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:00
Date, time and analyst ID of latest file update: 19-Jul-2011 07:00 jmg00346

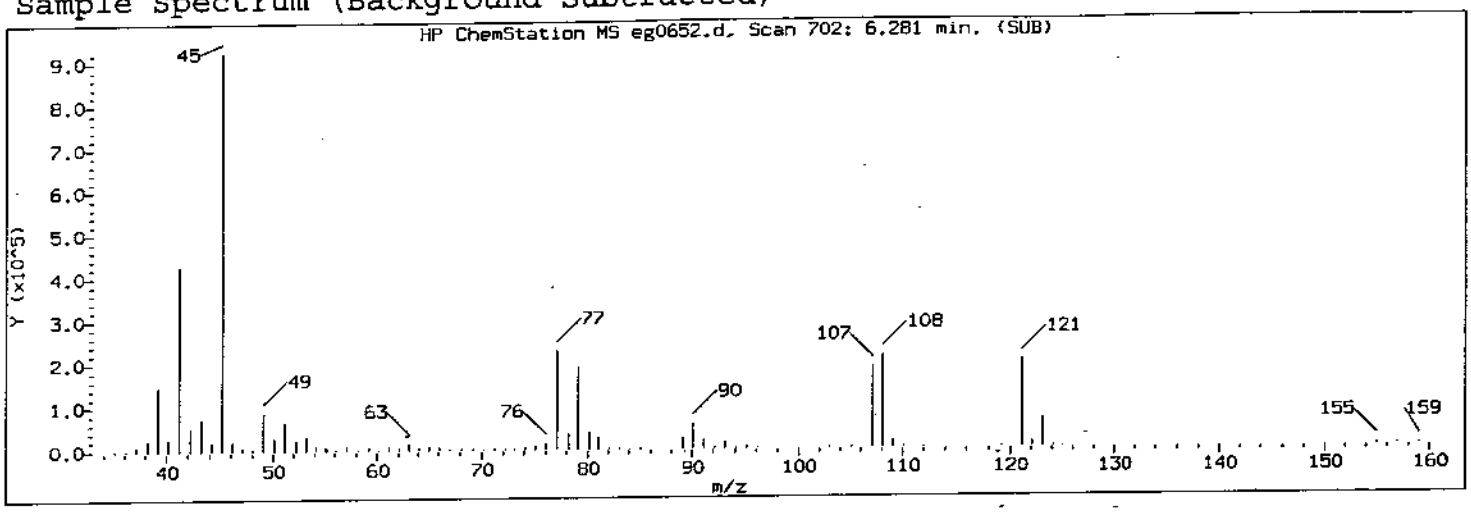
Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number : 34
Compound Name : 2-Methylphenol
Scan Number : 699
Retention Time (minutes): 6.263
Quant Ion : 108
Area : 353628
Concentration (ng/ul) : 76.9029
Integration start scan : 692 Integration stop scan: 700
Y at integration start : 0 Y at integration end: 0

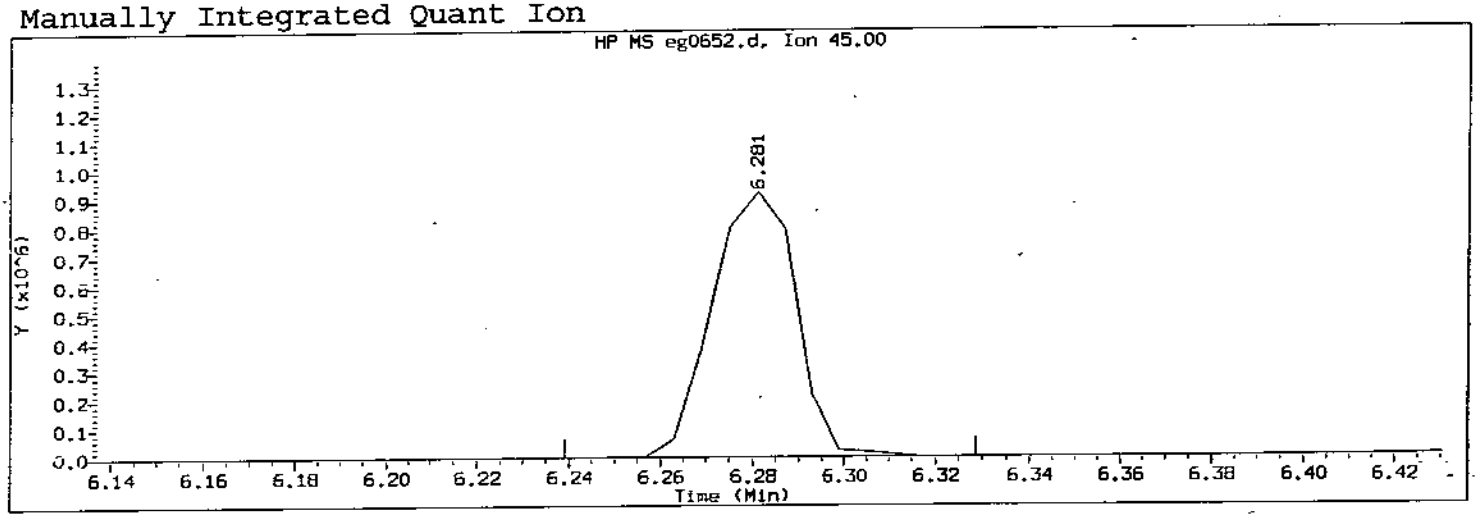
USF03 8444

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0652.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number	: 35
Compound Name	: 2,2'-oxybis(1-Chloropropane)
Scan Number	: 702
Retention Time (minutes)	: 6.281
Quant Ion	: 45
Area (flag)	: 1158470 M
Concentration (ng/ul)	: 118.6404
Integration start scan	: 694 Integration stop scan: 709
Y at integration start	: 487 Y at integration end: 210

Reason for manual integration (circle one): missed peak improper integration

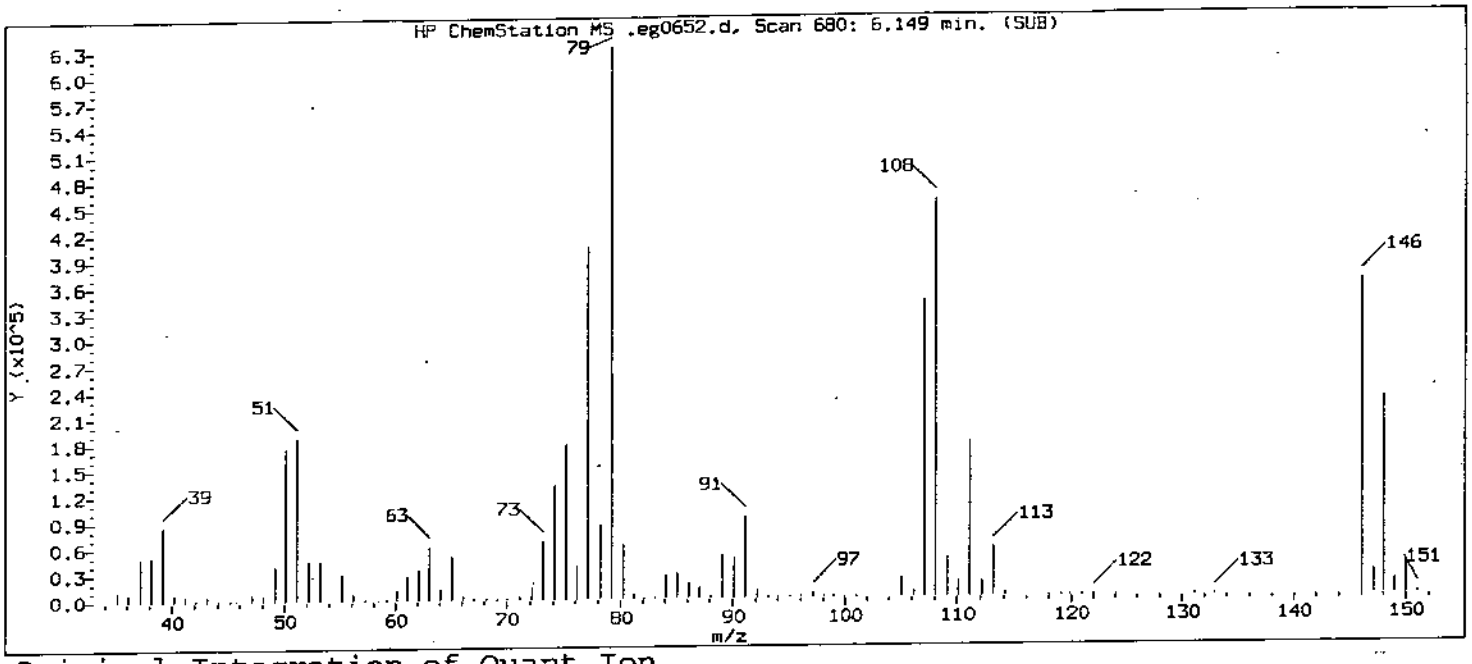
Analyst responsible for change: MGW 2011 7/19/11

Mark A. Ratcliff
Senior Specialist

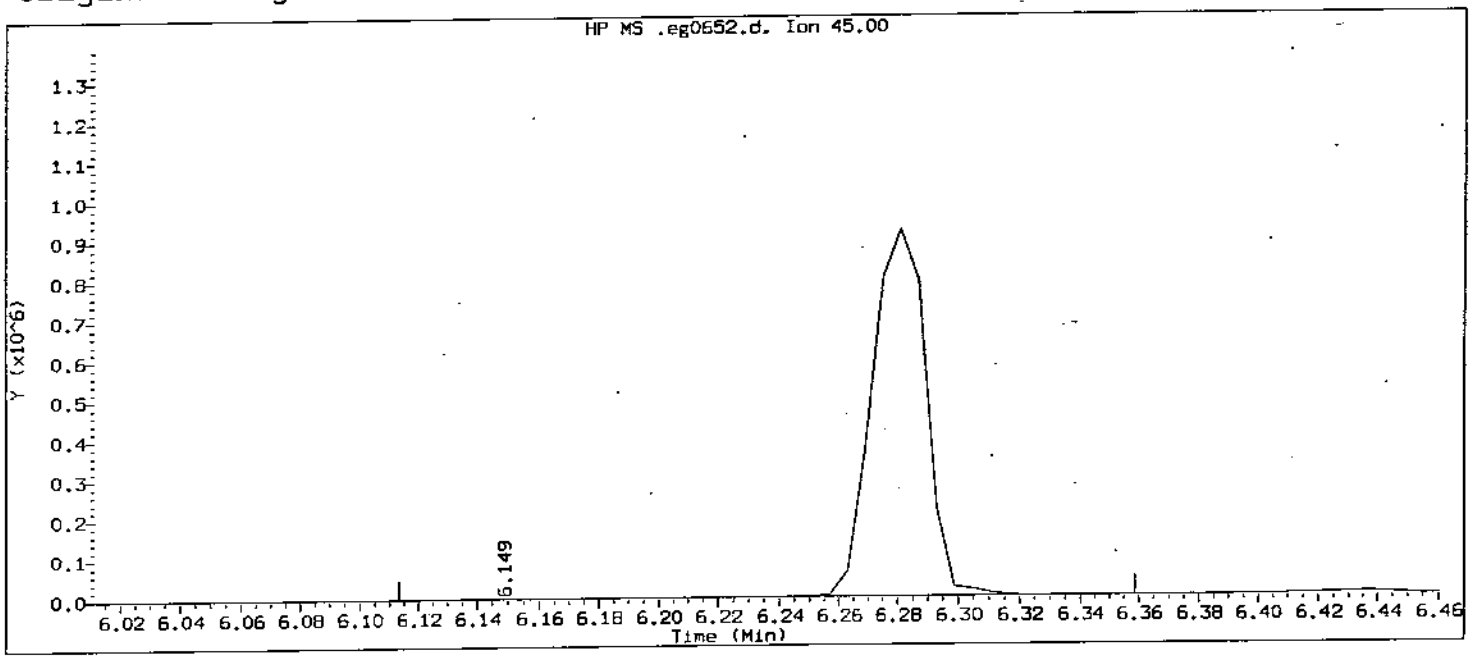
GC/MS audit/management approval: JUL 19 2011

USY83 8445

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

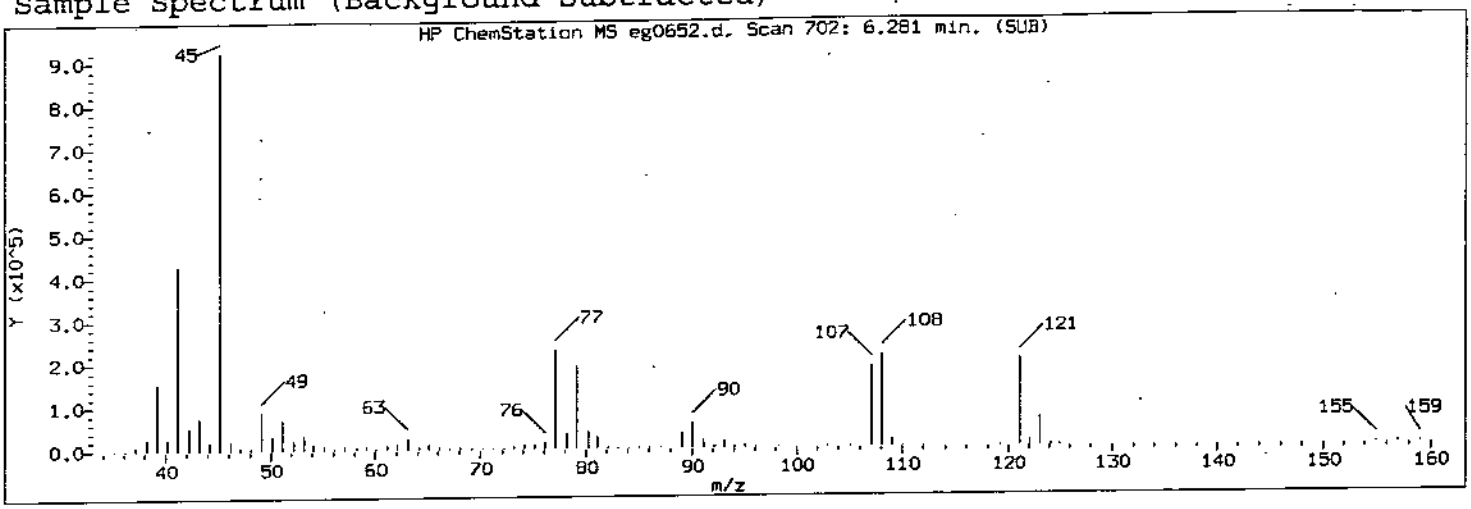
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:00
Date, time and analyst ID of latest file update: 19-Jul-2011 07:00 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

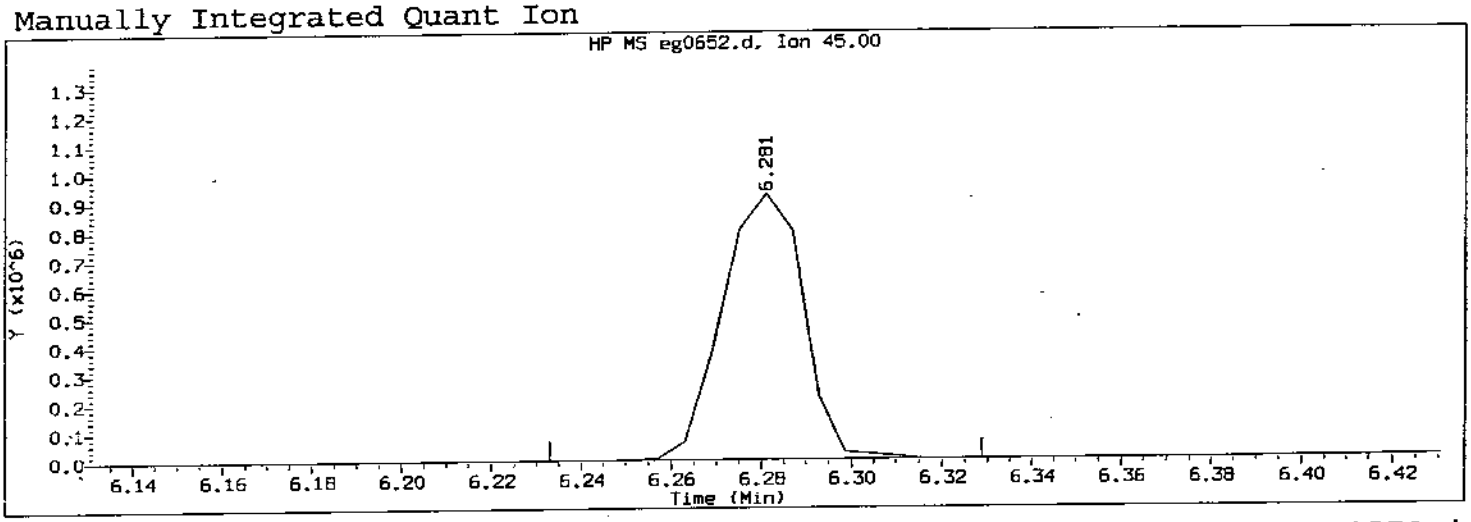
Compound Number : 35
Compound Name : 2,2'-oxybis(1-Chloropropane)
Scan Number : 680
Retention Time (minutes): 6.149
Quant Ion : 45
Area : 1162733
Concentration (ng/ul) : 178.0250
Integration start scan : 673 Integration stop scan: 714
Y at integration start : 0 Y at integration end: 0

USF03 8446

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number : 36
Compound Name : bis(2-Chloroisopropyl)ether
Scan Number : 702
Retention Time (minutes): 6.281
Quant Ion : 45
Area (flag) : 1159830 M
Concentration (ng/ul) : 118.7568
Integration start scan : 693 Integration stop scan: 709
Y at integration start : 0 Y at integration end: 210

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MGW 7/19/11

Mark A. Ratcliff
Senior Specialist

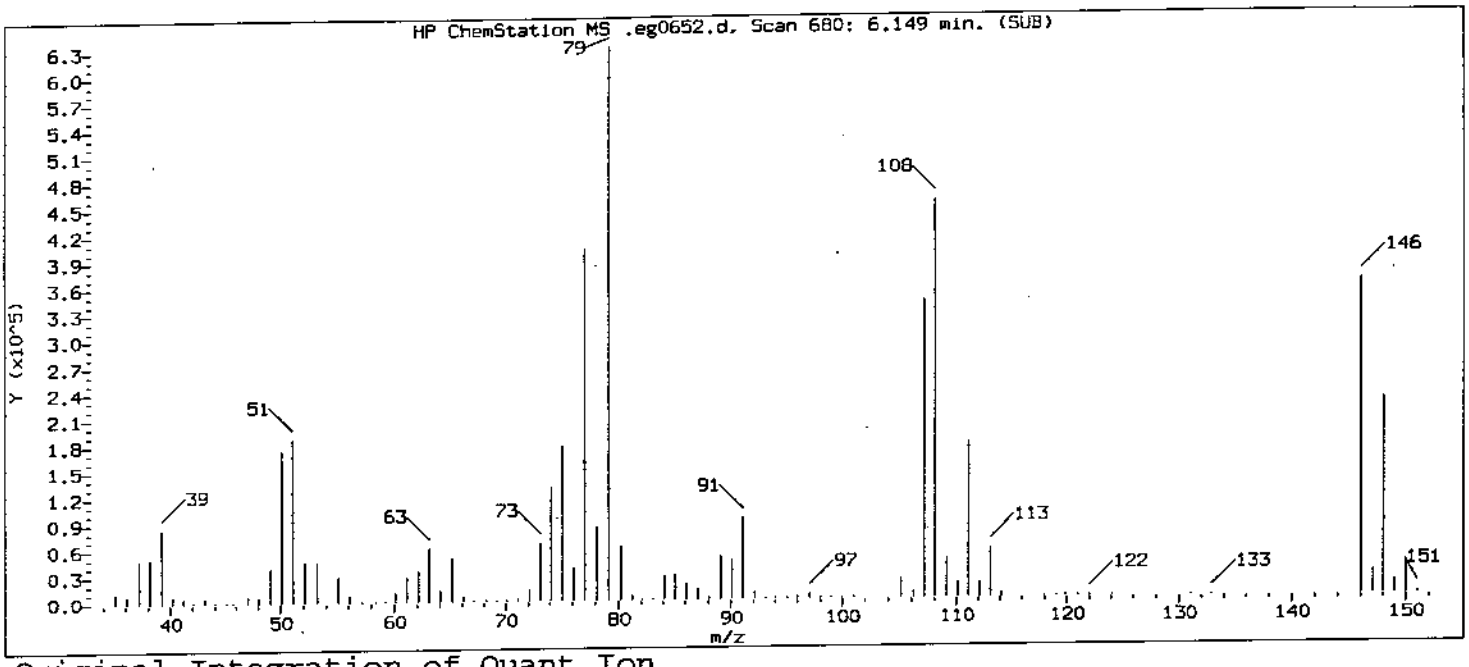
USF03_0447

GC/MS audit/management approval:

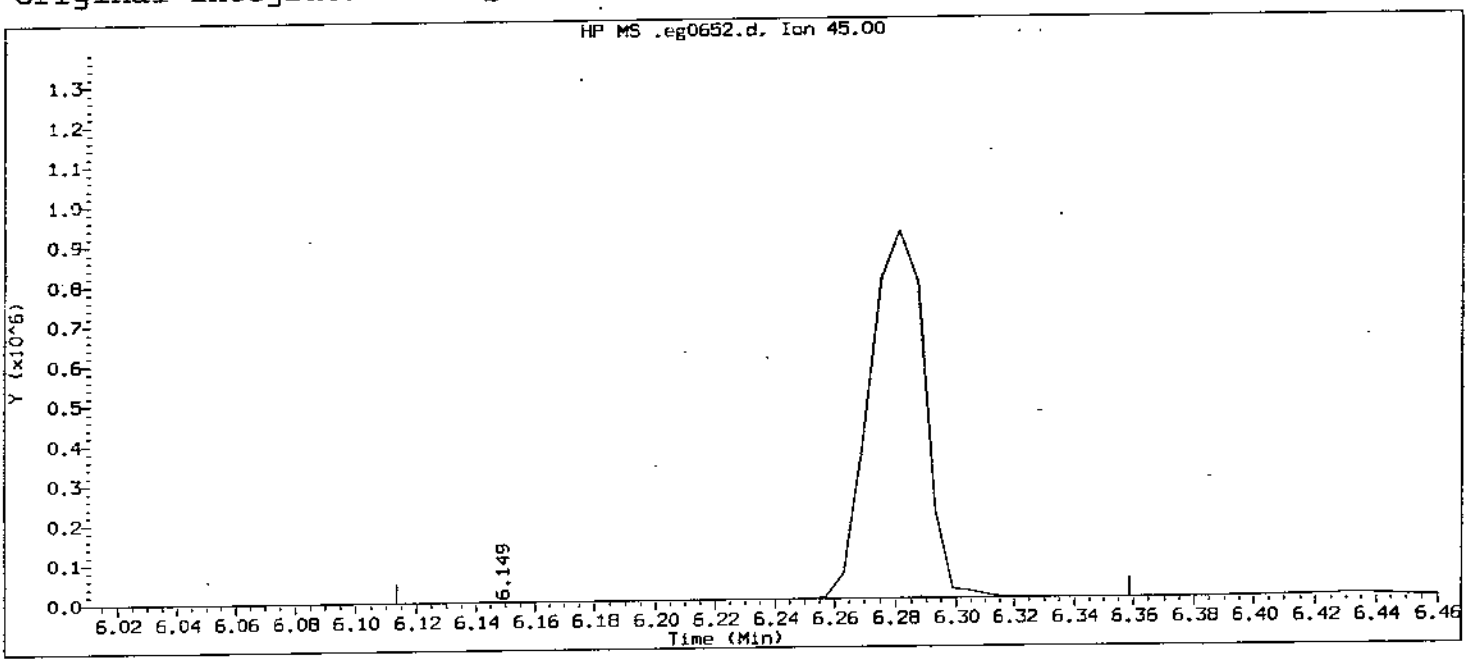
JUL 19 2011

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0652.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:00
Date, time and analyst ID of latest file update: 19-Jul-2011 07:00 jmg00346

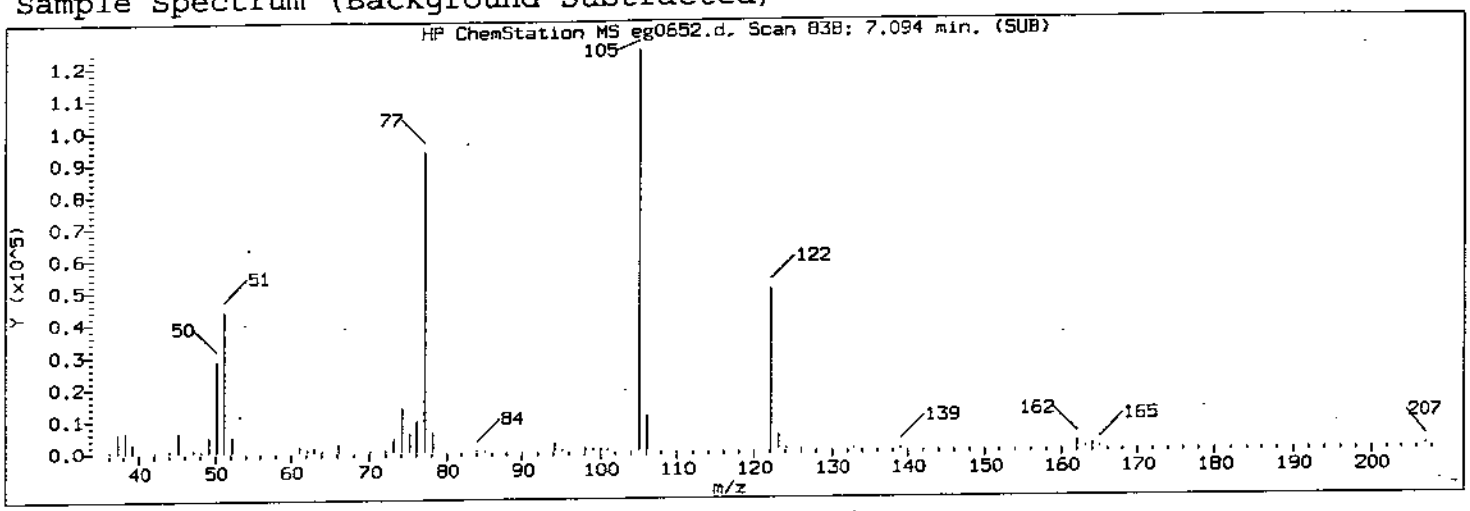
Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number	:	36
Compound Name	:	bis(2-Chloroisopropyl)ether
Scan Number	:	680
Retention Time (minutes)	:	6.149
Quant Ion	:	45
Area	:	1162733
Concentration (ng/ul)	:	178.0250
Integration start scan	:	673 Integration stop scan: 714
Y at integration start	:	0 Y at integration end: 0

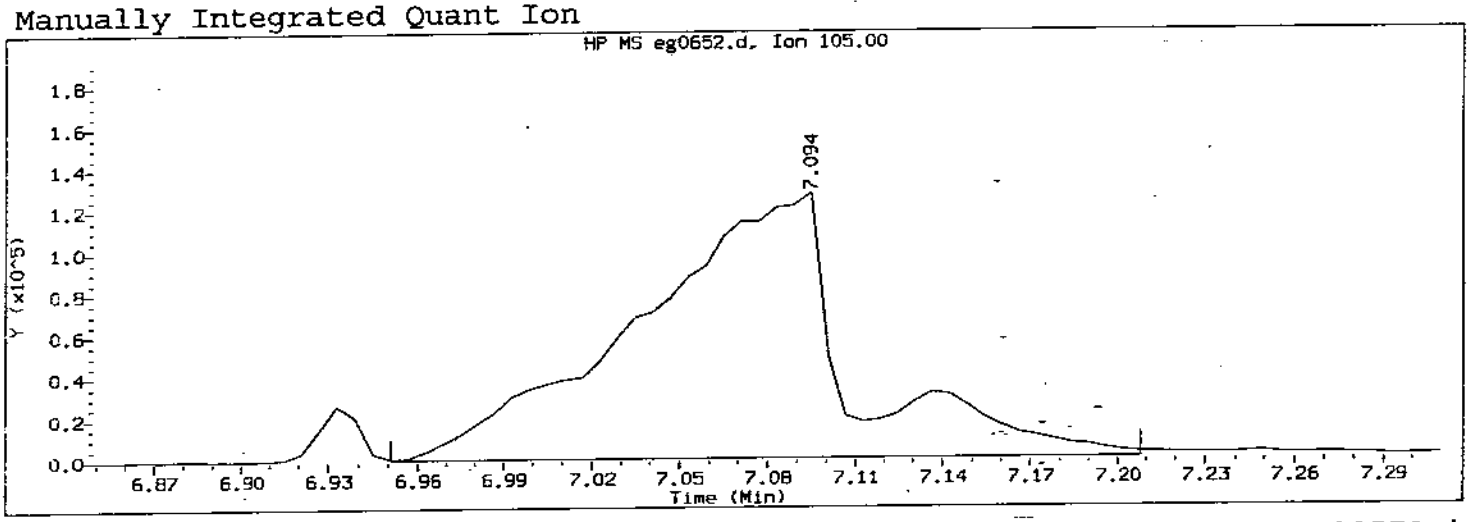
USF03 0448

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0652.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number : 50
Compound Name : Benzoic acid
Scan Number : 838
Retention Time (minutes): 7.094
Quant Ion : 105
Area (flag) : 636952 M
Concentration (ng/ul) : 127.4345
Integration start scan : 813 Integration stop scan: 856
Y at integration start : 337 Y at integration end: 337

Reason for manual integration (circle one): missed peak improper integration

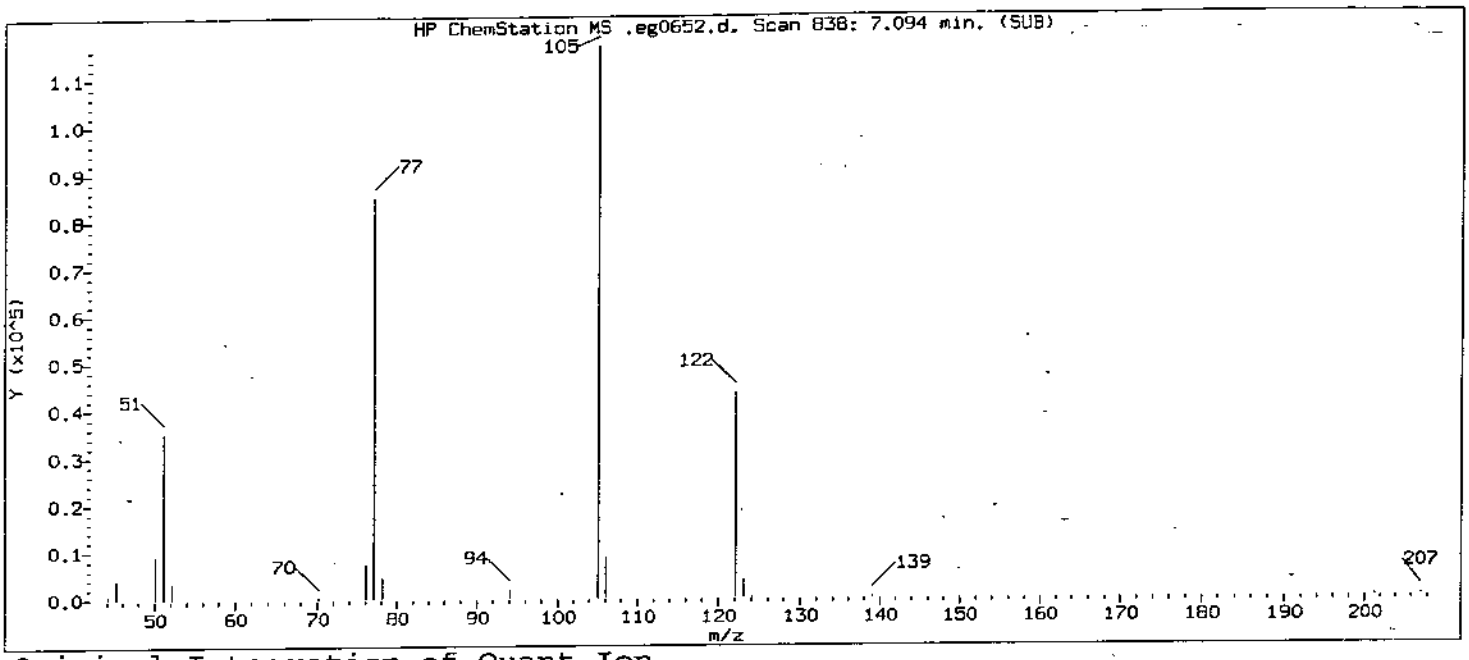
Analyst responsible for change: MCW 7/19/11

Mark A. Ratcliff
Senior Specialist

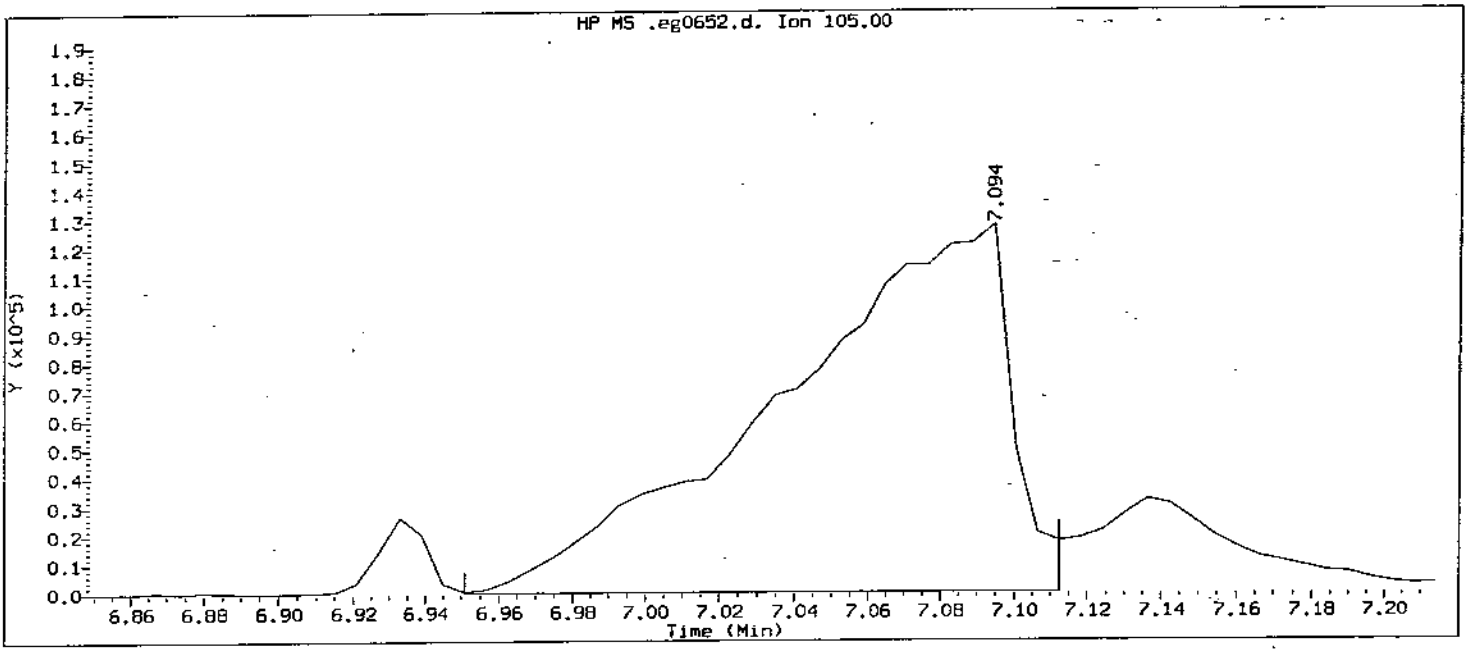
USF03 0449

GC/MS audit/management approval: JUL 19 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:00
Date, time and analyst ID of latest file update: 19-Jul-2011 07:00 jmg00346

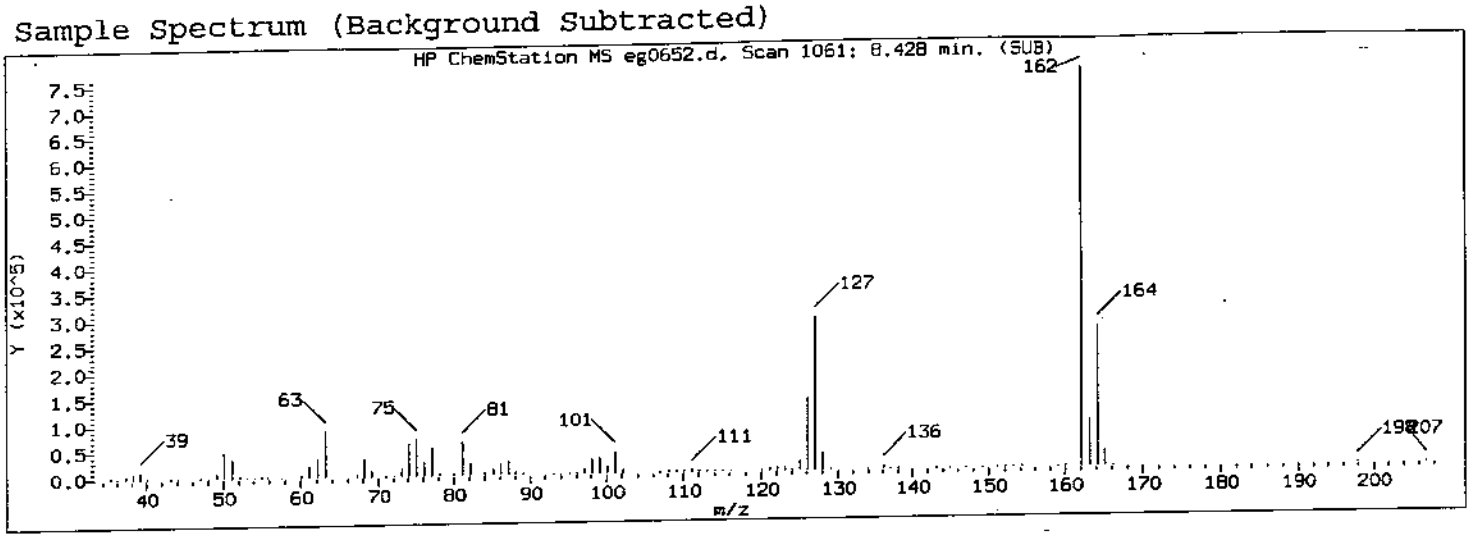
Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number : 50
Compound Name : Benzoic acid
Scan Number : 838
Retention Time (minutes): 7.094
Quant Ion : 105
Area : 550490
Concentration (ng/ul) : 222.3336
Integration start scan : 813 Integration stop scan: 840
Y at integration start : 0 Y at integration end: 0

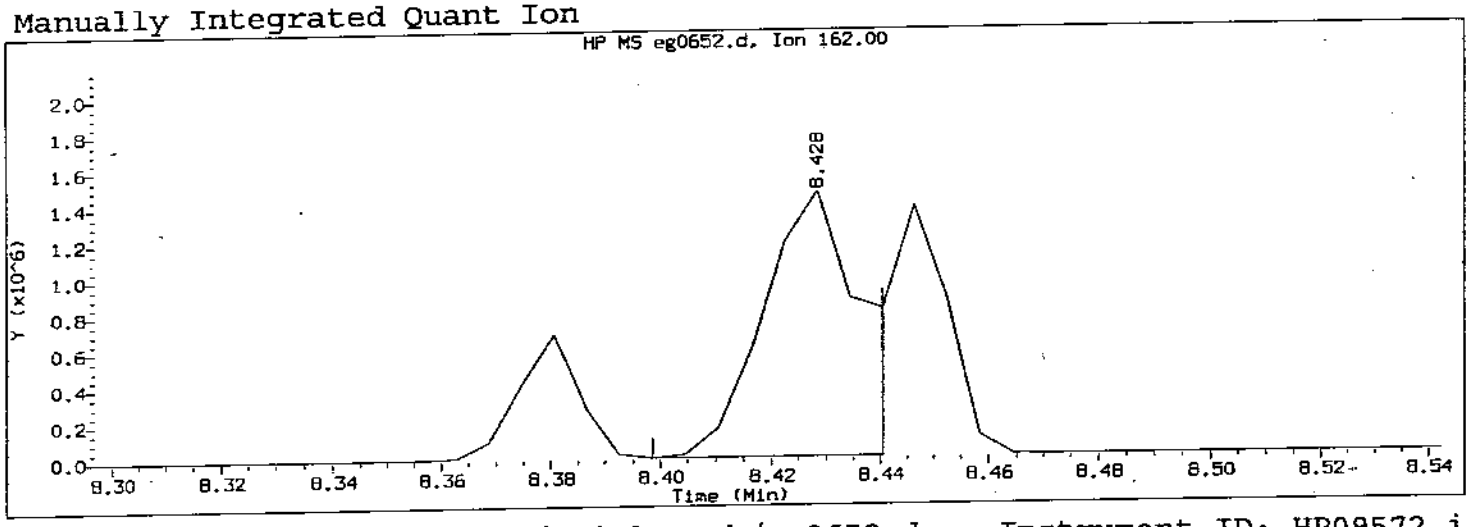
USF03 0456

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0652.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number	: 85	
Compound Name	: 2-Chloronaphthalene	
Scan Number	: 1061	
Retention Time (minutes)	: 8.428	
Quant Ion	: 162	
Area (flag)	: 1834700 M	
Concentration (ng/ul)	: 149.4141	
Integration start scan	: 1055	Integration stop scan: 1062
Y at integration start	: 1675	Y at integration end: 984

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MSW JOR 7/19/11

Mark A. Ratcliff
Senior Specialist

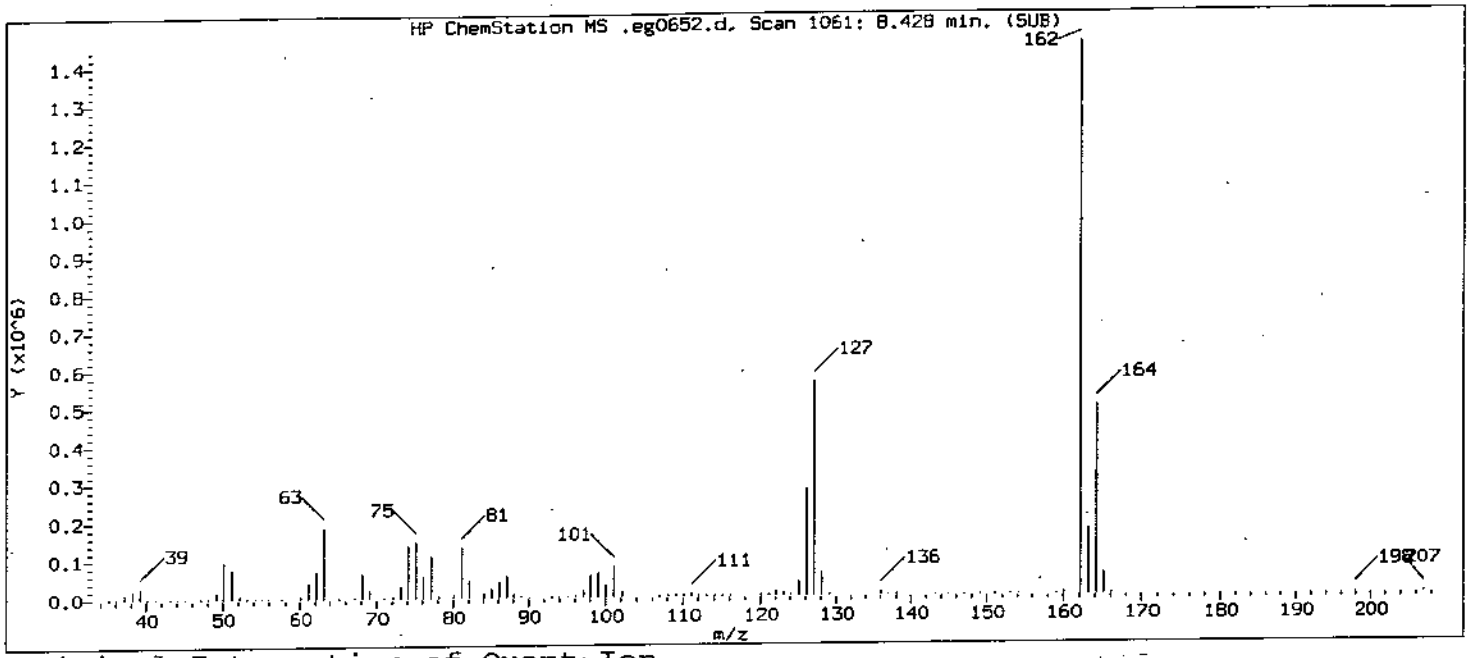
USPCI 8451

GC/MS audit/management approval: _____

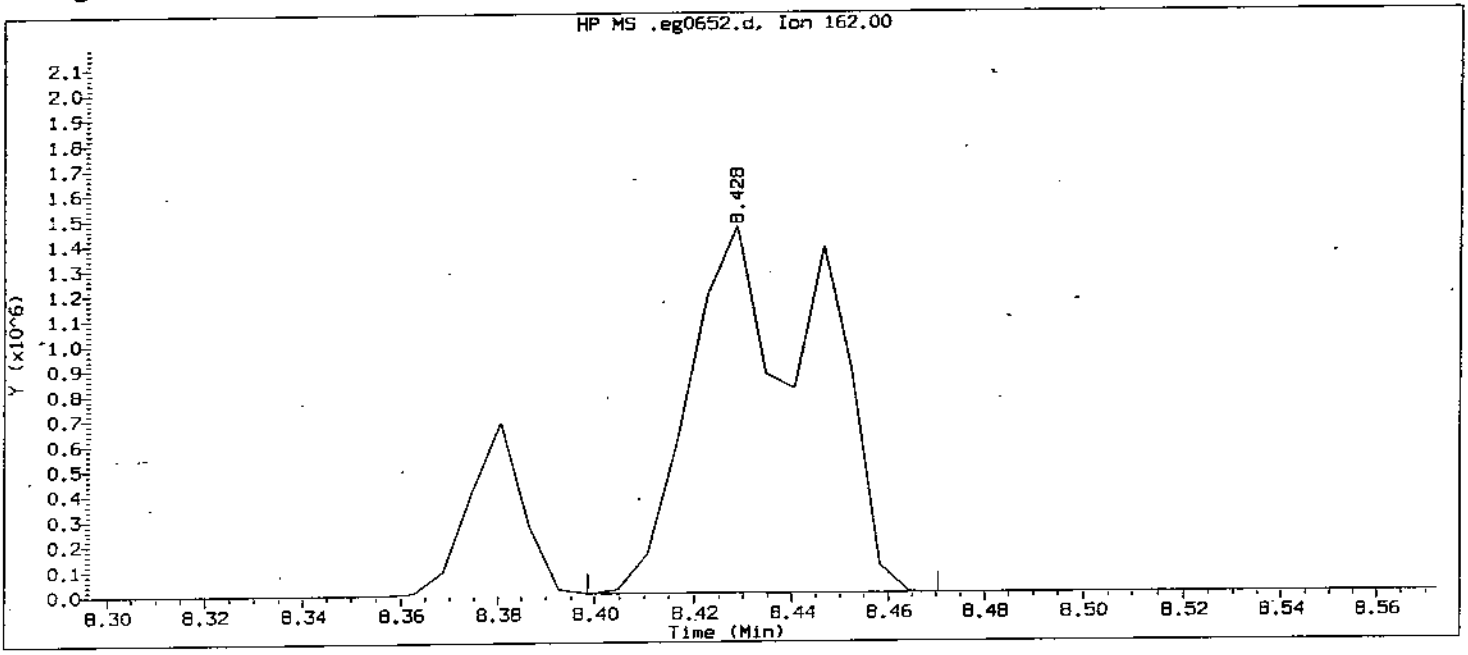
JUL 19 2011

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0652.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:00
Date, time and analyst ID of latest file update: 19-Jul-2011 07:00 jmg00346

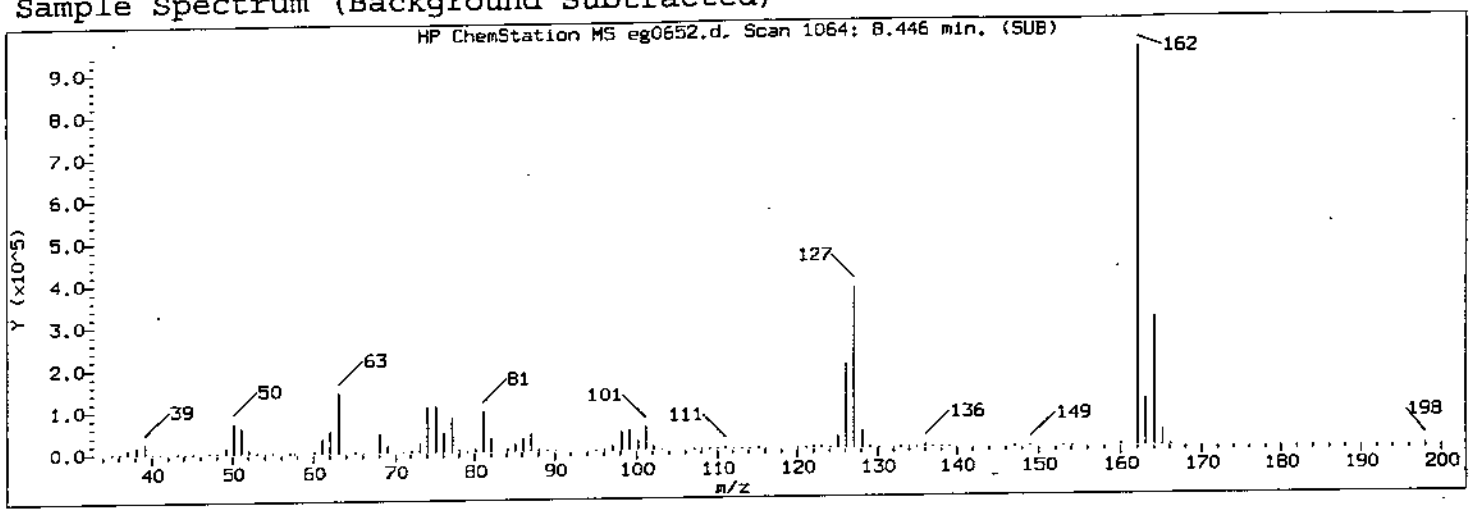
Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number	: 85	
Compound Name	: 2-Chloronaphthalene	
Scan Number	: 1061	
Retention Time (minutes)	: 8.428	
Quant Ion	: 162	
Area	: 2684466	
Concentration (ng/ul)	: 167.3332	
Integration start scan	: 1055	Integration stop scan: 1067
Y at integration start	: 1675	Y at integration end: 490

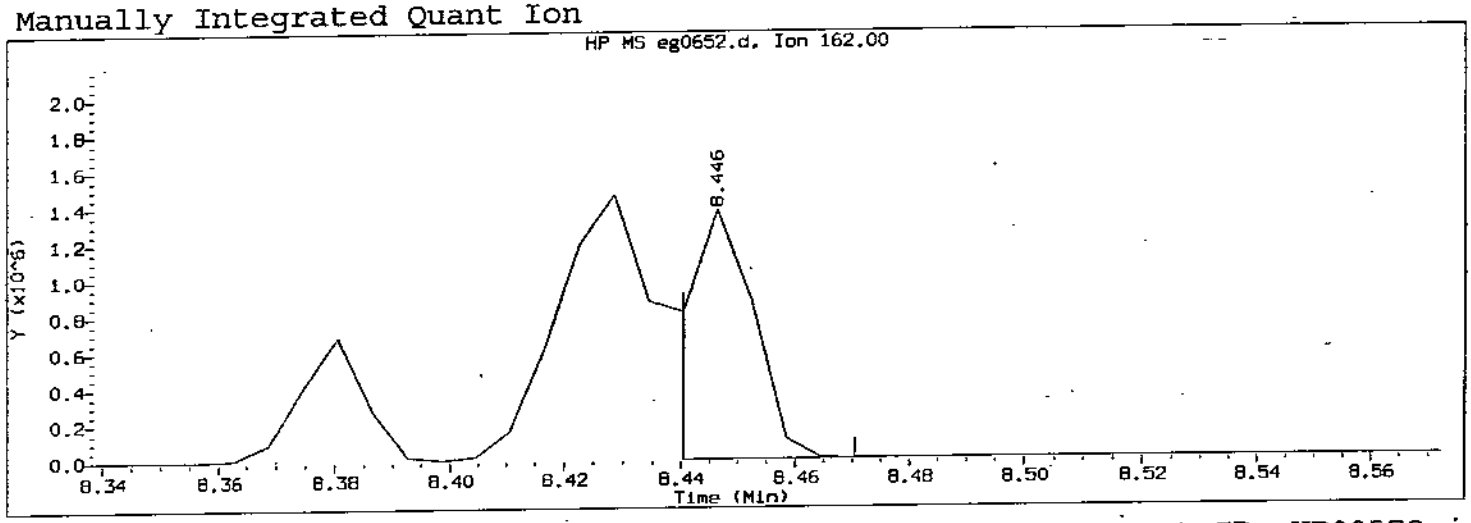
USF03 0452

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0652.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1064
Retention Time (minutes)	:	8.446
Quant Ion	:	162
Area (flag)	:	1147775 M
Concentration (ng/ul)	:	119.0798
Integration start scan	:	1062 Integration stop scan: 1067
Y at integration start	:	-2206 Y at integration end: -2206

Reason for manual integration (circle one): missed peak improper integration

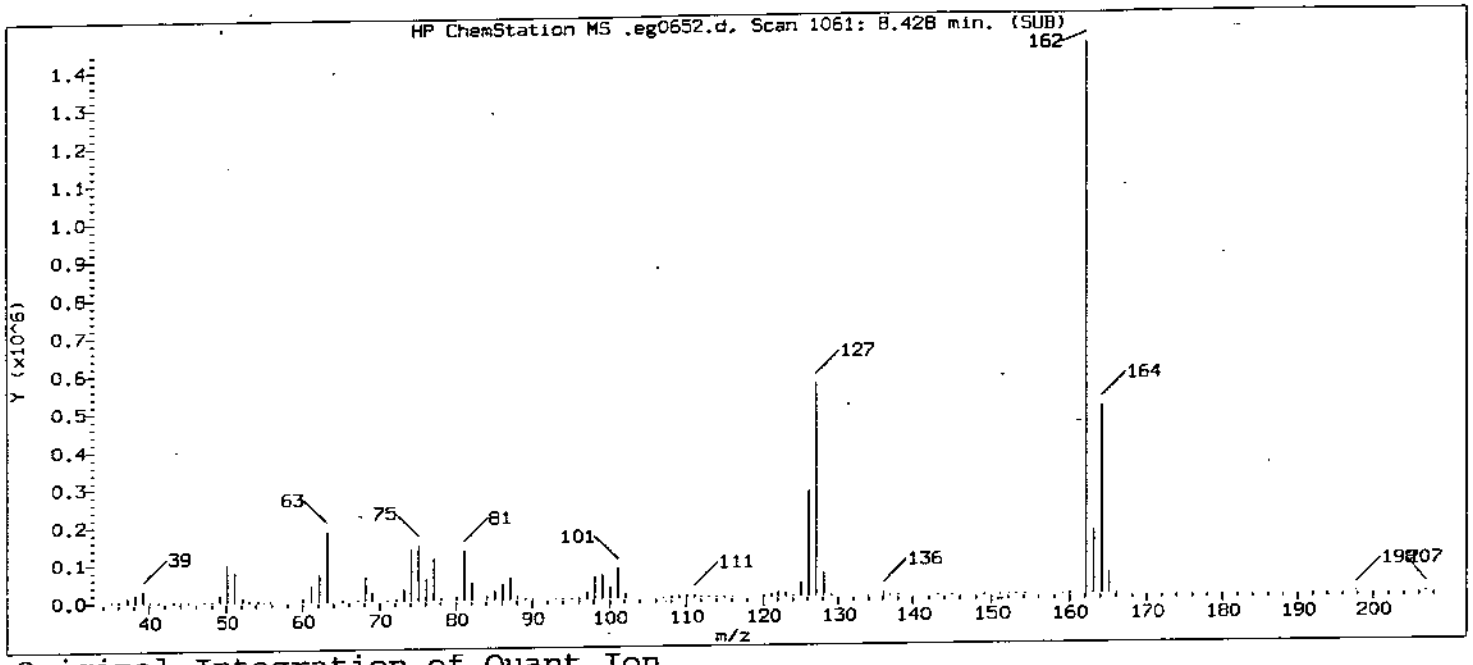
Analyst responsible for change: MAW 2109 7/19/11

USF03 0453

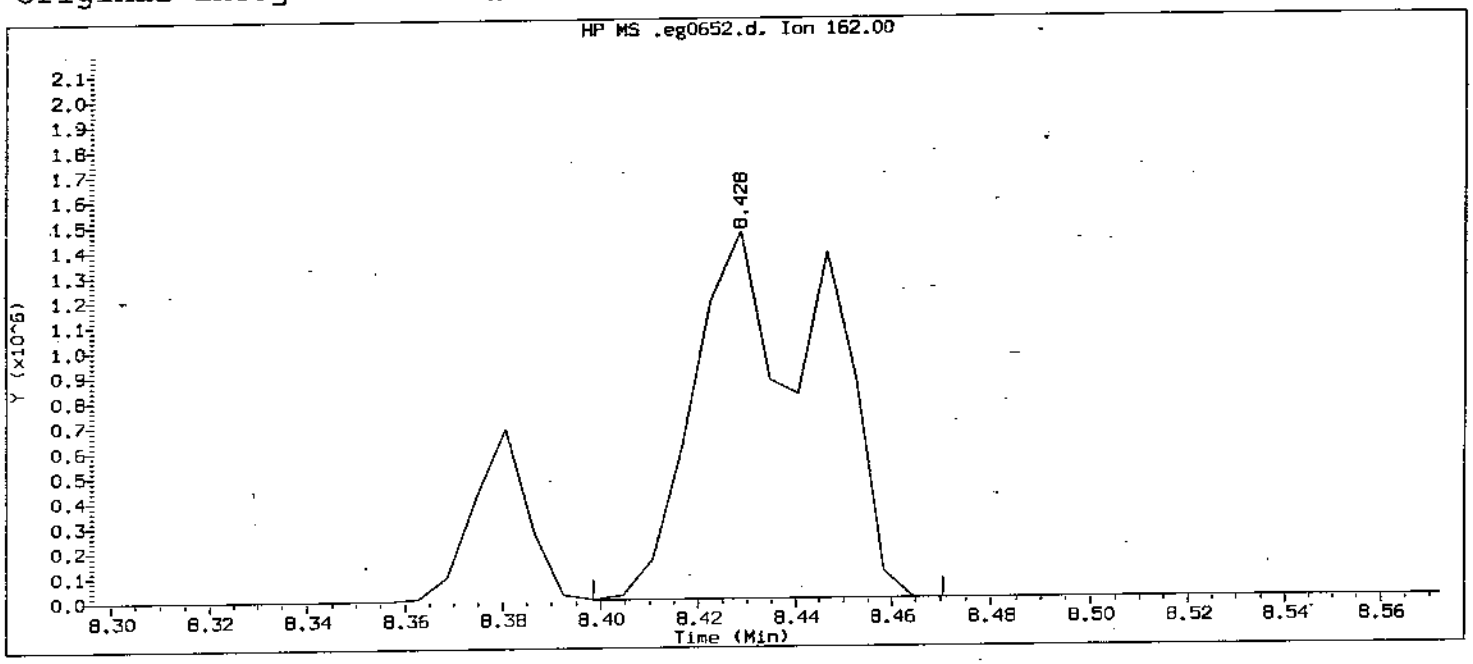
GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist

JUL 19 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



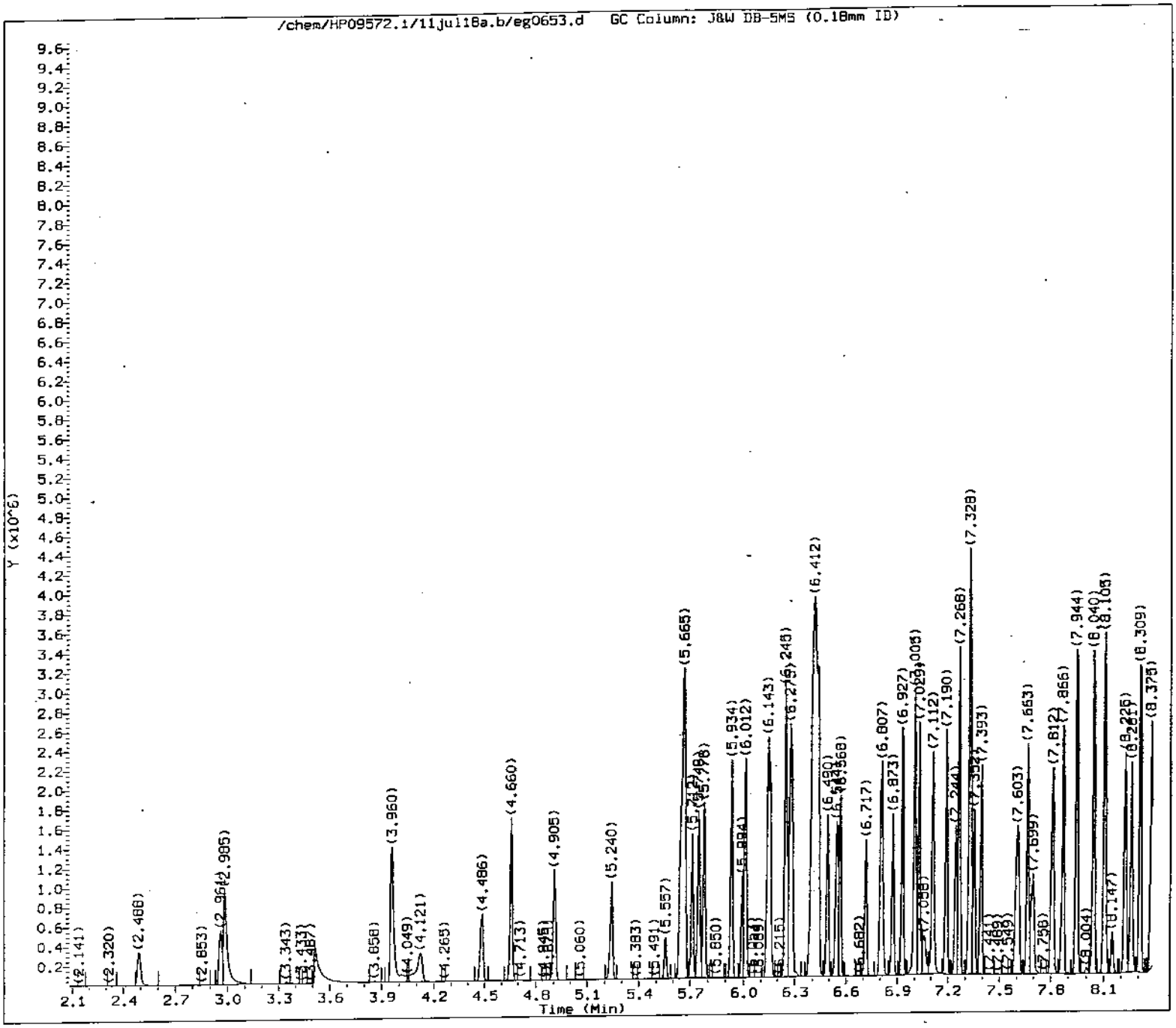
Data File: /chem/HP09572.i/11jul18a.b/eg0652.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:16 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:00
Date, time and analyst ID of latest file update: 19-Jul-2011 07:00 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1991

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1061
Retention Time (minutes)	:	8.428
Quant Ion	:	162
Area	:	2686741
Concentration (ng/ul)	:	188.9131
Integration start scan	:	1055 Integration stop scan: 1067
Y at integration start	:	660 Y at integration end: 490

03783 2454



Quant Report

Target Revision 3.5

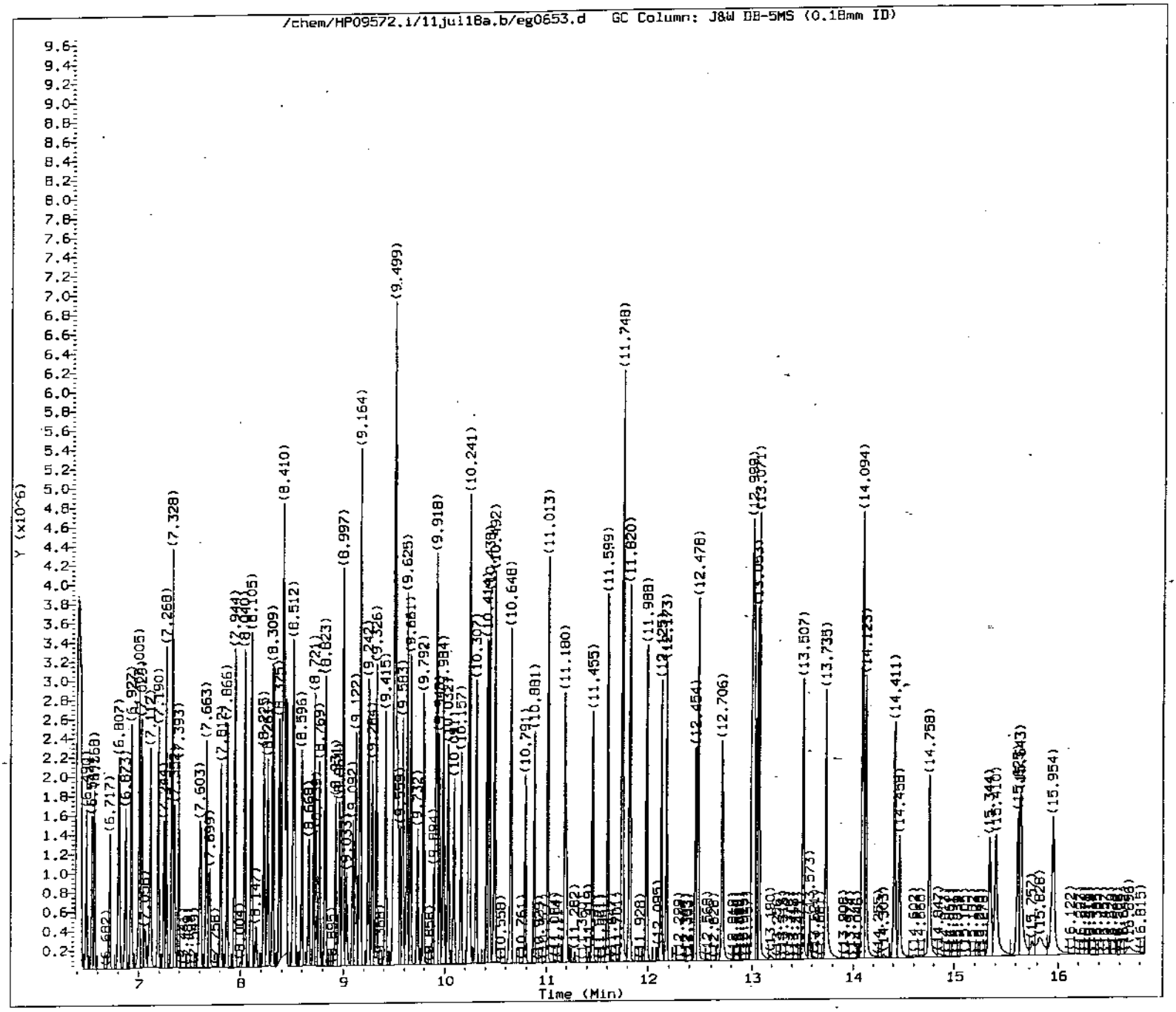
Data File: /chem/HP09572.i/11jul18a.b/eg0653.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:41 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1991

USEPA 04455

MS-009 7/19/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0653.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:41 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1991

USTB3 8456

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0653.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:41 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.488	88	156493	82.2299
3) N-Nitrosodimethylamine	(1)	2.961	74	293812	87.1013
4) Pyridine	(1)	2.985	79	490898	86.9625
6) 2-Picoline	(1)	3.960	93	477248	83.0612
2) N-Nitrosomethylethylamine	(1)	4.121	88	224119	83.5645
8) Methyl methanesulfonate	(1)	4.486	80	266454	82.9178
9) N-Nitrosodiethylamine	(1)	4.905	102	218875	84.8897
15) Ethyl methanesulfonate	(1)	5.240	109	215151	82.8715
22) Phenol	(1)	5.659	94	670067	85.1562
21) Aniline	(1)	5.671	93	756543	84.1811
33) Pentachloroethane	(1)	5.712	167	136507	83.9818
23) bis(2-Chloroethyl)ether	(1)	5.748	93	476981	83.2457
24) 2-Chlorophenol	(1)	5.778	128	411837	85.1288
26) 1,3-Dichlorobenzene	(1)	5.934	146	412452	83.7025
27) 1,4-Dichlorobenzene-d4	(1)	5.994	152	124191	40.0000
28) 1,4-Dichlorobenzene	(1)	6.012	146	424650	83.3974
31) Benzyl alcohol	(1)	6.143	108	300582	84.7228
32) 1,2-Dichlorobenzene	(1)	6.155	146	406423	84.2669
17) Indene	(1)	6.245	115	695342	85.8215
34) 2-Methylphenol	(1)	6.257	108	414406	84.1545
35) 2,2'-oxybis(1-Chloropropane)	(1)	6.281	45	732648	81.8627
36) bis(2-Chloroisopropyl)ether	(1)	6.281	45	732648	81.8469
30) N-Nitrosopyrrolidine	(1)	6.394	100	249308	83.6076
37) Acetophenone	(1)	6.400	105	645695	83.3368
38) N-Nitroso-di-n-propylamine	(1)	6.418	70	452357	84.9198
39) 4-Methylphenol	(1)	6.412	108	513742	89.7257
7) N-Nitrosomorpholine	(1)	6.430	56	349479	82.4612
40) o-Toluidine	(1)	6.436	106	737320	84.6175
41) Hexachloroethane	(1)	6.490	117	171085	84.6625
43) Nitrobenzene	(2)	6.568	77	585440	82.7704
18) N-Nitrosopiperidine	(2)	6.717	114	225082	80.9672
46) Isophorone	(2)	6.807	82	1039831	82.5752
47) 2-Nitrophenol	(2)	6.873	139	240249	85.6702
48) 2,4-Dimethylphenol	(2)	6.927	107	474555	83.1904
93) O,O,O-triethylphosphorothioate	(2)	7.005	198	215145	81.9993
49) bis(2-Chloroethoxy)methane	(2)	7.029	93	617594	85.4183
50) Benzoic acid	(2)	7.058	105	399510M	84.5968
51) 2,4-Dichlorophenol	(2)	7.112	162	350580	83.2931
52) 1,2,4-Trichlorobenzene	(2)	7.190	180	383087	83.3219
53) Naphthalene-d8	(2)	7.244	136	578947	40.0000
54) Naphthalene	(2)	7.268	128	1269767	82.7887
56) 4-Chloroaniline	(2)	7.328	127	555658	83.2780
55) 2,6-Dichlorophenol	(2)	7.334	162	353377	83.8539

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0653.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:41 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44) Hexachloropropene	(2)	7.352	213	215998	85.2603
59) Hexachlorobutadiene	(2)	7.393	225	185651	83.7759
65) Quinoline	(2)	7.603	129	812053	80.4046
66) Caprolactam	(2)	7.699	113	168899	80.8007
5) N-Nitrosodi-n-butylamine	(2)	7.663	84	395986	73.1010
68) 4-Chloro-3-methylphenol	(2)	7.812	107	424743	82.9543
61) Safrole	(2)	7.872	162	343532	83.9395
64) cis-Isosafrole	(3)	8.153	162	58924	9.6392
69) 2-Methylnaphthalene	(2)	7.950	142	876305	82.9605
71) 1-Methylnaphthalene	(2)	8.040	142	824997	83.0563
72) Hexachlorocyclopentadiene	(3)	8.099	237	211889	93.0928
73) 1,2,4,5-Tetrachlorobenzene	(3)	8.111	216	374881	85.9969
62) trans-Isosafrole	(3)	8.375	162	345212	75.8738
76) 2,4,6-Trichlorophenol	(3)	8.225	196	254509	84.4566
77) 2,4,5-Trichlorophenol	(3)	8.261	196	282593	83.7540
63) Isosafrole	(3)	8.375	162	345212	85.2515
82) Biphenyl	(3)	8.410	154	1081678	84.3196
83) Diphenyl	(3)	8.410	154	1081678	84.3196
84) 1,1'-Biphenyl	(3)	8.410	154	1081678	84.3196
85) 2-Chloronaphthalene	(3)	8.422	162	974016	82.9343
86) 1-Chloronaphthalene	(3)	8.446	162	725994	78.7510
87) Diphenyl ether	(3)	8.512	170	579321	84.4362
88) 2-Nitroaniline	(3)	8.530	138	297272	84.5294
60) 1,4-Naphthoquinone	(3)	8.596	158	354272	86.0389
57) 1,4-Dinitrobenzene	(3)	8.668	168	158475	89.7185
92) Dimethylphthalate	(3)	8.721	163	942460	82.0828
58) 1,3-Dinitrobenzene	(3)	8.739	168	176938	85.3276
98) 2,6-Dinitrotoluene	(3)	8.769	165	233308	84.4419
100) Acenaphthylene	(3)	8.829	152	1262192	83.9762
102) 3-Nitroaniline	(3)	8.931	138	247637	84.6211
103) Acenaphthene-d10	(3)	8.961	164	353719	40.0000
106) Acenaphthene	(3)	8.997	153	837715	83.5023
107) 2,4-Dinitrophenol	(3)	9.033	184	127034	91.3589
110) Pentachlorobenzene	(3)	9.122	250	317643	82.4835
109) 4-Nitrophenol	(3)	9.092	109	140571	81.1773
112) Dibenzofuran	(3)	9.164	168	1193089	83.0226
113) 2,4-Dinitrotoluene	(3)	9.164	165	309984	85.0634
114) 1-Naphthylamine	(3)	9.242	143	910803	82.9901
115) 2,3,4,6-Tetrachlorophenol	(3)	9.284	232	220839	84.5910
117) 2-Naphthylamine	(3)	9.326	143	917474	82.6771
118) Diethylphthalate	(3)	9.415	149	922388	82.3431
119) Fluorene	(3)	9.499	166	1029218	84.2821
29) Thionazin	(3)	9.493	107	175347	83.2383

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0653.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:41 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	9.511	204	486356	84.5217
70)	5-Nitro-o-toluidine	(3)	9.523	152	297812	81.6590
121)	4-Nitroaniline	(3)	9.535	138	261562	80.1556
122)	4,6-Dinitro-2-methylphenol	(4)	9.559	198	170575	92.3976
67)	1-Nitronaphthalene	(4)	9.583	173	193092	82.8237
123)	N-Nitrosodiphenylamine	(4)	9.625	169	844142	83.8453
124)	NDPA as diphenylamine	(4)	9.625	169	842948	83.7671
125)	1,2-Diphenylhydrazine	(4)	9.661	77	1282742	83.8229
108)	Tetraethyldithiopyrophosphate	(4)	9.792	97	177265	85.1604
81)	1,3,5-Trinitrobenzene	(4)	9.894	213	113313	94.5776
78)	Diallate (peak 1)	(4)	9.912	86	454233	64.3902
75)	Phorate	(4)	9.924	75	797571	85.2156
80)	Phenacetin	(4)	9.948	108	521245	83.4012
131)	4-Bromophenyl-phenylether	(4)	9.984	248	251404	82.7565
13)	Diallate (peak 2)	(4)	9.996	86	88532	20.9263
132)	Hexachlorobenzene	(4)	10.032	284	250402	82.5458
96)	Dimethoate	(4)	10.091	87	389468	81.7912
135)	Pentachlorophenol	(4)	10.229	266	173473	83.9319
136)	Pentachloronitrobenzene	(4)	10.241	237	104788	82.5509
105)	4-Aminobiphenyl	(4)	10.241	169	881132	79.5460
97)	Pronamide	(4)	10.307	173	428227	85.1634
140)	Phenanthrene-d10	(4)	10.414	188	605356	40.0000
141)	Phenanthrene	(4)	10.438	178	1349261	81.7855
137)	Dinoseb	(4)	10.420	211	242742	94.2083
143)	Anthracene	(4)	10.492	178	1385860	82.7841
145)	Carbazole	(4)	10.648	167	1292538	82.4426
149)	Methyl parathion	(4)	10.791	109	304011	83.3133
148)	Di-n-butylphthalate	(4)	11.013	149	1560130	84.3844
150)	Parathion	(4)	11.180	109	212510	88.2212
133)	4-Nitroquinoline-1-oxide	(4)	11.198	190	136473	98.4486
99)	Isodrin	(4)	11.455	193	150174	83.7100
153)	Fluoranthene	(4)	11.599	202	1390854	83.4588
154)	Benzidine	(5)	11.748	184	2231981	261.6411
155)	Pyrene	(5)	11.820	202	1470037	84.2178
147)	p-Dimethylaminoazobenzene	(5)	12.125	225	293874	86.4006
144)	Chlorobenzilate	(5)	12.173	139	454392	85.5655
161)	3,3'-Dimethylbenzidine	(5)	12.454	212	682587	91.1172
162)	Butylbenzylphthalate	(5)	12.478	149	668840	86.0454
101)	2-Acetylaminofluorene	(5)	12.706	181	568693	89.4557
165)	3,3'-Dichlorobenzidine	(5)	12.993	252	477976	88.5602
164)	Benzo(a)anthracene	(5)	13.017	228	1296605	85.2578
167)	4,4'-Methylenebis(2-Chloroanil	(5)	13.005	231	252700	88.6481
166)	Chrysene-d12	(5)	13.023	240	552578	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0459

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0653.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:41 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

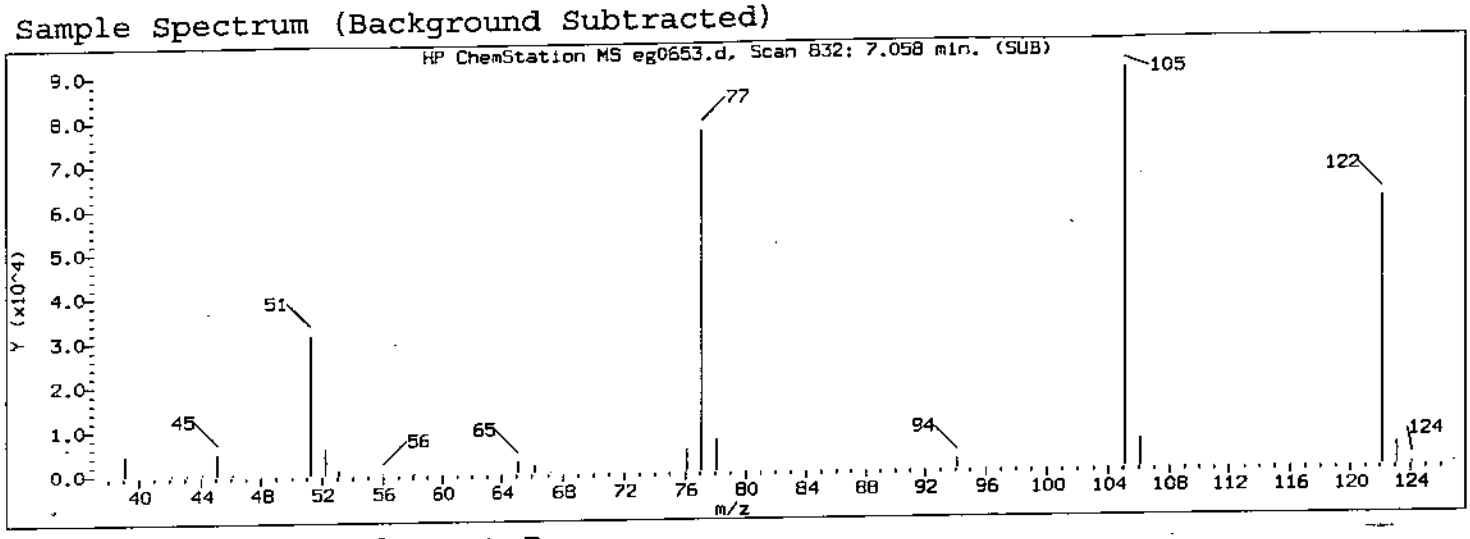
Sample Name: SSTD080 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168) Chrysene	(5)	13.053	228	1231848	82.4388
169) bis(2-Ethylhexyl)phthalate	(5)	13.071	149	914387	87.0892
170) 6-Methylchrysene	(5)	13.507	242	884892	84.6893
172) Di-n-octylphthalate	(6)	13.735	149	1382365	90.1157
174) 7,12-Dimethylbenz[a]anthracene	(6)	14.094	256	611748	87.9982
173) Benzo(b)fluoranthene	(6)	14.094	252	1191025	89.5596
175) Benzo(k)fluoranthene	(6)	14.123	252	1206166	81.3533
176) Benzo(a)pyrene	(6)	14.411	252	1082662	85.2654
177) Perylene-d12	(6)	14.458	264	482398	40.0000
180) 3-Methylcholanthrene	(6)	14.758	268	580538	87.3938
181) Dibenz(a,h)acridine	(6)	15.350	279	719302	92.8723
183) Dibenz(a,j)acridine	(6)	15.410	279	991456	88.2722
185) Indeno(1,2,3-cd)pyrene	(6)	15.625	276	1156844	88.1569
187) Dibenz(a,h)anthracene	(6)	15.649	278	973117	87.9498
188) Benzo(g,h,i)perylene	(6)	15.954	276	968766	87.9579
194) Diallate TRANS/CIS	(4)	23.556	86	542765	85.3165
11) 2-Fluorophenol	(1)	4.660	112	383731	85.2248
19) Phenol-d5	(1)	5.647	99	549002	85.3996
20) Phenol-d6	(1)	5.647	99	549002	85.3996
42) Nitrobenzene-d5	(2)	6.544	82	561550	83.7736
79) 2-Fluorobiphenyl	(3)	8.315	172	941794	84.5009
126) 2,4,6-Tribromophenol	(3)	9.732	330	112682	85.4865
157) Terphenyl-d14	(5)	11.988	244	984652	85.3820

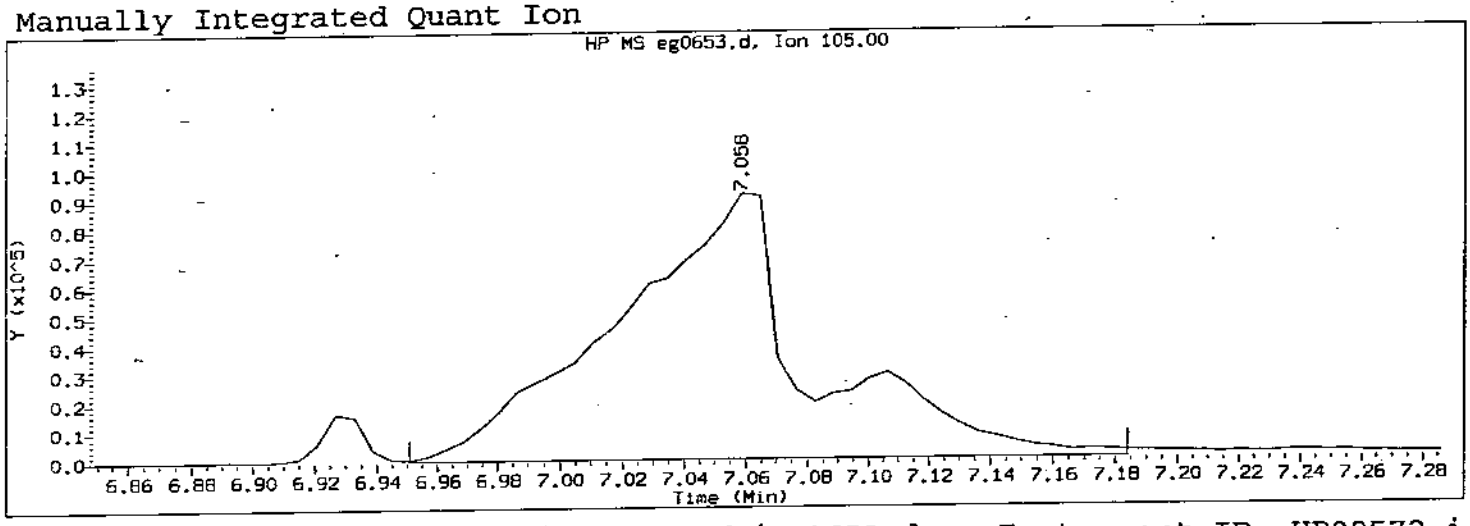
M = Compound was manually integrated. A = User selected an alternate hit

USF03 8468

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0653.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:41 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:14
Date, time and analyst ID of latest file update: 19-Jul-2011 07:14 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1991

Compound Number	: 50
Compound Name	: Benzoic acid
Scan Number	: 832
Retention Time (minutes)	: 7.058
Quant Ion	: 105
Area (flag)	: 399510 M
Concentration (ng/ul)	: 84.5968
Integration start scan	: 813 Integration stop scan: 852
Y at integration start	: 103 Y at integration end: 103

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 7/19/11

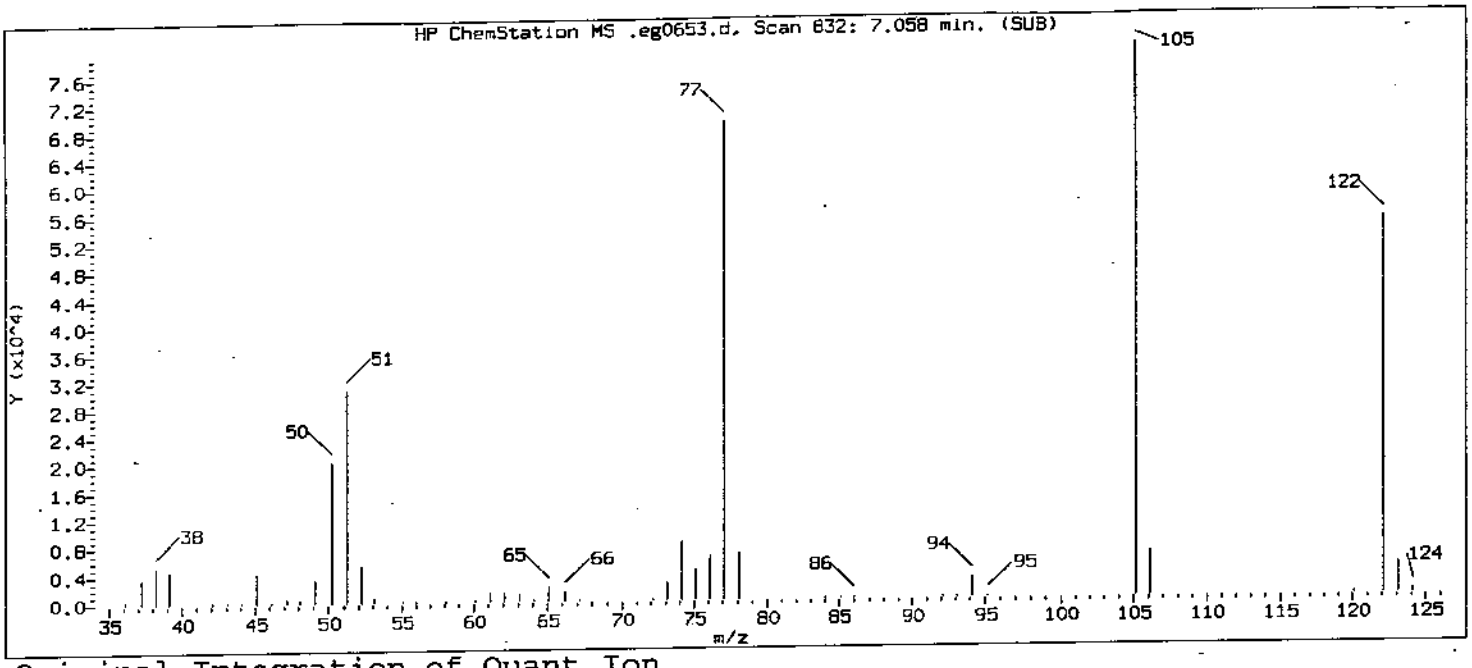
USF03 0461

GC/MS audit/management approval:

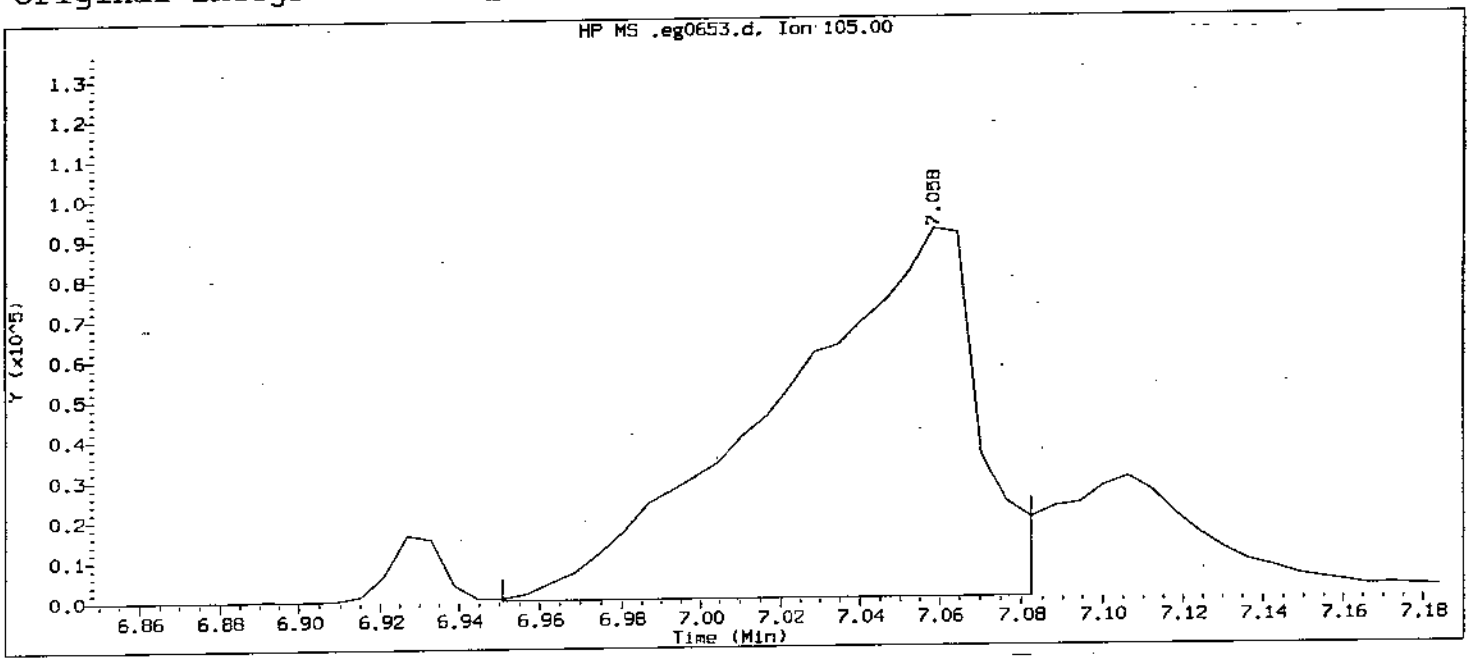
Mark A. Ratcliff
Senior Specialist
JUL 19 2011

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0653.d, generated on 07/19/2011 at 07:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0653.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 01:41 Analyst ID: rpb01568

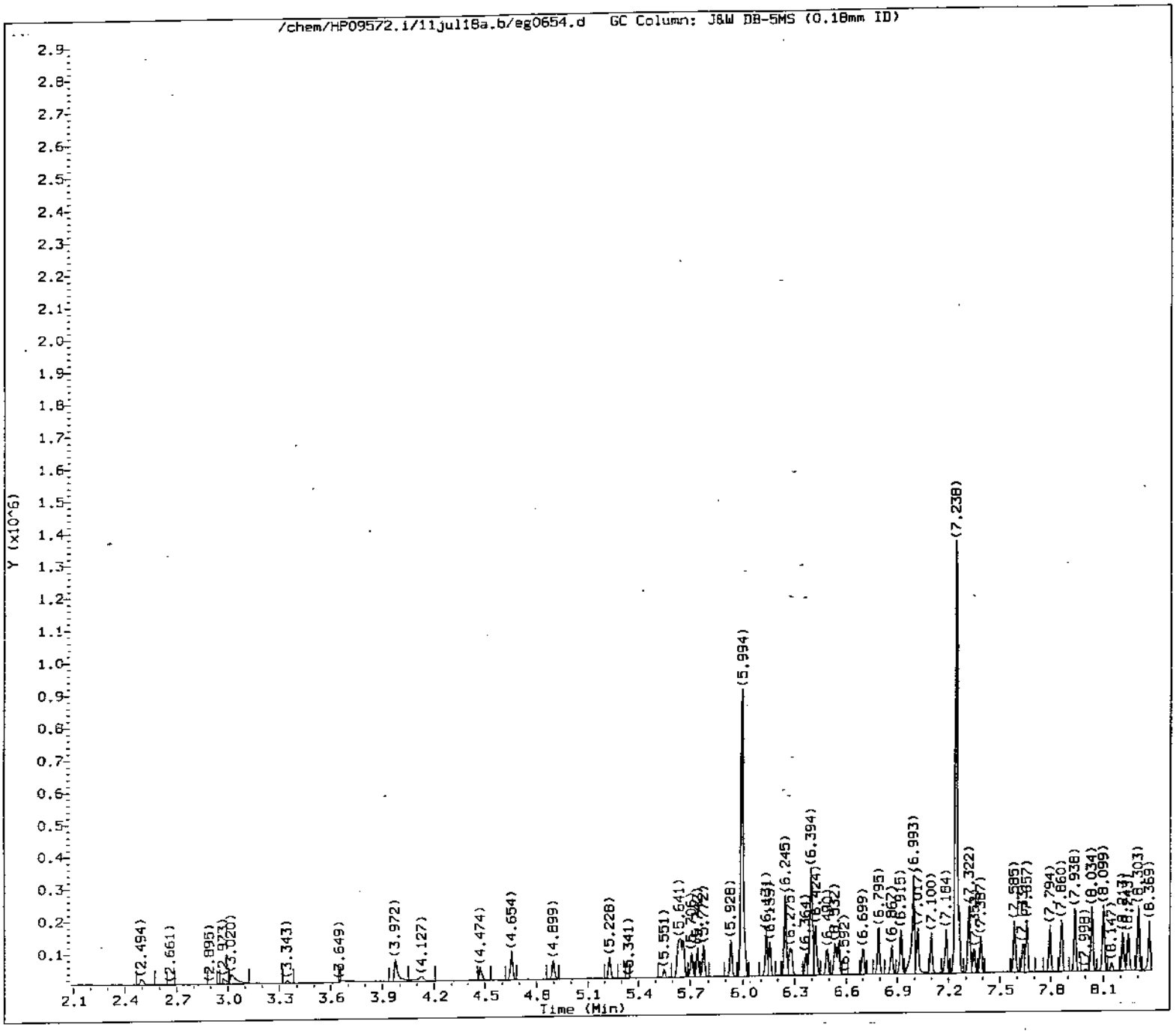
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all
Calibration date and time: 19-JUL-2011 07:00
Date, time and analyst ID of latest file update: 19-Jul-2011 07:00 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1991

Compound Number : 50
Compound Name : Benzoic acid
Scan Number : 832
Retention Time (minutes): 7.058
Quant Ion : 105
Area : 320440
Concentration (ng/ul) : 107.7589
Integration start scan : 813 Integration stop scan: 835
Y at integration start : 0 Y at integration end: 0

USP83 0462

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0653.d, generated on 07/19/2011 at 07:14



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0654.d
Injection date and time: 19-JUL-2011 02:05

Instrument ID: HP09572.i
Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m
Calibration date and time: 19-JUL-2011 07:15

Sublist used: all1

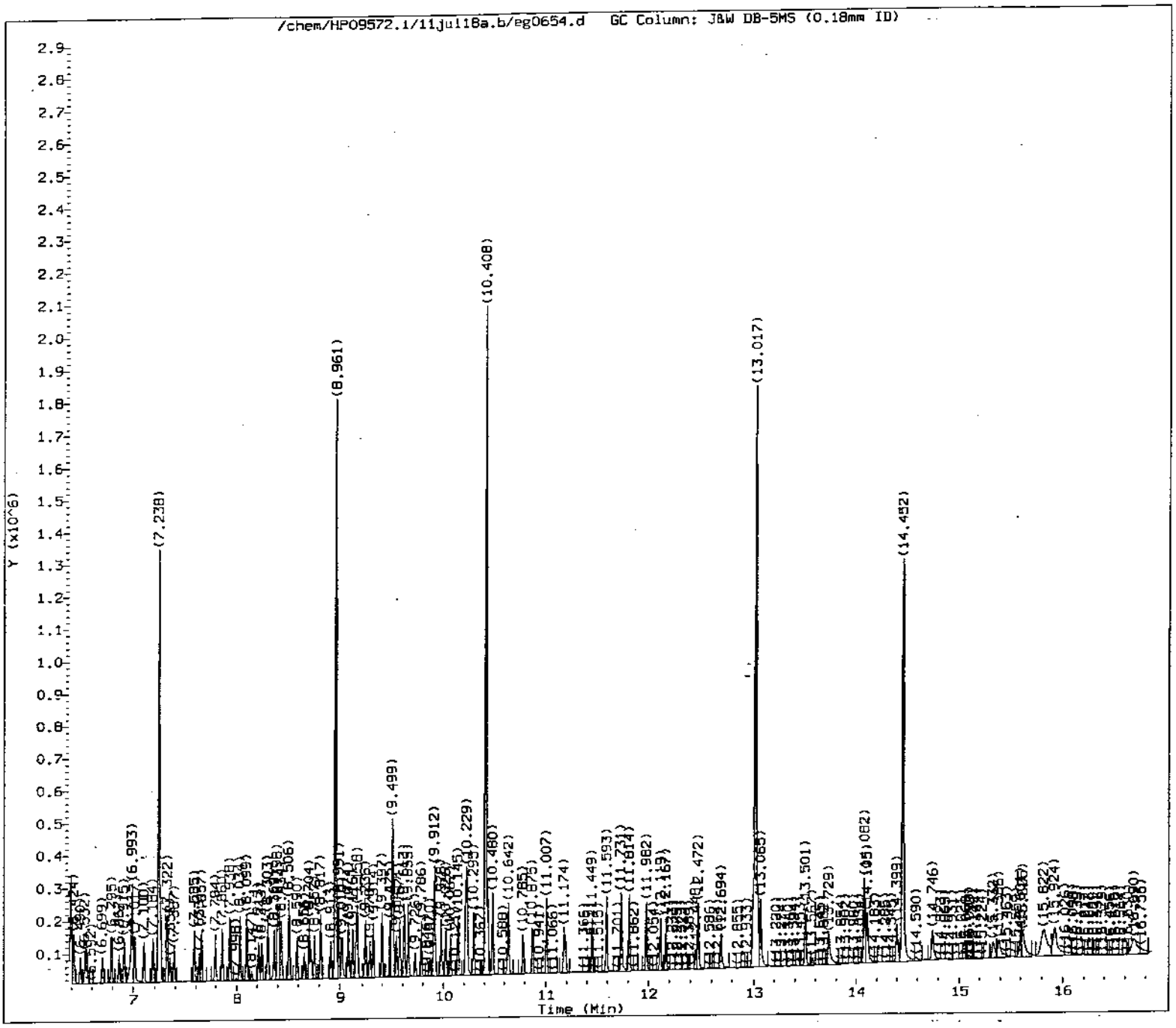
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD005

Lab Sample ID: STD1991

USF03 8463

MSV 1109 7/19/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0654.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:05 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1991

USEPA 2464

MS 1/19/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0654.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:05 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.494	88	8285	4.6117
3) N-Nitrosodimethylamine	(1)	2.973	74	13027	4.0910
4) Pyridine	(1)	3.020	79	22012	4.1308
6) 2-Picoline	(1)	3.972	93	26502	4.8861
2) N-Nitrosomethylethylamine	(1)	4.121	88	12156	4.8013
8) Methyl methanesulfonate	(1)	4.474	80	14414	4.7516
9) N-Nitrosodiethylamine	(1)	4.899	102	11201	4.6020
15) Ethyl methanesulfonate	(1)	5.228	109	11698	4.7731
22) Phenol	(1)	5.647	94	34087	4.5890
21) Aniline	(1)	5.665	93	39921	4.7056
33) Pentachloroethane	(1)	5.706	167	7239	4.7178
23) bis(2-Chloroethyl)ether	(1)	5.742	93	26743	4.9442
24) 2-Chlorophenol	(1)	5.772	128	21005	4.5994
26) 1,3-Dichlorobenzene	(1)	5.928	146	22070	4.7446
27) 1,4-Dichlorobenzene-d4	(1)	5.994	152	117236	40.0000
28) 1,4-Dichlorobenzene	(1)	6.006	146	23130	4.8120
31) Benzyl alcohol	(1)	6.131	108	15883	4.7424
32) 1,2-Dichlorobenzene	(1)	6.155	146	21062	4.6260
17) Indene	(1)	6.239	115	36119	4.7224
34) 2-Methylphenol	(1)	6.245	108	21639	4.6550
35) 2,2'-oxybis(1-Chloropropane)	(1)	6.275	45	43264	5.1209
36) bis(2-Chloroisopropyl)ether	(1)	6.275	45	43264	5.1199
30) N-Nitrosopyrrolidine	(1)	6.364	100	13538	4.8094
37) Acetophenone	(1)	6.388	105	34966	4.7806
38) N-Nitroso-di-n-propylamine	(1)	6.400	70	22862	4.5464
39) 4-Methylphenol	(1)	6.394	108	23299	4.3106
7) N-Nitrosomorpholine	(1)	6.412	56	18855	4.7129
40) o-Toluidine	(1)	6.424	106	38478	4.6778
41) Hexachloroethane	(1)	6.490	117	9041	4.7394
43) Nitrobenzene	(2)	6.556	77	31780	4.6746
18) N-Nitrosopiperidine	(2)	6.699	114	13006	4.8676
46) Isophorone	(2)	6.795	82	57296	4.7338
47) 2-Nitrophenol	(2)	6.867	139	11608	4.3065
48) 2,4-Dimethylphenol	(2)	6.921	107	25207	4.5973
93) O,O,O-triethylphosphorothioate	(2)	6.993	198	11990	4.7544
49) bis(2-Chloroethoxy)methane	(2)	7.017	93	31516	4.5350
50) Benzoic acid	(2)	6.993	105	61357	13.5173
51) 2,4-Dichlorophenol	(2)	7.100	162	18207	4.5005
52) 1,2,4-Trichlorobenzene	(2)	7.184	180	20278	4.5887
53) Naphthalene-d8	(2)	7.238	136	556468	40.0000
54) Naphthalene	(2)	7.262	128	68529	4.6486
56) 4-Chloroaniline	(2)	7.316	127	29064	4.5319
55) 2,6-Dichlorophenol	(2)	7.322	162	17960	4.4339

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0654.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:05 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44) Hexachloropropene	(2)	7.352	213	10807	4.4381
59) Hexachlorobutadiene	(2)	7.387	225	9776	4.5897
65) Quinoline	(2)	7.585	129	48292	4.9747
66) Caprolactam	(2)	7.639	113	9449	4.7030
5) N-Nitrosodi-n-butylamine	(2)	7.657	84	21925	4.2110
68) 4-Chloro-3-methylphenol	(2)	7.794	107	22850	4.6430
61) Safrole	(2)	7.860	162	18761	4.7693
64) cis-Isosafrole	(3)	8.147	162	2860	0.4474
69) 2-Methylnaphthalene	(2)	7.938	142	47466	4.6752
71) 1-Methylnaphthalene	(2)	8.034	142	43936	4.6019
72) Hexachlorocyclopentadiene	(3)	8.099	237	8410	3.5333
73) 1,2,4,5-Tetrachlorobenzene	(3)	8.099	216	19937	4.3735
62) trans-Isosafrole	(3)	8.369	162	19163	4.0276
76) 2,4,6-Trichlorophenol	(3)	8.213	196	13811	4.3826
77) 2,4,5-Trichlorophenol	(3)	8.249	196	15950	4.5205
63) Isosafrole	(3)	8.369	162	19163	4.5254
82) Biphenyl	(3)	8.398	154	61040	4.5501
83) Diphenyl	(3)	8.398	154	61040	4.5501
84) 1,1'-Biphenyl	(3)	8.398	154	61040	4.5501
85) 2-Chloronaphthalene	(3)	8.416	162	48853	3.9778
86) 1-Chloronaphthalene	(3)	8.434	162	50870M	5.2767
87) Diphenyl ether	(3)	8.506	170	32783	4.5692
88) 2-Nitroaniline	(3)	8.518	138	16373	4.4521
60) 1,4-Naphthoquinone	(3)	8.590	158	17931	4.1643
57) 1,4-Dinitrobenzene	(3)	8.656	168	7555	4.0901
92) Dimethylphthalate	(3)	8.704	163	57814	4.8151
58) 1,3-Dinitrobenzene	(3)	8.721	168	9332	4.3035
98) 2,6-Dinitrotoluene	(3)	8.757	165	13184	4.5630
100) Acenaphthylene	(3)	8.817	152	70027	4.4553
102) 3-Nitroaniline	(3)	8.913	138	12936	4.2271
103) Acenaphthene-d10	(3)	8.961	164	369896	40.0000
106) Acenaphthene	(3)	8.991	153	48600	4.6325
107) 2,4-Dinitrophenol	(3)	9.021	184	16095	11.0688
110) Pentachlorobenzene	(3)	9.116	250	18509	4.5961
109) 4-Nitrophenol	(3)	9.074	109	14981	8.2729
112) Dibenzofuran	(3)	9.158	168	69789	4.6440
113) 2,4-Dinitrotoluene	(3)	9.146	165	16484	4.3256
114) 1-Naphthylamine	(3)	9.236	143	51132	4.4553
115) 2,3,4,6-Tetrachlorophenol	(3)	9.278	232	11909	4.3622
117) 2-Naphthylamine	(3)	9.314	143	52928	4.5610
118) Diethylphthalate	(3)	9.397	149	54875	4.6845
119) Fluorene	(3)	9.493	166	58365	4.5705
29) Thionazin	(3)	9.475	107	10930	4.9616

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0466

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0654.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:05 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	9.505	204	27178	4.5166
70)	5-Nitro-o-toluidine	(3)	9.505	152	18331	4.8065
121)	4-Nitroaniline	(3)	9.505	138	16191	4.7447
122)	4,6-Dinitro-2-methylphenol	(4)	9.541	198	14693	7.4551
67)	1-Nitronaphthalene	(4)	9.571	173	11768	4.7281
123)	N-Nitrosodiphenylamine	(4)	9.613	169	49961	4.6483
124)	NDPA as diphenylamine	(4)	9.613	169	49961	4.6505
125)	1,2-Diphenylhydrazine	(4)	9.655	77	74960	4.5883
108)	Tetraethyldithiopyrophosphate	(4)	9.786	97	9546	4.2957
81)	1,3,5-Trinitrobenzene	(4)	9.870	213	4145	3.2406
78)	Diallate (peak 1)	(4)	9.906	86	24441	3.2453
75)	Phorate	(4)	9.912	75	43135	4.3169
80)	Phenacetin	(4)	9.918	108	29541	4.4274
131)	4-Bromophenyl-phenylether	(4)	9.978	248	14667	4.5224
13)	Diallate (peak 2)	(4)	9.990	86	5547	1.2281
132)	Hexachlorobenzene	(4)	10.026	284	15082	4.6571
96)	Dimethoate	(4)	10.067	87	22868	4.4984
135)	Pentachlorophenol	(4)	10.223	266	30073	13.6291
136)	Pentachloronitrobenzene	(4)	10.235	237	6481	4.7824
105)	4-Aminobiphenyl	(4)	10.229	169	57789	4.8867
97)	Pronamide	(4)	10.295	173	23164	4.3151
140)	Phenanthrene-d10	(4)	10.408	188	646271	40.0000
141)	Phenanthrene	(4)	10.432	178	84916	4.8213
137)	Dinoseb	(4)	10.408	211	8997	3.2707
143)	Anthracene	(4)	10.480	178	82172	4.5978
145)	Carbazole	(4)	10.642	167	78189	4.6714
149)	Methyl parathion	(4)	10.785	109	17010	4.3664
148)	Di-n-butylphthalate	(4)	11.007	149	86042	4.3592
150)	Parathion	(4)	11.174	109	9752	3.7921
133)	4-Nitroquinoline-1-oxide	(4)	11.186	190	3811	2.5751
99)	Isodrin	(4)	11.449	193	8229	4.2966
153)	Fluoranthene	(4)	11.593	202	79316	4.4581
154)	Benzidine	(5)	11.737	184	97143	10.4855
155)	Pyrene	(5)	11.814	202	89123	4.7014
147)	p-Dimethylaminoazobenzene	(5)	12.119	225	15608	4.2254
144)	Chlorobenzilate	(5)	12.167	139	25346	4.3948
161)	3,3'-Dimethylbenzidine	(5)	12.448	212	20763	2.5521
162)	Butylbenzylphthalate	(5)	12.472	149	36837	4.3637
101)	2-Acetylaminofluorene	(5)	12.694	181	27168	3.9351
165)	3,3'-Dichlorobenzidine	(5)	12.987	252	22304	3.8052
164)	Benzo(a)anthracene	(5)	13.005	228	76479	4.6306
167)	4,4'-Methylenebis(2-Chloroanil	(5)	12.993	231	13017	4.2047
166)	Chrysene-d12	(5)	13.017	240	600108	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0654.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:05 Analyst ID: rpb01568

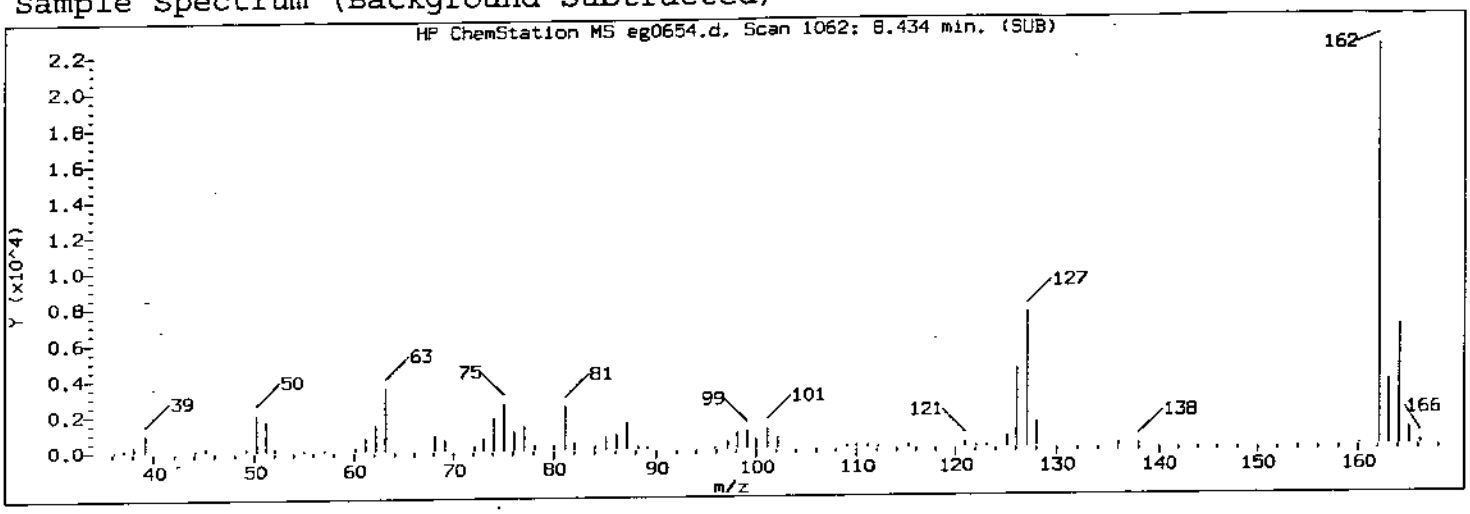
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1991

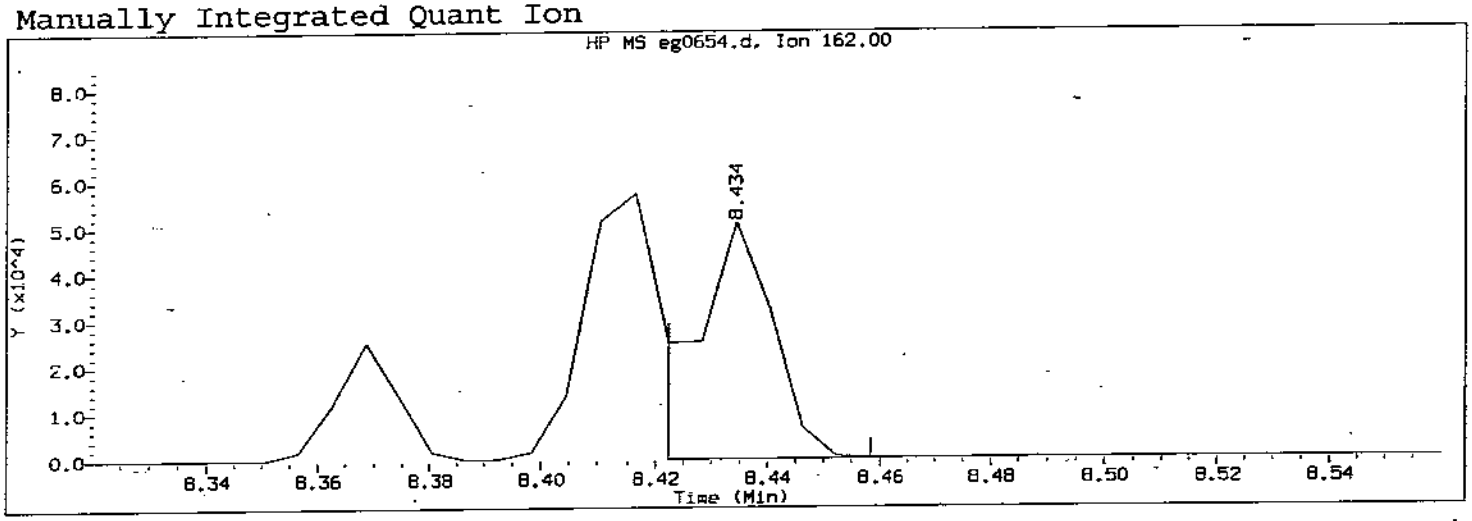
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168)	Chrysene	(5)	13.041	228	77911	4.8011
169)	bis(2-Ethylhexyl)phthalate	(5)	13.065	149	49860	4.3727
170)	6-Methylchrysene	(5)	13.501	242	51577	4.5453
172)	Di-n-octylphthalate	(6)	13.729	149	61471	3.6177
174)	7,12-Dimethylbenz[a]anthracene	(6)	14.076	256	31215	4.0537
173)	Benzo(b)fluoranthene	(6)	14.082	252	59448	4.0357
175)	Benzo(k)fluoranthene	(6)	14.105	252	78446	4.7767
176)	Benzo(a)pyrene	(6)	14.399	252	64646	4.5963
177)	Perylene-d12	(6)	14.458	264	534339	40.0000
180)	3-Methylcholanthrene	(6)	14.746	268	30702	4.1726
181)	Dibenz(a,h)acridine	(6)	15.332	279	31283	3.6465
183)	Dibenz(a,j)acridine	(6)	15.386	279	53309	4.2849
185)	Indeno(1,2,3-cd)pyrene	(6)	15.601	276	62115	4.2733
187)	Dibenz(a,h)anthracene	(6)	15.625	278	52485	4.2825
188)	Benzo(g,h,i)perylene	(6)	15.924	276	55965	4.5873
194)	Diallate TRANS/CIS	(4)	23.556	86	29988	4.4734
11)	2-Fluorophenol	(1)	4.654	112	19799	4.6581
19)	Phenol-d5	(1)	5.635	99	27611	4.5498
20)	Phenol-d6	(1)	5.635	99	27611	4.5498
42)	Nitrobenzene-d5	(2)	6.532	82	29465	4.5732
79)	2-Fluorobiphenyl	(3)	8.303	172	52911	4.5397
126)	2,4,6-Tribromophenol	(3)	9.726	330	6044	4.3848
157)	Terphenyl-d14	(5)	11.982	244	57551	4.5952

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0654.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:05 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1991

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1062
Retention Time (minutes)	:	8.434
Quant Ion	:	162
Area (flag)	:	50870 M
Concentration (ng/ul)	:	5.2767
Integration start scan	:	1059 Integration stop scan: 1065
Y at integration start	:	-172 Y at integration end: -172

Reason for manual integration (circle one): missed peak improper integration

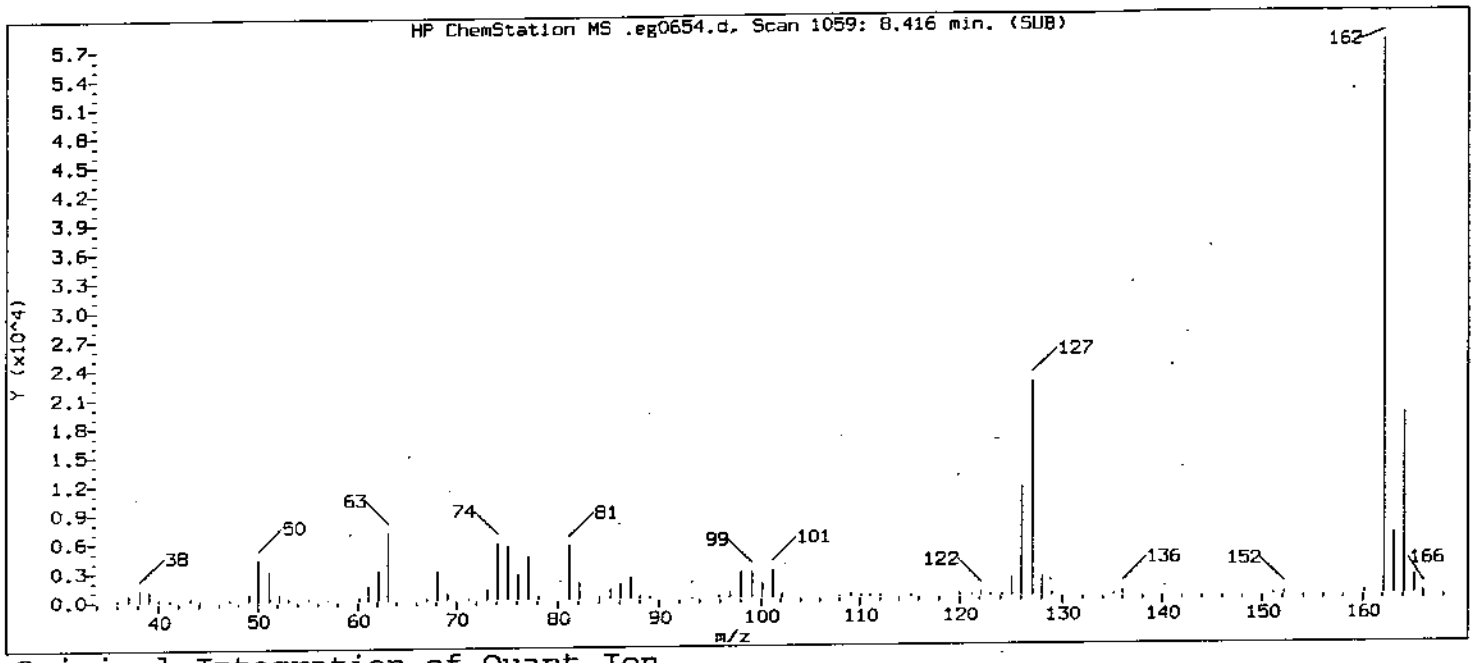
Analyst responsible for change: MAR 7/19/11

USF02 0469

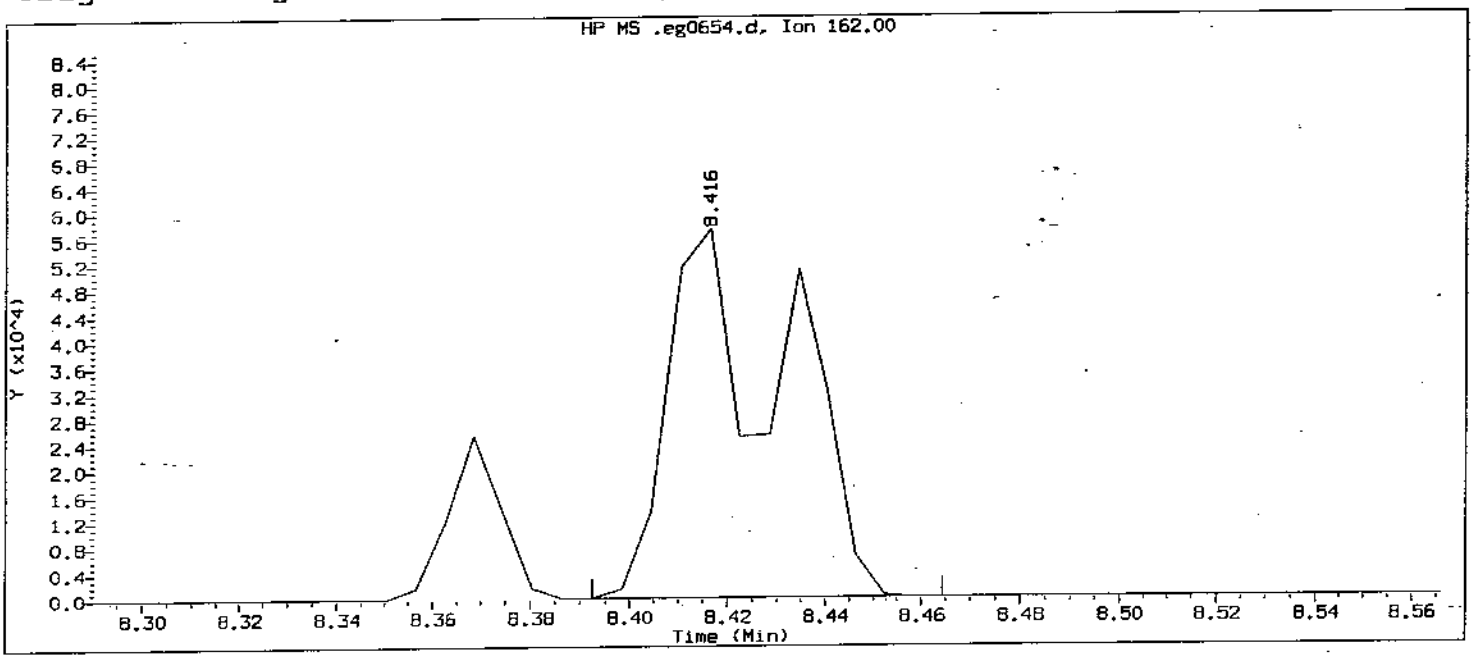
GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0654.d, generated on 07/19/2011 at 07:15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0654.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:05 Analyst ID: rpb01568

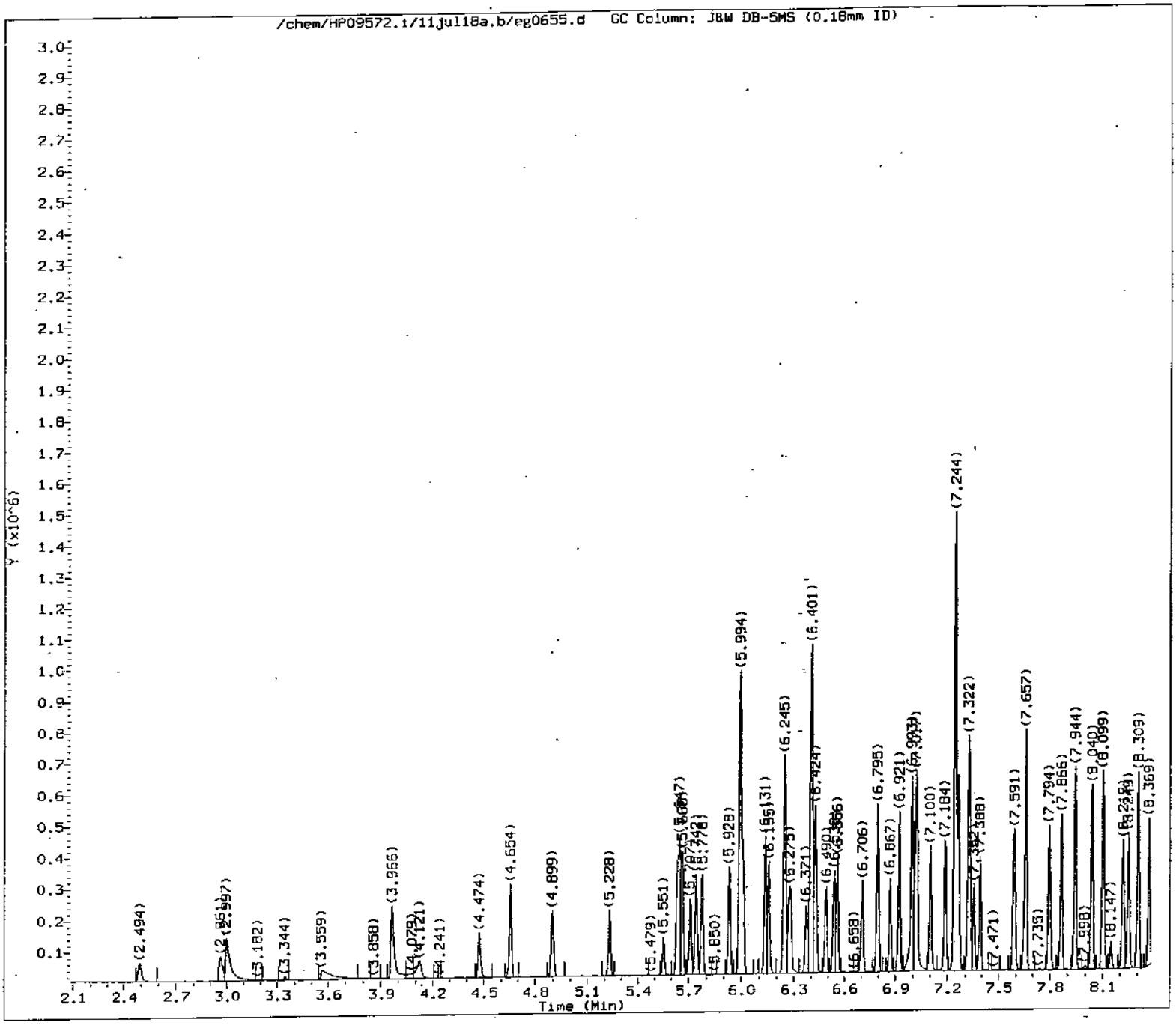
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:01
Date, time and analyst ID of latest file update: 19-Jul-2011 07:01 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1991

Compound Number : 86
Compound Name : 1-Chloronaphthalene
Scan Number : 1059
Retention Time (minutes): 8.416
Quant Ion : 162
Area : 94806
Concentration (ng/ul) : 6.6647
Integration start scan : 1054 Integration stop scan: 1066
Y at integration start : 0 Y at integration end: 0

USF03 8478

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0654.d, generated on 07/19/2011 at 07:15



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0655.d
Injection date and time: 19-JUL-2011 02:30

Instrument ID: HP09572.i
Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m
Calibration date and time: 19-JUL-2011 07:15

Sublist used: all1

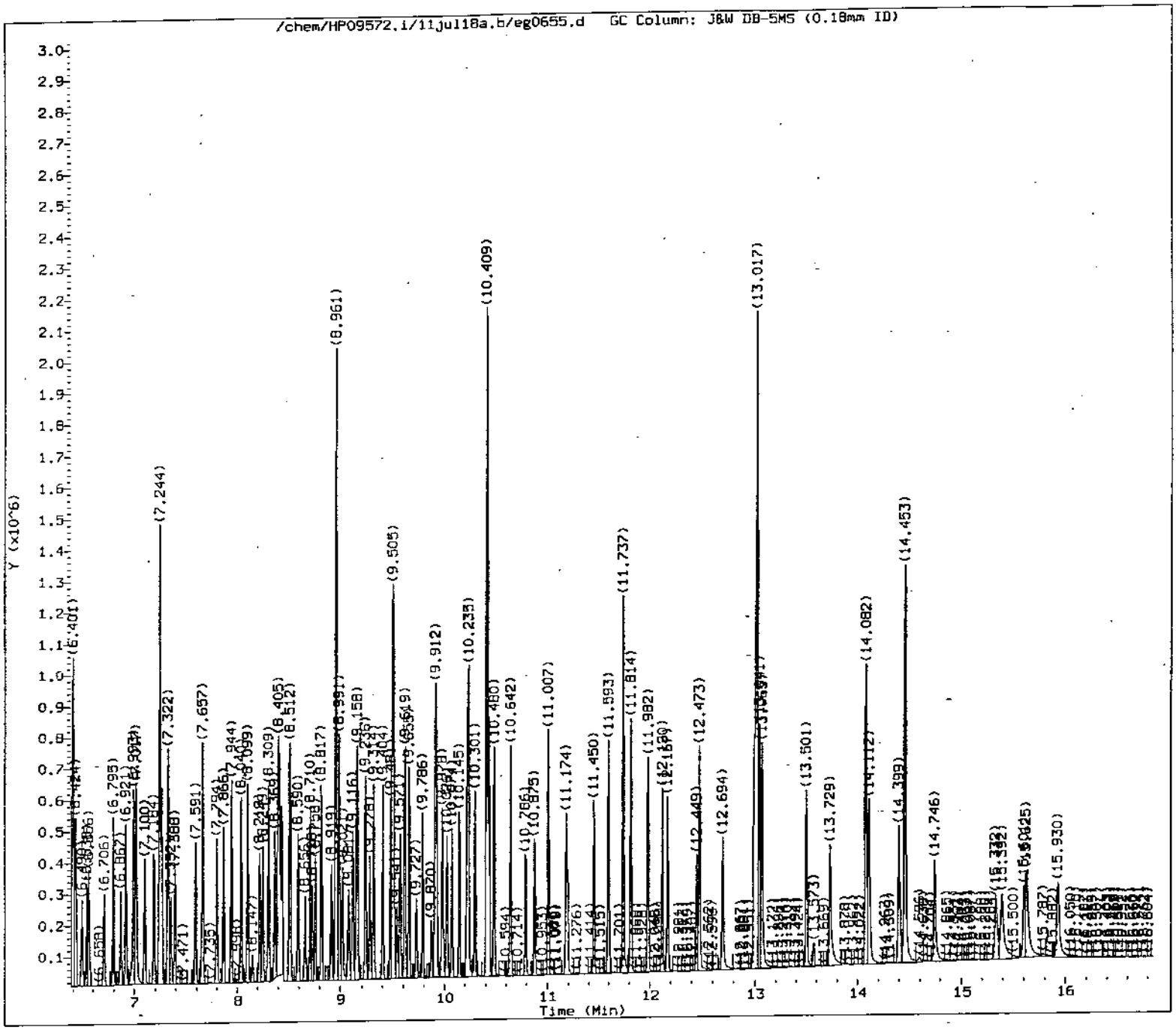
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD015

Lab Sample ID: STD1991

USF03 0471

MGW 2109 7/19/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0655.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:30 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD015 Lab Sample ID: STD1991

USF03 8472

MSV-JMG 7/19/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0655.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:30 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD015 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.494	88	28486	14.7485
3) N-Nitrosodimethylamine	(1)	2.961	74	50258	14.6805
4) Pyridine	(1)	2.997	79	78514	13.7047
6) 2-Picoline	(1)	3.966	93	84909	14.5609
2) N-Nitrosomethylethylamine	(1)	4.121	88	40399	14.8421
8) Methyl methanesulfonate	(1)	4.474	80	48900	14.9940
9) N-Nitrosodiethylamine	(1)	4.899	102	37988	14.5173
15) Ethyl methanesulfonate	(1)	5.228	109	38931	14.7754
22) Phenol	(1)	5.647	94	116303	14.5637
21) Aniline	(1)	5.665	93	131830	14.4536
33) Pentachloroethane	(1)	5.713	167	24174	14.6542
23) bis(2-Chloroethyl)ether	(1)	5.742	93	84449	14.5224
24) 2-Chlorophenol	(1)	5.778	128	71891	14.6422
26) 1,3-Dichlorobenzene	(1)	5.934	146	72440	14.4852
27) 1,4-Dichlorobenzene-d4	(1)	5.994	152	126040	40.0000
28) 1,4-Dichlorobenzene	(1)	6.006	146	73997	14.3191
31) Benzyl alcohol	(1)	6.131	108	53336	14.8129
32) 1,2-Dichlorobenzene	(1)	6.155	146	71718	14.6517
17) Indene	(1)	6.245	115	121751	14.8065
34) 2-Methylphenol	(1)	6.251	108	73396	14.6861
35) 2,2'-oxybis(1-Chloropropane)	(1)	6.275	45	132985	14.6411
36) bis(2-Chloroisopropyl)ether	(1)	6.275	45	132985	14.6383
30) N-Nitrosopyrrolidine	(1)	6.371	100	43455	14.3592
37) Acetophenone	(1)	6.395	105	116389	14.8014
38) N-Nitroso-di-n-propylamine	(1)	6.401	70	79624	14.7283
39) 4-Methylphenol	(1)	6.401	108	87397	15.0401
7) N-Nitrosomorpholine	(1)	6.412	56	63821	14.8379
40) o-Toluidine	(1)	6.424	106	127834	14.4555
41) Hexachloroethane	(1)	6.490	117	29368	14.3197
43) Nitrobenzene	(2)	6.556	77	105866	14.5834
18) N-Nitrosopiperidine	(2)	6.706	114	42449	14.8780
46) Isophorone	(2)	6.795	82	190187	14.7156
47) 2-Nitrophenol	(2)	6.867	139	40544	14.0865
48) 2,4-Dimethylphenol	(2)	6.921	107	84064	14.3584
93) O,O,O-triethylphosphorothioate	(2)	6.999	198	40007	14.8567
49) bis(2-Chloroethoxy)methane	(2)	7.017	93	108989	14.6872
50) Benzoic acid	(2)	7.017	105	144312	29.7740
51) 2,4-Dichlorophenol	(2)	7.100	162	62926	14.5667
52) 1,2,4-Trichlorobenzene	(2)	7.190	180	68827	14.5858
53) Naphthalene-d8	(2)	7.244	136	594196	40.0000
54) Naphthalene	(2)	7.262	128	228503	14.5160
56) 4-Chloroaniline	(2)	7.322	127	99415	14.5172
55) 2,6-Dichlorophenol	(2)	7.322	162	62780	14.5149

M = Compound was manually integrated. A = User selected an alternate hit

USF03 8473

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0655.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:30 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD015 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44) Hexachloropropene	(2)	7.352	213	35701	13.7305
59) Hexachlorobutadiene	(2)	7.388	225	32065	14.0982
65) Quinoline	(2)	7.591	129	151977	14.6617
66) Caprolactam	(2)	7.657	113	32438	15.1200
5) N-Nitrosodi-n-butylamine	(2)	7.657	84	92235	16.5901
68) 4-Chloro-3-methylphenol	(2)	7.794	107	77729	14.7913
61) Safrole	(2)	7.866	162	59348	14.1291
64) cis-Isosafrole	(3)	8.147	162	10280	1.5546
69) 2-Methylnaphthalene	(2)	7.944	142	158959	14.6626
71) 1-Methylnaphthalene	(2)	8.040	142	150145	14.7279
72) Hexachlorocyclopentadiene	(3)	8.099	237	32664	13.2665
73) 1,2,4,5-Tetrachlorobenzene	(3)	8.105	216	66663	14.1369
62) trans-Isosafrole	(3)	8.369	162	62014	12.6002
76) 2,4,6-Trichlorophenol	(3)	8.219	196	46901	14.3878
77) 2,4,5-Trichlorophenol	(3)	8.249	196	51719	14.1702
63) Isosafrole	(3)	8.369	162	62014	14.1575
82) Biphenyl	(3)	8.405	154	199759	14.3952
83) Diphenyl	(3)	8.405	154	199759	14.3952
84) 1,1'-Biphenyl	(3)	8.405	154	199759	14.3952
85) 2-Chloronaphthalene	(3)	8.417	162	195077M	15.3552
86) 1-Chloronaphthalene	(3)	8.434	162	144713M	14.5115
87) Diphenyl ether	(3)	8.506	170	106918	14.4059
88) 2-Nitroaniline	(3)	8.518	138	53406	14.0386
60) 1,4-Naphthoquinone	(3)	8.590	158	64297	14.4354
57) 1,4-Dinitrobenzene	(3)	8.656	168	25883	13.5462
92) Dimethylphthalate	(3)	8.710	163	182173	14.6674
58) 1,3-Dinitrobenzene	(3)	8.728	168	32233	14.3698
98) 2,6-Dinitrotoluene	(3)	8.764	165	43003	14.3882
100) Acenaphthylene	(3)	8.817	152	237367	14.5993
102) 3-Nitroaniline	(3)	8.919	138	45101	14.2472
103) Acenaphthene-d10	(3)	8.961	164	382629	40.0000
106) Acenaphthene	(3)	8.991	153	157858	14.5462
107) 2,4-Dinitrophenol	(3)	9.021	184	42071	27.9701
110) Pentachlorobenzene	(3)	9.116	250	61362	14.7302
109) 4-Nitrophenol	(3)	9.081	109	27068	14.4503
112) Dibenzofuran	(3)	9.158	168	222461	14.3106
113) 2,4-Dinitrotoluene	(3)	9.152	165	55420	14.0589
114) 1-Naphthylamine	(3)	9.236	143	171986	14.4869
115) 2,3,4,6-Tetrachlorophenol	(3)	9.278	232	41935	14.8493
117) 2-Naphthylamine	(3)	9.314	143	173377	14.4432
118) Diethylphthalate	(3)	9.404	149	176760	14.5874
119) Fluorene	(3)	9.493	166	187682	14.2079
29) Thionazin	(3)	9.481	107	30971	13.5913

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0474

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0655.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:30 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD015 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	9.505	204	89027	14.3026
70)	5-Nitro-o-toluidine	(3)	9.511	152	56989	14.4455
121)	4-Nitroaniline	(3)	9.511	138	53724	15.2198
122)	4,6-Dinitro-2-methylphenol	(4)	9.547	198	26836	13.2528
67)	1-Nitronaphthalene	(4)	9.577	173	37380	14.6175
123)	N-Nitrosodiphenylamine	(4)	9.619	169	158416	14.3452
124)	NDPA as diphenylamine	(4)	9.619	169	158249	14.3370
125)	1,2-Diphenylhydrazine	(4)	9.655	77	245082	14.6009
108)	Tetraethyldithiopyrophosphate	(4)	9.786	97	32267	14.1325
81)	1,3,5-Trinitrobenzene	(4)	9.876	213	17535	13.3432
78)	Diallate (peak 1)	(4)	9.906	86	83125	10.7428
75)	Phorate	(4)	9.912	75	145693	14.1917
80)	Phenacetin	(4)	9.924	108	99129	14.4603
131)	4-Bromophenyl-phenylether	(4)	9.978	248	48961	14.6935
13)	Diallate (peak 2)	(4)	9.996	86	16664	3.5910
132)	Hexachlorobenzene	(4)	10.026	284	48349	14.5308
96)	Dimethoate	(4)	10.074	87	78501	15.0298
135)	Pentachlorophenol	(4)	10.223	266	64617	28.5028
136)	Pentachloronitrobenzene	(4)	10.235	237	19922	14.3083
105)	4-Aminobiphenyl	(4)	10.235	169	186885	15.3814
97)	Pronamide	(4)	10.301	173	79228	14.3649
140)	Phenanthrene-d10	(4)	10.415	188	663997	40.0000
141)	Phenanthrene	(4)	10.433	178	262343	14.4976
137)	Dinoseb	(4)	10.409	211	35983	12.7317
143)	Anthracene	(4)	10.486	178	267678	14.5776
145)	Carbazole	(4)	10.642	167	248251	14.4359
149)	Methyl parathion	(4)	10.786	109	58630	14.6484
148)	Di-n-butylphthalate	(4)	11.007	149	287595	14.1817
150)	Parathion	(4)	11.174	109	36840	13.9431
133)	4-Nitroquinoline-1-oxide	(4)	11.192	190	18599	12.2320
99)	Isodrin	(4)	11.450	193	29106	14.7914
153)	Fluoranthene	(4)	11.593	202	264914	14.4924
154)	Benzidine	(5)	11.737	184	405275	42.4201
155)	Pyrene	(5)	11.814	202	286032	14.6318
147)	p-Dimethylaminoazobenzene	(5)	12.120	225	54092	14.2002
144)	Chlorobenzilate	(5)	12.167	139	85349	14.3507
161)	3,3'-Dimethylbenzidine	(5)	12.449	212	120331	14.3425
162)	Butylbenzylphthalate	(5)	12.473	149	123662	14.2052
101)	2-Acetylaminofluorene	(5)	12.694	181	99465	13.9703
165)	3,3'-Dichlorobenzidine	(5)	12.987	252	86114	14.2466
164)	Benzo(a)anthracene	(5)	13.005	228	238733	14.0167
167)	4,4'-Methylenebis(2-Chloroanil	(5)	12.993	231	43522	13.6326
166)	Chrysene-d12	(5)	13.017	240	618853	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0655.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:30 Analyst ID: rpb01568

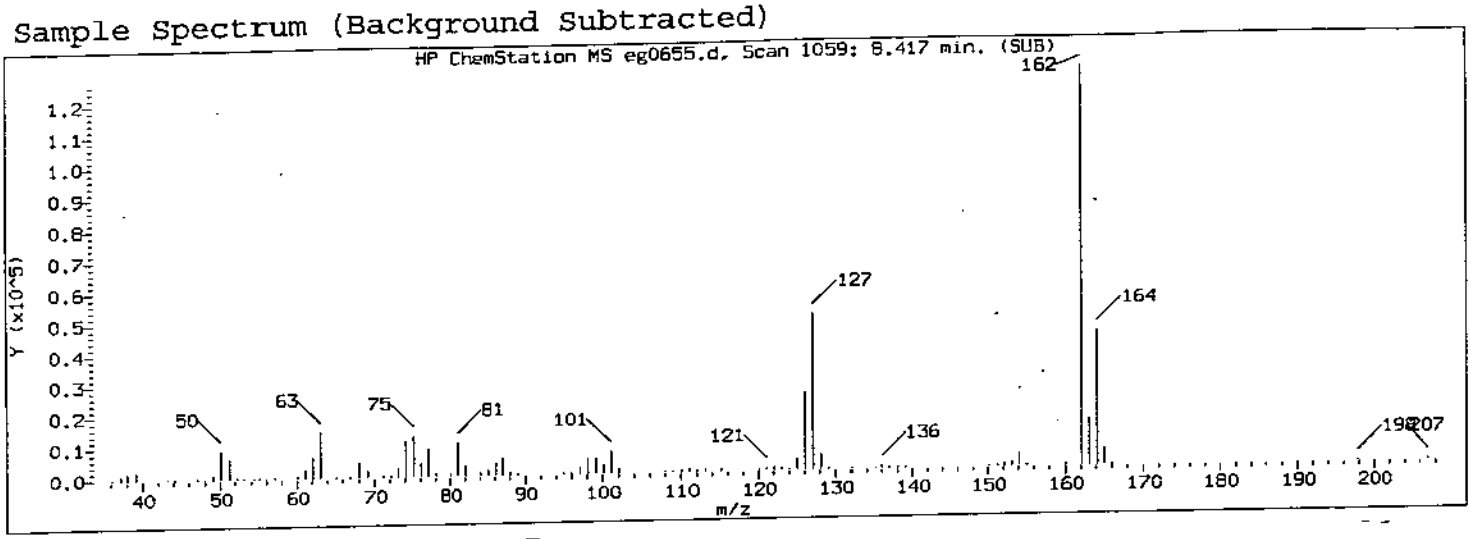
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD015 Lab Sample ID: STD1991

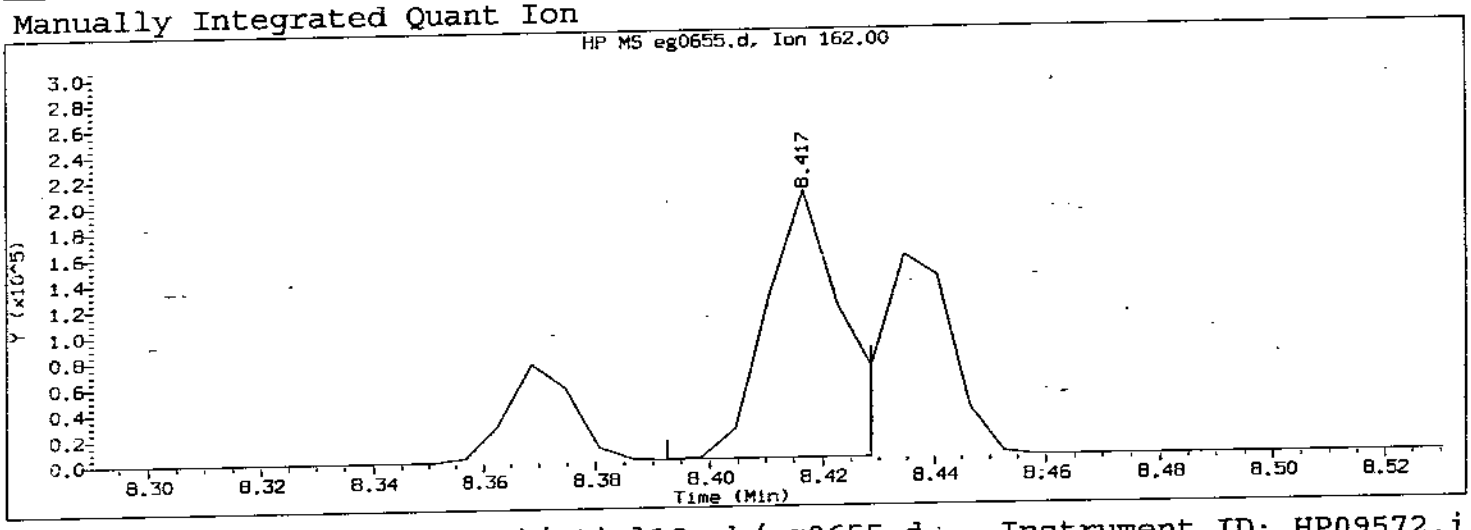
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168)	Chrysene	(5)	13.041	228	244089	14.5858
169)	bis(2-Ethylhexyl)phthalate	(5)	13.065	149	161869	13.7659
170)	6-Methylchrysene	(5)	13.501	242	164706	14.0752
172)	Di-n-octylphthalate	(6)	13.729	149	236890	13.6456
174)	7,12-Dimethylbenz[a]anthracene	(6)	14.082	256	109470	13.9144
173)	Benzo(b)fluoranthene	(6)	14.082	252	220375	14.6427
175)	Benzo(k)fluoranthene	(6)	14.112	252	234504	13.9761
176)	Benzo(a)pyrene	(6)	14.399	252	205655	14.3116
177)	Perylene-d12	(6)	14.453	264	545930	40.0000
180)	3-Methylcholanthrene	(6)	14.746	268	104165	13.8561
181)	Dibenz(a,h)acridine	(6)	15.332	279	113065	12.8995
183)	Dibenz(a,j)acridine	(6)	15.392	279	183657	14.4486
185)	Indeno(1,2,3-cd)pyrene	(6)	15.601	276	204467	13.7681
187)	Dibenz(a,h)anthracene	(6)	15.625	278	173773	13.8778
188)	Benzo(g,h,i)perylene	(6)	15.930	276	171358	13.7477
194)	Diallate TRANS/CIS	(4)	23.556	86	99789	14.3338
11)	2-Fluorophenol	(1)	4.654	112	65372	14.3058
19)	Phenol-d5	(1)	5.635	99	93844	14.3837
20)	Phenol-d6	(1)	5.635	99	93844	14.3837
42)	Nitrobenzene-d5	(2)	6.538	82	98403	14.3033
79)	2-Fluorobiphenyl	(3)	8.309	172	173445	14.3863
126)	2,4,6-Tribromophenol	(3)	9.727	330	20412	14.3156
157)	Terphenyl-d14	(5)	11.982	244	185734	14.3807

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0655.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:30 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD015 Lab Sample ID: STD1991

Compound Number	: 85
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1059
Retention Time (minutes)	: 8.417
Quant Ion	: 162
Area (flag)	: 195077 M
Concentration (ng/ul)	: 15.3552
Integration start scan	: 1054 Integration stop scan: 1060
Y at integration start	: 233 Y at integration end: 106

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: MGW 2109 7/19/11

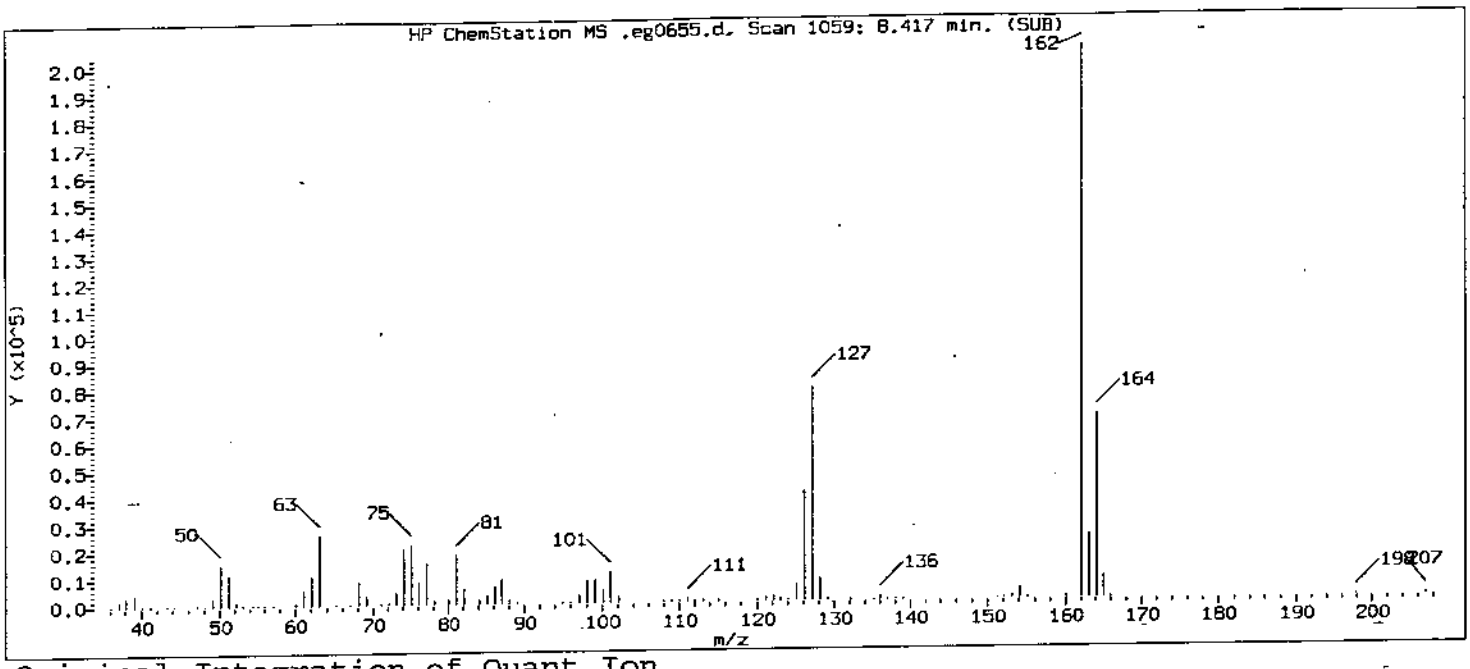
Mark A. Ratcliff
Senior Specialist

USY03 8477

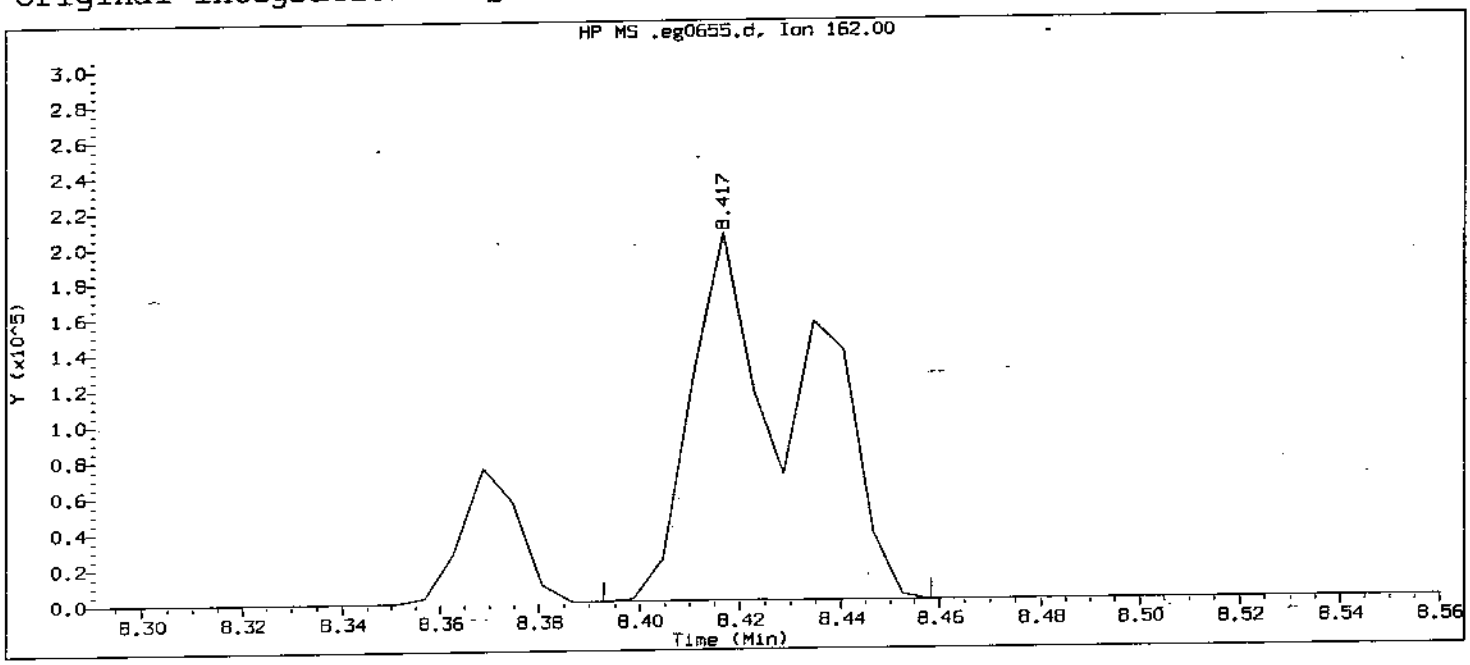
GC/MS audit/management approval: JUL 19 2011

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0655.d, generated on 07/19/2011 at 07:15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0655.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:30 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:01
Date, time and analyst ID of latest file update: 19-Jul-2011 07:01 jmg00346

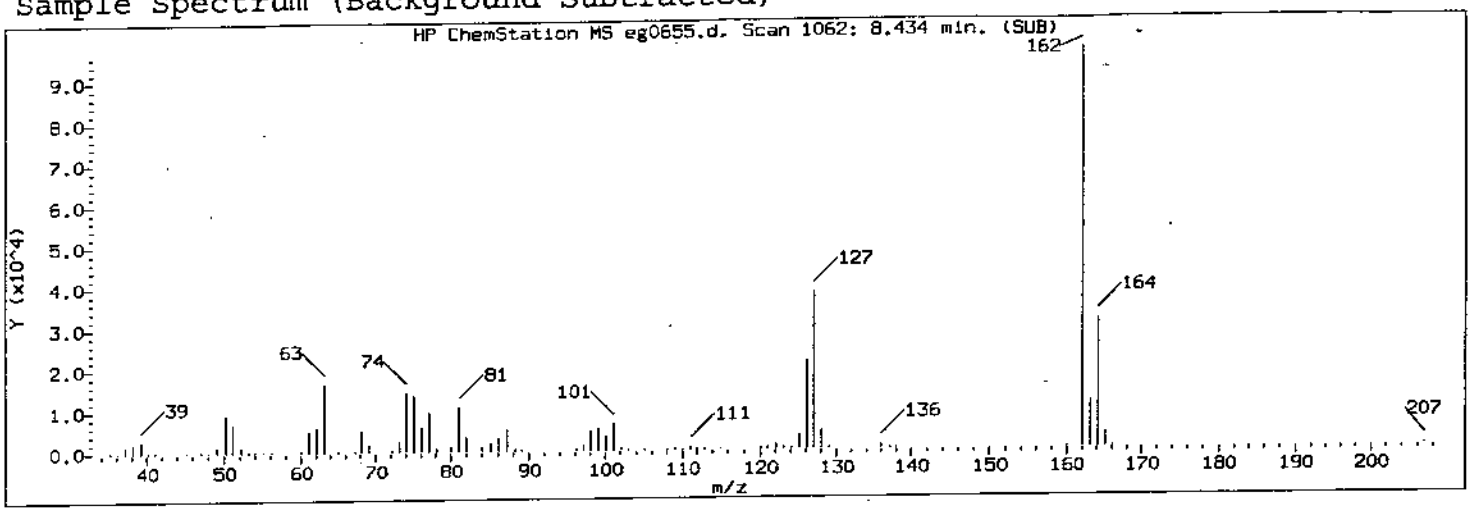
Sample Name: SSTD015 Lab Sample ID: STD1991

Compound Number : 85
Compound Name : 2-Chloronaphthalene
Scan Number : 1059
Retention Time (minutes): 8.417
Quant Ion : 162
Area : 315537
Concentration (ng/ul) : 20.1178
Integration start scan : 1054 Integration stop scan: 1065
Y at integration start : 233 Y at integration end: 0

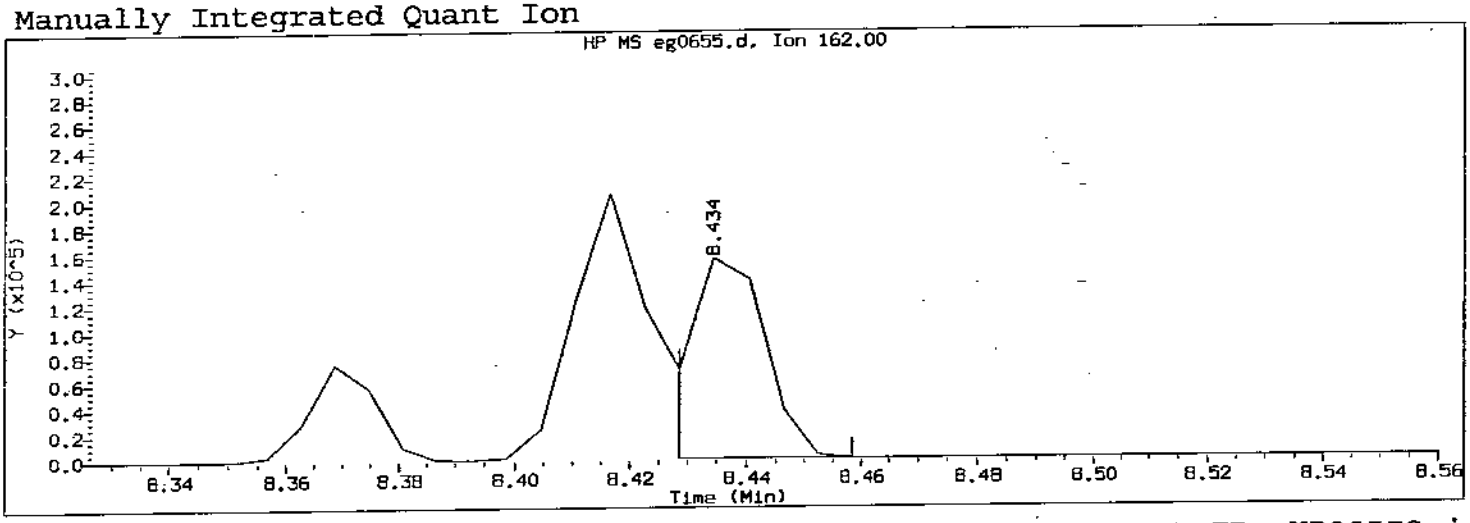
USF03 0479

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0655.d, generated on 07/19/2011 at 07:15

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0655.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:30 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD015 Lab Sample ID: STD1991

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1062
Retention Time (minutes)	:	8.434
Quant Ion	:	162
Area (flag)	:	144713 M
Concentration (ng/ul)	:	14.5115
Integration start scan	:	1060 Integration stop scan: 1065
Y at integration start	:	485 Y at integration end: 485

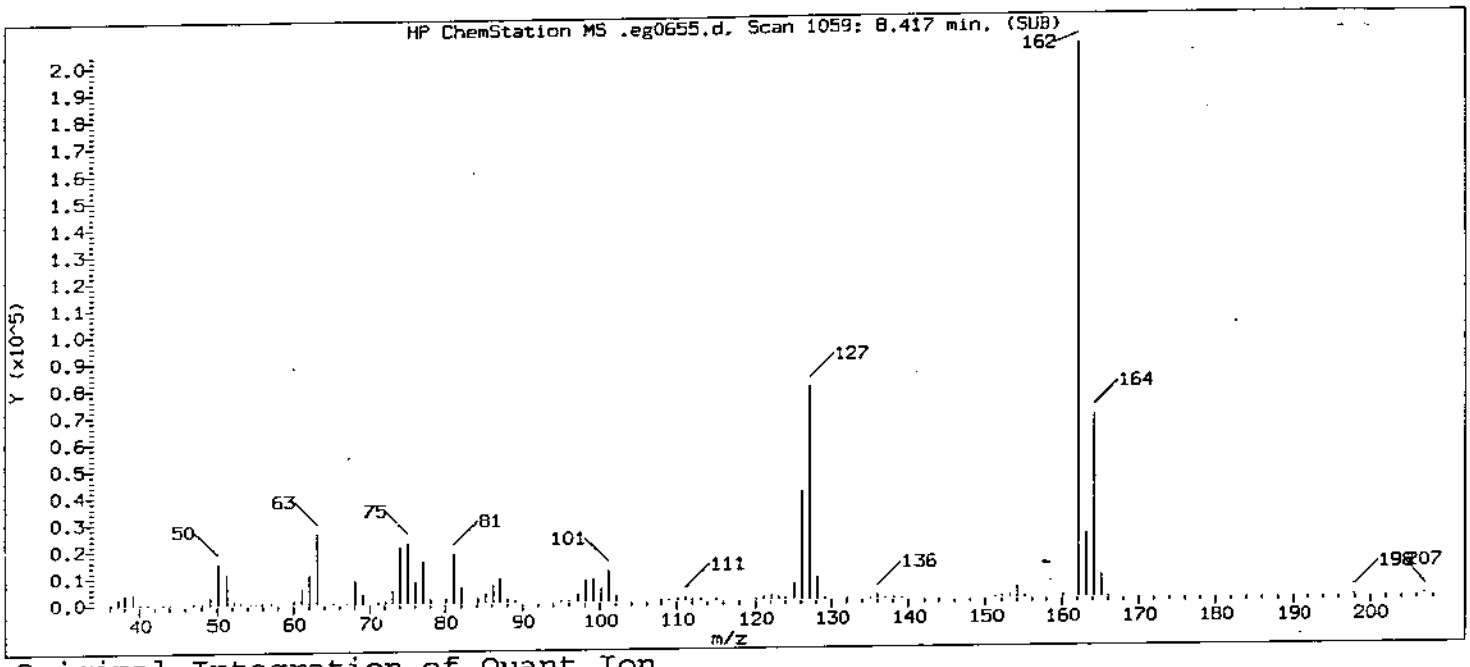
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MSL 2011 7/19/11

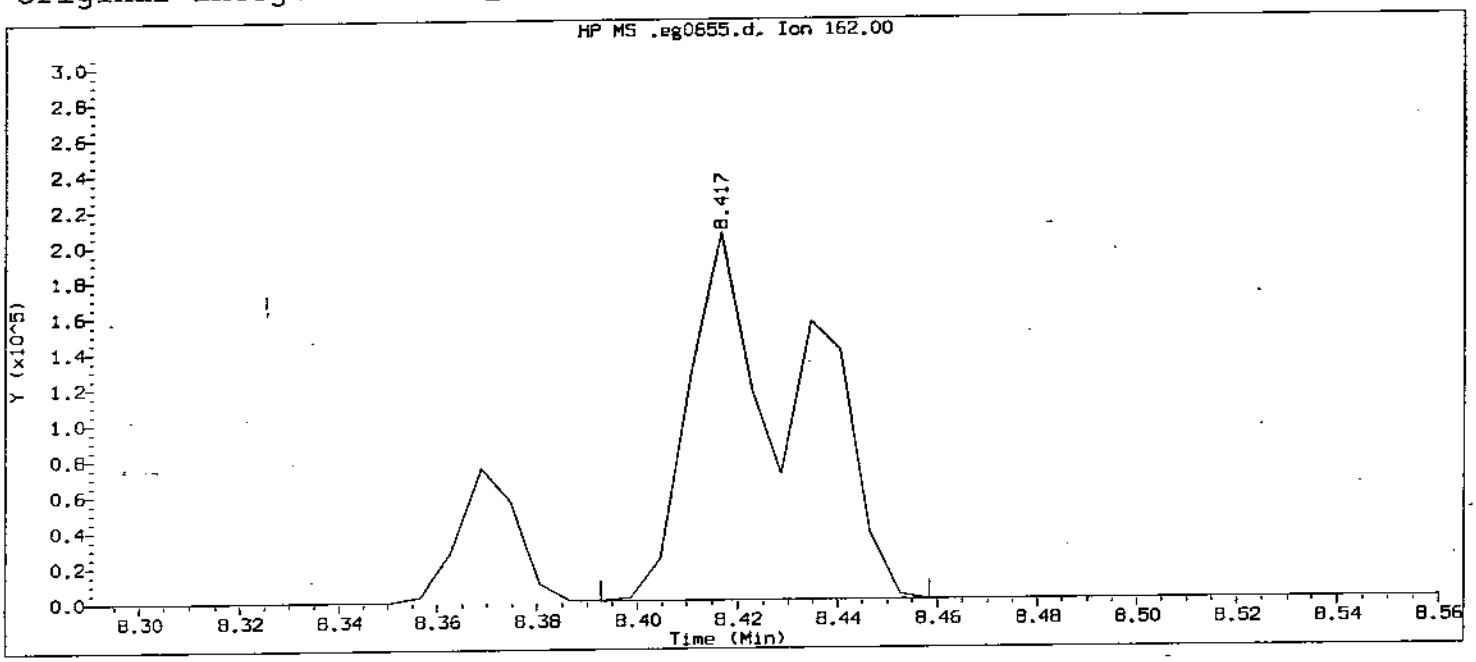
USF83 0479

GC/MS audit/management approval: Mark A. Ratcliff Senior Spec... JUL 1[illegible]

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0655.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:30 Analyst ID: rpb01568

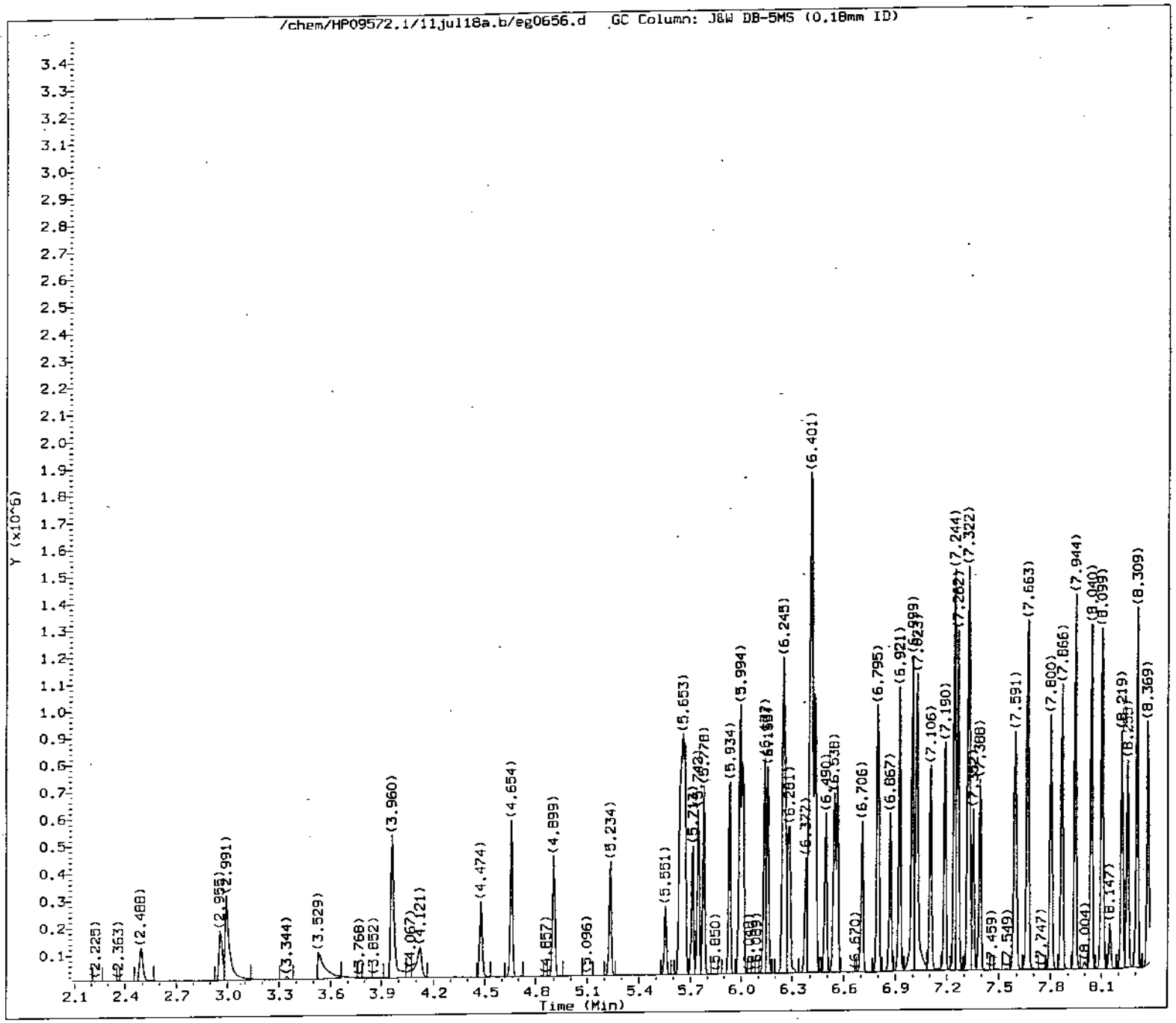
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:01
Date, time and analyst ID of latest file update: 19-Jul-2011 07:01 jmg00346

Sample Name: SSTD015 Lab Sample ID: STD1991

Compound Number	: 86
Compound Name	: 1-Chloronaphthalene
Scan Number	: 1059
Retention Time (minutes)	: 8.417
Quant Ion	: 162
Area	: 315819
Concentration (ng/ul)	: 20.0248
Integration start scan	: 1054 Integration stop scan: 1065
Y at integration start	: 95 Y at integration end: 0

USF03 8408

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0655.d, generated on 07/19/2011 at 07:15



Quant Report

Target Revision 3.5

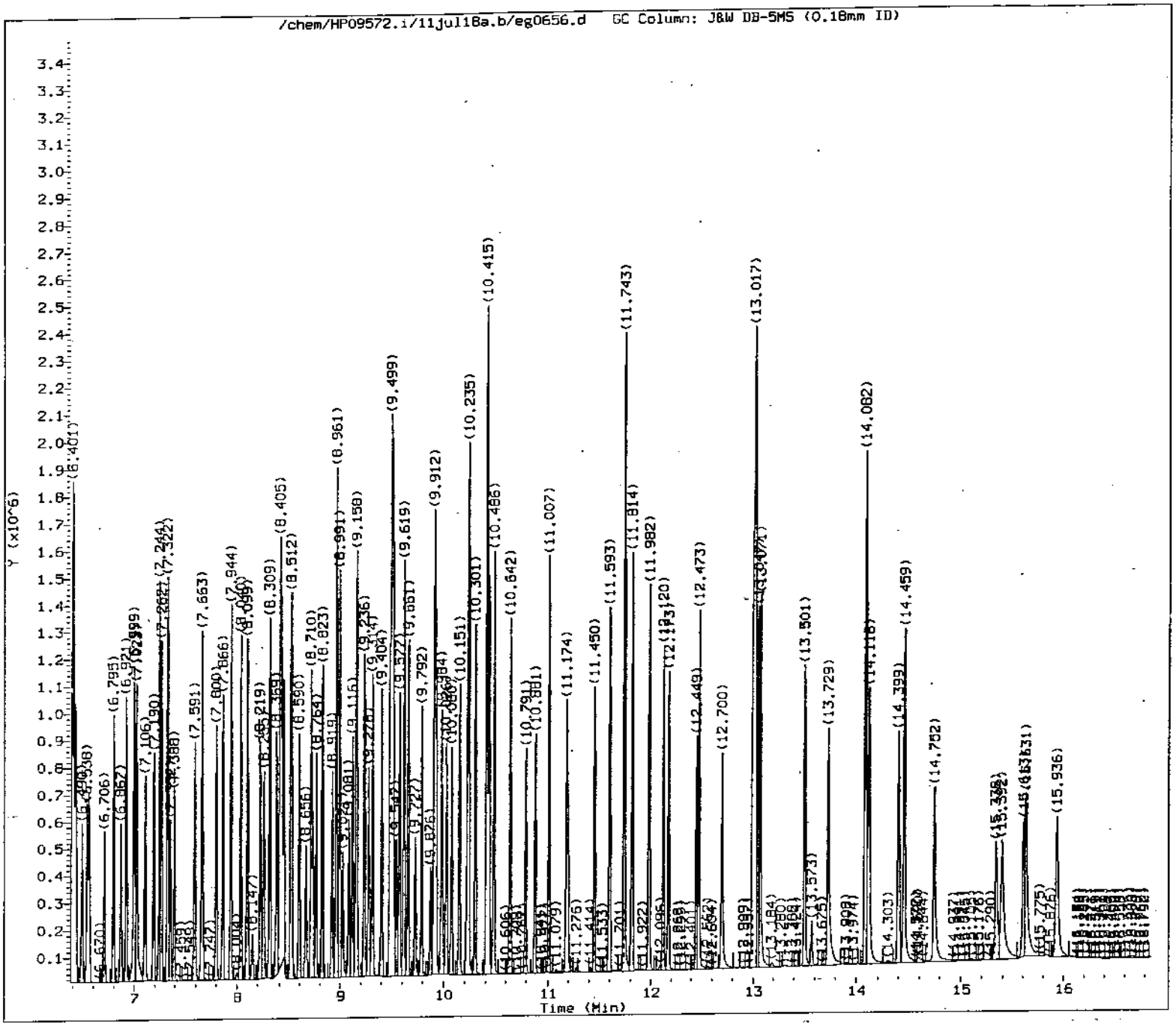
Data File: /chem/HP09572.i/11jul18a.b/eg0656.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:55 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1991

USF03 0481

MSV 7/19/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0656.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:55 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1991

05803 0402

MSA 7/19/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0656.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:55 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.488	88	57913	30.7611
3) N-Nitrosodimethylamine	(1)	2.955	74	99775	29.8997
4) Pyridine	(1)	2.991	79	175138	31.3625
6) 2-Picoline	(1)	3.960	93	169349	29.7939
2) N-Nitrosomethylethylamine	(1)	4.121	88	79006	29.7778
8) Methyl methanesulfonate	(1)	4.474	80	95485	30.0366
9) N-Nitrosodiethylamine	(1)	4.899	102	77323	30.3150
15) Ethyl methanesulfonate	(1)	5.234	109	78589	30.5995
22) Phenol	(1)	5.653	94	232229	29.8335
21) Aniline	(1)	5.665	93	267450	30.0825
33) Pentachloroethane	(1)	5.713	167	48060	29.8885
23) bis(2-Chloroethyl)ether	(1)	5.742	93	168199	29.6739
24) 2-Chlorophenol	(1)	5.778	128	144833	30.2628
26) 1,3-Dichlorobenzene	(1)	5.934	146	147174	30.1916
27) 1,4-Dichlorobenzene-d4	(1)	5.994	152	122857	40.0000
28) 1,4-Dichlorobenzene	(1)	6.012	146	151884	30.1525
31) Benzyl alcohol	(1)	6.137	108	106440	30.3272
32) 1,2-Dichlorobenzene	(1)	6.155	146	144085	30.1987
17) Indene	(1)	6.245	115	234764	29.2900
34) 2-Methylphenol	(1)	6.257	108	147425	30.2630
35) 2,2'-oxybis(1-Chloropropane)	(1)	6.281	45	262594	29.6596
36) bis(2-Chloroisopropyl)ether	(1)	6.281	45	262594	29.6539
30) N-Nitrosopyrrolidine	(1)	6.377	100	89219	30.2453
37) Acetophenone	(1)	6.395	105	230518	30.0749
38) N-Nitroso-di-n-propylamine	(1)	6.407	70	158706	30.1170
39) 4-Methylphenol	(1)	6.401	108	161512	28.5146
7) N-Nitrosomorpholine	(1)	6.418	56	128833	30.7288
40) o-Toluidine	(1)	6.430	106	258878	30.0324
41) Hexachloroethane	(1)	6.490	117	59863	29.9452
43) Nitrobenzene	(2)	6.556	77	208805	30.1300
18) N-Nitrosopiperidine	(2)	6.706	114	83536	30.6695
46) Isophorone	(2)	6.795	82	375339	30.4211
47) 2-Nitrophenol	(2)	6.867	139	84734	30.8383
48) 2,4-Dimethylphenol	(2)	6.921	107	170934	30.5830
93) O,O,O-triethylphosphorothioate	(2)	6.999	198	77898	30.3019
49) bis(2-Chloroethoxy)methane	(2)	7.023	93	220353	31.1051
50) Benzoic acid	(2)	7.029	105	189475	40.9490
51) 2,4-Dichlorophenol	(2)	7.106	162	127849	31.0016
52) 1,2,4-Trichlorobenzene	(2)	7.190	180	134427	29.8410
53) Naphthalene-d8	(2)	7.244	136	567249	40.0000
54) Naphthalene	(2)	7.262	128	455723	30.3259
56) 4-Chloroaniline	(2)	7.322	127	198446	30.3550
55) 2,6-Dichlorophenol	(2)	7.328	162	125787	30.4639

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0656.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:55 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44) Hexachloropropene	(2)	7.352	213	75361	30.3605
59) Hexachlorobutadiene	(2)	7.388	225	65295	30.0723
65) Quinoline	(2)	7.591	129	304722	30.7940
66) Caprolactam	(2)	7.669	113	62777	30.6516
5) N-Nitrosodi-n-butylamine	(2)	7.663	84	179972	33.9089
68) 4-Chloro-3-methylphenol	(2)	7.800	107	154460	30.7889
61) Safrole	(2)	7.866	162	120161	29.9659
64) cis-Isosafrole	(3)	8.147	162	20953	3.3566
69) 2-Methylnaphthalene	(2)	7.944	142	313725	30.3131
71) 1-Methylnaphthalene	(2)	8.040	142	298637	30.6852
72) Hexachlorocyclopentadiene	(3)	8.099	237	70637	30.3912
73) 1,2,4,5-Tetrachlorobenzene	(3)	8.105	216	134290	30.1676
62) trans-Isosafrole	(3)	8.369	162	125853	27.0881
76) 2,4,6-Trichlorophenol	(3)	8.219	196	93381	30.3457
77) 2,4,5-Trichlorophenol	(3)	8.255	196	105743	30.6905
63) Isosafrole	(3)	8.369	162	125853	30.4360
82) Biphenyl	(3)	8.405	154	393435	30.0339
83) Diphenyl	(3)	8.405	154	393435	30.0339
84) 1,1'-Biphenyl	(3)	8.405	154	393435	30.0339
85) 2-Chloronaphthalene	(3)	8.417	162	345174	28.7816
86) 1-Chloronaphthalene	(3)	8.440	162	278007	29.5316
87) Diphenyl ether	(3)	8.512	170	213288	30.4428
88) 2-Nitroaniline	(3)	8.518	138	110915	30.8853
60) 1,4-Naphthoquinone	(3)	8.590	158	131606	31.2998
57) 1,4-Dinitrobenzene	(3)	8.662	168	54754	30.3560
92) Dimethylphthalate	(3)	8.710	163	354108	30.2018
58) 1,3-Dinitrobenzene	(3)	8.728	168	64323	30.3769
98) 2,6-Dinitrotoluene	(3)	8.764	165	85594	30.3375
100) Acenaphthylene	(3)	8.823	152	466219	30.3759
102) 3-Nitroaniline	(3)	8.919	138	93479	31.2814
103) Acenaphthene-d10	(3)	8.961	164	361202	40.0000
106) Acenaphthene	(3)	8.991	153	308373	30.1014
107) 2,4-Dinitrophenol	(3)	9.027	184	57352	40.3913
110) Pentachlorobenzene	(3)	9.116	250	120972	30.7624
109) 4-Nitrophenol	(3)	9.081	109	52590	29.7406
112) Dibenzofuran	(3)	9.164	168	446474	30.4248
113) 2,4-Dinitrotoluene	(3)	9.152	165	113299	30.4465
114) 1-Naphthylamine	(3)	9.236	143	345037	30.7876
115) 2,3,4,6-Tetrachlorophenol	(3)	9.278	232	80662	30.2570
117) 2-Naphthylamine	(3)	9.314	143	351386	31.0088
118) Diethylphthalate	(3)	9.404	149	348922	30.5035
119) Fluorene	(3)	9.493	166	370130	29.6818
29) Thionazin	(3)	9.481	107	63312	29.4320

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0656.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:55 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	9.505	204	176093	29.9684
70)	5-Nitro-o-toluidine	(3)	9.511	152	111438	29.9229
121)	4-Nitroaniline	(3)	9.517	138	103710	31.1235
122)	4,6-Dinitro-2-methylphenol	(4)	9.547	198	57903	30.3897
67)	1-Nitronaphthalene	(4)	9.577	173	72098	29.9635
123)	N-Nitrosodiphenylamine	(4)	9.619	169	318115	30.6145
124)	NDPA as diphenylamine	(4)	9.619	169	317828	30.6016
125)	1,2-Diphenylhydrazine	(4)	9.661	77	479963	30.3886
108)	Tetraethyldithiopyrophosphate	(4)	9.786	97	66023	30.7319
81)	1,3,5-Trinitrobenzene	(4)	9.882	213	37223	30.1023
78)	Diallate (peak 1)	(4)	9.906	86	166901	22.9234
75)	Phorate	(4)	9.918	75	293694	30.4035
80)	Phenacetin	(4)	9.930	108	199066	30.8608
131)	4-Bromophenyl-phenylether	(4)	9.984	248	97469	31.0868
13)	Diallate (peak 2)	(4)	9.996	86	31923	7.3110
132)	Hexachlorobenzene	(4)	10.026	284	96257	30.7446
96)	Dimethoate	(4)	10.080	87	153079	31.1480
135)	Pentachlorophenol	(4)	10.223	266	86805	40.6930
136)	Pentachloronitrobenzene	(4)	10.235	237	40055	30.5736
105)	4-Aminobiphenyl	(4)	10.235	169	360576	31.5394
97)	Pronamide	(4)	10.301	173	158257	30.4945
140)	Phenanthrene-d10	(4)	10.415	188	624786	40.0000
141)	Phenanthrene	(4)	10.433	178	515502	30.2754
137)	Dinoseb	(4)	10.415	211	81316	30.5774
143)	Anthracene	(4)	10.486	178	525330	30.4046
145)	Carbazole	(4)	10.642	167	496291	30.6708
149)	Methyl parathion	(4)	10.791	109	119578	31.7509
148)	Di-n-butylphthalate	(4)	11.007	149	584242	30.6178
150)	Parathion	(4)	11.174	109	76734	30.8646
133)	4-Nitroquinoline-1-oxide	(4)	11.192	190	46917	32.7924
99)	Isodrin	(4)	11.450	193	57918	31.2807
153)	Fluoranthene	(4)	11.599	202	525202	30.5349
154)	Benzidine	(5)	11.743	184	883306	98.1787
155)	Pyrene	(5)	11.814	202	566735	30.7855
147)	p-Dimethylaminoazobenzene	(5)	12.120	225	112267	31.2967
144)	Chlorobenzilate	(5)	12.173	139	172171	30.7410
161)	3,3'-Dimethylbenzidine	(5)	12.449	212	258398	32.7056
162)	Butylbenzylphthalate	(5)	12.473	149	253539	30.9272
101)	2-Acetylaminofluorene	(5)	12.700	181	204154	30.4494
165)	3,3'-Dichlorobenzidine	(5)	12.987	252	179714	31.5722
164)	Benzo(a)anthracene	(5)	13.011	228	493464	30.7661
167)	4,4'-Methylenebis(2-Chloroanil	(5)	12.999	231	93505	31.1021
166)	Chrysene-d12	(5)	13.017	240	582778	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0656.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:55 Analyst ID: rpb01568

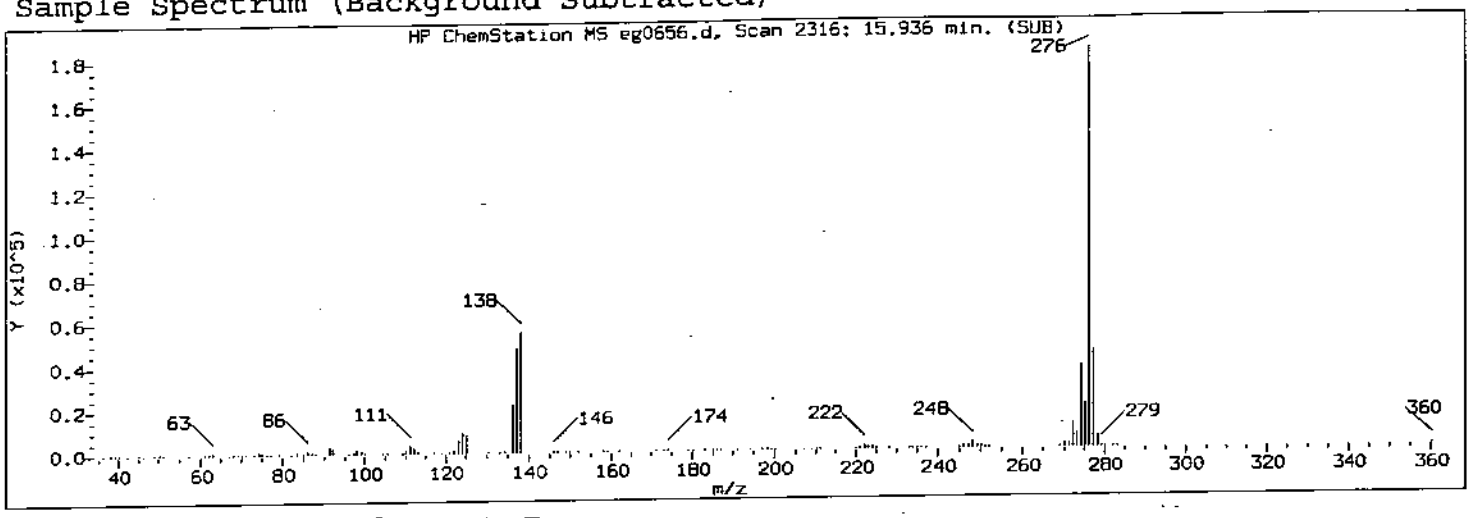
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1991

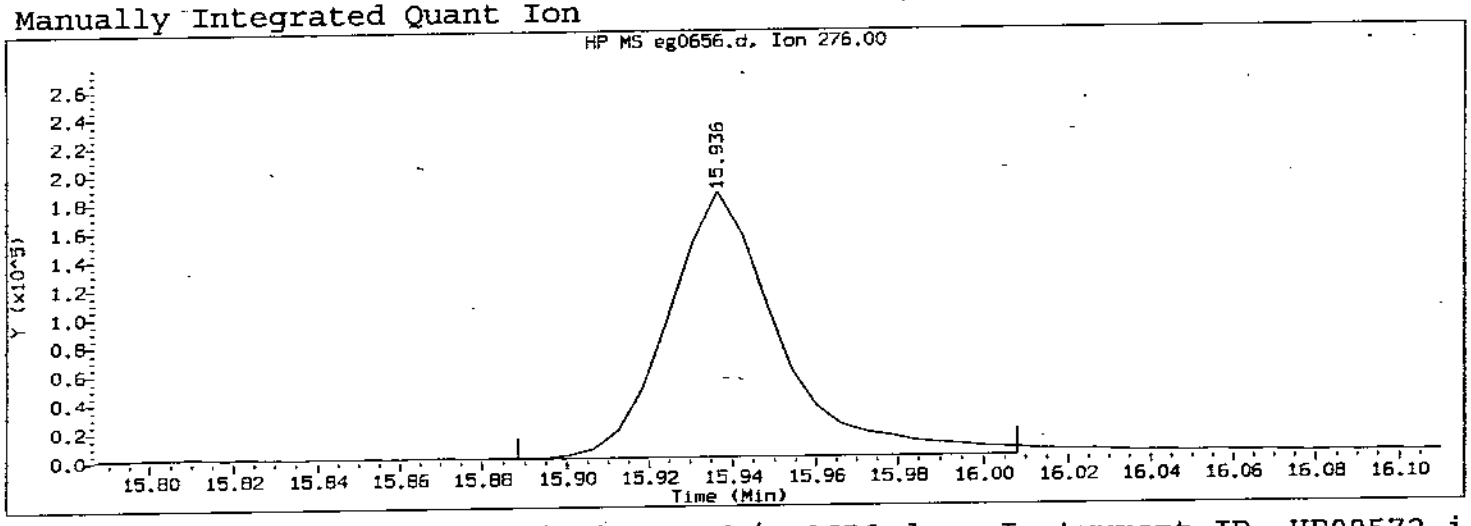
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168) Chrysene	(5)	13.047	228	481609	30.5604
169) bis(2-Ethylhexyl)phthalate	(5)	13.071	149	335110	30.2630
170) 6-Methylchrysene	(5)	13.501	242	335690	30.4626
172) Di-n-octylphthalate	(6)	13.729	149	490383	29.9538
174) 7,12-Dimethylbenz[a]anthracene	(6)	14.082	256	225272	30.3632
173) Benzo(b)fluoranthene	(6)	14.088	252	411230	28.9745
175) Benzo(k)fluoranthene	(6)	14.118	252	483020	30.5262
176) Benzo(a)pyrene	(6)	14.399	252	406247	29.9785
177) Perylene-d12	(6)	14.459	264	514833	40.0000
180) 3-Methylcholanthrene	(6)	14.752	268	214173	30.2102
181) Dibenz(a,h)acridine	(6)	15.338	279	244687	29.6023
183) Dibenz(a,j)acridine	(6)	15.398	279	348422	29.0667
185) Indeno(1,2,3-cd)pyrene	(6)	15.607	276	417941	29.8425
187) Dibenz(a,h)anthracene	(6)	15.631	278	346521	29.3453
188) Benzo(g,h,i)perylene	(6)	15.936	276	341171M	29.0247
194) Diallate TRANS/CIS	(4)	23.556	86	198824	30.2344
11) 2-Fluorophenol	(1)	4.654	112	134020	30.0884
19) Phenol-d5	(1)	5.635	99	192516	30.2718
20) Phenol-d6	(1)	5.635	99	192516	30.2718
42) Nitrobenzene-d5	(2)	6.538	82	201570	30.6909
79) 2-Fluorobiphenyl	(3)	8.309	172	344215	30.2443
126) 2,4,6-Tribromophenol	(3)	9.727	330	40726	30.2568
157) Terphenyl-d14	(5)	11.982	244	372726	30.6453

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0656.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:55 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:15
Date, time and analyst ID of latest file update: 19-Jul-2011 07:15 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1991

Compound Number	:	188
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	2316
Retention Time (minutes)	:	15.936
Quant Ion	:	276
Area (flag)	:	341171 M
Concentration (ng/ul)	:	29.0247
Integration start scan	:	2307 Integration stop scan: 2327
Y at integration start	:	610 Y at integration end: 610

Reason for manual integration (circle one): missed peak ~~improper integration~~

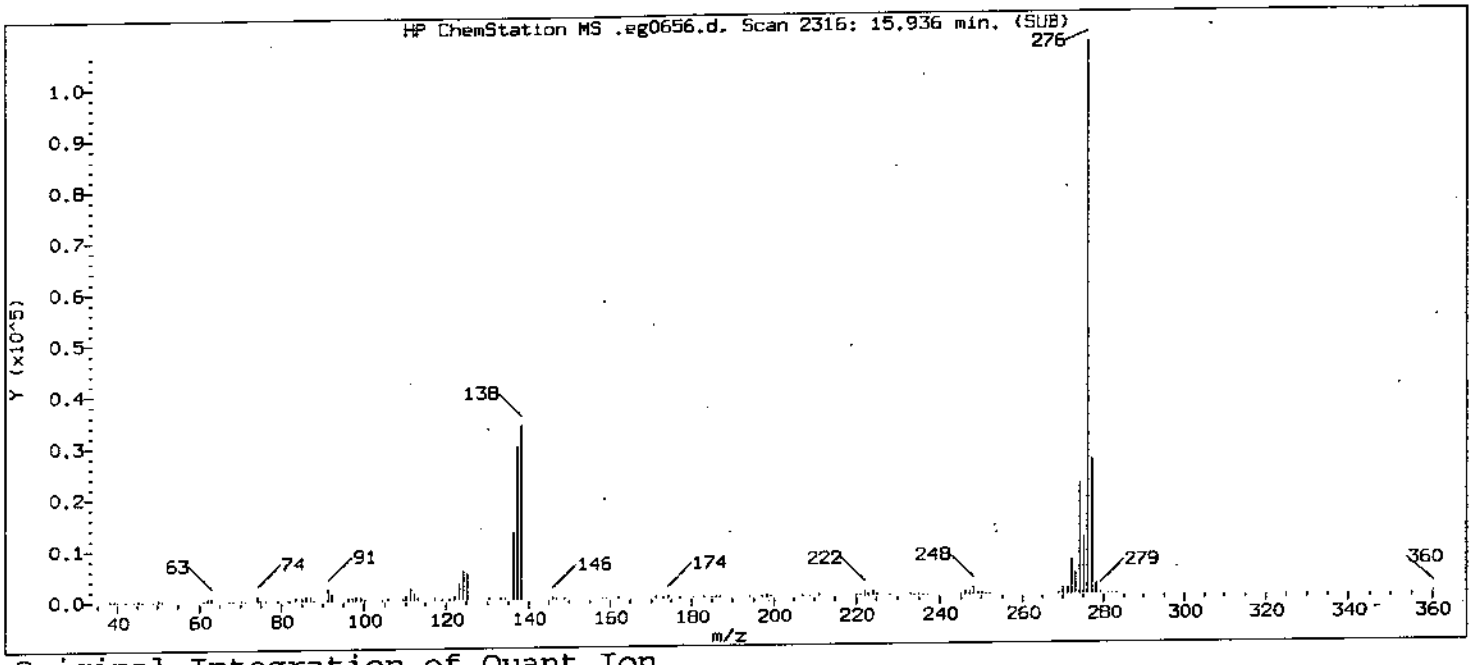
Analyst responsible for change: MG-JUL 7/19/11

USF03 0487

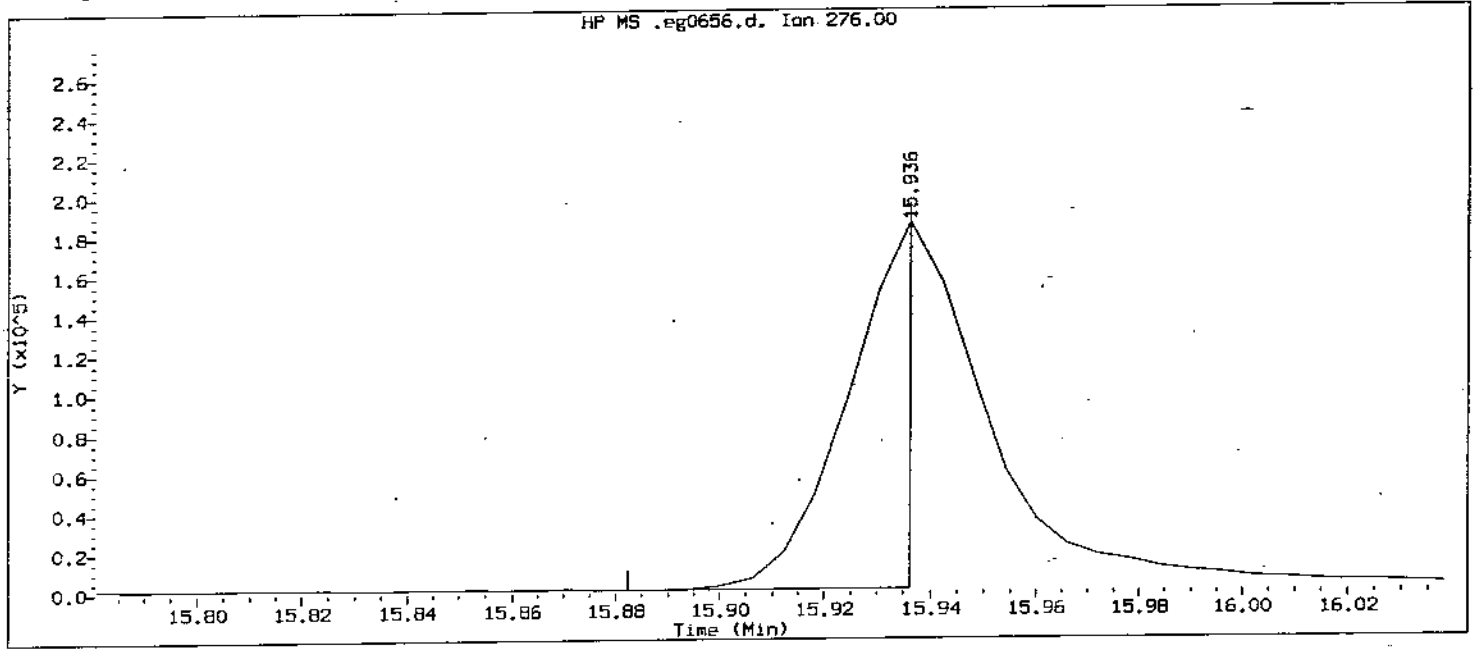
GC/MS audit/management approval: Mark A. Ratcliff
Senior Specialist

JUL 19 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0656.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 02:55 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 07:01
Date, time and analyst ID of latest file update: 19-Jul-2011 07:01 jmg00346

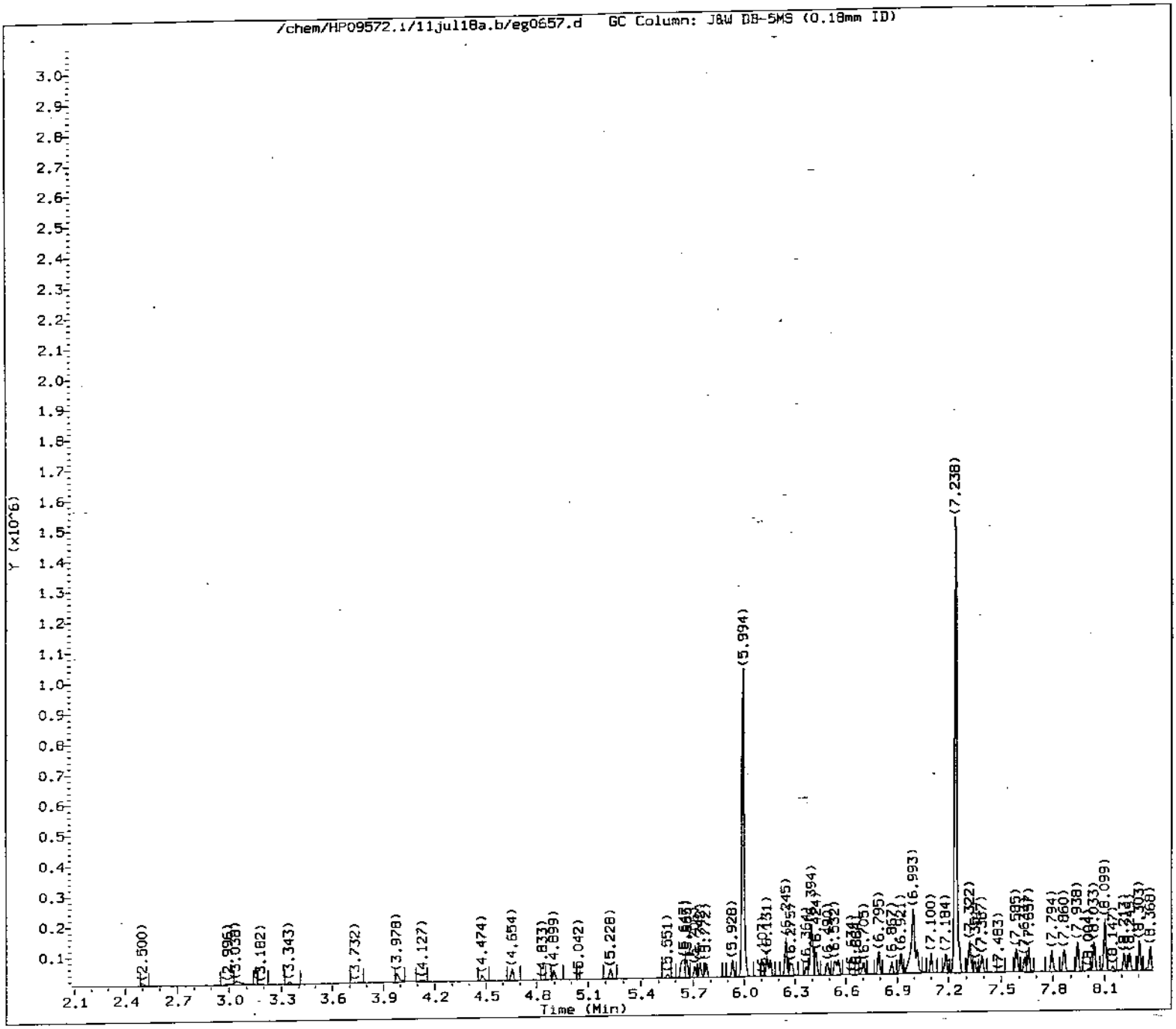
Sample Name: SSTD030 Lab Sample ID: STD1991

Compound Number	:	188
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	2316
Retention Time (minutes)	:	15.936
Quant Ion	:	276
Area	:	147924
Concentration (ng/ul)	:	13.5403
Integration start scan	:	2306
Y at integration start	:	692

Integration stop scan: 2315
Y at integration end: 692

USF03 0488

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0656.d, generated on 07/19/2011 at 07:15



Quant Report

Target Revision 3.5

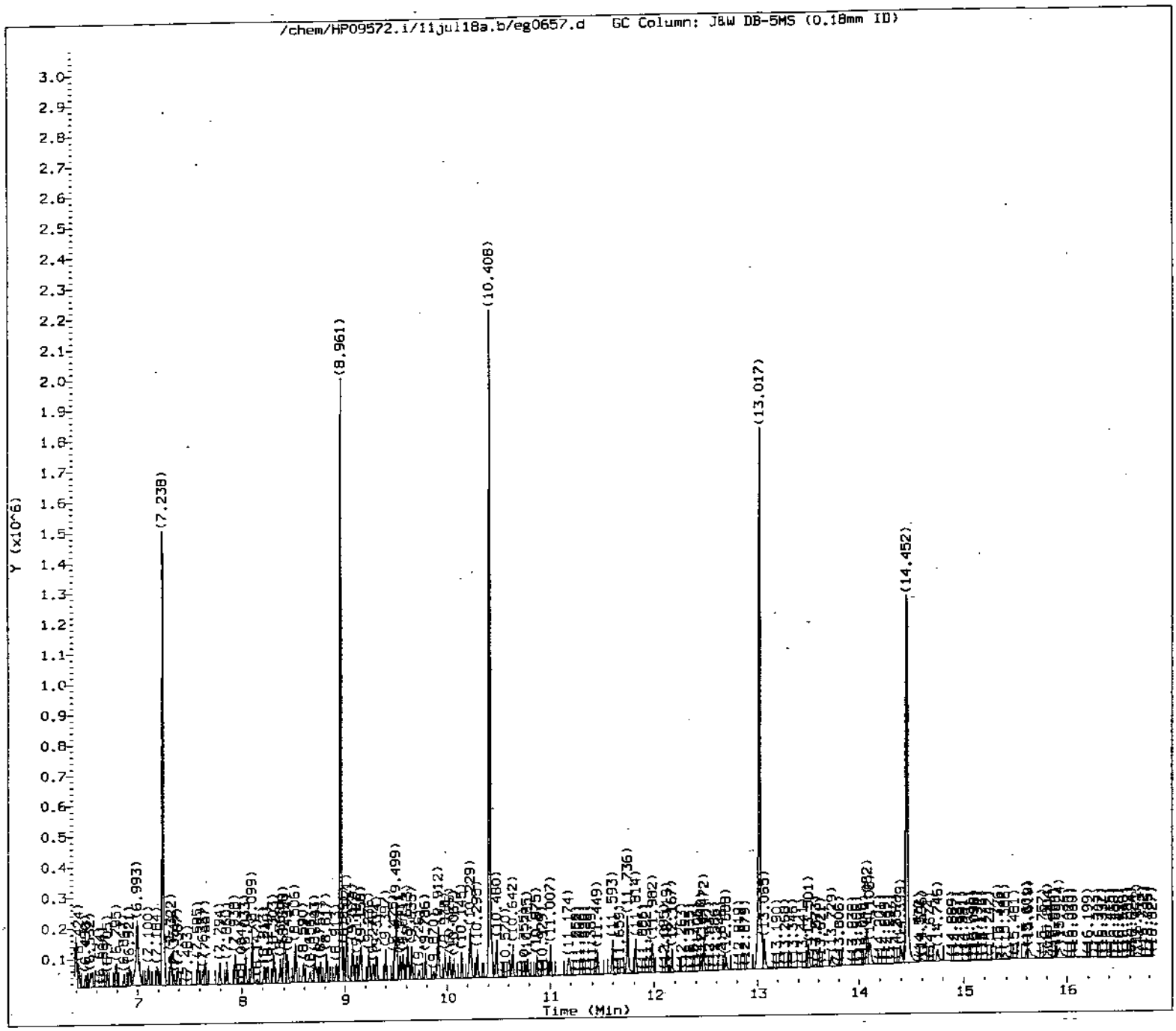
Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:31 msw02109

Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

MSW 2.39 7/19/11

USF03 8409



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0657.d
Injection date and time: 19-JUL-2011 03:21

Instrument ID: HP09572.i
Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m
Calibration date and time: 19-JUL-2011 08:24

Sublist used: all1

Date, time and analyst ID of latest file update: 19-Jul-2011 08:31 msw02109

Sample Name: SSTD001

Lab Sample ID: 8270MDL1991

USF03 8498

msw 2109 7/19/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:31 msw02109

Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.500	88	4194	2.1250
3)	N-Nitrosodimethylamine	(1)	2.996	74	5855	1.6737
4)	Pyridine	(1)	3.044	79	10435	1.7825
6)	2-Picoline	(1)	3.978	93	12845	2.1557
2)	N-Nitrosomethylethylamine	(1)	4.127	88	6413	2.3057
8)	Methyl methanesulfonate	(1)	4.474	80	7205	2.1620
9)	N-Nitrosodiethylamine	(1)	4.899	102	5576	2.0854
15)	Ethyl methanesulfonate	(1)	5.228	109	6335	2.3529
22)	Phenol	(1)	5.647	94	16644	2.0397
21)	Aniline	(1)	5.665	93	19131	2.0527
33)	Pentachloroethane	(1)	5.712	167	3422	2.0301
23)	bis(2-Chloroethyl)ether	(1)	5.742	93	12433	2.0924
24)	2-Chlorophenol	(1)	5.772	128	10485	2.0899
26)	1,3-Dichlorobenzene	(1)	5.928	146	10866	2.1264
27)	1,4-Dichlorobenzene-d4	(1)	5.994	152	128792	40.0000
28)	1,4-Dichlorobenzene	(1)	6.005	146	11098	2.1017
31)	Benzyl alcohol	(1)	6.131	108	7702	2.0934
32)	1,2-Dichlorobenzene	(1)	6.155	146	10874	2.1740
17)	Indene	(1)	6.245	115	18138	2.1587
34)	2-Methylphenol	(1)	6.245	108	10259	2.0089
35)	2,2'-oxybis(1-Chloropropane)	(1)	6.275	45	20981	2.2606
36)	bis(2-Chloroisopropyl)ether	(1)	6.275	45	20981	2.2601
30)	N-Nitrosopyrrolidine	(1)	6.364	100	6308	2.0399
37)	Acetophenone	(1)	6.388	105	17963	2.2356
38)	N-Nitroso-di-n-propylamine	(1)	6.394	70	11906	2.1552
39)	4-Methylphenol	(1)	6.400	108	12658	2.1318
7)	N-Nitrosomorpholine	(1)	6.412	56	9509	2.1635
40)	o-Toluidine	(1)	6.424	106	19022	2.1050
41)	Hexachloroethane	(1)	6.484	117	4190	1.9994
43)	Nitrobenzene	(2)	6.556	77	16038	2.1289
18)	N-Nitrosopiperidine	(2)	6.705	114	6216	2.0994
46)	Isophorone	(2)	6.795	82	28588	2.1315
47)	2-Nitrophenol	(2)	6.867	139	5289	1.7708
48)	2,4-Dimethylphenol	(2)	6.921	107	12156	2.0008
93)	O,O,O-triethylphosphorothioate	(2)	6.993	198	5516	1.9739
49)	bis(2-Chloroethoxy)methane	(2)	7.016	93	15670	2.0349
50)	Benzoic acid	(2)	6.999	105	71962	14.3070
51)	2,4-Dichlorophenol	(2)	7.100	162	9710	2.1660
52)	1,2,4-Trichlorobenzene	(2)	7.184	180	10307	2.1048
53)	Naphthalene-d8	(2)	7.238	136	616623	40.0000
54)	Naphthalene	(2)	7.262	128	35436	2.1693
56)	4-Chloroaniline	(2)	7.316	127	14453	2.0338
55)	2,6-Dichlorophenol	(2)	7.322	162	9441	2.1034

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:31 msw02109

Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	7.351	213	5078	1.8820
59)	Hexachlorobutadiene	(2)	7.387	225	4578	1.9396
65)	Quinoline	(2)	7.585	129	23306	2.1666
66)	Caprolactam	(2)	7.633	113	4642	2.0850
5)	N-Nitrosodi-n-butylamine	(2)	7.657	84	10918	1.8924
68)	4-Chloro-3-methylphenol	(2)	7.794	107	11197	2.0532
61)	Safrole	(2)	7.860	162	8842	2.0285
64)	cis-Isosafrole	(3)	8.147	162	1506	0.2145
69)	2-Methylnaphthalene	(2)	7.938	142	23530	2.0915
71)	1-Methylnaphthalene	(2)	8.033	142	22765	2.1518
72)	Hexachlorocyclopentadiene	(3)	8.099	237	13872	8.8531
73)	1,2,4,5-Tetrachlorobenzene	(3)	8.105	216	10679	2.1325
62)	trans-Isosafrole	(3)	8.368	162	9166	1.7537
76)	2,4,6-Trichlorophenol	(3)	8.219	196	6092	1.7598
77)	2,4,5-Trichlorophenol	(3)	8.249	196	7715	1.9905
63)	Isosafrole	(3)	8.368	162	9166	1.9705
82)	Biphenyl	(3)	8.398	154	31582	2.1431
83)	Diphenyl	(3)	8.398	154	31582	2.1431
84)	1,1'-Biphenyl	(3)	8.398	154	31582	2.1431
85)	2-Chloronaphthalene	(3)	8.416	162	31091M	2.3045
86)	1-Chloronaphthalene	(3)	8.434	162	20926M	1.9761
87)	Diphenyl ether	(3)	8.506	170	17019	2.1593
88)	2-Nitroaniline	(3)	8.512	138	7852	1.9436
60)	1,4-Naphthoquinone	(3)	8.590	158	8494	1.7957
57)	1,4-Dinitrobenzene	(3)	8.656	168	3051	1.5036
92)	Dimethylphthalate	(3)	8.703	163	27654	2.0966
58)	1,3-Dinitrobenzene	(3)	8.727	168	4153	1.7434
98)	2,6-Dinitrotoluene	(3)	8.757	165	6080	1.9156
100)	Acenaphthylene	(3)	8.817	152	34860	2.0190
102)	3-Nitroaniline	(3)	8.913	138	6409	1.9065
103)	Acenaphthene-d10	(3)	8.961	164	406337	40.0000
106)	Acenaphthene	(3)	8.991	153	25203	2.1869
107)	2,4-Dinitrophenol	(3)	9.021	184	19597	17.9720
110)	Pentachlorobenzene	(3)	9.116	250	9784	2.2116
109)	4-Nitrophenol	(3)	9.074	109	11115	5.5875
112)	Dibenzofuran	(3)	9.158	168	36986	2.2404
113)	2,4-Dinitrotoluene	(3)	9.146	165	8013	1.9141
114)	1-Naphthylamine	(3)	9.236	143	26187	2.0771
115)	2,3,4,6-Tetrachlorophenol	(3)	9.278	232	6101	2.0343
117)	2-Naphthylamine	(3)	9.314	143	26404	2.0713
118)	Diethylphthalate	(3)	9.397	149	26432	2.0541
119)	Fluorene	(3)	9.493	166	28543	2.0347
29)	Thionazin	(3)	9.475	107	4823	1.9930

M = Compound was manually integrated. A = User selected an alternate hit

USF03 8492

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:31 msw02109

Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	9.505	204	14425	2.1822
70)	5-Nitro-o-toluidine	(3)	9.505	152	8660	2.0671
121)	4-Nitroaniline	(3)	9.505	138	7671	2.0464
122)	4,6-Dinitro-2-methylphenol	(4)	9.541	198	9229	8.2707
67)	1-Nitronaphthalene	(4)	9.571	173	5542	2.0356
123)	N-Nitrosodiphenylamine	(4)	9.613	169	24990	2.1255
124)	NDPA as diphenylamine	(4)	9.613	169	24990	2.1265
125)	1,2-Diphenylhydrazine	(4)	9.655	77	37789	2.1146
108)	Tetraethyldithiopyrophosphate	(4)	9.786	97	4858	1.9985
81)	1,3,5-Trinitrobenzene	(4)	9.870	213	1756	5.8169
78)	Diallate (peak 1)	(4)	9.906	86	12272	1.4897
75)	Phorate	(4)	9.912	75	21298	1.9486
80)	Phenacetin	(4)	9.918	108	13934	1.9091
131)	4-Bromophenyl-phenylether	(4)	9.978	248	6535	1.8421
13)	Diallate (peak 2)	(4)	9.990	86	2656	0.5376
132)	Hexachlorobenzene	(4)	10.026	284	7990	2.2555
96)	Dimethoate	(4)	10.067	87	10753	1.9337
135)	Pentachlorophenol	(4)	10.223	266	11679	4.8388
136)	Pentachloronitrobenzene	(4)	10.235	237	2971	2.0042
105)	4-Aminobiphenyl	(4)	10.229	169	27504	2.1262
97)	Pronamide	(4)	10.295	173	10500	1.7881
140)	Phenanthrene-d10	(4)	10.408	188	706931	40.0000
141)	Phenanthrene	(4)	10.432	178	41538	2.1561
137)	Dinoseb	(4)	10.408	211	3746	5.8163
143)	Anthracene	(4)	10.480	178	40532	2.0733
145)	Carbazole	(4)	10.642	167	37473	2.0467
149)	Methyl parathion	(4)	10.785	109	7549	1.7715
148)	Di-n-butylphthalate	(4)	11.007	149	40975	1.8978
150)	Parathion	(4)	11.174	109	4259	1.5140
133)	4-Nitroquinoline-1-oxide	(4)	11.186	190	1444	4.0364
99)	Isodrin	(4)	11.449	193	4591	2.1914
153)	Fluoranthene	(4)	11.593	202	37855	1.9451
154)	Benzidine	(5)	11.736	184	80302	11.2729
155)	Pyrene	(5)	11.814	202	43036	2.2343
147)	p-Dimethylaminoazobenzene	(5)	12.119	225	7004	1.8661
144)	Chlorobenzilate	(5)	12.167	139	11880	2.0273
161)	3,3'-Dimethylbenzidine	(5)	12.448	212	12032	3.8605
162)	Butylbenzylphthalate	(5)	12.472	149	17039	1.9865
101)	2-Acetylaminofluorene	(5)	12.688	181	10776	1.5361
165)	3,3'-Dichlorobenzidine	(5)	12.987	252	10884	1.8275
164)	Benzo(a)anthracene	(5)	13.005	228	37002	2.2049
167)	4,4'-Methylenebis(2-Chloroanil	(5)	12.993	231	4575M	1.4544
166)	Chrysene-d12	(5)	13.017	240	609756	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0493

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:31 msw02109

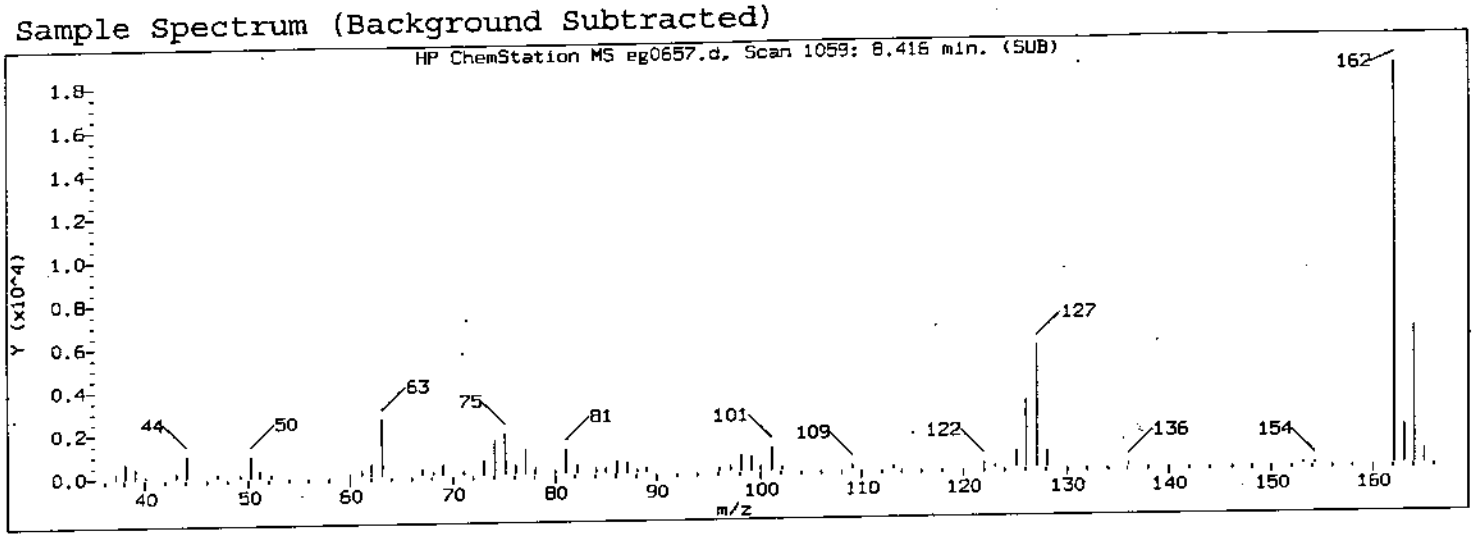
Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168) Chrysene	(5)	13.041	228	37723	2.2878
169) bis(2-Ethylhexyl)phthalate	(5)	13.065	149	22199	1.9160
170) 6-Methylchrysene	(5)	13.501	242	22708	1.9695
172) Di-n-octylphthalate	(6)	13.729	149	21998	4.9412
174) 7,12-Dimethylbenz[a]anthracene	(6)	14.076	256	13335	1.7257
173) Benzo(b)fluoranthene	(6)	14.082	252	26324	1.7808
175) Benzo(k)fluoranthene	(6)	14.105	252	35970	2.1826
176) Benzo(a)pyrene	(6)	14.399	252	30718	2.1764
177) Perylene-d12	(6)	14.458	264	536208	40.0000
180) 3-Methylcholanthrene	(6)	14.746	268	13511	1.8298
181) Dibenz(a,h)acridine	(6)	15.332	279	12952	5.7829
183) Dibenz(a,j)acridine	(6)	15.386	279	21059	1.6868
185) Indeno(1,2,3-cd)pyrene	(6)	15.595	276	27602	1.8923
187) Dibenz(a,h)anthracene	(6)	15.625	278	23535	1.9136
188) Benzo(g,h,i)perylene	(6)	15.924	276	26459	2.1612
194) Diallate TRANS/CIS	(4)	23.556	86	14928	2.0273
11) 2-Fluorophenol	(1)	4.654	112	9997	2.1410
19) Phenol-d5	(1)	5.635	99	13935	2.0902
20) Phenol-d6	(1)	5.635	99	13935	2.0902
42) Nitrobenzene-d5	(2)	6.532	82	14933	2.0916
79) 2-Fluorobiphenyl	(3)	8.303	172	27178	2.1227
126) 2,4,6-Tribromophenol	(3)	9.726	330	2730	1.8029
157) Terphenyl-d14	(5)	11.982	244	28572	2.2452

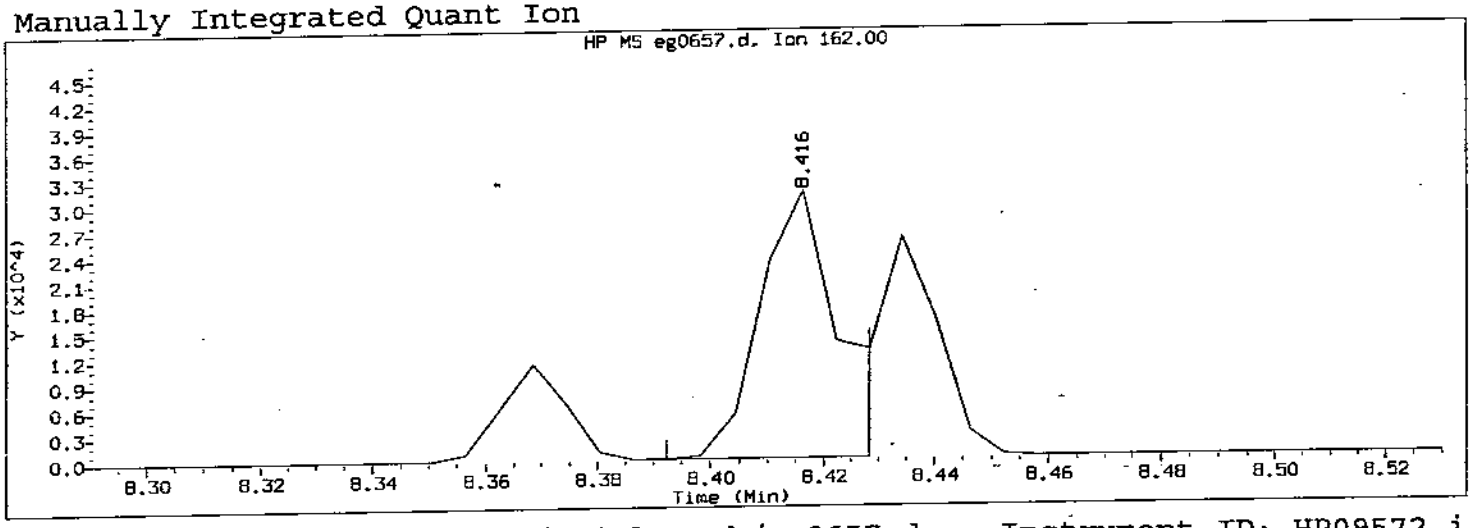
M = Compound was manually integrated. A = User selected an alternate hit

USF03 8494

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:31 msw02109

Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

Compound Number	: 85
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1059
Retention Time (minutes)	: 8.416
Quant Ion	: 162
Area (flag)	: 31091 M
Concentration (ng/ul)	: 2.3045
Integration start scan	: 1054 Integration stop scan: 1060
Y at integration start	: 0 Y at integration end: 0

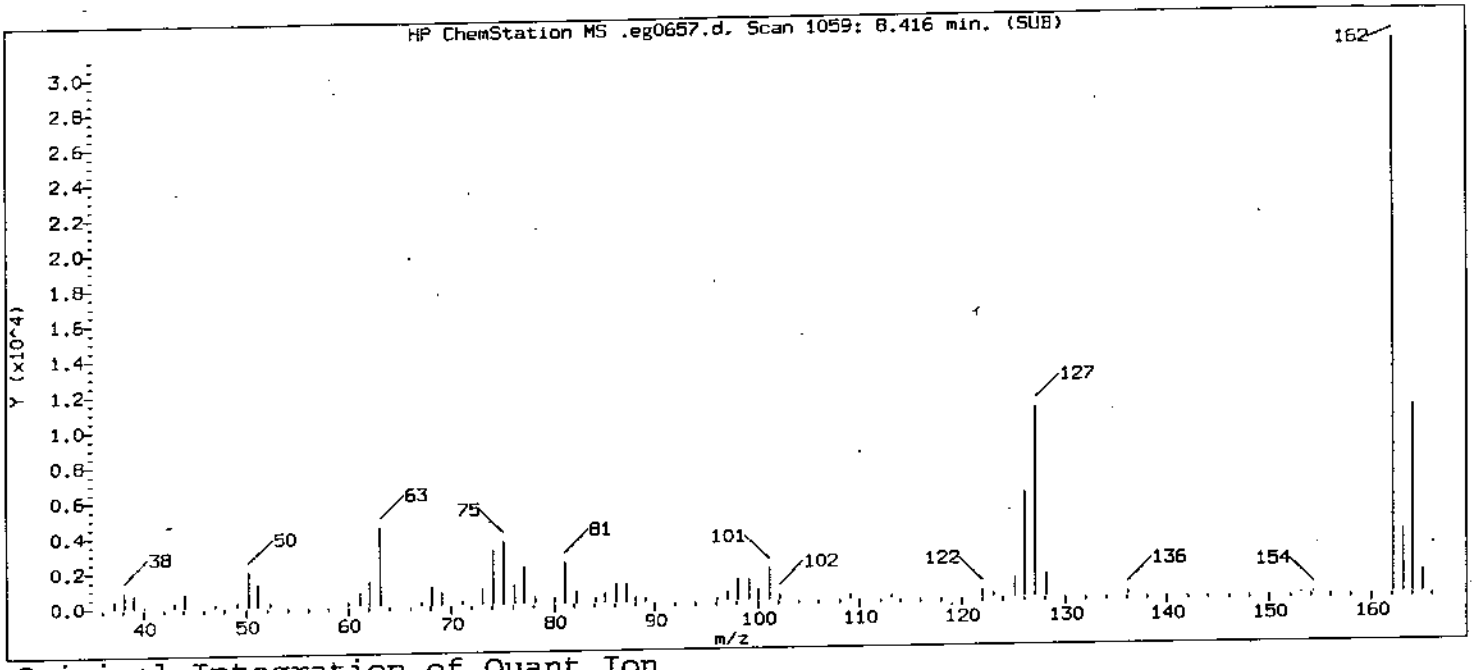
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MSW 7/19/11
Mark A. Ratcliff
Senior Specialist

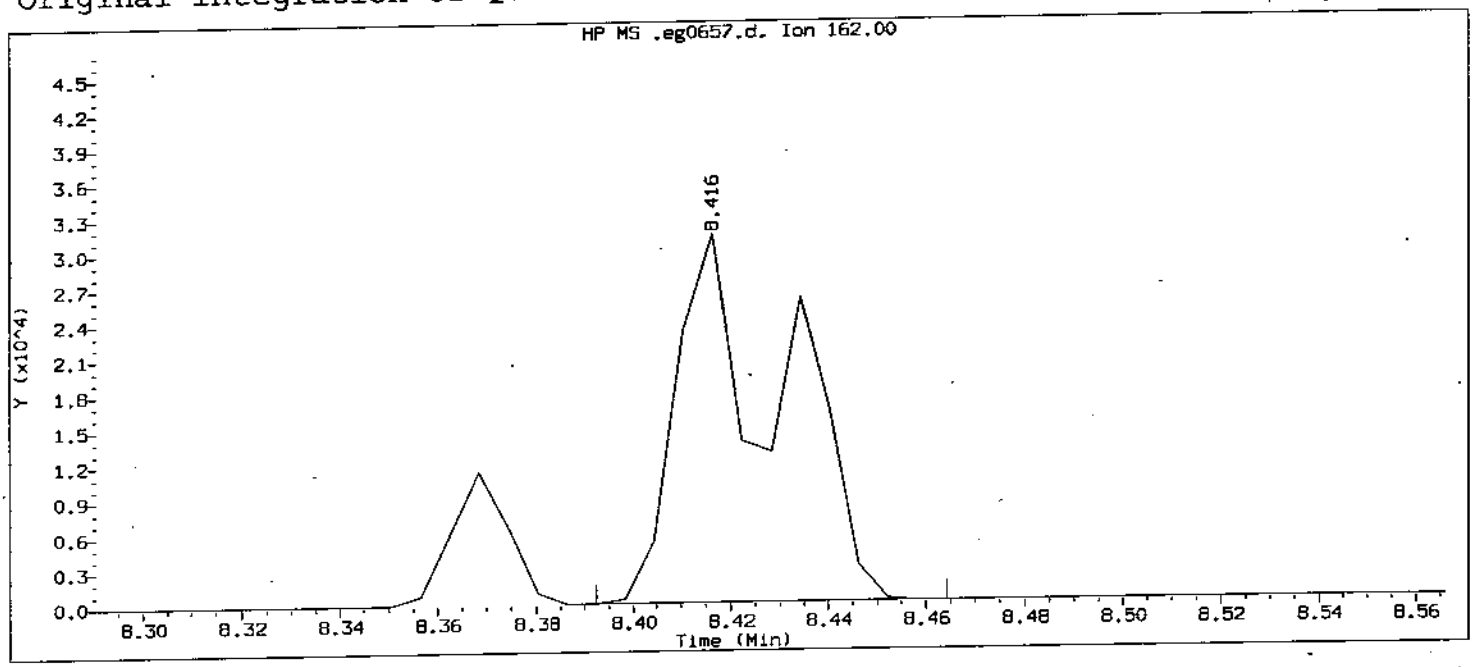
USF03 8495

GC/MS audit/management approval: JUL 19 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:27 msw02109

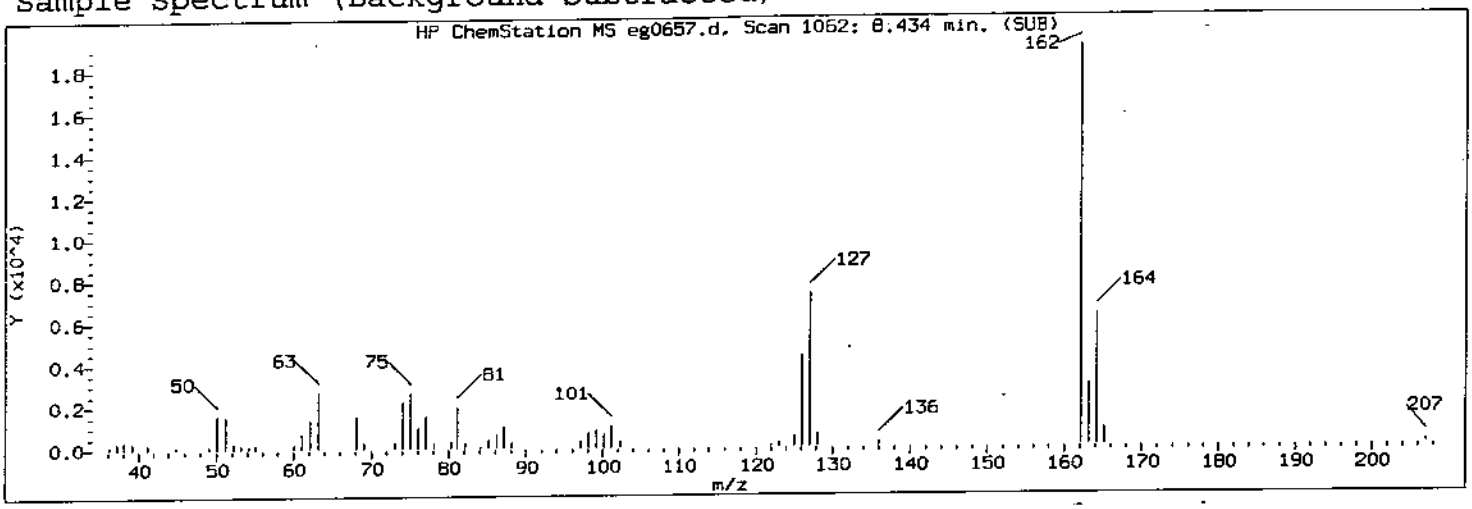
Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

Compound Number	: 85
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1059
Retention Time (minutes)	: 8.416
Quant Ion	: 162
Area	: 47428
Concentration (ng/ul)	: 3.5155
Integration start scan	: 1054 Integration stop scan: 1066
Y at integration start	: 0 Y at integration end: 0

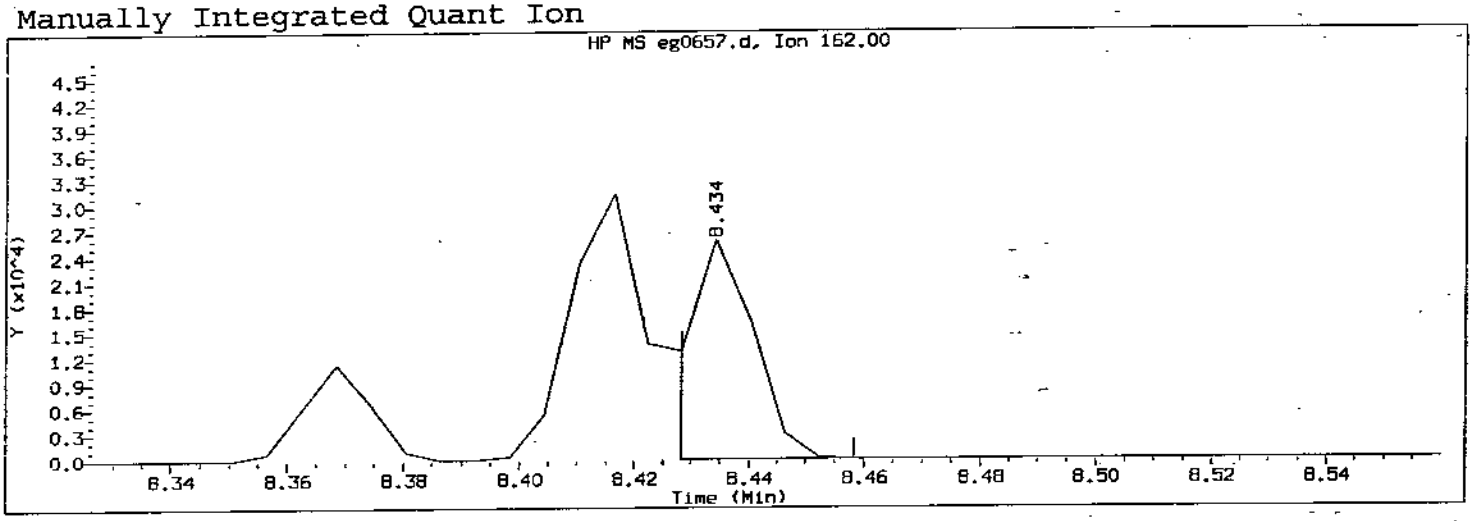
USF03 0496

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0657.d, generated on 07/19/2011 at 08:34

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:31 msw02109

Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1062
Retention Time (minutes)	:	8.434
Quant Ion	:	162
Area (flag)	:	20926 M
Concentration (ng/ul)	:	1.9761
Integration start scan	:	1060 Integration stop scan: 1065
Y at integration start	:	-7 Y at integration end: -7

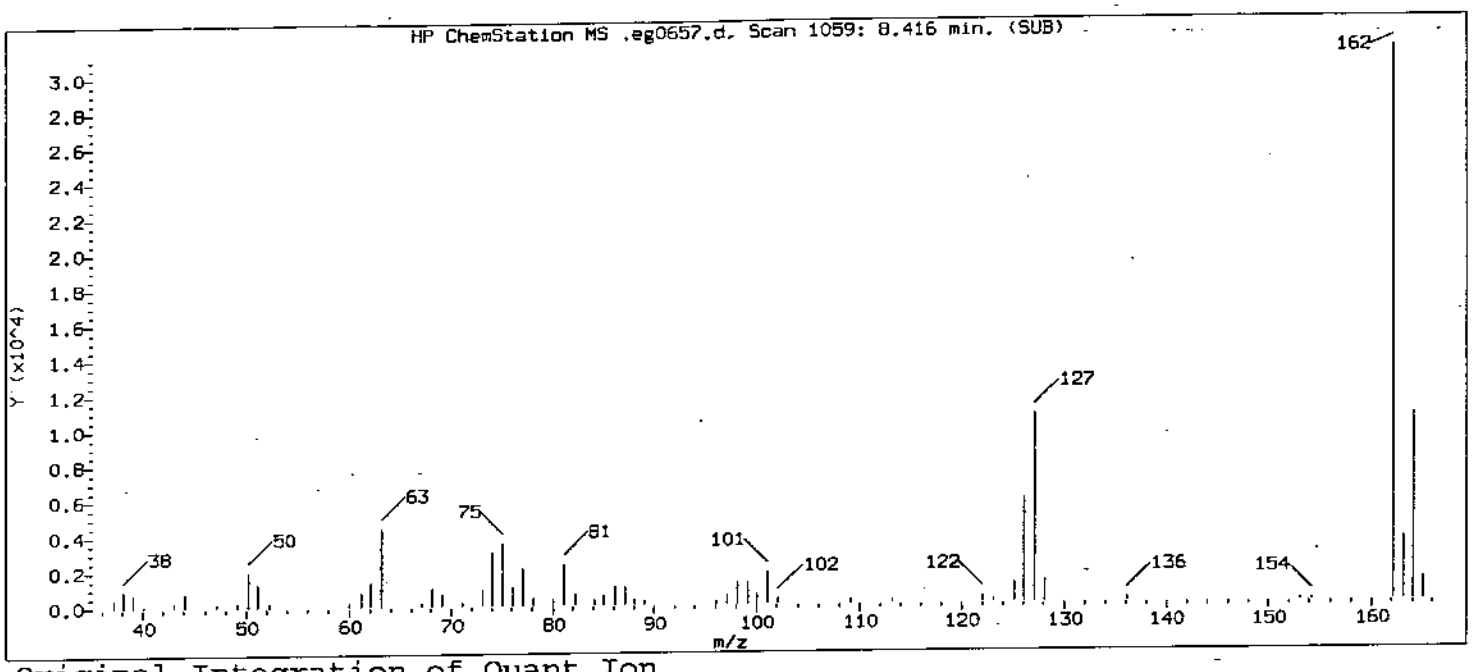
Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: Mark A. Ratcliff Senior Specialist 7/19/11

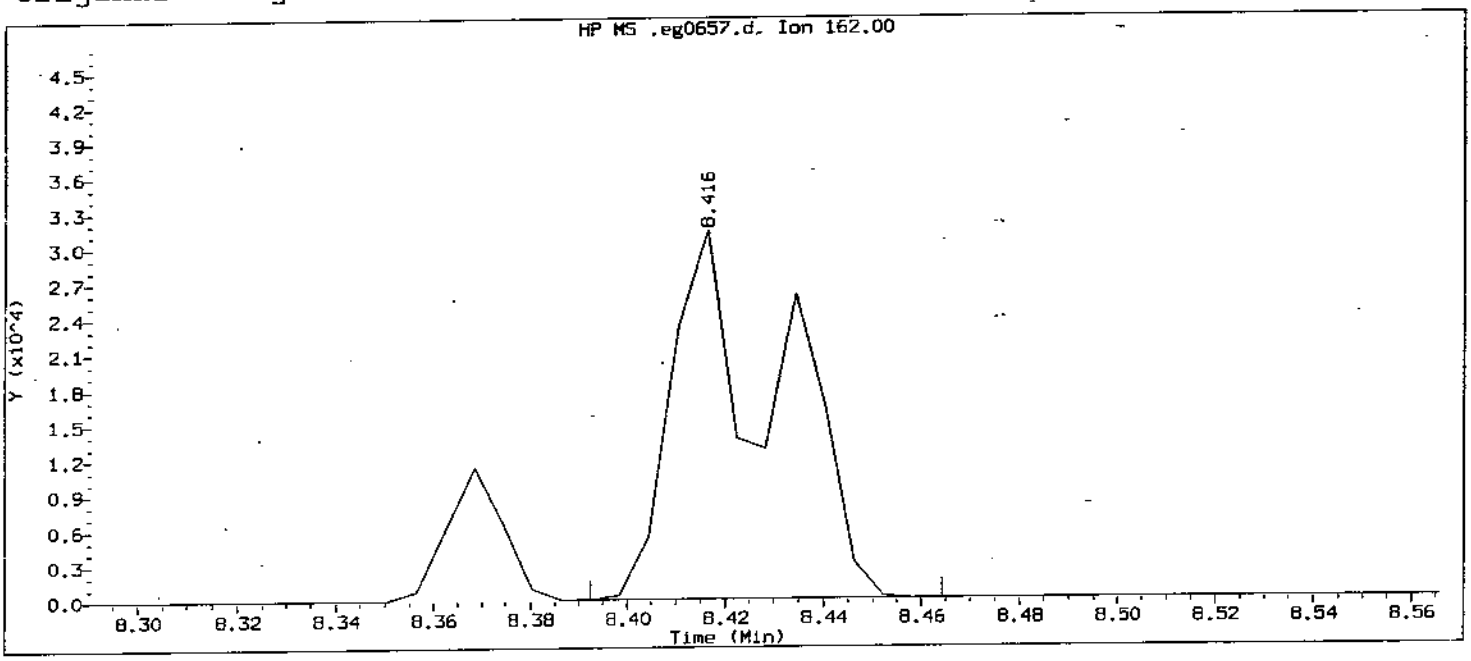
USF03 8497

GC/MS audit/management approval: JUL 19 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:27 msw02109

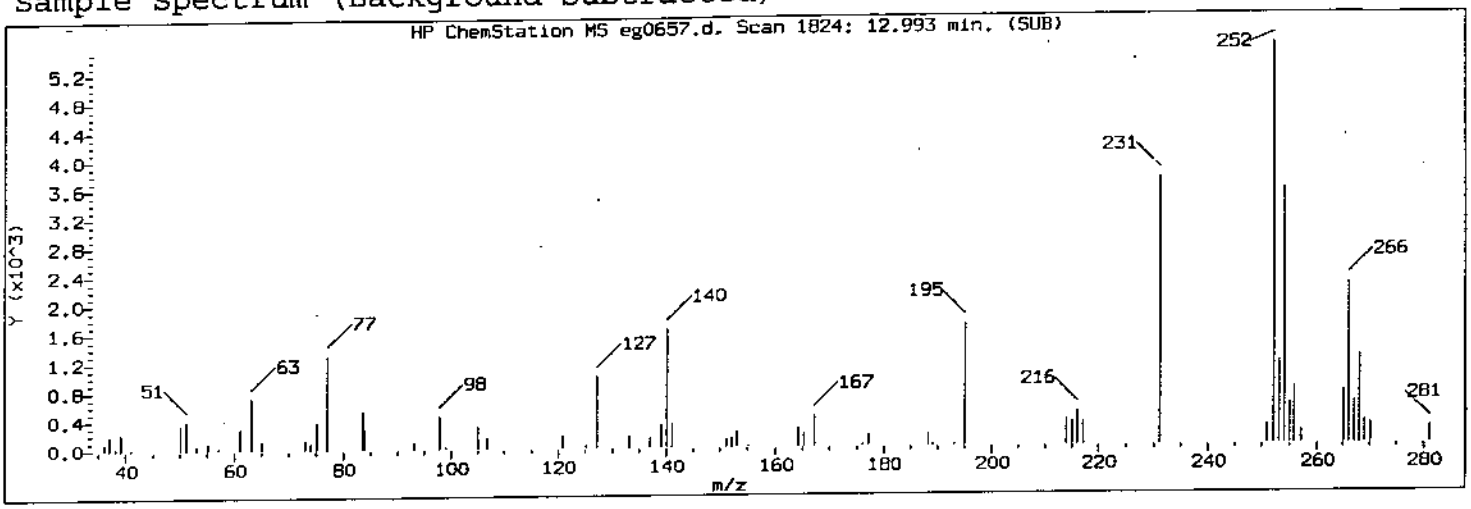
Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

Compound Number	: 86
Compound Name	: 1-Chloronaphthalene
Scan Number	: 1059
Retention Time (minutes)	: 8.416
Quant Ion	: 162
Area	: 47428
Concentration (ng/ul)	: 4.4785
Integration start scan	: 1054 Integration stop scan: 1066
Y at integration start	: 0 Y at integration end: 0

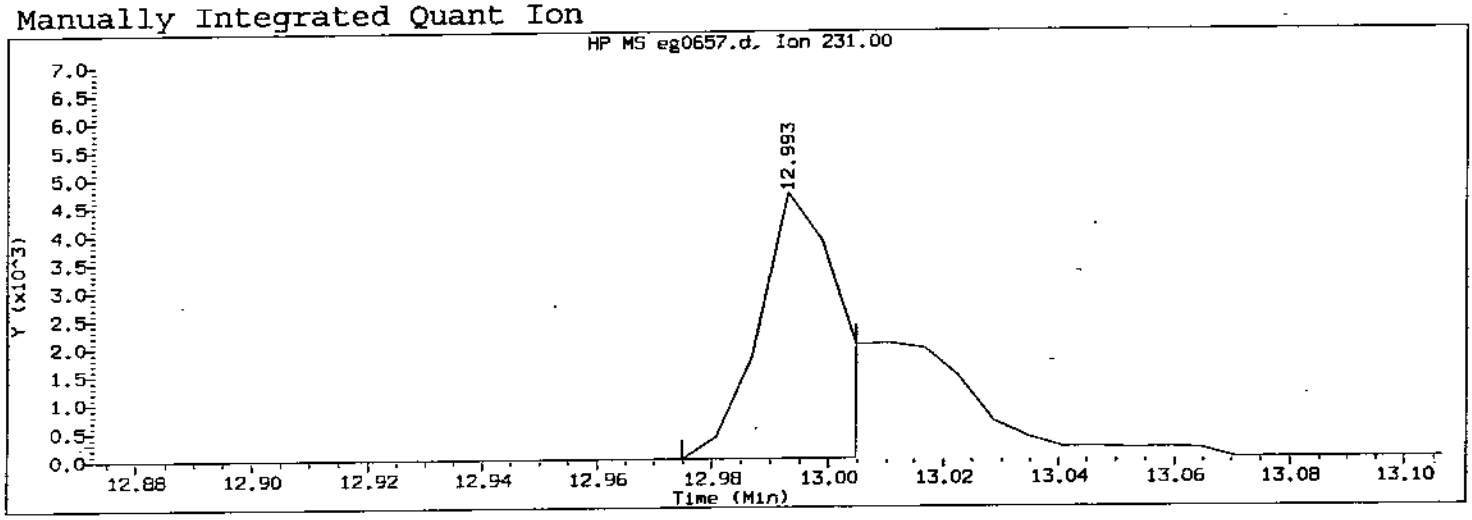
USF03 8490

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0657.d, generated on 07/19/2011 at 08:34

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:31 msw02109

Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

Compound Number : 167
Compound Name : 4,4'-Methylenebis(2-Chloroanil
Scan Number : 1824
Retention Time (minutes): 12.993
Quant Ion : 231
Area (flag) : 4575 M
Concentration (ng/ul) : 1.4544
Integration start scan : 1820 Integration stop scan: 1825
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

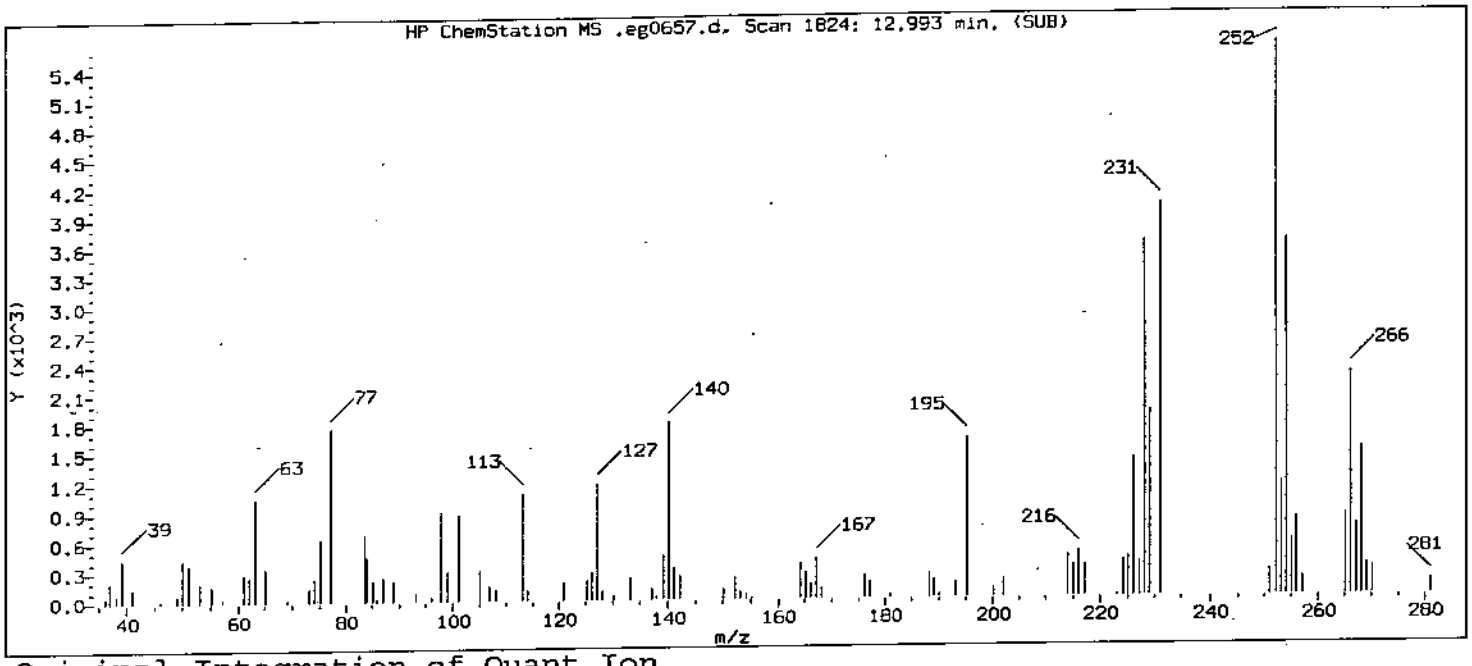
Analyst responsible for change: MSW 2109 7/19/11

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

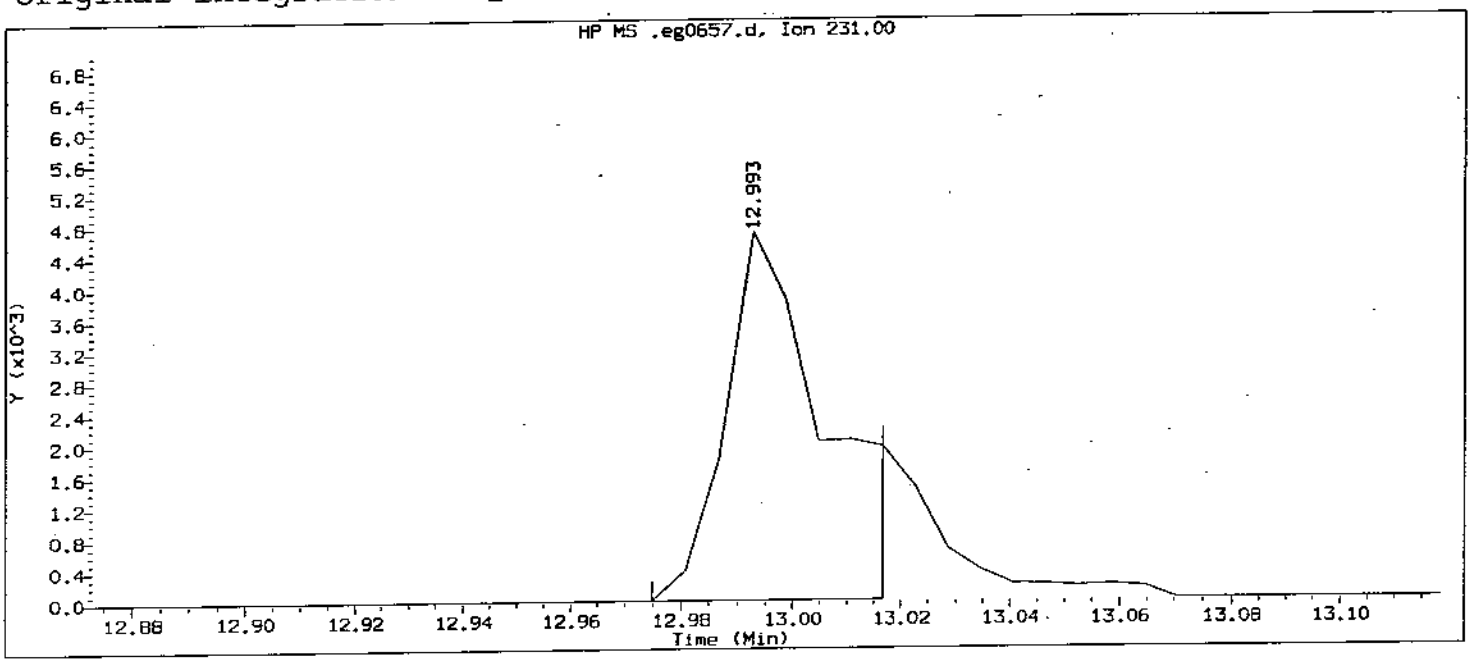
USF03 0499

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0657.d, generated on 07/19/2011 at 08:34

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0657.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:21 Analyst ID: rpb01568

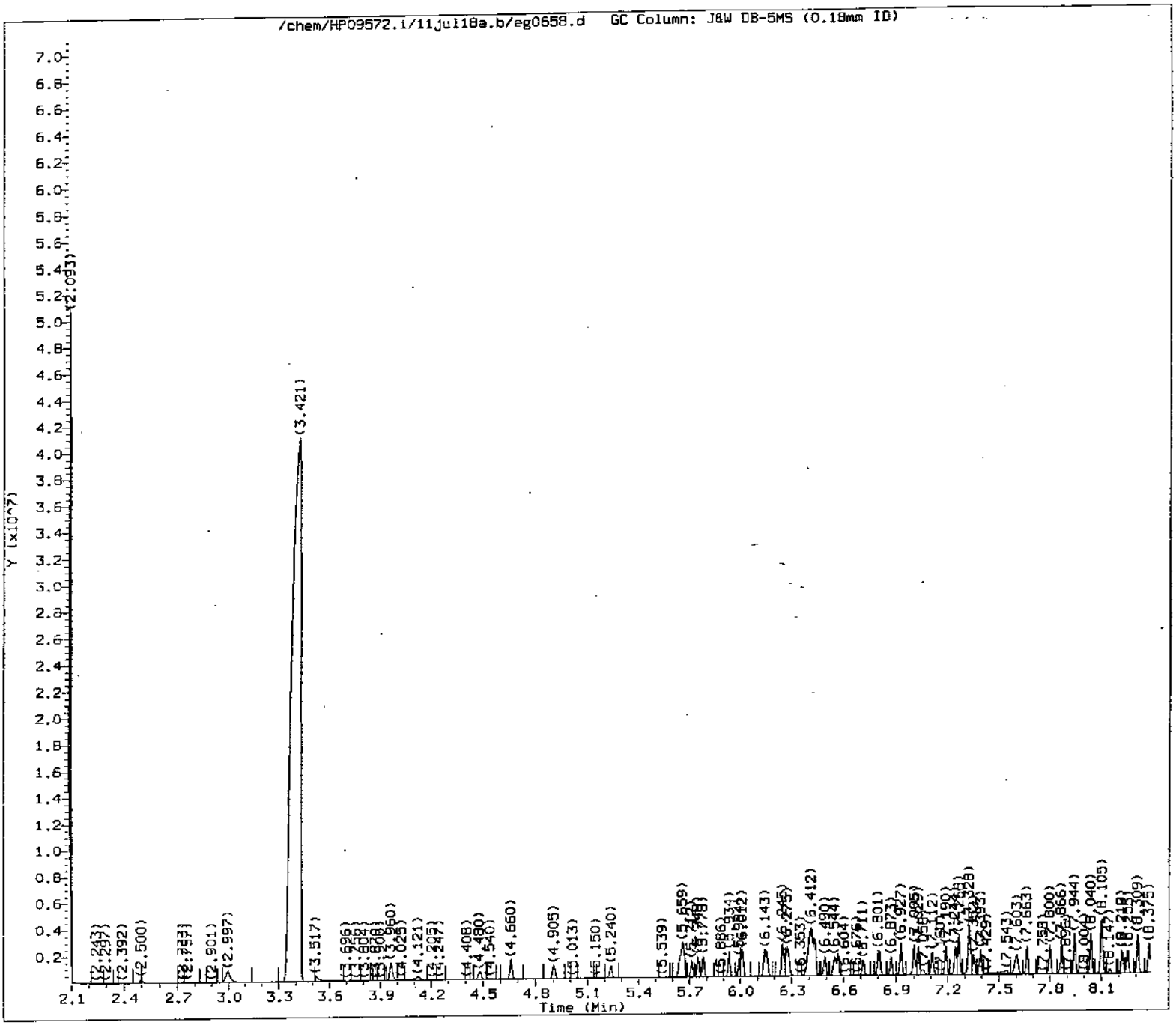
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:27 msw02109

Sample Name: SSTD001 Lab Sample ID: 8270MDL1991

Compound Number	: 167
Compound Name	: 4,4'-Methylenebis(2-Chloroanil
Scan Number	: 1824
Retention Time (minutes)	: 12.993
Quant Ion	: 231
Area	: 5654
Concentration (ng/ul)	: 1.7977
Integration start scan	: 1820 Integration stop scan: 1827
Y at integration start	: 0 Y at integration end: 0

USF03 0508

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0657.d, generated on 07/19/2011 at 08:34



Quant Report

Target Revision 3.5

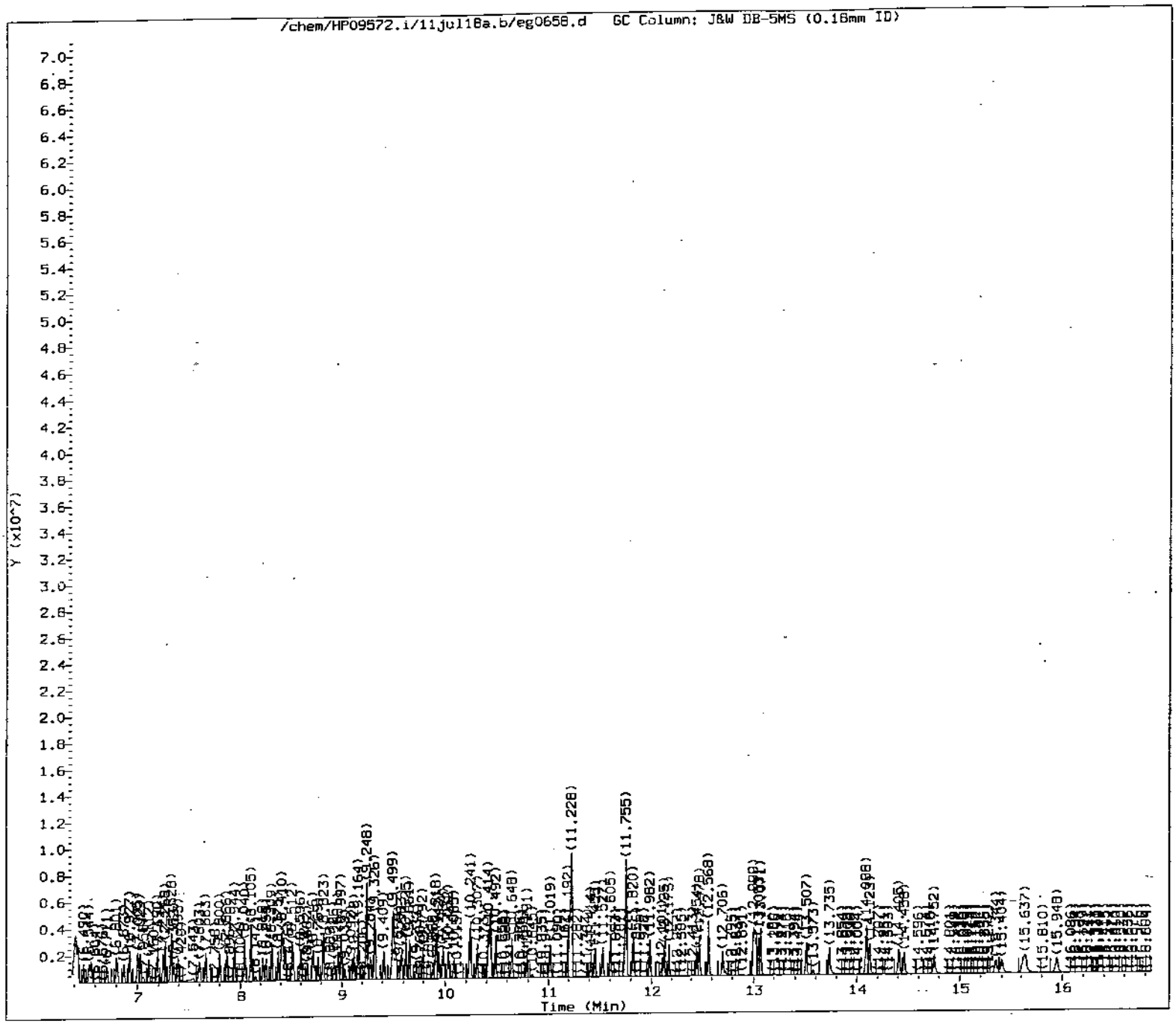
Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: allicv
Calibration date and time: 19-JUL-2011 08:54
Date, time and analyst ID of latest file update: 19-Jul-2011 08:54 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV0751

USF03 8581

msw 2109 7/19/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: alllicv
Calibration date and time: 19-JUL-2011 08:54
Date, time and analyst ID of latest file update: 19-Jul-2011 08:54 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV0751

USF03 0502

msw2109 7/19/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: alllicv
Calibration date and time: 19-JUL-2011 08:54
Date, time and analyst ID of latest file update: 19-Jul-2011 08:54 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV0751

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.500	88	137738	52.1087
3) N-Nitrosodimethylamine	(1)	2.985	74	257022	54.8589
4) Pyridine	(1)	2.997	79	396799	50.6095
6) 2-Picoline	(1)	3.960	93	413761	51.8471
2) N-Nitrosomethylethylamine	(1)	4.127	88	197125	52.9183
8) Methyl methanesulfonate	(1)	4.480	80	218765	49.0145
9) N-Nitrosodiethylamine	(1)	4.905	102	192412	53.7294
15) Ethyl methanesulfonate	(1)	5.240	109	190523	52.8361
22) Phenol	(1)	5.659	94	575276	52.6375
21) Aniline	(1)	5.671	93	640439	51.3074
33) Pentachloroethane	(1)	5.712	167	112826	49.9759
23) bis(2-Chloroethyl)ether	(1)	5.748	93	415239	52.1771
24) 2-Chlorophenol	(1)	5.778	128	354796	52.8021
26) 1,3-Dichlorobenzene	(1)	5.934	146	358848	52.4320
27) 1,4-Dichlorobenzene-d4	(1)	5.994	152	172492	40.0000
28) 1,4-Dichlorobenzene	(1)	6.012	146	369147	52.1965
31) Benzyl alcohol	(1)	6.143	108	263478	53.4691
32) 1,2-Dichlorobenzene	(1)	6.155	146	349214	52.1304
34) 2-Methylphenol	(1)	6.257	108	361655	52.8770
35) 2,2'-oxybis(1-Chloropropane)	(1)	6.281	45	630143	50.6934
36) bis(2-Chloroisopropyl)ether	(1)	6.281	45	630143	50.6835
30) N-Nitrosopyrrolidine	(1)	6.388	100	211532	51.0748
37) Acetophenone	(1)	6.400	105	549583	51.0698
38) N-Nitroso-di-n-propylamine	(1)	6.418	70	384103	51.9154
39) 4-Methylphenol	(1)	6.412	108	439739	55.2952
7) N-Nitrosomorpholine	(1)	6.430	56	296412	50.3553
40) o-Toluidine	(1)	6.436	106	627316	51.8336
41) Hexachloroethane	(1)	6.490	117	148230	52.8125
43) Nitrobenzene	(2)	6.562	77	503672	52.2050
18) N-Nitrosopiperidine	(2)	6.717	114	193451	51.0165
46) Isophorone	(2)	6.801	82	897852	52.2713
47) 2-Nitrophenol	(2)	6.873	139	198479	51.8865
48) 2,4-Dimethylphenol	(2)	6.927	107	409388	52.6130
93) O,O,O-triethylphosphorothioate	(2)	7.005	198	178187	49.7882
49) bis(2-Chloroethoxy)methane	(2)	7.029	93	523034	53.0334
50) Benzoic acid	(2)	7.058	105	321714	49.9422
51) 2,4-Dichlorophenol	(2)	7.112	162	298411	51.9767
52) 1,2,4-Trichlorobenzene	(2)	7.190	180	321869	51.3231
53) Naphthalene-d8	(2)	7.244	136	789709	40.0000
54) Naphthalene	(2)	7.268	128	1094465	52.3143
56) 4-Chloroaniline	(2)	7.328	127	491579	54.0117
55) 2,6-Dichlorophenol	(2)	7.328	162	300280	52.2376
44) Hexachloropropene	(2)	7.352	213	188124	54.4394

M = Compound was manually integrated. A = User selected an alternate hit

USEPA 6583

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: alllicv
Calibration date and time: 19-JUL-2011 08:54
Date, time and analyst ID of latest file update: 19-Jul-2011 08:54 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV0751

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
59)	Hexachlorobutadiene	(2)	7.393	225	160468	53.0862
5)	N-Nitrosodi-n-butylamine	(2)	7.663	84	316603	42.8480
68)	4-Chloro-3-methylphenol	(2)	7.800	107	356765	51.0819
61)	Safrole	(2)	7.866	162	285887	51.2112
69)	2-Methylnaphthalene	(2)	7.944	142	711663	49.3926
71)	1-Methylnaphthalene	(2)	8.040	142	714739	52.7521
72)	Hexachlorocyclopentadiene	(3)	8.099	237	366016	103.6177
73)	1,2,4,5-Tetrachlorobenzene	(3)	8.111	216	314029	54.6057
76)	2,4,6-Trichlorophenol	(3)	8.225	196	210757	53.0141
77)	2,4,5-Trichlorophenol	(3)	8.255	196	236143	53.0516
63)	Isosafrole	(3)	8.375	162	291703	54.6055
82)	Biphenyl	(3)	8.410	154	903927	53.4125
83)	Diphenyl	(3)	8.410	154	903927	53.4125
84)	1,1'-Biphenyl	(3)	8.410	154	903927	53.4125
85)	2-Chloronaphthalene	(3)	8.422	162	893968M	57.6991
86)	1-Chloronaphthalene	(3)	8.440	162	660731M	54.3284
87)	Diphenyl ether	(3)	8.512	170	481891	53.2399
88)	2-Nitroaniline	(3)	8.524	138	246723	53.1793
60)	1,4-Naphthoquinone	(3)	8.596	158	341359	62.8418
57)	1,4-Dinitrobenzene	(3)	8.662	168	126320	54.2091
92)	Dimethylphthalate	(3)	8.722	163	793581	52.3914
58)	1,3-Dinitrobenzene	(3)	8.739	168	146316	53.4859
98)	2,6-Dinitrotoluene	(3)	8.769	165	190487	52.2604
100)	Acenaphthylene	(3)	8.823	152	1084264	54.6821
102)	3-Nitroaniline	(3)	8.925	138	206880	53.5872
103)	Acenaphthene-d10	(3)	8.967	164	466637	40.0000
106)	Acenaphthene	(3)	8.997	153	705768	53.3265
107)	2,4-Dinitrophenol	(3)	9.033	184	101046	51.5303
110)	Pentachlorobenzene	(3)	9.122	250	263545	51.8754
109)	4-Nitrophenol	(3)	9.092	109	116873	51.1602
112)	Dibenzofuran	(3)	9.164	168	1014262	53.4999
113)	2,4-Dinitrotoluene	(3)	9.164	165	260924	54.2746
114)	1-Naphthylamine	(3)	9.248	143	1590034	109.8216
115)	2,3,4,6-Tetrachlorophenol	(3)	9.284	232	188229	54.6530
117)	2-Naphthylamine	(3)	9.326	143	1520384	103.8542
118)	Diethylphthalate	(3)	9.415	149	777407	52.6067
119)	Fluorene	(3)	9.499	166	852734	52.9323
29)	Thionazin	(3)	9.493	107	134938	48.5555
120)	4-Chlorophenyl-phenylether	(3)	9.505	204	406882	53.5996
70)	5-Nitro-o-toluidine	(3)	9.517	152	244456	50.8091
121)	4-Nitroaniline	(3)	9.529	138	210341	48.8610
122)	4,6-Dinitro-2-methylphenol	(4)	9.559	198	133148	50.9235
67)	1-Nitronaphthalene	(4)	9.583	173	158142	52.6703

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1icv
Calibration date and time: 19-JUL-2011 08:54
Date, time and analyst ID of latest file update: 19-Jul-2011 08:54 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV0751

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
123)	N-Nitrosodiphenylamine	(4)	9.625	169	704178	54.3092
125)	1,2-Diphenylhydrazine	(4)	9.661	77	1071465	54.3662
108)	Tetraethyldithiopyrophosphate	(4)	9.792	97	140047	52.2416
81)	1,3,5-Trinitrobenzene	(4)	9.888	213	86735	49.6074
75)	Phorate	(4)	9.918	75	630059	52.2707
80)	Phenacetin	(4)	9.942	108	421172	52.3260
131)	4-Bromophenyl-phenylether	(4)	9.984	248	213616	54.5998
132)	Hexachlorobenzene	(4)	10.032	284	211083	54.0304
96)	Dimethoate	(4)	10.085	87	283025	46.1517
135)	Pentachlorophenol	(4)	10.229	266	142381	53.4903
136)	Pentachloronitrobenzene	(4)	10.241	237	85578	52.3480
105)	4-Aminobiphenyl	(4)	10.241	169	870779	61.0398
97)	Pronamide	(4)	10.307	173	329782	50.9253
140)	Phenanthrene-d10	(4)	10.414	188	779620	40.0000
141)	Phenanthrene	(4)	10.438	178	1159999	54.5967
137)	Dinoseb	(4)	10.420	211	192543	50.9040
143)	Anthracene	(4)	10.492	178	1148573	53.2739
145)	Carbazole	(4)	10.648	167	1071484	53.0667
149)	Methyl parathion	(4)	10.791	109	224090	47.6843
148)	Di-n-butylphthalate	(4)	11.019	149	1270924	53.3764
150)	Parathion	(4)	11.186	109	162483	52.3756
133)	4-Nitroquinoline-1-oxide	(4)	11.228	190	1745648	795.5313
99)	Isodrin	(4)	11.455	193	117008	50.6438
153)	Fluoranthene	(4)	11.605	202	1121945	52.2745
154)	Benzidine	(5)	11.755	184	3485927	300.9158
155)	Pyrene	(5)	11.820	202	1191542	54.6116
147)	p-Dimethylaminoazobenzene	(5)	12.125	225	237873	55.9500
144)	Chlorobenzilate	(5)	12.173	139	345187	52.0023
161)	3,3'-Dimethylbenzidine	(5)	12.454	212	571640	54.0921
162)	Butylbenzylphthalate	(5)	12.478	149	532929	54.8497
101)	2-Acetylaminofluorene	(5)	12.706	181	446130	56.1424
165)	3,3'-Dichlorobenzidine	(5)	12.993	252	355421	52.6836
164)	Benzo(a)anthracene	(5)	13.011	228	1022369	53.7816
167)	4,4'-Methylenebis(2-Chloroanil	(5)	12.999	231	186769	52.4166
166)	Chrysene-d12	(5)	13.023	240	690707	40.0000
168)	Chrysene	(5)	13.053	228	978670	52.3975
169)	bis(2-Ethylhexyl)phthalate	(5)	13.071	149	729549	55.5890
170)	6-Methylchrysene	(5)	13.507	242	714247	54.6873
172)	Di-n-octylphthalate	(6)	13.735	149	1103210	49.8679
174)	7,12-Dimethylbenz[a]anthracene	(6)	14.088	256	468569	51.6195
173)	Benzo(b)fluoranthene	(6)	14.094	252	894193	51.4946
175)	Benzo(k)fluoranthene	(6)	14.123	252	1027438	53.0716
176)	Benzo(a)pyrene	(6)	14.405	252	873905	52.7088

M = Compound was manually integrated. A = User selected an alternate hit

USY03 0595

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

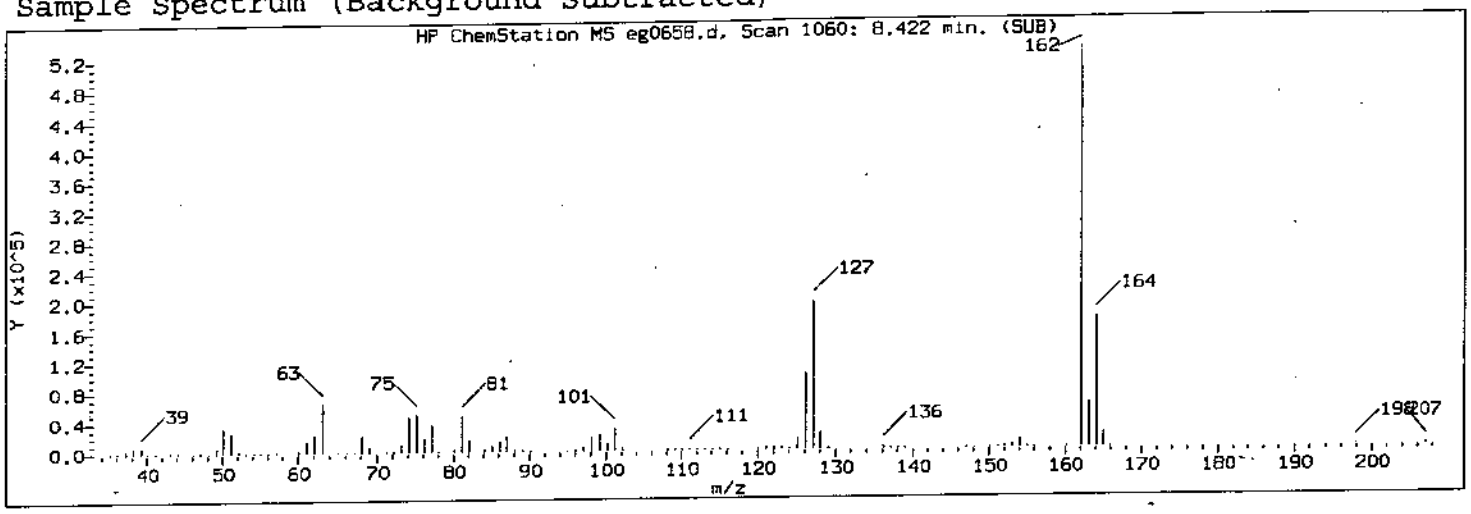
Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: all1icv
Calibration date and time: 19-JUL-2011 08:54
Date, time and analyst ID of latest file update: 19-Jul-2011 08:54 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV0751

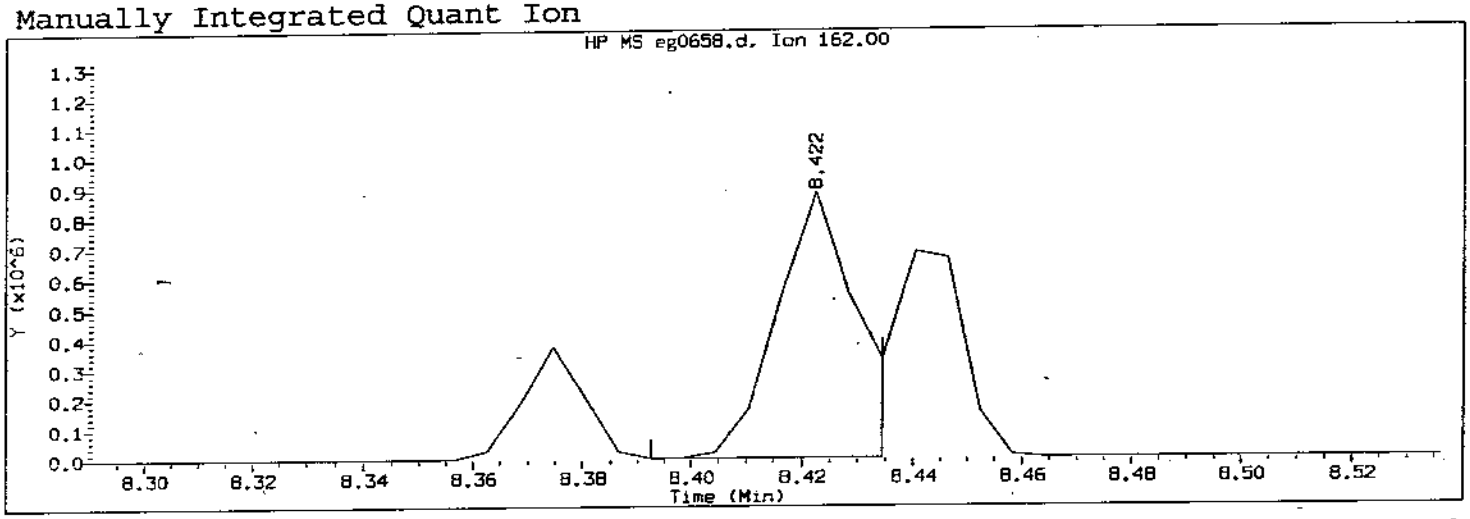
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
177) Perylene-d12	(6)	14.458	264	629893	40.0000
180) 3-Methylcholanthrene	(6)	14.752	268	435787	50.2415
181) Dibenz(a,h)acridine	(6)	15.344	279	563281	49.7679
183) Dibenz(a,j)acridine	(6)	15.404	279	769178	52.4465
185) Indeno(1,2,3-cd)pyrene	(6)	15.619	276	921604	53.7854
187) Dibenz(a,h)anthracene	(6)	15.643	278	777823	53.8381
188) Benzo(g,h,i)perylene	(6)	15.948	276	764573	53.1635
11) 2-Fluorophenol	(1)	4.660	112	334369	53.4670
19) Phenol-d5	(1)	5.647	99	487163	54.5604
20) Phenol-d6	(1)	5.647	99	487163	54.5604
42) Nitrobenzene-d5	(2)	6.544	82	482196	52.7368
79) 2-Fluorobiphenyl	(3)	8.309	172	795790	54.1232
126) 2,4,6-Tribromophenol	(3)	9.733	330	92876	53.4104
157) Terphenyl-d14	(5)	11.982	244	807313	56.0048

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: alllicv
Calibration date and time: 19-JUL-2011 08:54
Date, time and analyst ID of latest file update: 19-Jul-2011 08:54 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number : 85
Compound Name : 2-Chloronaphthalene
Scan Number : 1060
Retention Time (minutes): 8.422
Quant Ion : 162
Area (flag) : 893968 M
Concentration (ng/ul) : 57.6991
Integration start scan : 1054 Integration stop scan: 1061
Y at integration start : 682 Y at integration end: 519

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MSW209 7/19/11

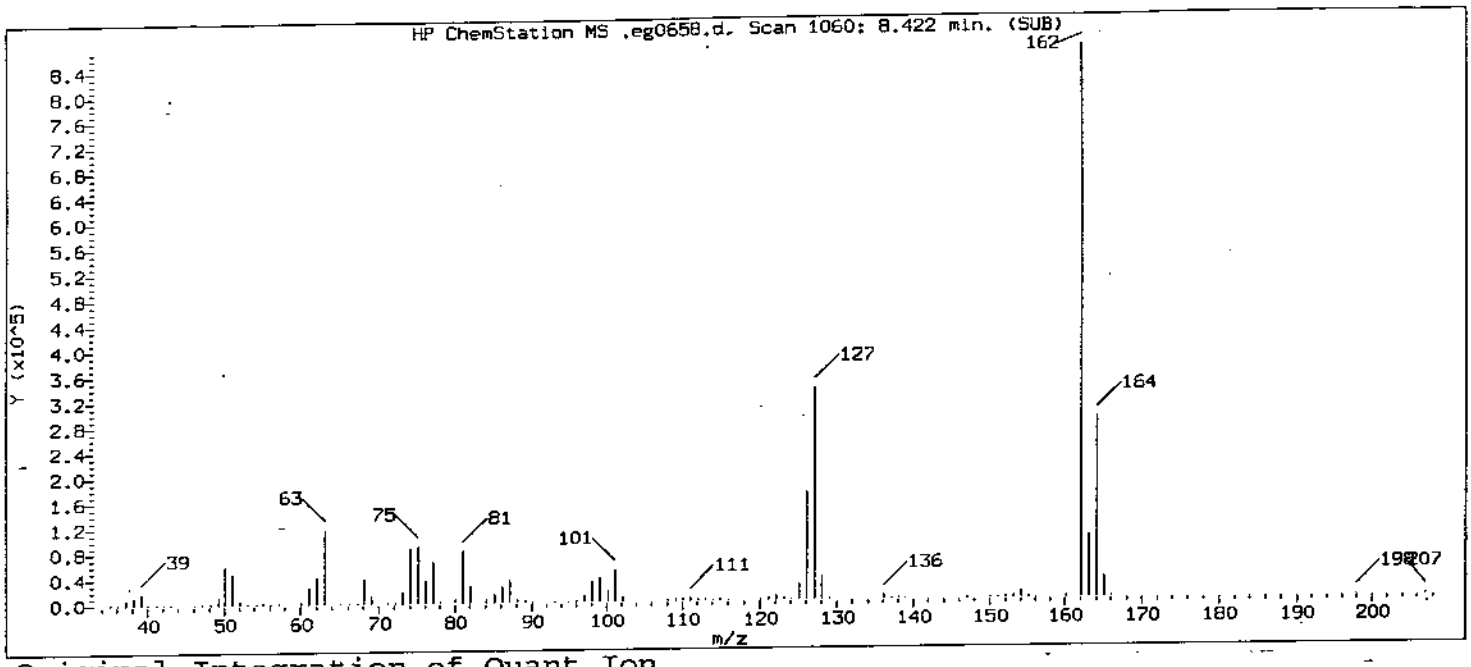
USF03 8587

GC/MS audit/management approval:

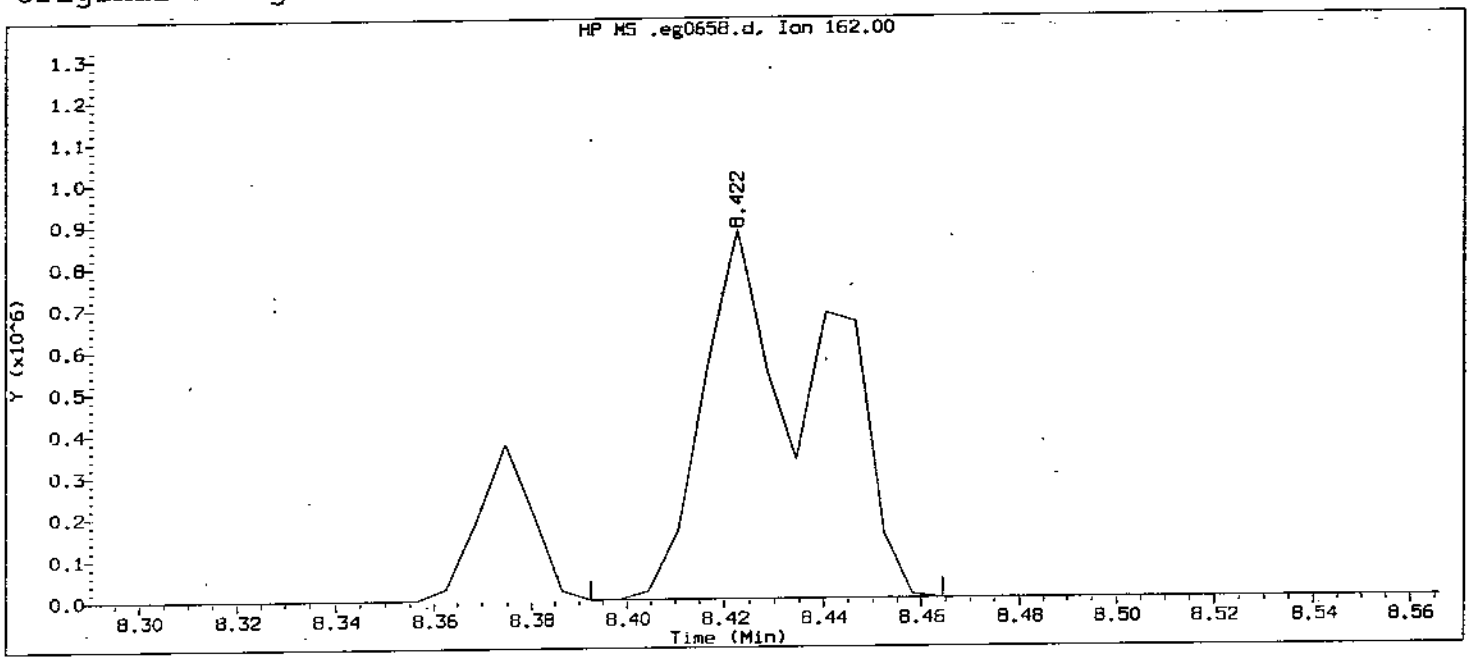
Mark A. Ratcliff
Senior Specialist

Manual Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0658.d generated on 07/19/2011 at 08:54

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: alllicv
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:46 msw02109

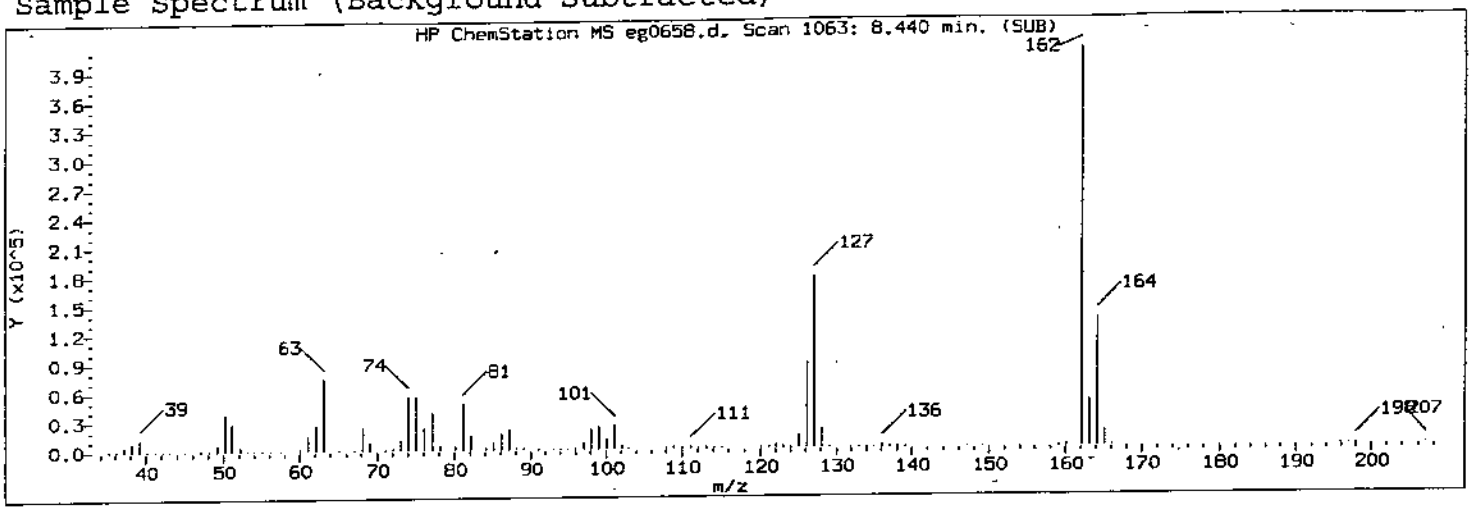
Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number	: 85
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1060
Retention Time (minutes)	: 8.422
Quant Ion	: 162
Area	: 1434995
Concentration (ng/ul)	: 92.6185
Integration start scan	: 1054 Integration stop scan: 1066
Y at integration start	: 682 Y at integration end: 402

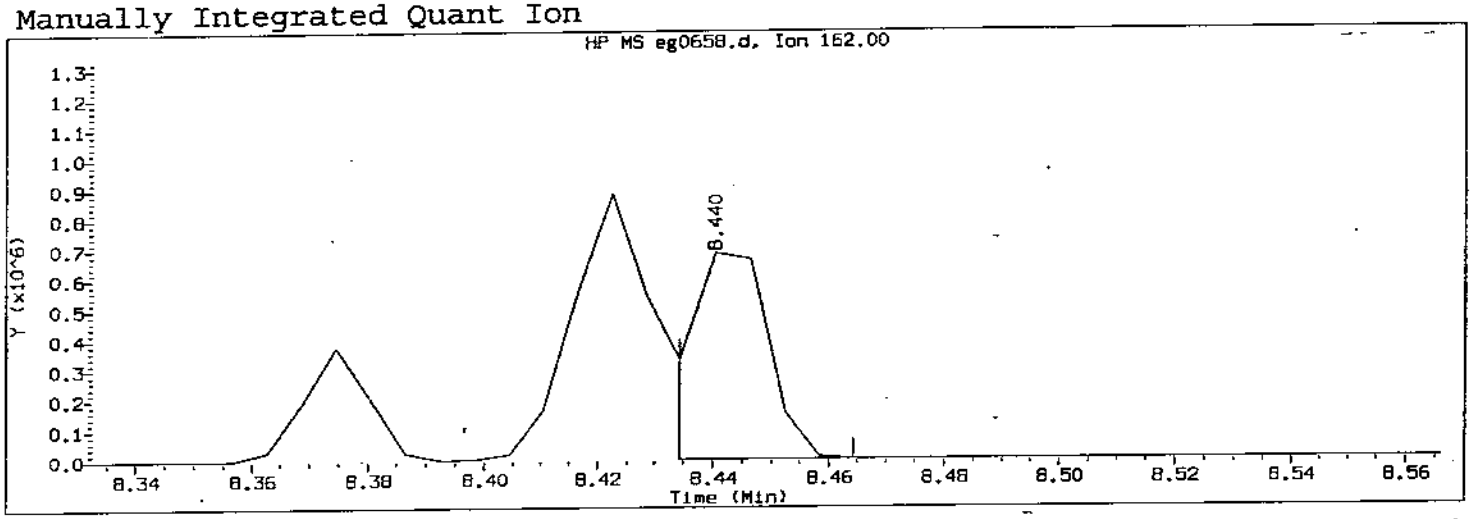
USF03 9588

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0658.d, generated on 07/19/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: alllicv
Calibration date and time: 19-JUL-2011 08:54
Date, time and analyst ID of latest file update: 19-Jul-2011 08:54 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number	:	86
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1063
Retention Time (minutes)	:	8.440
Quant Ion	:	162
Area (flag)	:	660731 M
Concentration (ng/ul)	:	54.3284
Integration start scan	:	1061 Integration stop scan: 1066
Y at integration start	:	247 Y at integration end: 247

Reason for manual integration (circle one): missed peak (improper integration)

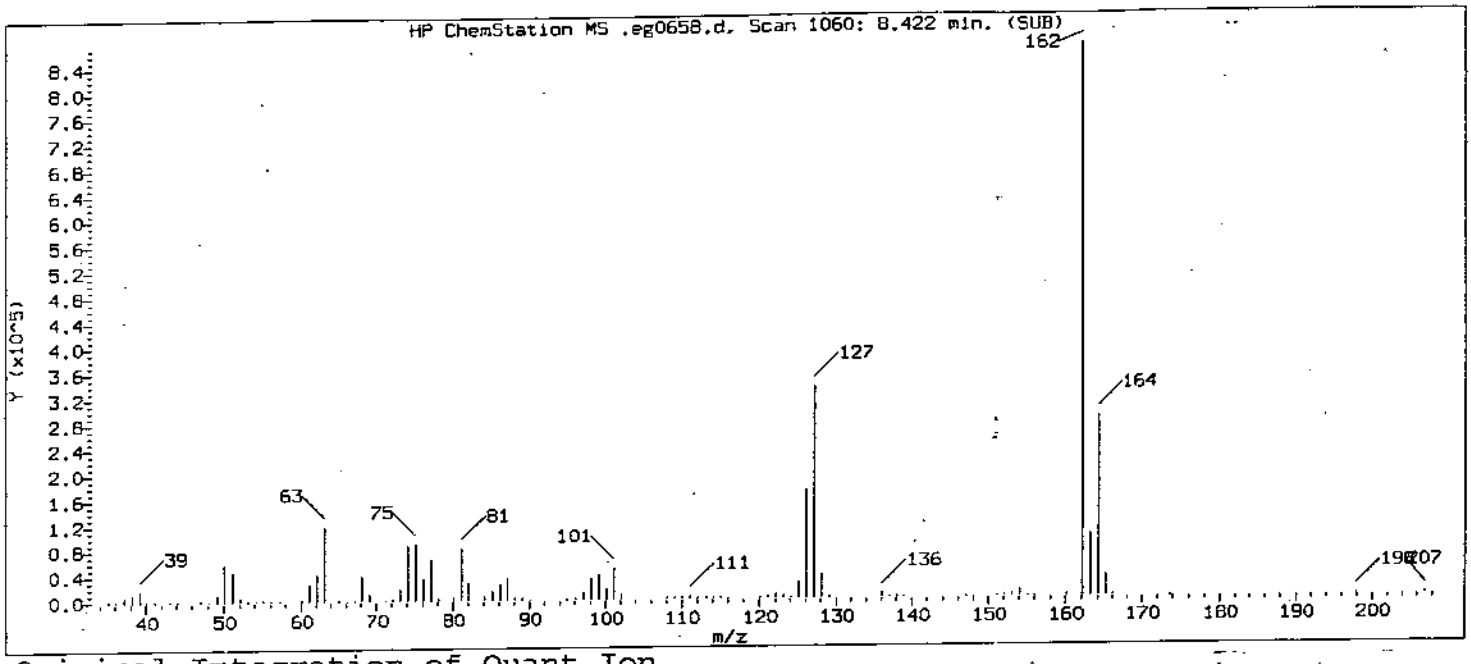
Analyst responsible for change: MSW 209 7/19/11

Mark A. Ratcliff
Senior Specialist

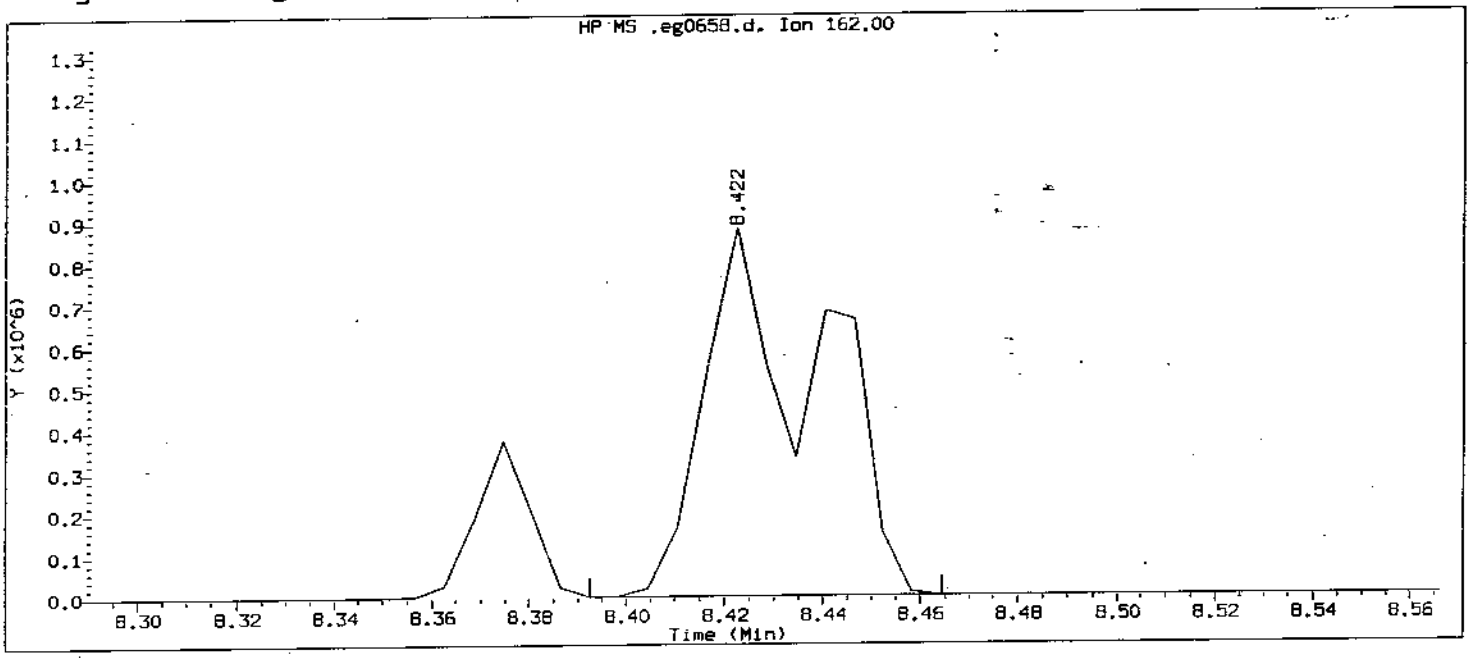
GC/MS audit/management approval: JUL 19 2011

USF03 0589

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul18a.b/eg0658.d Instrument ID: HP09572.i
Injection date and time: 19-JUL-2011 03:46 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul18a.b/m8270.m Sublist used: alllicv
Calibration date and time: 19-JUL-2011 08:24
Date, time and analyst ID of latest file update: 19-Jul-2011 08:46 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV0751

Compound Number	: 86
Compound Name	: 1-Chloronaphthalene
Scan Number	: 1060
Retention Time (minutes)	: 8.422
Quant Ion	: 162
Area	: 1436054
Concentration (ng/ul)	: 118.0791
Integration start scan	: 1054 Integration stop scan: 1066
Y at integration start	: 287 Y at integration end: 283

USF03 8518

Original Integration Report for data file /chem/HP09572.i/11jul18a.b/eg0658.d, generated on 07/19/2011 at 08:54

Data File: /chem/HP09572.i/11jul23.b/eg1010.d

Date : 23-JUL-2011 11:21

Client ID: DFTPP

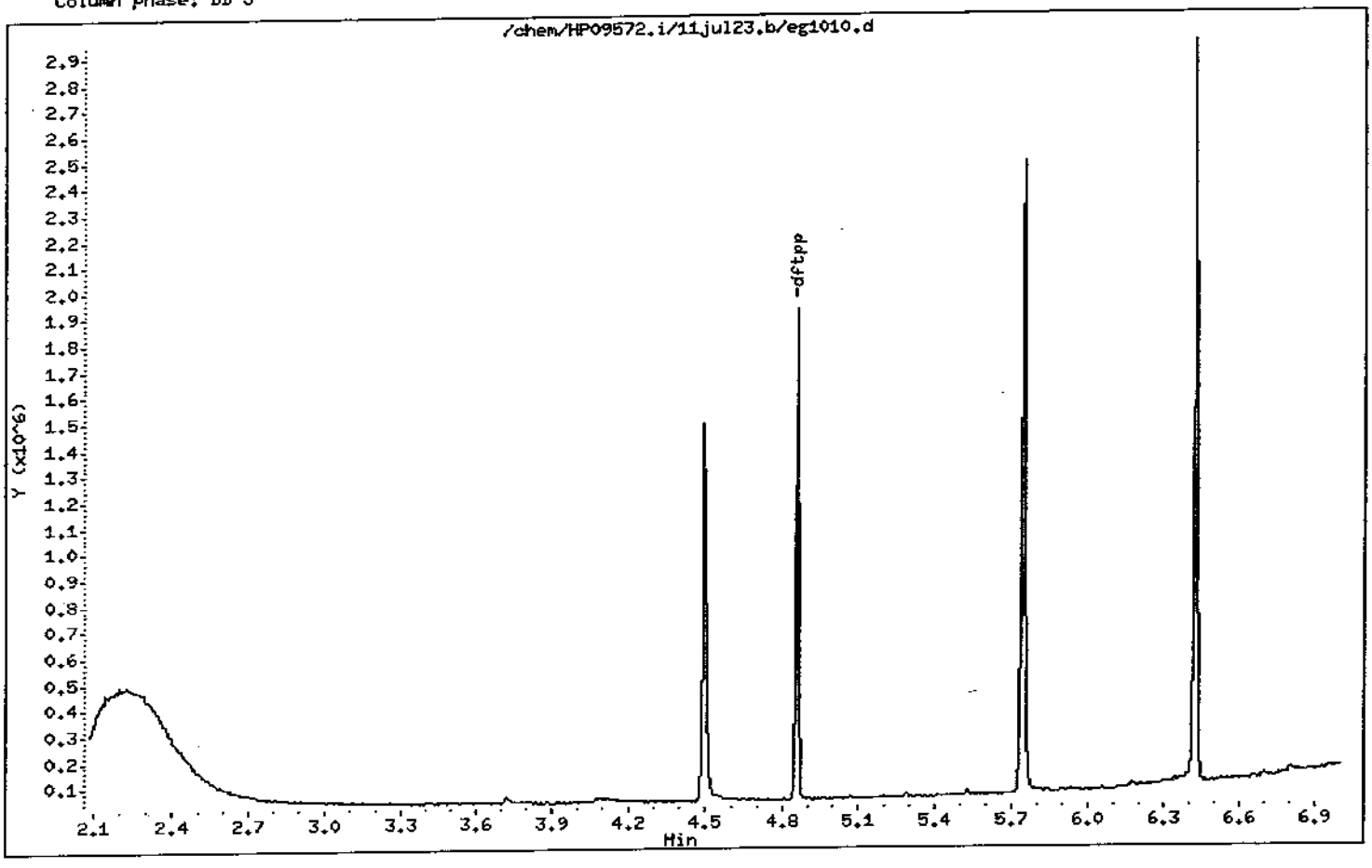
Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP09572.i/11jul23.b/eg1010.d

Date : 23-JUL-2011 11:21

Client ID: DFTPP

Instrument: HP09572.i

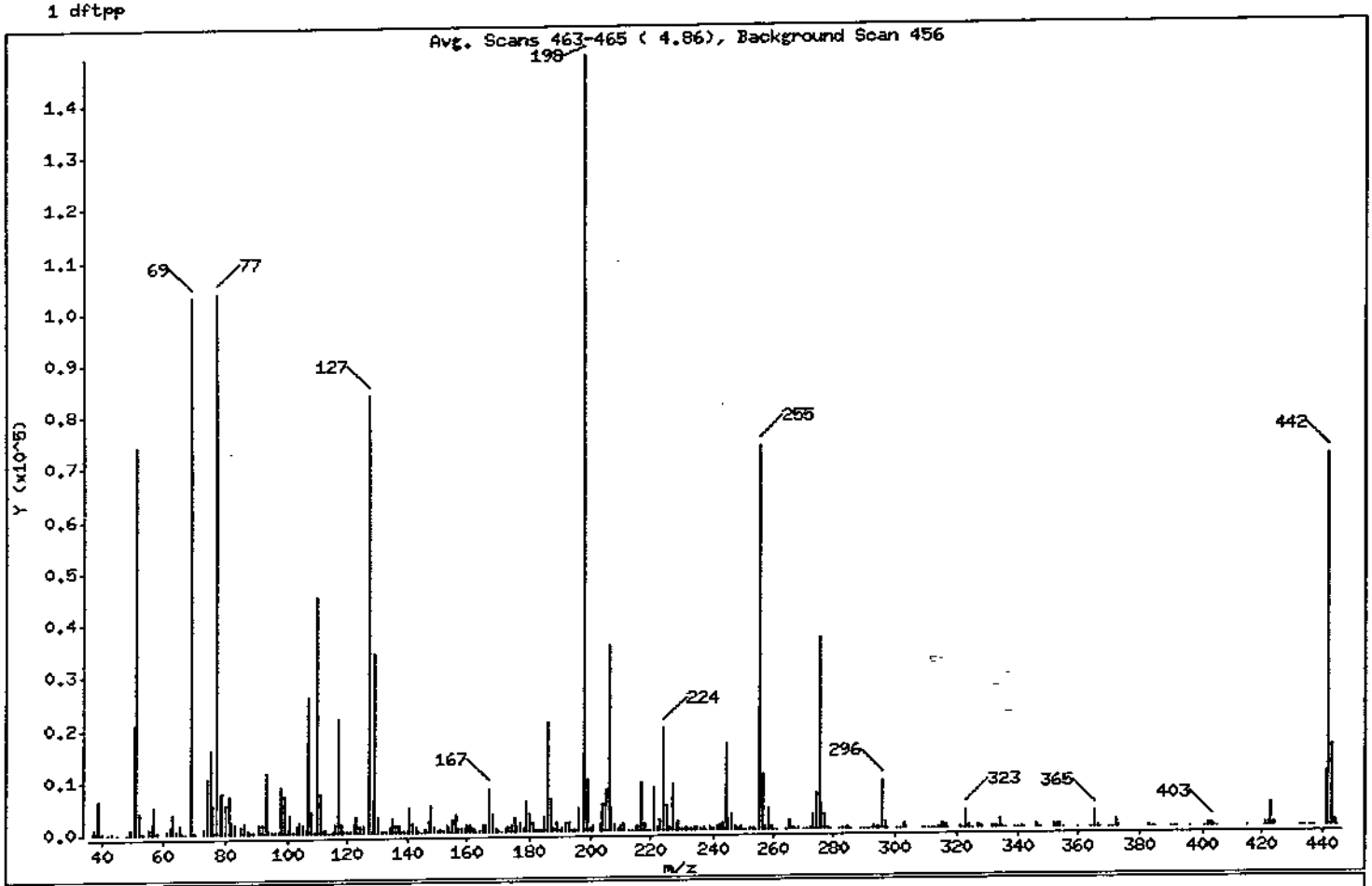
Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	69.13
70	Less than 2.00% of mass 69	0.20 (0.29)
127	40.00 - 60.00% of mass 198	56.39
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 30.00% of mass 198	24.51
365	Greater than 1.00% of mass 198	2.16
441	Present, but less than mass 443	6.94
442	40.00 - 99.99% of mass 198	47.87
443	17.00 - 23.00% of mass 442	10.25 (21.41)

USP03 0512

Data File: /chem/HP09572.i/11jul23.b/eg1010.d

Date : 23-JUL-2011 11:21

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: eg1010.d

Spectrum: Avg. Scans 463-465 (4.86), Background Scan 456

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	501	128.00	6184	208.00	1420	294.00	243
38.00	1061	129.00	34104	209.00	467	295.00	288
39.00	6402	130.00	3250	210.00	1016	296.00	9235
40.00	351	131.00	437	211.00	1315	297.00	1453
42.00	12	132.00	340	213.00	140	298.00	65
43.00	219	133.00	290	214.00	51	301.00	84
45.00	4	134.00	933	215.00	533	302.00	153
48.00	52	135.00	2857	216.00	937	303.00	1015
49.00	866	136.00	1246	217.00	9375	304.00	390
50.00	20792	137.00	1534	218.00	1377	309.00	102
51.00	74240	138.00	504	219.00	116	310.00	146
52.00	4213	139.00	328	220.00	82	311.00	52
53.00	233	140.00	469	221.00	8203	312.00	69
55.00	898	141.00	4696	222.00	597	313.00	168
56.00	2089	142.00	1578	223.00	2067	314.00	407
57.00	5221	143.00	1135	224.00	19560	315.00	986
58.00	250	144.00	401	225.00	4936	316.00	605
61.00	804	145.00	142	226.00	626	317.00	51
62.00	1357	146.00	695	227.00	8895	321.00	332
63.00	3783	147.00	1946	228.00	1308	322.00	146
64.00	626	148.00	5271	229.00	1784	323.00	3501
65.00	1848	149.00	1074	230.00	237	324.00	531
66.00	273	150.00	324	231.00	755	325.00	74
67.00	45	151.00	551	232.00	192	327.00	641
69.00	102928	152.00	194	233.00	211	328.00	207
70.00	300	153.00	1517	234.00	635	332.00	177
73.00	940	154.00	966	235.00	751	333.00	260
74.00	10541	155.00	2302	236.00	372	334.00	1667
75.00	16175	156.00	3426	237.00	713	335.00	397
76.00	5511	157.00	710	238.00	57	336.00	117
77.00	103656	158.00	838	239.00	533	339.00	55
78.00	7421	159.00	677	240.00	253	340.00	52
79.00	8001	160.00	1201	241.00	537	341.00	350
80.00	5428	161.00	1393	242.00	1090	342.00	80
81.00	7343	162.00	636	243.00	1303	346.00	554

USP03 0513

Data File: /chem/HP09572.i/11jul23.b/eg1010.d

Date : 23-JUL-2011 11:21

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: eg1010.d

Spectrum: Avg. Scans 463-465 (4.86), Background Scan 456

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	2333	163.00	109	244.00	16584	347.00	118
83.00	1827	164.00	331	245.00	2180	352.00	855
85.00	1326	165.00	1511	246.00	2986	353.00	601
86.00	2205	166.00	1327	247.00	647	354.00	747
87.00	788	167.00	8105	248.00	221	355.00	151
88.00	487	168.00	3509	249.00	699	360.00	52
89.00	199	169.00	592	250.00	147	364.00	63
91.00	1541	170.00	421	251.00	171	365.00	3219
92.00	1752	171.00	150	252.00	220	366.00	512
93.00	11540	172.00	609	253.00	419	367.00	82
94.00	732	173.00	1114	254.00	69	370.00	120
95.00	302	174.00	1519	255.00	73616	371.00	164
96.00	468	175.00	2812	256.00	10677	372.00	1407
97.00	205	176.00	1014	257.00	666	373.00	344
98.00	8933	177.00	1577	258.00	4210	383.00	303
99.00	7156	178.00	670	259.00	726	384.00	123
100.00	649	179.00	5773	260.00	118	385.00	64
101.00	3482	180.00	3376	261.00	96	390.00	91
102.00	399	181.00	1622	264.00	86	391.00	144
103.00	1218	182.00	177	265.00	1802	392.00	64
104.00	2059	183.00	380	266.00	282	396.00	52
105.00	1765	184.00	458	267.00	126	401.00	157
106.00	829	185.00	2774	268.00	223	402.00	519
107.00	26064	186.00	20752	270.00	78	403.00	746
108.00	4057	187.00	6056	271.00	129	404.00	324
109.00	402	188.00	640	272.00	209	405.00	73
110.00	45104	189.00	1671	273.00	2644	415.00	56
111.00	7673	190.00	349	274.00	6829	421.00	692
112.00	733	191.00	591	275.00	36488	422.00	633
113.00	541	192.00	1620	276.00	4797	423.00	4319
114.00	124	193.00	1706	277.00	2677	424.00	845
115.00	300	194.00	431	278.00	396	433.00	76
116.00	1656	195.00	177	279.00	72	434.00	55
117.00	21888	196.00	4523	282.00	83	436.00	55
118.00	1822	198.00	148864	283.00	459	437.00	51

USF03 0514

Data File: /chem/HP09572.i/11jul23.b/eg1010.d

Date : 23-JUL-2011 11:21

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: eg1010.d

Spectrum: Avg. Scans 463-465 (4.86), Background Scan 456

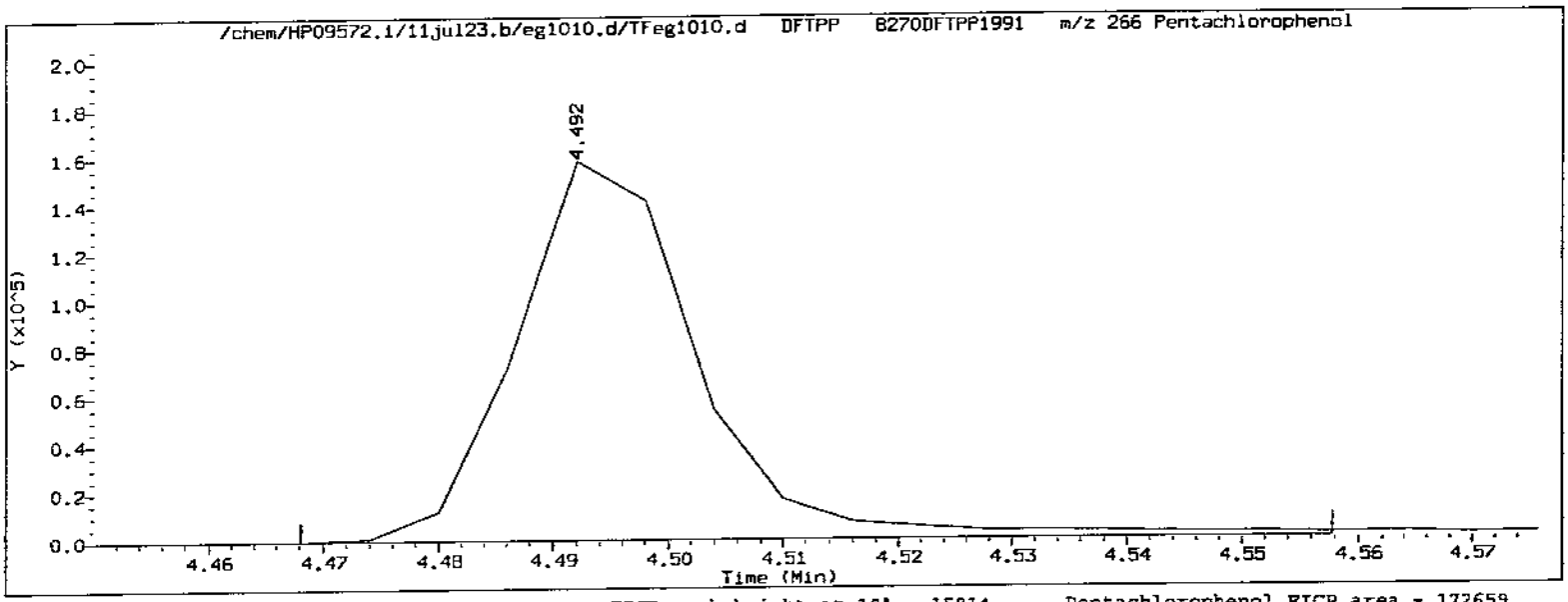
Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	257	199.00	9801	284.00	245	441.00	10328
120.00	266	200.00	766	285.00	300	442.00	71272
121.00	178	201.00	1017	286.00	87	443.00	15259
122.00	1817	203.00	1246	289.00	149	444.00	1134
123.00	2949	204.00	5019	290.00	149	445.00	58
124.00	1273	205.00	8035	291.00	71		
125.00	1322	206.00	35648	292.00	140		
127.00	83960	207.00	4307	293.00	695		

Assessment of GC Column Performance and Injection Port Inertness for

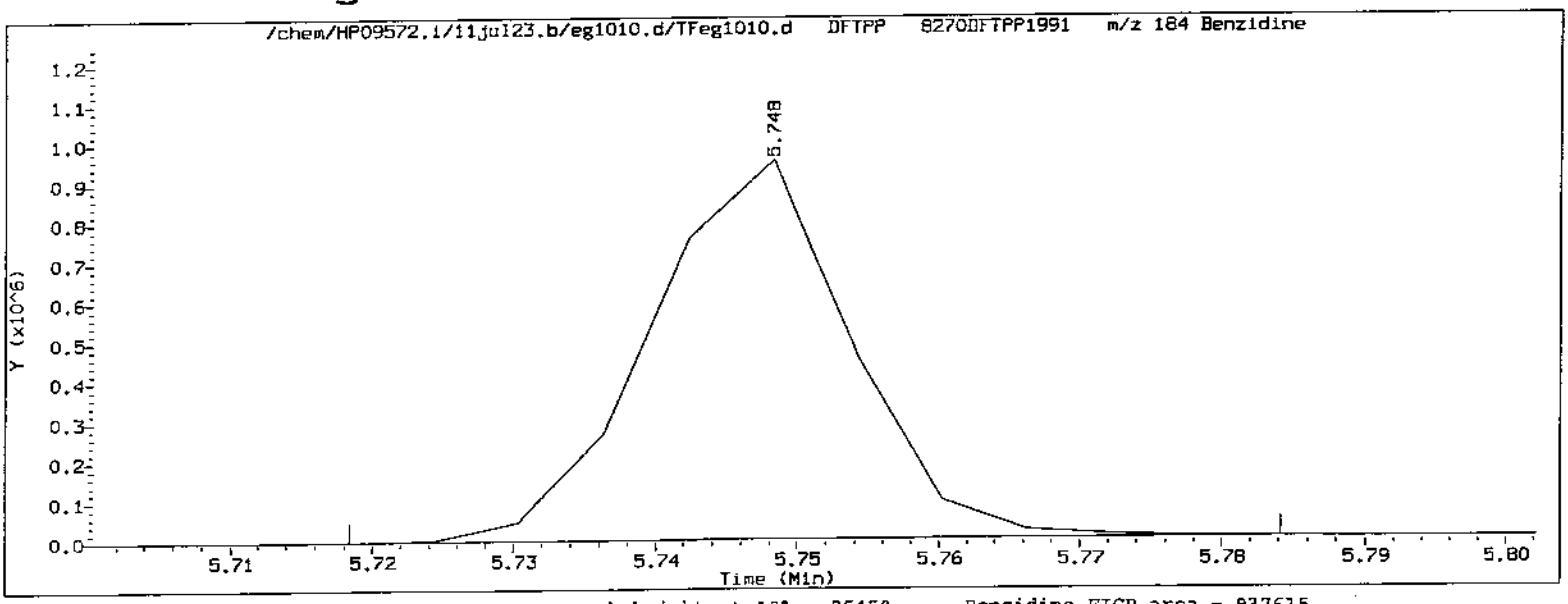
Instrument ID: HP09572.i Injection Date: 23-JUL-2011 11:21 Operator: lmh00956



Pentachlorophenol EICP peak height = 158144 EICP peak height at 10% = 15814 Pentachlorophenol EICP area = 172659

Pentachlorophenol EICP peak apex (min.) = 4.492
RT at 10% of front half of EICP (min.) = 4.480 'Front' peak width (min.) = 0.0115666667
RT at 10% of back half of EICP (min.) = 4.510 'Tailing' peak width (min.) = 0.0181500000

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0181500000}{0.0115666667} = 1.569$



Benzidine EICP peak height = 954496 EICP peak height at 10% = 95450 Benzidine EICP area = 937615

Benzidine EICP peak apex (min.) = 5.748
RT at 10% of front half of EICP (min.) = 5.732 'Front' peak width (min.) = 0.0165666667
RT at 10% of back half of EICP (min.) = 5.760 'Tailing' peak width (min.) = 0.0122166667

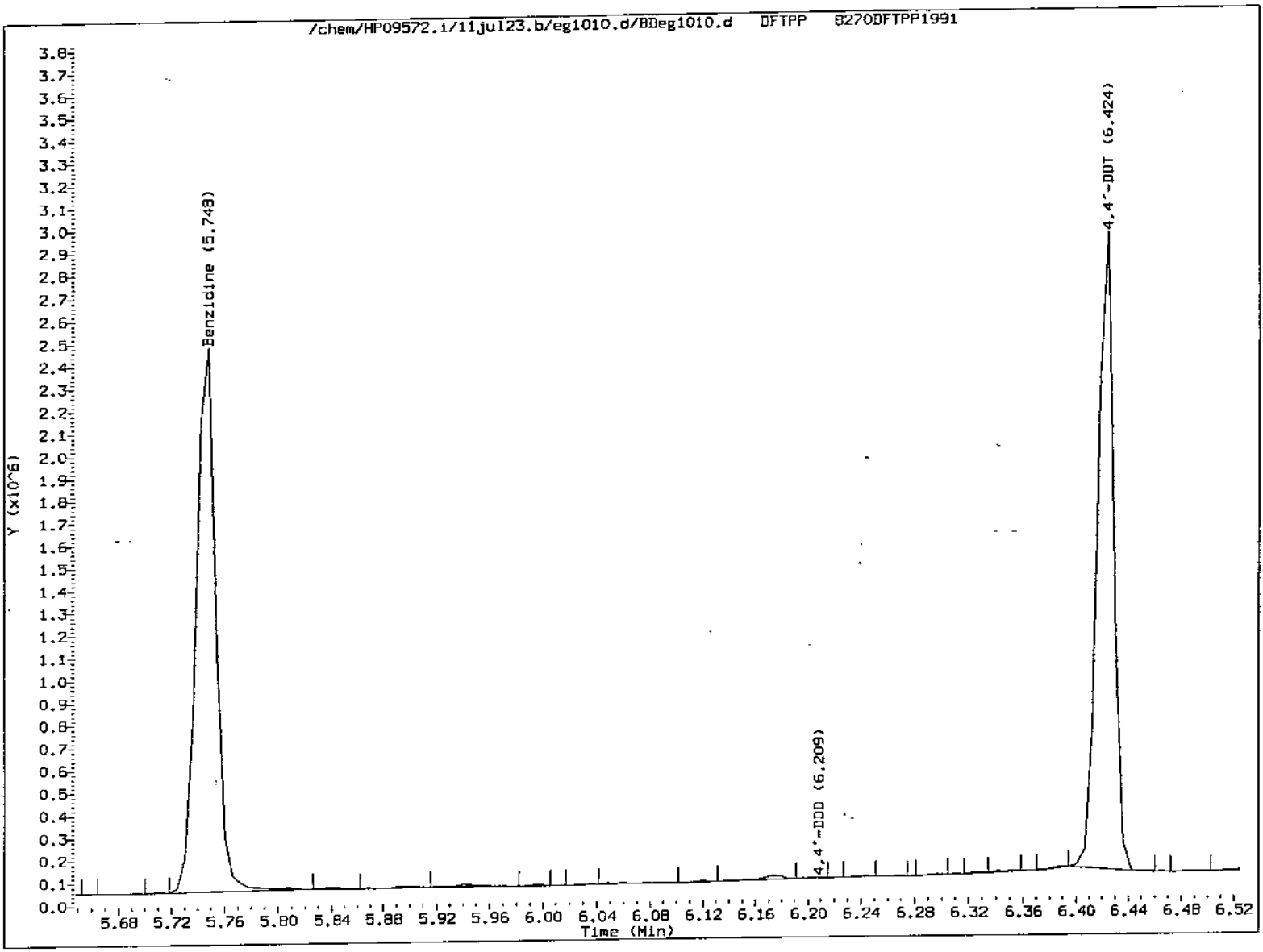
USEPA 8516

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0122166667}{0.0165666667} = 0.737$

printed on 07/23/2011 at 11:32

Assessment of GC Column Performance and Injection Port Inertness for

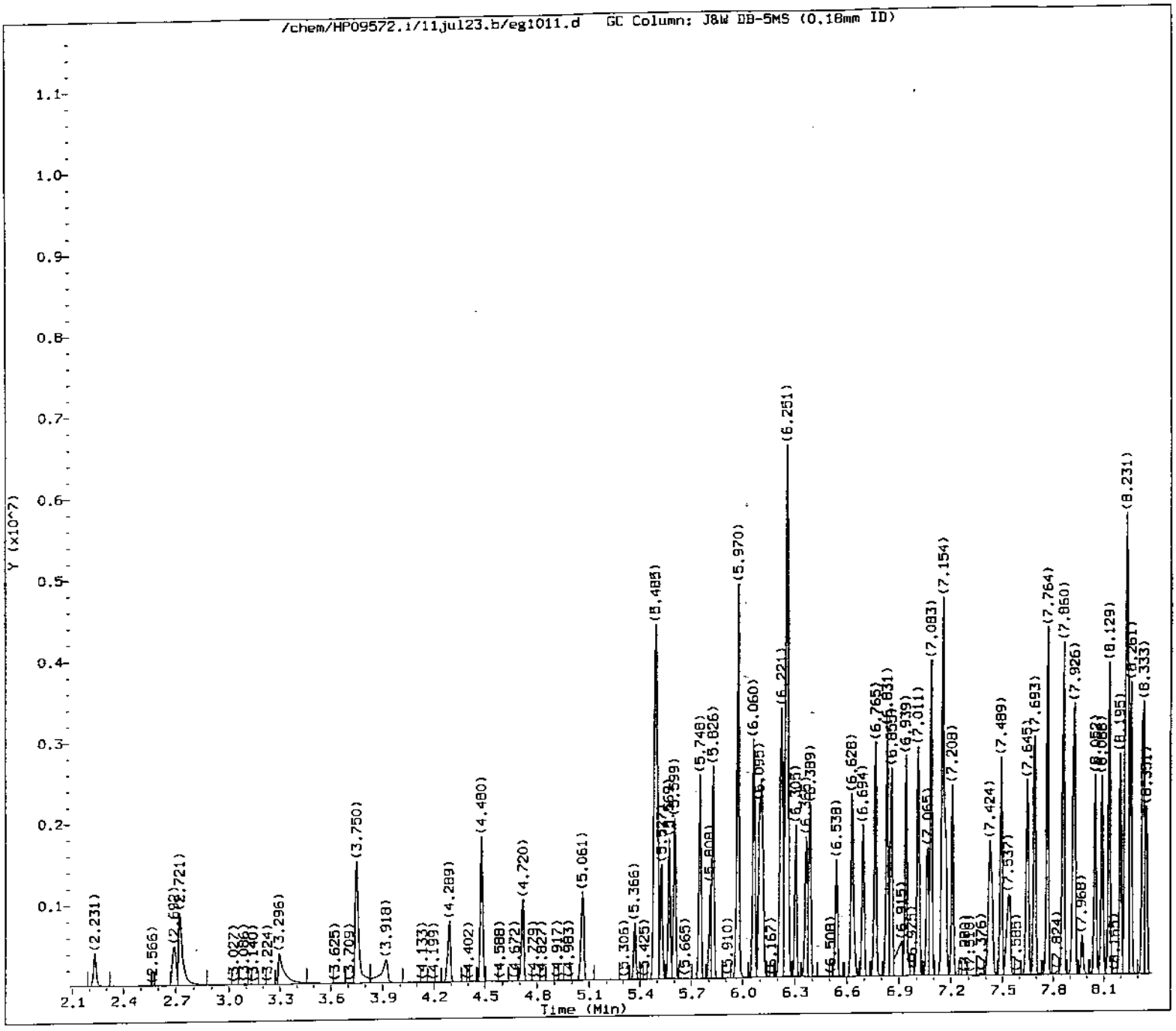
Instrument ID: HP09572.i Injection Date: 23-JUL-2011 11:21 Operator: lmh00956



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 3140}{0 + 3140 + 2510092} \times 100 = 0.1$$

USF83 8817



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1011.d
Injection date and time: 23-JUL-2011 11:36

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:00

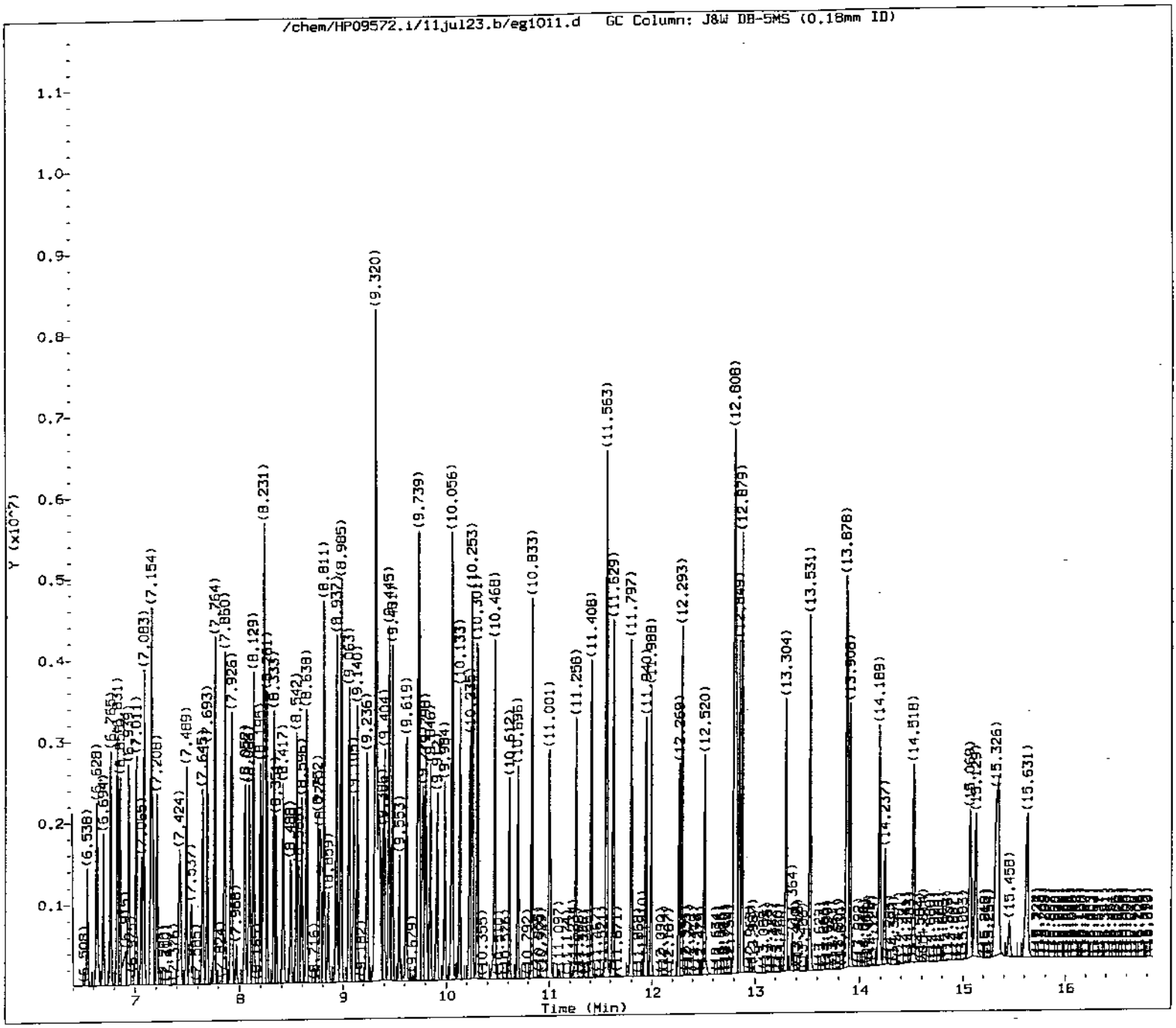
Sublist used: all1

Date, time and analyst ID of latest file update: 23-Jul-2011 12:00 lmh00956

Sample Name: SSTD080

Lab Sample ID: STD1991

7/23/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1011.d
Injection date and time: 23-JUL-2011 11:36

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:00

Sublist used: all1

Date, time and analyst ID of latest file update: 23-Jul-2011 12:00 lmh00956

Sample Name: SSTD080

Lab Sample ID: STD1991

USF993 0519

7/28/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1011.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 11:36 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all1
Calibration date and time: 23-JUL-2011 12:00
Date, time and analyst ID of latest file update: 23-Jul-2011 12:00 lmh00956

Sample Name: SSTD080 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.231	88	176252	82.4820
3)	N-Nitrosodimethylamine	(1)	2.692	74	348657	92.0543
4)	Pyridine	(1)	2.721	79	556605	87.8169
6)	2-Picoline	(1)	3.750	93	564107	87.4391
2)	N-Nitrosomethylethylamine	(1)	3.918	88	269351	89.4441
8)	Methyl methanesulfonate	(1)	4.289	80	307896	85.3336
9)	N-Nitrosodiethylamine	(1)	4.720	102	257677	89.0071
15)	Ethyl methanesulfonate	(1)	5.061	109	252835	86.7340
22)	Phenol	(1)	5.503	94	790977	89.5266
21)	Aniline	(1)	5.485	93	884369	87.6405
33)	Pentachloroethane	(1)	5.527	167	148389	81.3060
23)	bis(2-Chloroethyl)ether	(1)	5.569	93	555753	86.3839
24)	2-Chlorophenol	(1)	5.599	128	468764	86.2970
26)	1,3-Dichlorobenzene	(1)	5.748	146	472220	85.3492
27)	1,4-Dichlorobenzene-d4	(1)	5.808	152	139444	40.0000
28)	1,4-Dichlorobenzene	(1)	5.826	146	485770	84.9654
31)	Benzyl alcohol	(1)	5.970	108	355197	89.1655
32)	1,2-Dichlorobenzene	(1)	5.970	146	477407	88.1572
17)	Indene	(1)	6.060	115	801344	88.0860
34)	2-Methylphenol	(1)	6.113	108	473498M	85.6366
35)	2,2'-oxybis(1-Chloropropane)	(1)	6.101	45	650920	64.7752
36)	bis(2-Chloroisopropyl)ether	(1)	6.101	45	650920	64.7627
30)	N-Nitrosopyrrolidine	(1)	6.221	100	295882	88.3728
37)	Acetophenone	(1)	6.221	105	730658	83.9874
38)	N-Nitroso-di-n-propylamine	(1)	6.245	70	520797	87.0736
39)	4-Methylphenol	(1)	6.251	108	591842	92.0593
7)	N-Nitrosomorpholine	(1)	6.257	56	355720	74.7527
40)	o-Toluidine	(1)	6.257	106	864124	88.3223
41)	Hexachloroethane	(1)	6.305	117	196244	86.4900
43)	Nitrobenzene	(2)	6.389	77	667218	82.3820
18)	N-Nitrosopiperidine	(2)	6.538	114	261214	82.0609
46)	Isophorone	(2)	6.628	82	1176391	81.5850
47)	2-Nitrophenol	(2)	6.694	139	279985	87.1916
48)	2,4-Dimethylphenol	(2)	6.765	107	547559	83.8280
93)	O,O,O-triethylphosphorothioate	(2)	6.831	198	246348	81.9973
49)	bis(2-Chloroethoxy)methane	(2)	6.855	93	703542	84.9787
50)	Benzoic acid	(2)	6.915	105	432047	79.8968
51)	2,4-Dichlorophenol	(2)	6.939	162	409223	84.9090
52)	1,2,4-Trichlorobenzene	(2)	7.011	180	447623	85.0249
53)	Naphthalene-d8	(2)	7.065	136	662929	40.0000
54)	Naphthalene	(2)	7.083	128	1426780	81.2411
56)	4-Chloroaniline	(2)	7.148	127	632221	82.7491
55)	2,6-Dichlorophenol	(2)	7.154	162	414222	85.8400

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1011.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 11:36 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all1
Calibration date and time: 23-JUL-2011 12:00
Date, time and analyst ID of latest file update: 23-Jul-2011 12:00 lmh00956

Sample Name: SSTD080 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	7.172	213	259176	89.3437
59)	Hexachlorobutadiene	(2)	7.208	225	212199	83.6252
65)	Quinoline	(2)	7.424	129	919850	79.5400
66)	Caprolactam	(2)	7.543	113	195692 A	81.7585
5)	N-Nitrosodi-n-butylamine	(2)	7.489	84	444511	71.6635
68)	4-Chloro-3-methylphenol	(2)	7.645	107	480932	82.0292
61)	Safrole	(2)	7.693	162	403286	86.0566
64)	cis-Isosafrole	(3)	7.974	162	67694	9.3905
69)	2-Methylnaphthalene	(2)	7.764	142	971760	80.3428
71)	1-Methylnaphthalene	(2)	7.860	142	933513	82.0753
72)	Hexachlorocyclopentadiene	(3)	7.920	237	250106	80.2780
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.926	216	418845	81.4769
62)	trans-Isosafrole	(3)	8.195	162	399310	74.4232
76)	2,4,6-Trichlorophenol	(3)	8.052	196	298154	83.9002
77)	2,4,5-Trichlorophenol	(3)	8.088	196	328760	82.6258
63)	Isosafrole	(3)	8.195	162	399310	83.6216
82)	Biphenyl	(3)	8.231	154	1193628	78.9027
83)	Diphenyl	(3)	8.231	154	1193628	78.9027
84)	1,1'-Biphenyl	(3)	8.231	154	1193628	78.9027
85)	2-Chloronaphthalene	(3)	8.243	162	1039786	75.0765
86)	1-Chloronaphthalene	(3)	8.261	162	909443	83.6547
87)	Diphenyl ether	(3)	8.333	170	638057	78.8608
88)	2-Nitroaniline	(3)	8.351	138	335047	80.7889
60)	1,4-Naphthoquinone	(3)	8.417	158	388800	80.0713
57)	1,4-Dinitrobenzene	(3)	8.566	168	203130	97.5186
92)	Dimethylphthalate	(3)	8.542	163	1093231	80.7409
58)	1,3-Dinitrobenzene	(3)	8.494	168	183147	74.8963
98)	2,6-Dinitrotoluene	(3)	8.596	165	271056	83.1916
100)	Acenaphthylene	(3)	8.644	152	1423992	80.3397
102)	3-Nitroaniline	(3)	8.752	138	290137	84.0734
103)	Acenaphthene-d10	(3)	8.775	164	417125	40.0000
106)	Acenaphthene	(3)	8.811	153	940916	79.5326
107)	2,4-Dinitrophenol	(3)	8.859	184	153046	81.5104
110)	Pentachlorobenzene	(3)	8.937	250	380815	83.8559
109)	4-Nitrophenol	(3)	8.937	109	181751	89.0037
112)	Dibenzofuran	(3)	8.979	168	1360473	80.2797
113)	2,4-Dinitrotoluene	(3)	8.991	165	357050	83.0854
114)	1-Naphthylamine	(3)	9.063	143	1038855	80.2692
115)	2,3,4,6-Tetrachlorophenol	(3)	9.105	232	253436	82.3206
117)	2-Naphthylamine	(3)	9.140	143	1051748	80.3703
118)	Diethylphthalate	(3)	9.236	149	1062687	80.4472
119)	Fluorene	(3)	9.314	166	1140725	79.2139
29)	Thionazin	(3)	9.314	107	207119	83.3752

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1011.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 11:36 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all1
Calibration date and time: 23-JUL-2011 12:00
Date, time and analyst ID of latest file update: 23-Jul-2011 12:00 lmh00956

Sample Name: SSTD080 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	9.326	204	534182	78.7218
70)	5-Nitro-o-toluidine	(3)	9.344	152	330733	76.9009
121)	4-Nitroaniline	(3)	9.362	138	293998	76.4005
122)	4,6-Dinitro-2-methylphenol	(4)	9.386	198	206141	88.0407
67)	1-Nitronaphthalene	(4)	9.404	173	217771	84.4990
123)	N-Nitrosodiphenylamine	(4)	9.445	169	944854	84.8964
124)	NDPA as diphenylamine	(4)	9.445	169	944363	84.8932
125)	1,2-Diphenylhydrazine	(4)	9.481	77	1457956	86.1845
108)	Tetraethyldithiopyrophosphate	(4)	9.613	97	204174	88.7312
81)	1,3,5-Trinitrobenzene	(4)	9.733	213	138624	88.2165
78)	Diallate (peak 1)	(4)	9.733	86	528879	67.8202
75)	Phorate	(4)	9.739	75	1277370	123.4604
80)	Phenacetin	(4)	9.775	108	611158	88.4597
131)	4-Bromophenyl-phenylether	(4)	9.804	248	289622	86.2428
13)	Diallate (peak 2)	(4)	9.810	86	103745	22.1830
132)	Hexachlorobenzene	(4)	9.846	284	290606	86.6609
96)	Dimethoate	(4)	9.912	87	469319	89.1588
135)	Pentachlorophenol	(4)	10.050	266	191704	83.9050
136)	Pentachloronitrobenzene	(4)	10.056	237	123212	87.8061
105)	4-Aminobiphenyl	(4)	10.056	169	959037	78.3202
97)	Pronamide	(4)	10.133	173	479963	86.3472
140)	Phenanthrene-d10	(4)	10.229	188	669190	40.0000
141)	Phenanthrene	(4)	10.253	178	1574112	86.3133
137)	Dinoseb	(4)	10.241	211	289627	85.5741
143)	Anthracene	(4)	10.307	178	1594664	86.1705
145)	Carbazole	(4)	10.468	167	1429398	82.4751
149)	Methyl parathion	(4)	10.612	109	359115	89.0267
148)	Di-n-butylphthalate	(4)	10.833	149	1792186	87.6892
150)	Parathion	(4)	10.995	109	251444	94.4270
133)	4-Nitroquinoline-1-oxide	(4)	11.013	190	143943	79.4185
99)	Isodrin	(4)	11.258	193	167654	84.5392
153)	Fluoranthene	(4)	11.408	202	1518312	82.4163
154)	Benzidine	(5)	11.563	184	2641753	255.7376
155)	Pyrene	(5)	11.629	202	1603211	82.2309
147)	p-Dimethylaminoazobenzene	(5)	11.940	225	343317	90.3689
144)	Chlorobenzilate	(5)	11.988	139	516409	87.0623
161)	3,3'-Dimethylbenzidine	(5)	12.269	212	856469	88.9145
162)	Butylbenzylphthalate	(5)	12.293	149	745669	85.8855
101)	2-Acetylaminofluorene	(5)	12.520	181	674554	94.9982
165)	3,3'-Dichlorobenzidine	(5)	12.802	252	550354	91.2942
164)	Benzo(a)anthracene	(5)	12.813	228	1457555	85.8064
167)	4,4'-Methylenebis(2-Chloroanil	(5)	12.808	231	280239	88.0159
166)	Chrysene-d12	(5)	12.825	240	617199	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0522

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1011.d
Injection date and time: 23-JUL-2011 11:36
Instrument ID: HP09572.i
Analyst ID: lmh00956

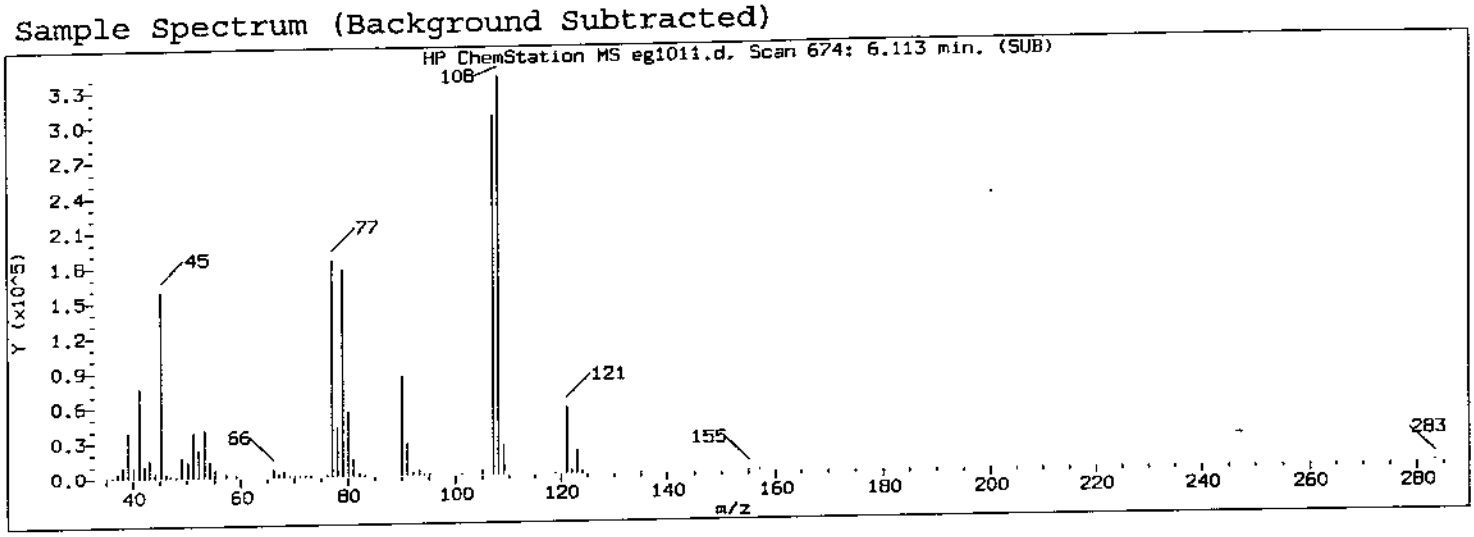
Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:00
Sublist used: all1
Date, time and analyst ID of latest file update: 23-Jul-2011 12:00 lmh00956

Sample Name: SSTD080
Lab Sample ID: STD1991

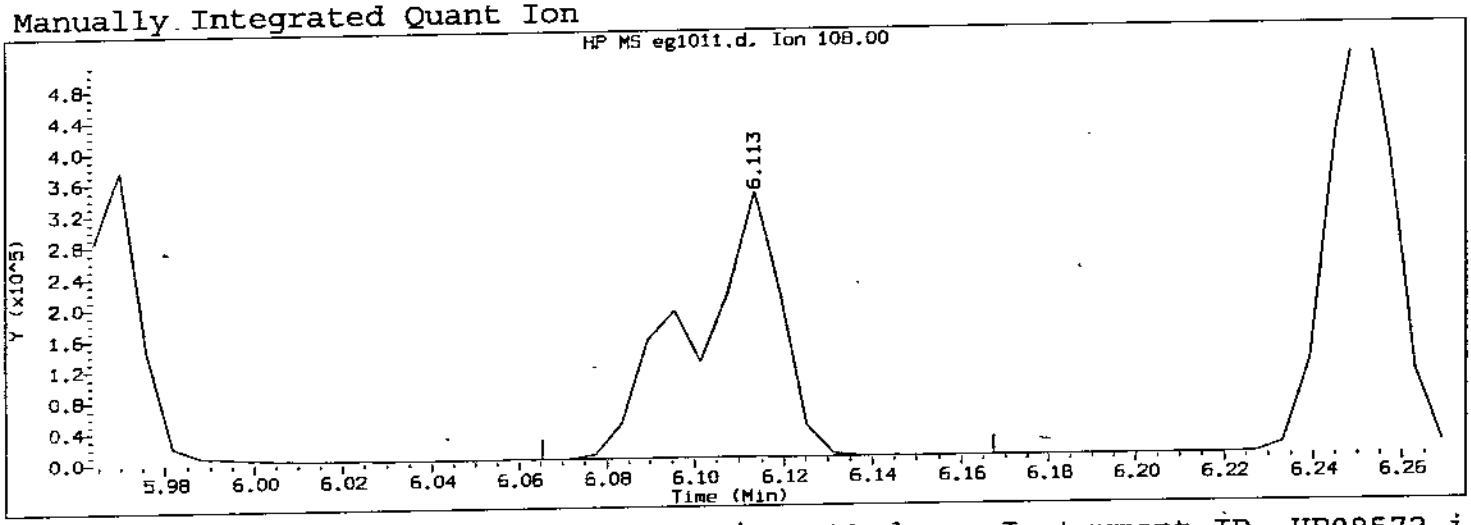
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168) Chrysene	(5)	12.849	228	1363182	81.6764
169) bis(2-Ethylhexyl)phthalate	(5)	12.879	149	1060082	90.3945
170) 6-Methylchrysene	(5)	13.304	242	1014848	86.9577
172) Di-n-octylphthalate	(6)	13.531	149	1687539	85.6225
174) 7,12-Dimethylbenz[a]anthracene	(6)	13.878	256	659323	84.3877
173) Benzo(b)fluoranthene	(6)	13.884	252	1342440	89.8185
175) Benzo(k)fluoranthene	(6)	13.908	252	1286137	77.1854
176) Benzo(a)pyrene	(6)	14.189	252	1211972	84.9282
177) Perylene-d12	(6)	14.237	264	542158	40.0000
180) 3-Methylcholanthrene	(6)	14.518	268	712103	95.3833
181) Dibenz(a,h)acridine	(6)	15.069	279	962708	94.3269
183) Dibenz(a,j)acridine	(6)	15.129	279	1020886	80.8737
185) Indeno(1,2,3-cd)pyrene	(6)	15.326	276	1293438	87.7015
187) Dibenz(a,h)anthracene	(6)	15.344	278	1082361	87.0406
188) Benzo(g,h,i)perylene	(6)	15.631	276	1067684	86.2539
194) Diallate TRANS/CIS	(4)	23.556	86	632624	90.0032
11) 2-Fluorophenol	(1)	4.480	112	441383	87.3061
19) Phenol-d5	(1)	5.485	99	660403	91.4916
20) Phenol-d6	(1)	5.485	99	660403	91.4916
42) Nitrobenzene-d5	(2)	6.365	82	658905	85.8446
79) 2-Fluorobiphenyl	(3)	8.129	172	1057174	80.4348
126) 2,4,6-Tribromophenol	(3)	9.553	330	139235	89.5743
157) Terphenyl-d14	(5)	11.797	244	1163066	90.2934

M = Compound was manually integrated.
A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1011.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 11:36 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all
Calibration date and time: 23-JUL-2011 12:00
Date, time and analyst ID of latest file update: 23-Jul-2011 12:00 lmh00956

Sample Name: SSTD080 Lab Sample ID: STD1991

Compound Number : 34
Compound Name : 2-Methylphenol
Scan Number : 674
Retention Time (minutes): 6.113
Quant Ion : 108
Area (flag) : 473498 M
Concentration (ng/ul) : 85.6366
Integration start scan : 665 Integration stop scan: 682
Y at integration start : 818 Y at integration end: 206

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: lmh 07/23/11

USF03 0524

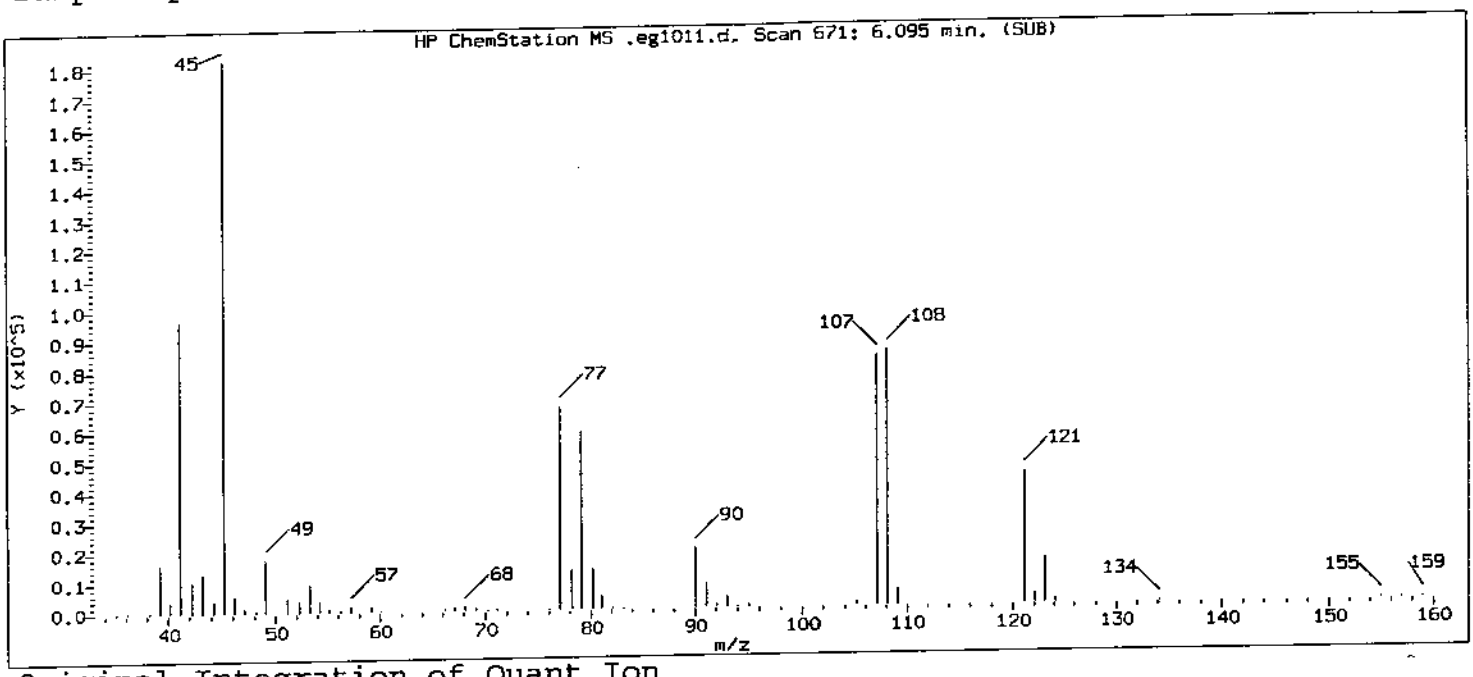
GC/MS audit/management approval: Matthew E. Barton

JUL 25 2011

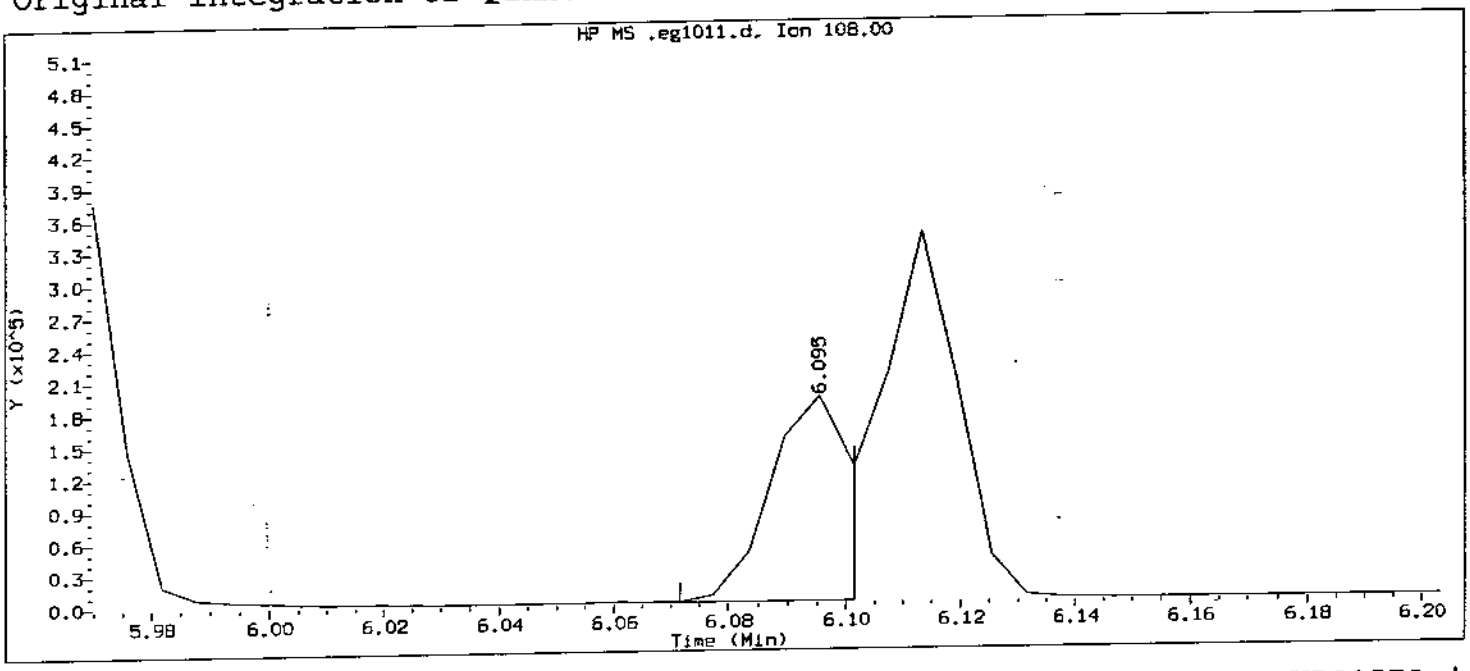
Manual Integration Report for data file /chem/HP09572.i/11jul23.b/eg1011.d, generated on 07/23/2011 at 12:00

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1011.d
Injection date and time: 23-JUL-2011 11:36

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 11:56

Sublist used: all1

Date, time and analyst ID of latest file update: 23-Jul-2011 11:56 Automation

Sample Name: SSTD080

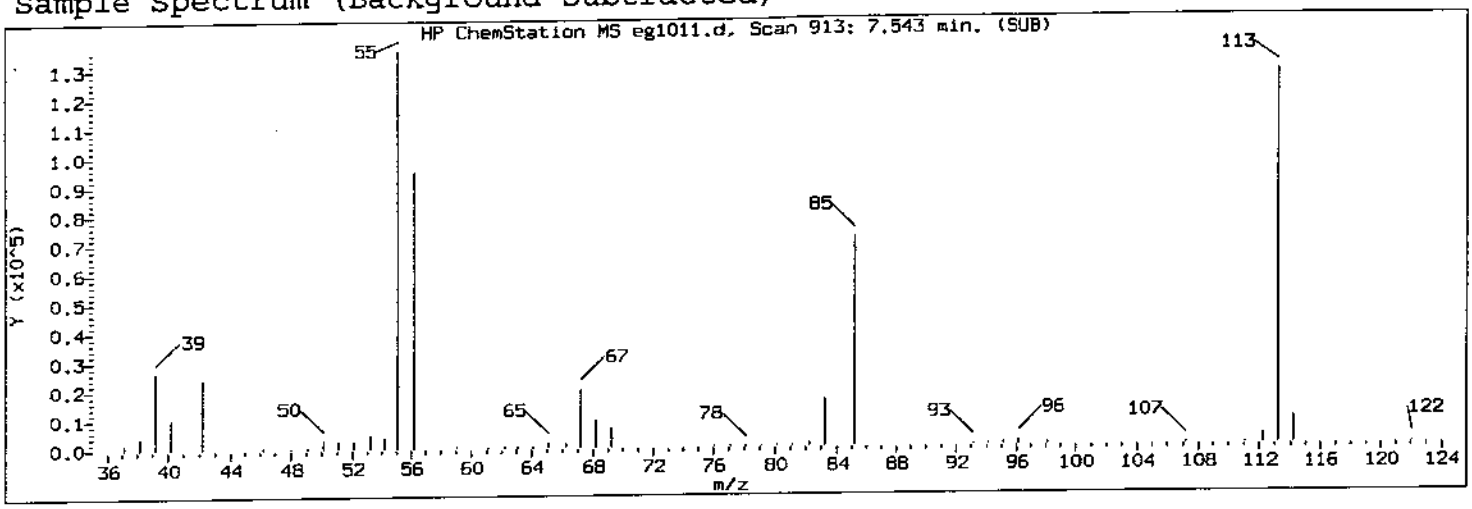
Lab Sample ID: STD1991

Compound Number	: 34
Compound Name	: 2-Methylphenol
Scan Number	: 671
Retention Time (minutes)	: 6.095
Quant Ion	: 108
Area	: 164786
Concentration (ng/ul)	: 29.8030
Integration start scan	: 666 Integration stop scan: 671
Y at integration start	: 0 Y at integration end: 0

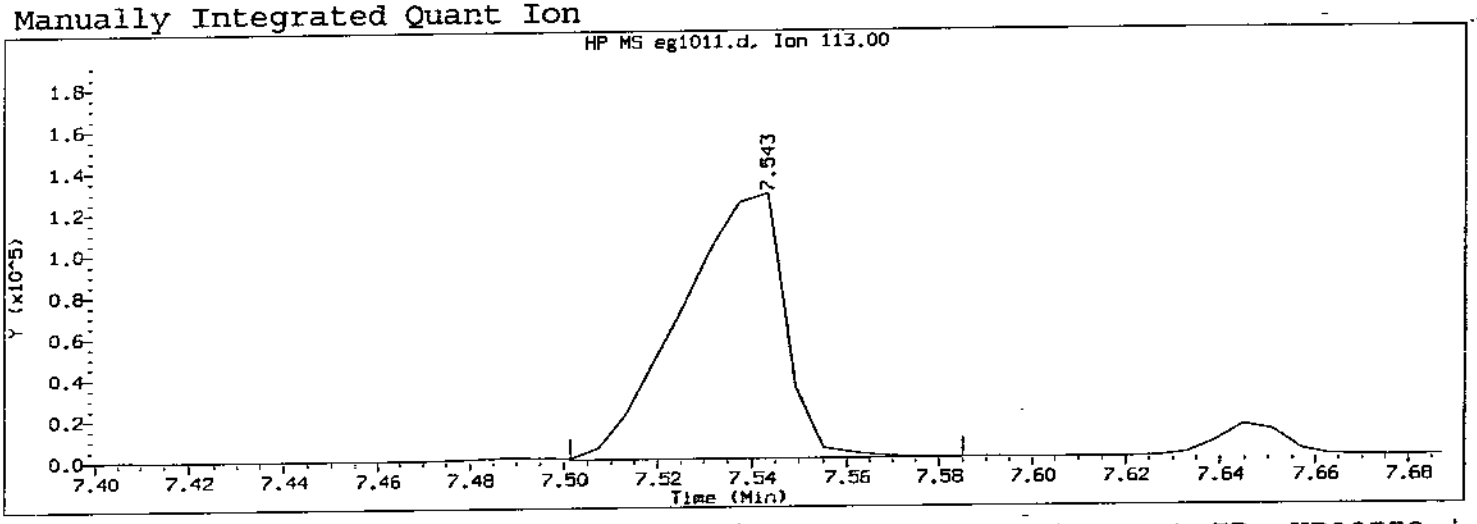
USF03 0525

Original Integration Report for data file /chem/HP09572.i/11jul23.b/eg1011.d, generated on 07/23/2011 at 12:00

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1011.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 11:36 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all1
Calibration date and time: 23-JUL-2011 12:00
Date, time and analyst ID of latest file update: 23-Jul-2011 12:00 lmh00956

Sample Name: SSTD080 Lab Sample ID: STD1991

Compound Number : 66
Compound Name : Caprolactam
Scan Number : 913
Retention Time (minutes): 7.543
Quant Ion : 113
Area (flag) : 195692A
Concentration (ng/ul) : 81.7585
Integration start scan : 905 Integration stop scan: 919
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: lmh 07/23/11

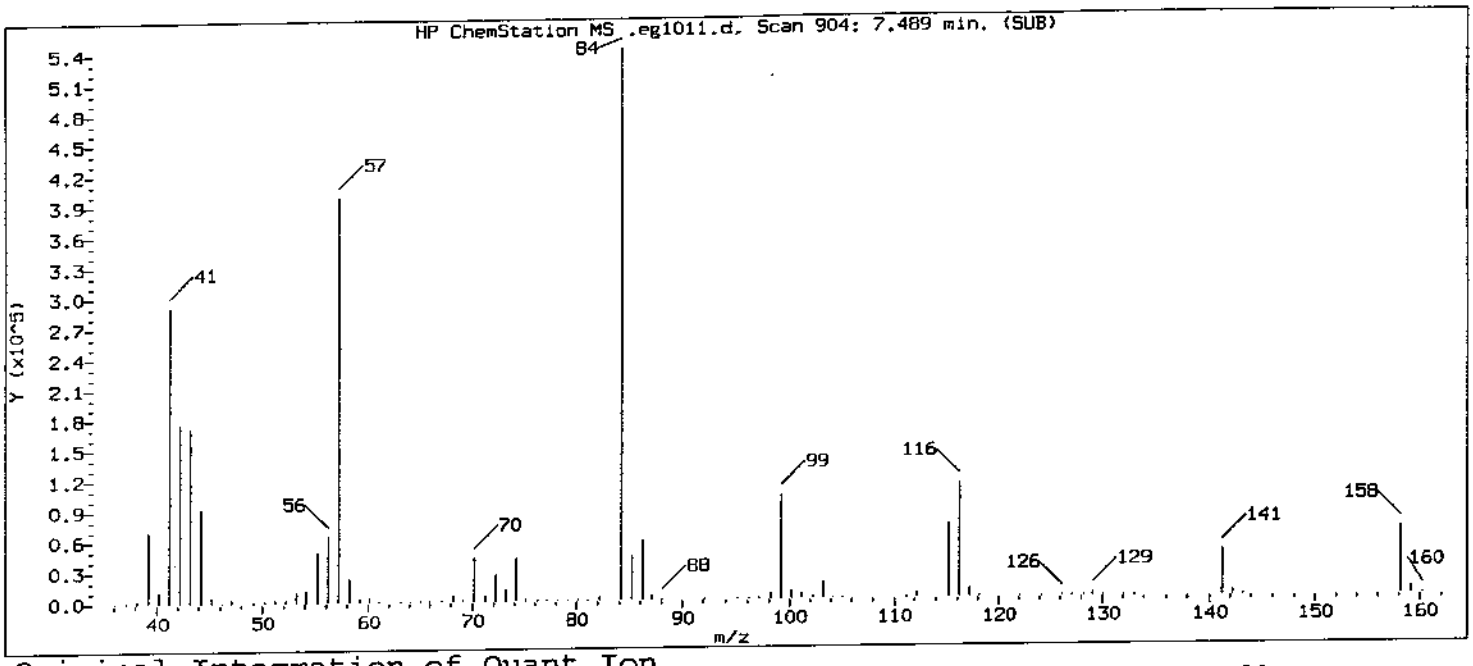
GC/MS audit/management approval: Matthew E. Barton JUL 25 2011

USP93 8526

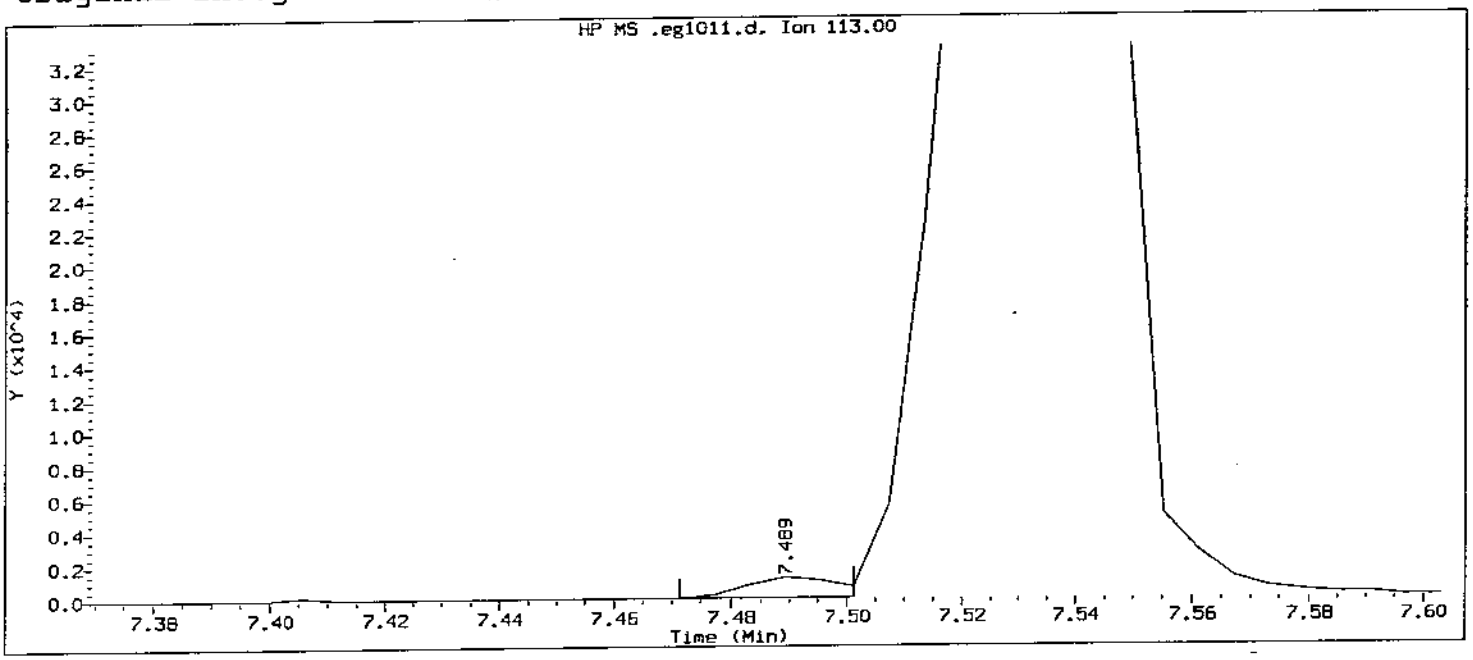
Manual Integration Report for data file /chem/HP09572.i/11jul23.b/eg1011.d, generated on 07/23/2011 at 12:00

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1011.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 11:36 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all1
Calibration date and time: 23-JUL-2011 11:56
Date, time and analyst ID of latest file update: 23-Jul-2011 11:56 Automation

Sample Name: SSTD080 Lab Sample ID: STD1991

Compound Number	: 66
Compound Name	: Caprolactam
Scan Number	: 904
Retention Time (minutes)	: 7.489
Quant Ion	: 113
Area	: 1295
Concentration (ng/ul)	: 0.5411
Integration start scan	: 900 Integration stop scan: 905
Y at integration start	: 0 Y at integration end: 0

USF03 8527

Original Integration Report for data file /chem/HP09572.i/11jul23.b/eg1011.d, generated on 07/23/2011 at 12:00

Data File: /chem/HP09572.i/11jul24.b/eg1050.d

Date : 24-JUL-2011 09:16

Client ID: DFTPP

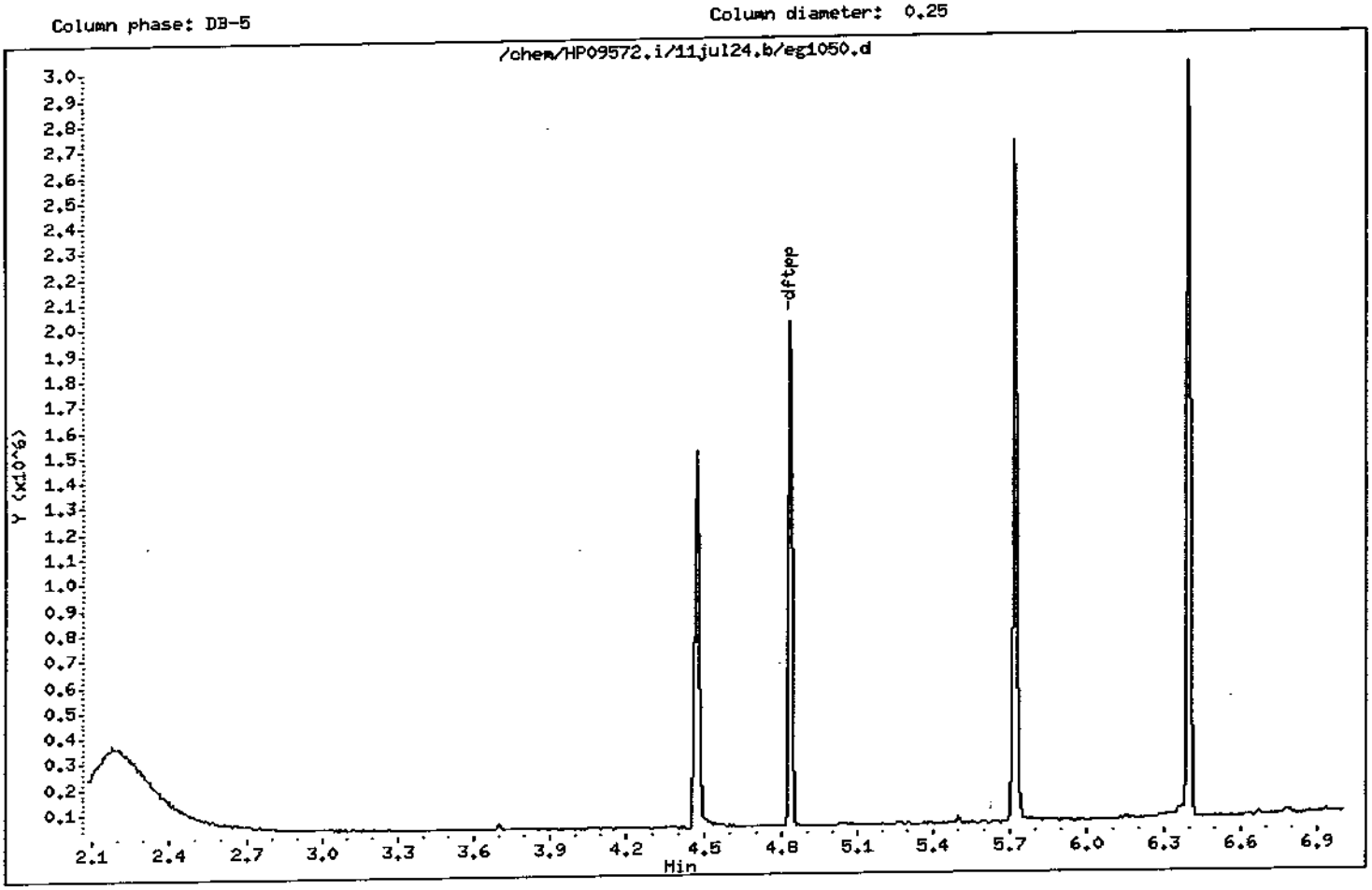
Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP09572.i/11jul24.b/eg1050.d

Date : 24-JUL-2011 09:16

Client ID: DFTPP

Instrument: HP09572.i

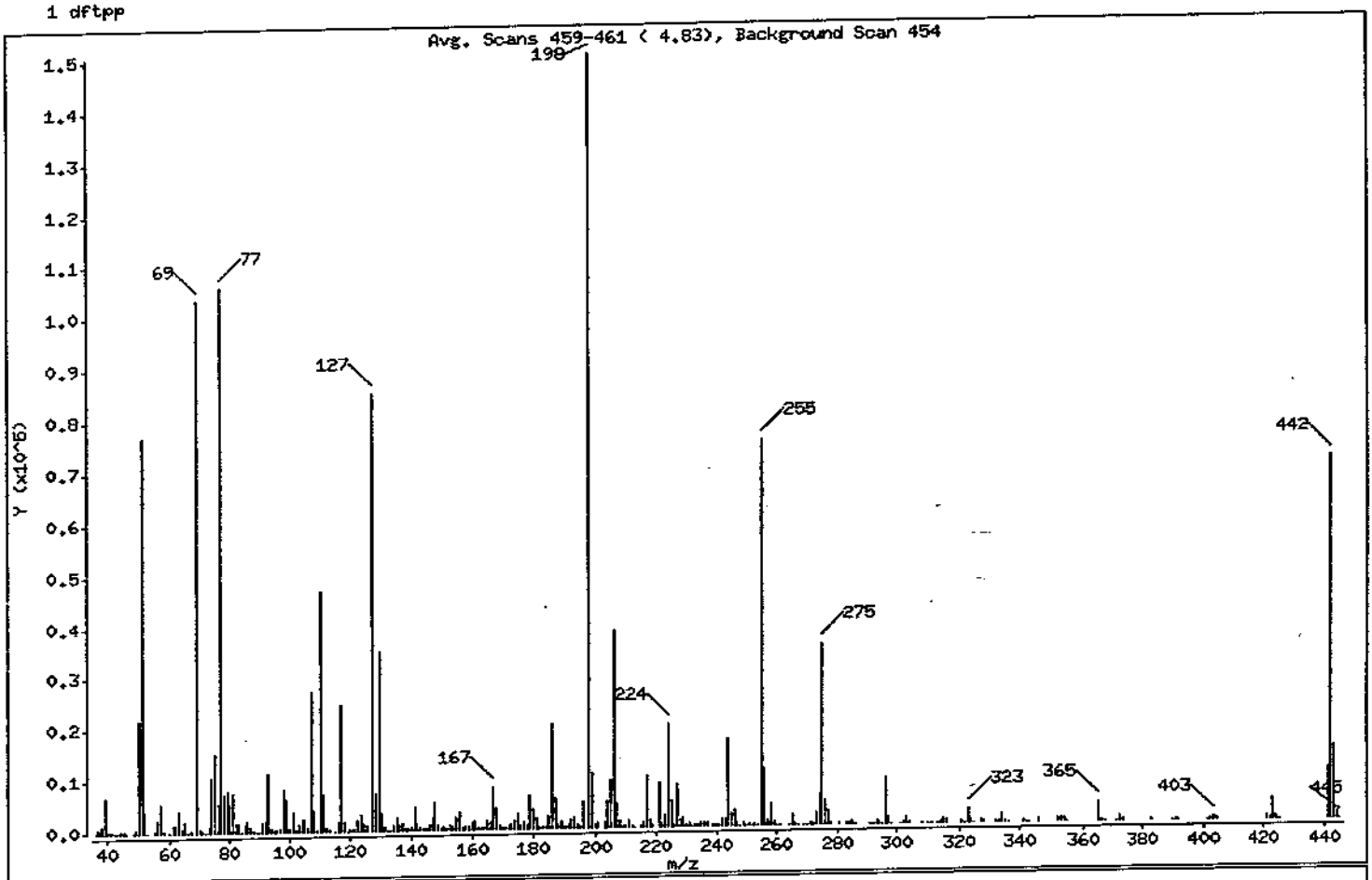
Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	51.07
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	68.65
70	Less than 2.00% of mass 69	0.46 (0.67)
127	40.00 - 60.00% of mass 198	56.60
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.03
275	10.00 - 30.00% of mass 198	23.34
365	Greater than 1.00% of mass 198	2.48
441	Present, but less than mass 443	6.55
442	40.00 - 99.99% of mass 198	46.97
443	17.00 - 23.00% of mass 442	9.51 (20.25)

USP03 0529

Data File: /chem/HP09572.i/11jul24.b/eg1050.d

Date : 24-JUL-2011 09:16

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: eg1050.d

Spectrum: Avg. Scans 459-461 (4.83), Background Scan 454

Location of Maximum: 198.00

Number of points: 297

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	19	116.00	1761	192.00	1891	275.00	35176
37.00	630	117.00	24600	193.00	2046	276.00	4904
38.00	1340	118.00	1862	194.00	524	277.00	2888
39.00	6807	119.00	147	195.00	408	278.00	472
40.00	208	120.00	452	196.00	5166	281.00	259
41.00	227	121.00	228	198.00	150656	283.00	482
42.00	4	122.00	2000	199.00	10596	284.00	214
43.00	156	123.00	3174	200.00	792	285.00	596
44.00	417	124.00	1407	201.00	970	286.00	140
45.00	400	125.00	941	203.00	1153	291.00	60
46.00	52	127.00	85296	204.00	5022	292.00	95
48.00	64	128.00	7101	205.00	9269	293.00	550
49.00	603	129.00	35024	206.00	38488	294.00	184
50.00	21848	130.00	3572	207.00	4852	295.00	143
51.00	76968	131.00	743	208.00	1551	296.00	8947
52.00	4015	132.00	167	209.00	450	297.00	1397
53.00	122	133.00	55	210.00	400	298.00	57
55.00	430	134.00	1049	211.00	1458	301.00	92
56.00	2332	135.00	2584	212.00	314	302.00	193
57.00	5539	136.00	1192	213.00	140	303.00	1267
58.00	333	137.00	1401	215.00	451	304.00	260
60.00	101	138.00	413	216.00	949	308.00	81
61.00	1296	139.00	310	217.00	9900	310.00	77
62.00	1389	140.00	657	218.00	1549	311.00	51
63.00	4299	141.00	4375	219.00	208	313.00	125
64.00	623	142.00	1358	221.00	8610	314.00	406
65.00	1953	143.00	759	222.00	719	315.00	1055
66.00	79	144.00	310	223.00	2385	316.00	547
67.00	175	145.00	267	224.00	20008	321.00	376
69.00	103456	146.00	906	225.00	5063	322.00	164
70.00	694	147.00	2519	226.00	492	323.00	2724
71.00	178	148.00	5625	227.00	8386	324.00	615
72.00	127	149.00	1126	228.00	1246	325.00	73
73.00	1065	150.00	248	229.00	1760	327.00	730
74.00	10674	151.00	750	230.00	235	328.00	395

USP03 8539

Data File: /chem/HP09572.i/11jul24.b/eg1050.d

Date : 24-JUL-2011 09:16

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: eg1050.d

Spectrum: Avg. Scans 459-461 (4.83), Background Scan 454

Location of Maximum: 198.00

Number of points: 297

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	15367	152.00	494	231.00	685	332.00	175
76.00	5615	153.00	1139	232.00	128	333.00	270
77.00	105872	154.00	689	233.00	186	334.00	1771
78.00	7177	155.00	2356	234.00	458	335.00	398
79.00	7903	156.00	3317	235.00	788	336.00	84
80.00	5404	157.00	428	236.00	551	341.00	331
81.00	7542	158.00	789	237.00	756	342.00	51
82.00	1657	159.00	691	239.00	365	343.00	68
83.00	1605	160.00	1250	240.00	202	346.00	621
84.00	125	161.00	1814	241.00	467	352.00	901
85.00	1324	162.00	486	242.00	1334	353.00	650
86.00	2164	163.00	219	243.00	1269	354.00	819
87.00	1166	164.00	276	244.00	16944	355.00	166
88.00	360	165.00	1648	245.00	2552	365.00	3738
89.00	33	166.00	1357	246.00	3277	366.00	304
90.00	60	167.00	8430	247.00	588	367.00	67
91.00	1699	168.00	4148	248.00	88	371.00	126
92.00	2046	169.00	559	249.00	676	372.00	1202
93.00	11406	170.00	274	250.00	88	373.00	359
94.00	829	171.00	444	251.00	258	383.00	330
95.00	447	172.00	823	252.00	81	390.00	171
96.00	263	173.00	1021	253.00	204	391.00	181
97.00	569	174.00	1788	254.00	106	392.00	67
98.00	8202	175.00	2963	255.00	75016	401.00	67
99.00	6326	176.00	820	256.00	11068	402.00	407
100.00	667	177.00	1478	257.00	1146	403.00	750
101.00	3653	178.00	639	258.00	4298	404.00	230
102.00	353	179.00	6612	259.00	686	421.00	578
103.00	1492	180.00	3717	260.00	139	422.00	442
104.00	2560	181.00	2157	261.00	138	423.00	4164
105.00	2560	182.00	311	264.00	166	424.00	701
106.00	820	183.00	190	265.00	2127	425.00	51
107.00	27320	184.00	392	266.00	463	441.00	9876
108.00	4117	185.00	2508	267.00	125	442.00	70784
109.00	177	186.00	20456	269.00	65	443.00	14333

00193 0531

Data File: /chem/HP09572.i/11jul24.b/eg1050.d

Date : 24-JUL-2011 09:16

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP1991;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: eg1050.d

Spectrum: Avg. Scans 459-461 (4.83), Background Scan 454

Location of Maximum: 198.00

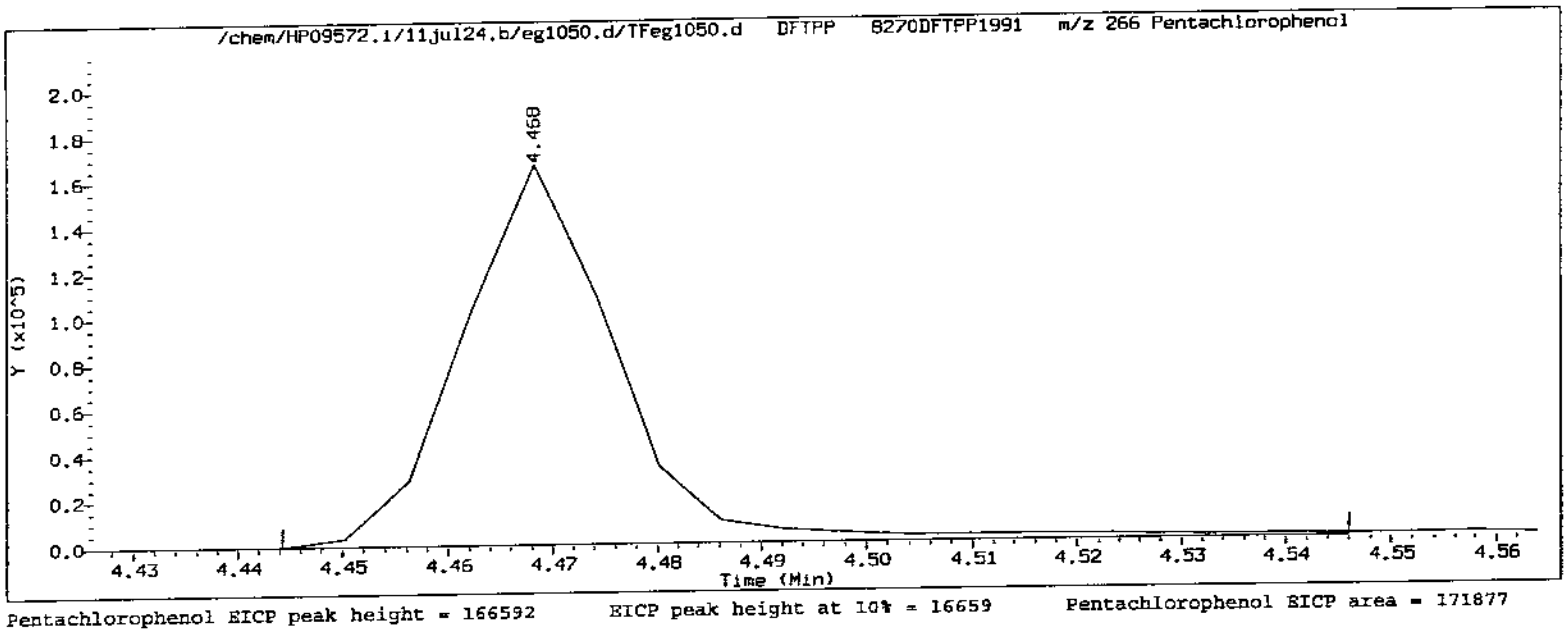
Number of points: 297

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	46816	187.00	5896	270.00	54	444.00	1453
111.00	7234	188.00	701	271.00	190	445.00	55
112.00	824	189.00	1435	272.00	258		
113.00	279	190.00	359	273.00	2455		
115.00	154	191.00	814	274.00	6056		

USP83 8532

Assessment of GC Column Performance and Injection Port Inertness for

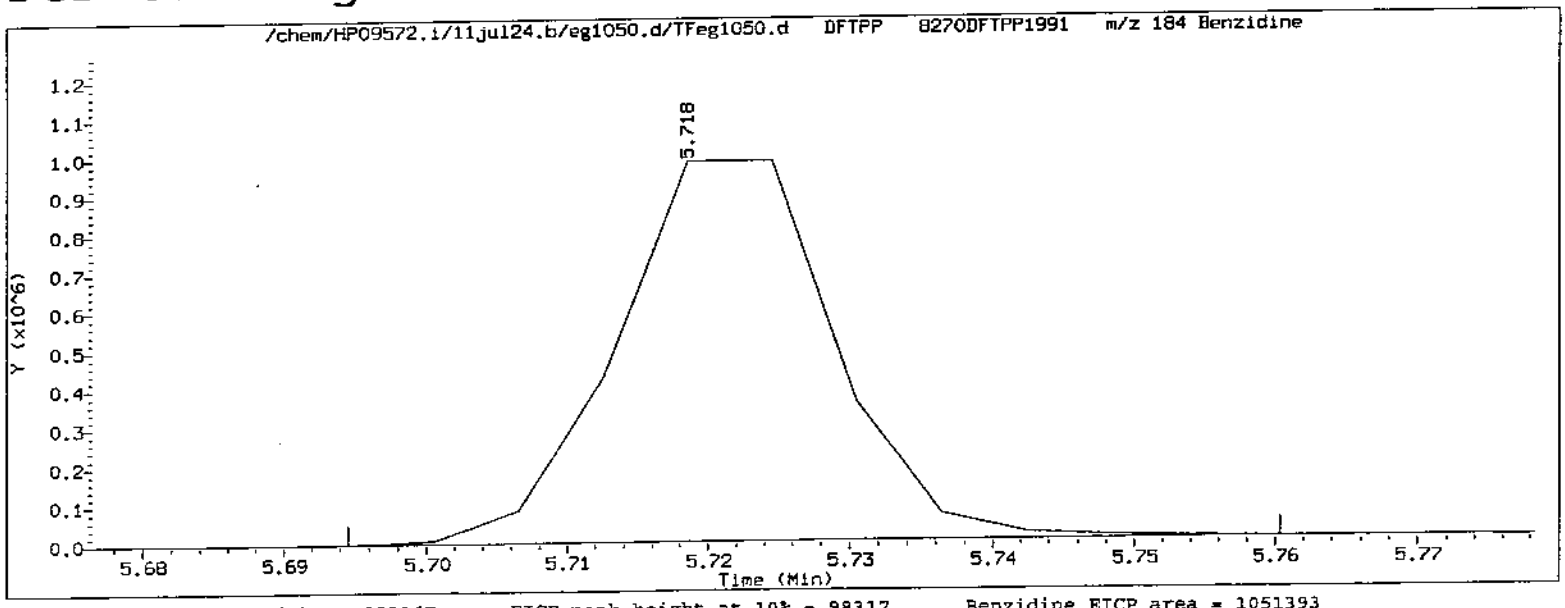
Instrument ID: HP09572.i Injection Date: 24-JUL-2011 09:16 Operator: lmh00956



Pentachlorophenol EICP peak height = 166592 EICP peak height at 10% = 16659 Pentachlorophenol EICP area = 171877

Pentachlorophenol EICP peak apex (min.) = 4.468
RT at 10% of front half of EICP (min.) = 4.453
RT at 10% of back half of EICP (min.) = 4.484
'Front' peak width (min.) = 0.0147500000
'Tailing' peak width (min.) = 0.0161833333

$$\text{PCP tailing factor} = \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0161833333}{0.0147500000} = 1.097$$



Benzidine EICP peak height = 983167 EICP peak height at 10% = 98317 Benzidine EICP area = 1051393

Benzidine EICP peak apex (min.) = 5.718
RT at 10% of front half of EICP (min.) = 5.707
RT at 10% of back half of EICP (min.) = 5.736
'Front' peak width (min.) = 0.0116833333
'Tailing' peak width (min.) = 0.0173166667

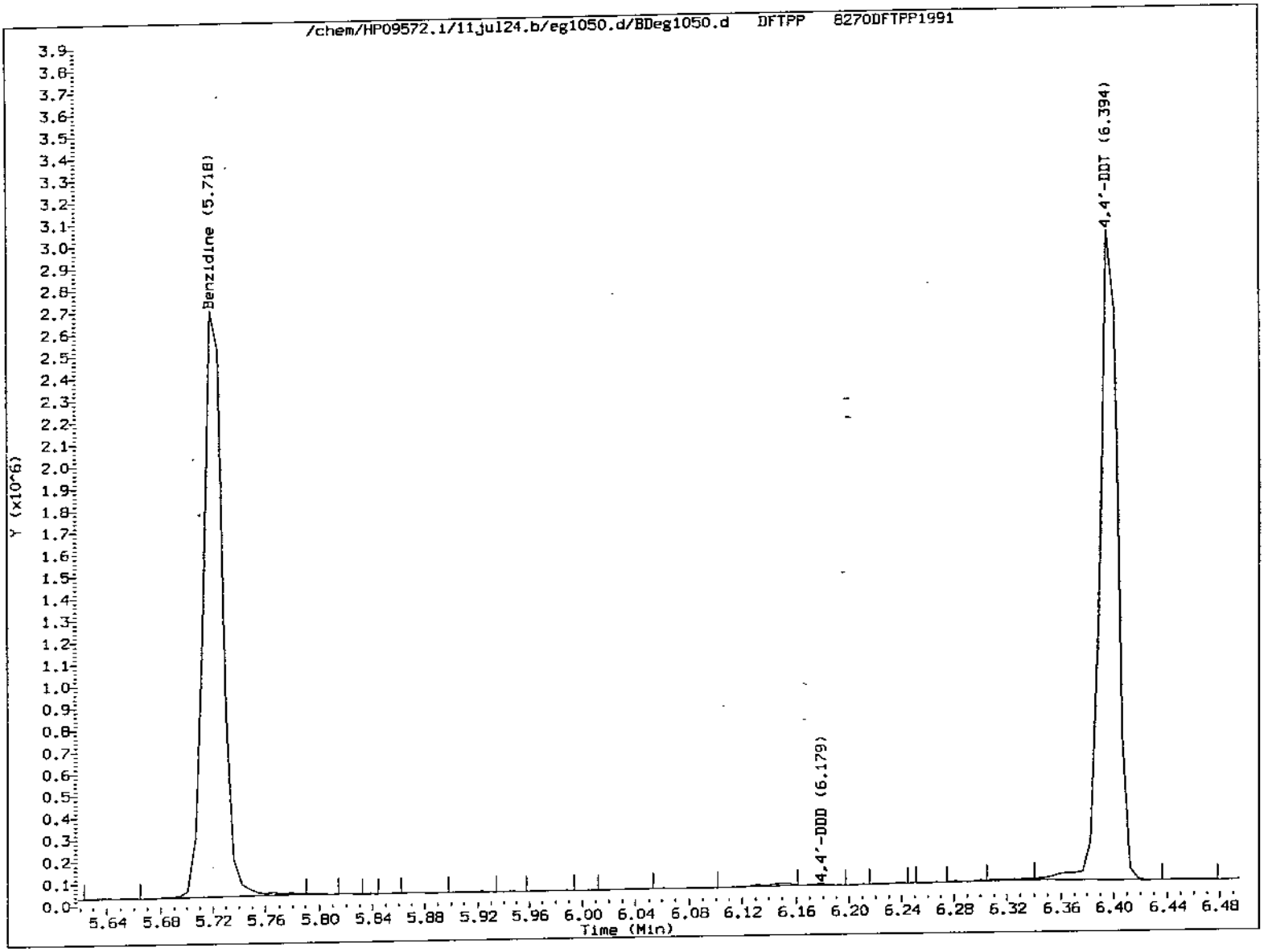
USP83 8533

$$\text{Benzidine tailing factor} = \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0173166667}{0.0116833333} = 1.482$$

printed on 07/24/2011 at 09:27

Assessment of GC Column Performance and Injection Port Inertness for

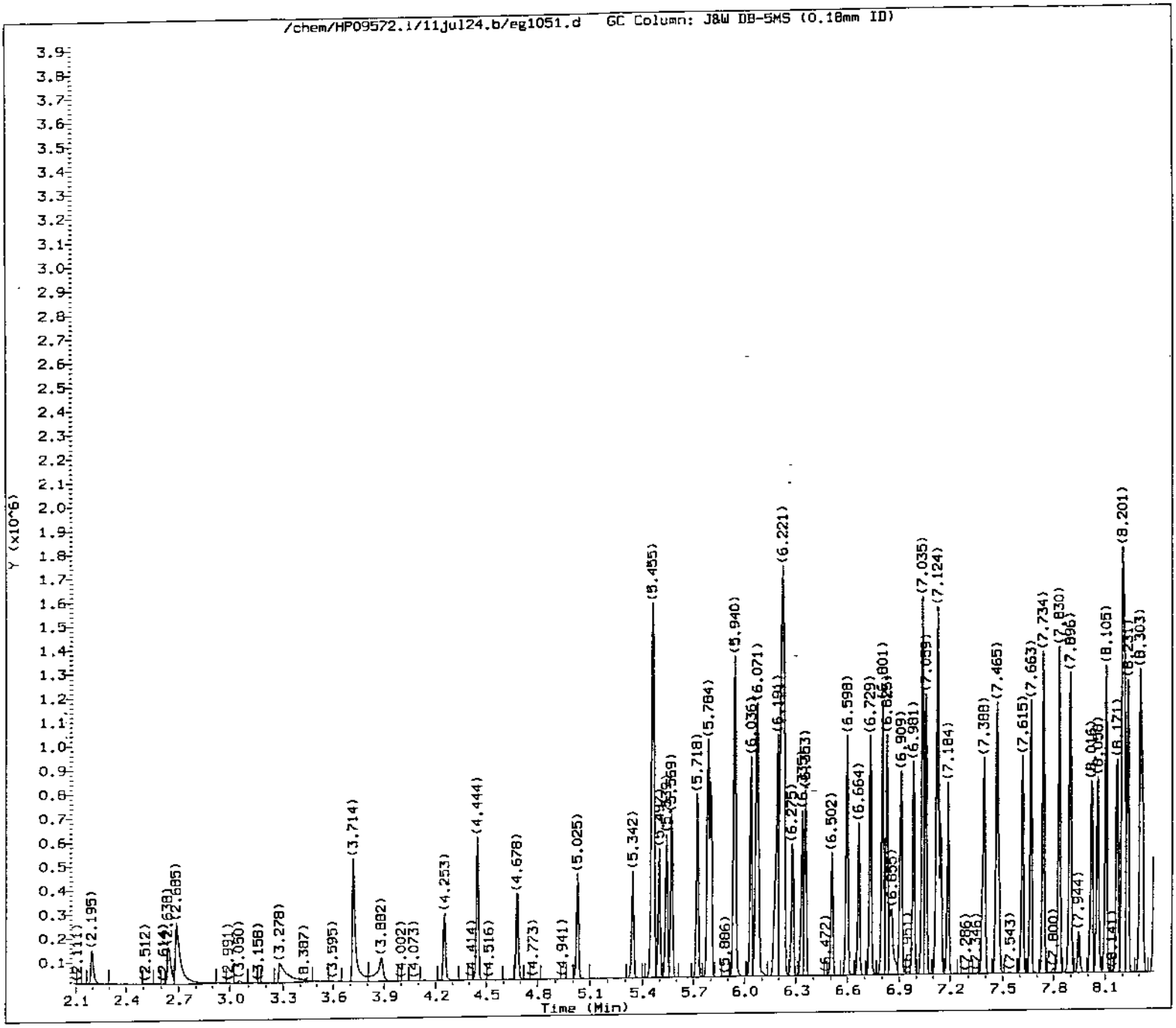
Instrument ID: HP09572.i Injection Date: 24-JUL-2011 09:16 Operator: lmh00956



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 7485}{0 + 7485 + 2773496} \times 100 = 0.3$$

WSF03 8534



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1051.d
Injection date and time: 24-JUL-2011 09:31

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 10:13

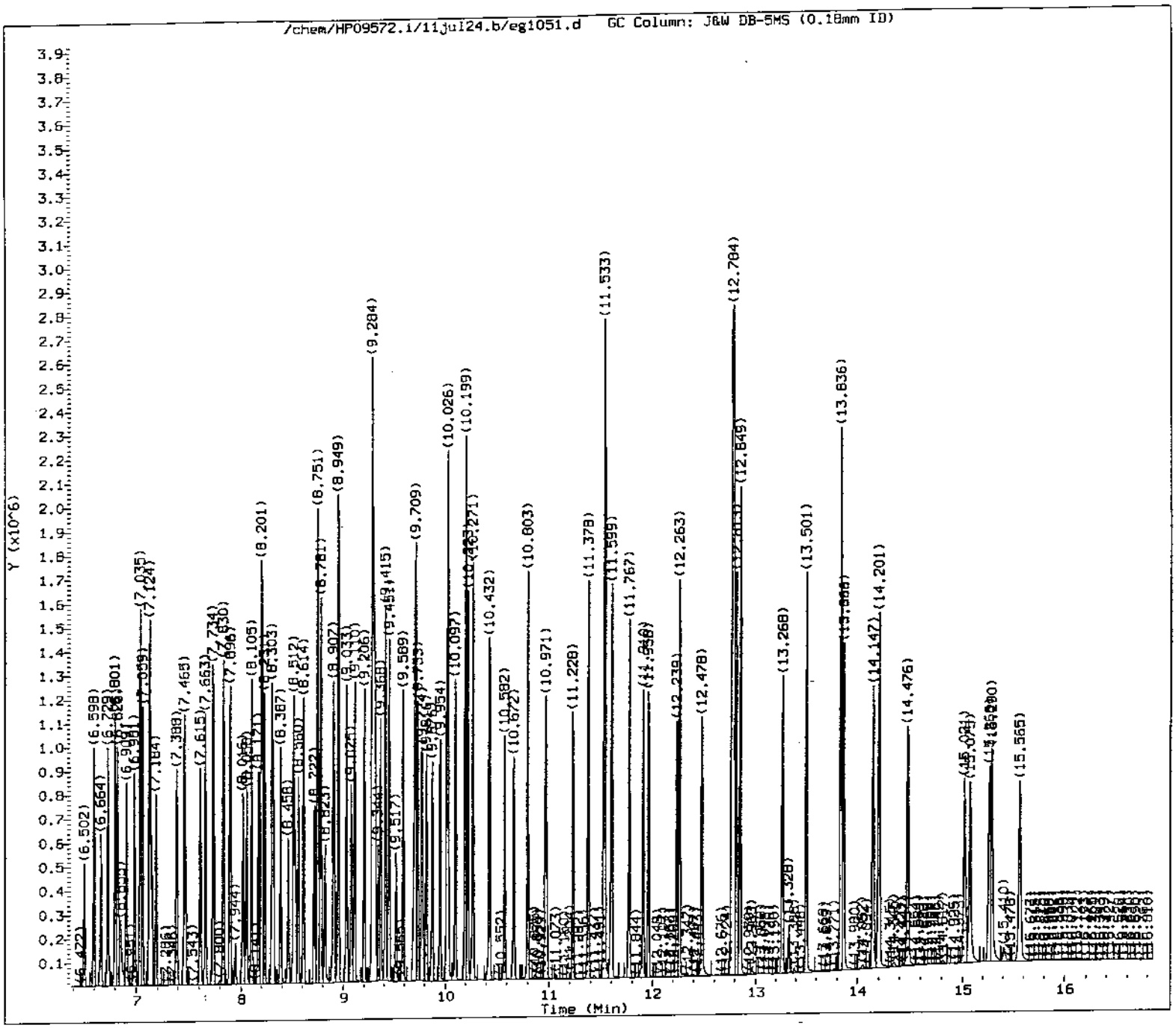
Sublist used: all1

Date, time and analyst ID of latest file update: 24-Jul-2011 10:13 lmh00956

Sample Name: SSTD030

Lab Sample ID: STD1991

0993 8535



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1051.d
Injection date and time: 24-JUL-2011 09:31

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m
Calibration date and time: 24-JUL-2011 10:13

Sublist used: all1

Date, time and analyst ID of latest file update: 24-Jul-2011 10:13 lmh00956

Sample Name: SSTD030

Lab Sample ID: STD1991

USF03 0536

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1051.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 09:31 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: all1
Calibration date and time: 24-JUL-2011 10:13
Date, time and analyst ID of latest file update: 24-Jul-2011 10:13 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.195	88	58537	30.7501
3)	N-Nitrosodimethylamine	(1)	2.638	74	111880	33.1580
4)	Pyridine	(1)	2.685	79	182888	32.3897
6)	2-Picoline	(1)	3.714	93	181675	31.6103
2)	N-Nitrosomethylethylamine	(1)	3.882	88	86068	32.0823
8)	Methyl methanesulfonate	(1)	4.253	80	102440	31.8697
9)	N-Nitrosodiethylamine	(1)	4.684	102	83147	32.2393
15)	Ethyl methanesulfonate	(1)	5.025	109	82612	31.8118
22)	Phenol	(1)	5.467	94	244269	31.0347
21)	Aniline	(1)	5.455	93	277311	30.8481
33)	Pentachloroethane	(1)	5.497	167	48943	30.1025
23)	bis(2-Chloroethyl)ether	(1)	5.539	93	181301	31.6331
24)	2-Chlorophenol	(1)	5.569	128	152241	31.4604
26)	1,3-Dichlorobenzene	(1)	5.718	146	151296	30.6954
27)	1,4-Dichlorobenzene-d4	(1)	5.784	152	124225	40.0000
28)	1,4-Dichlorobenzene	(1)	5.796	146	158135	31.0478
31)	Benzyl alcohol	(1)	5.934	108	109340	30.8103
32)	1,2-Dichlorobenzene	(1)	5.946	146	149824	31.0556
17)	Indene	(1)	6.036	115	247611	30.5526
34)	2-Methylphenol	(1)	6.065	108	152791	31.0191
35)	2,2'-oxybis(1-Chloropropane)	(1)	6.077	45	212805	23.7713
36)	bis(2-Chloroisopropyl)ether	(1)	6.077	45	212805	23.7667
30)	N-Nitrosopyrrolidine	(1)	6.173	100	95638	32.0645
37)	Acetophenone	(1)	6.191	105	234001	30.1931
38)	N-Nitroso-di-n-propylamine	(1)	6.209	70	161962	30.3963
39)	4-Methylphenol	(1)	6.215	108	183594	32.0561
7)	N-Nitrosomorpholine	(1)	6.221	56	118454	27.9422
40)	o-Toluidine	(1)	6.227	106	264048	30.2947
41)	Hexachloroethane	(1)	6.275	117	61944	30.6454
43)	Nitrobenzene	(2)	6.353	77	222181	31.3872
18)	N-Nitrosopiperidine	(2)	6.502	114	84404	30.3380
46)	Isophorone	(2)	6.598	82	392205	31.1210
47)	2-Nitrophenol	(2)	6.664	139	89167	31.7709
48)	2,4-Dimethylphenol	(2)	6.729	107	175933	30.8169
93)	O,O,O-triethylphosphorothioate	(2)	6.801	198	79964	30.4530
49)	bis(2-Chloroethoxy)methane	(2)	6.825	93	225255	31.1298
50)	Benzoic acid	(2)	6.855	105	196485	41.5728
51)	2,4-Dichlorophenol	(2)	6.909	162	129825	30.8203
52)	1,2,4-Trichlorobenzene	(2)	6.981	180	140493	30.5331
53)	Naphthalene-d8	(2)	7.035	136	579409	40.0000
54)	Naphthalene	(2)	7.059	128	461091	30.0392
56)	4-Chloroaniline	(2)	7.118	127	198899	29.7858
55)	2,6-Dichlorophenol	(2)	7.124	162	128794	30.5377

M = Compound was manually integrated. A = User selected an alternate hit

USF03 8537

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1051.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 09:31 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: all1
Calibration date and time: 24-JUL-2011 10:13
Date, time and analyst ID of latest file update: 24-Jul-2011 10:13 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
44)	Hexachloropropene	(2)	7.142	213	81654	32.2055
59)	Hexachlorobutadiene	(2)	7.184	225	67620	30.4897
65)	Quinoline	(2)	7.388	129	311106	30.7793
66)	Caprolactam	(2)	7.477	113	69301	33.1270
5)	N-Nitrosodi-n-butylamine	(2)	7.465	84	191112	35.2521
68)	4-Chloro-3-methylphenol	(2)	7.615	107	160814	31.3828
61)	Safrole	(2)	7.663	162	128082	31.2711
64)	cis-Isosafrole	(3)	7.950	162	23219	3.5934
69)	2-Methylnaphthalene	(2)	7.734	142	316030	29.8949
71)	1-Methylnaphthalene	(2)	7.830	142	299963	30.1746
72)	Hexachlorocyclopentadiene	(3)	7.890	237	71528	28.7047
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.896	216	134740	29.2403
62)	trans-Isosafrole	(3)	8.171	162	131144	27.2678
76)	2,4,6-Trichlorophenol	(3)	8.022	196	97496	30.6064
77)	2,4,5-Trichlorophenol	(3)	8.058	196	110665	31.0278
63)	Isosafrole	(3)	8.171	162	131144	30.6380
82)	Biphenyl	(3)	8.201	154	393505	29.0186
83)	Diphenyl	(3)	8.201	154	393505	29.0186
84)	1,1'-Biphenyl	(3)	8.201	154	393505	29.0186
85)	2-Chloronaphthalene	(3)	8.213	162	337697	27.2013
86)	1-Chloronaphthalene	(3)	8.231	162	300262	30.8119
87)	Diphenyl ether	(3)	8.303	170	211009	29.0942
88)	2-Nitroaniline	(3)	8.315	138	115543	31.0808
60)	1,4-Naphthoquinone	(3)	8.387	158	131524	30.2177
57)	1,4-Dinitrobenzene	(3)	8.530	168	69761	37.3619
92)	Dimethylphthalate	(3)	8.512	163	369586	30.4509
58)	1,3-Dinitrobenzene	(3)	8.458	168	60619	27.6552
98)	2,6-Dinitrotoluene	(3)	8.560	165	91795	31.4299
100)	Acenaphthylene	(3)	8.614	152	482628	30.3765
102)	3-Nitroaniline	(3)	8.722	138	100653	32.5375
103)	Acenaphthene-d10	(3)	8.751	164	373907	40.0000
106)	Acenaphthene	(3)	8.781	153	311578	29.3809
107)	2,4-Dinitrophenol	(3)	8.823	184	65861	43.4762
110)	Pentachlorobenzene	(3)	8.907	250	121314	29.8013
109)	4-Nitrophenol	(3)	8.901	109	67228	36.7270
112)	Dibenzofuran	(3)	8.949	168	446181	29.3717
113)	2,4-Dinitrotoluene	(3)	8.949	165	122130	31.7046
114)	1-Naphthylamine	(3)	9.033	143	359186	30.9611
115)	2,3,4,6-Tetrachlorophenol	(3)	9.075	232	86443	31.3240
117)	2-Naphthylamine	(3)	9.110	143	363618	30.9979
118)	Diethylphthalate	(3)	9.206	149	361726	30.5484
119)	Fluorene	(3)	9.284	166	383004	29.6706
29)	Thionazin	(3)	9.284	107	67826	30.4592

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0238

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1051.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 09:31 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: all1
Calibration date and time: 24-JUL-2011 10:13
Date, time and analyst ID of latest file update: 24-Jul-2011 10:13 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD1991

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	4-Chlorophenyl-phenylether	(3)	9.296	204	177165	29.1264
70)	5-Nitro-o-toluidine	(3)	9.308	152	120875	31.3542
121)	4-Nitroaniline	(3)	9.314	138	106005	30.7314
122)	4,6-Dinitro-2-methylphenol	(4)	9.344	198	67716	33.1182
67)	1-Nitronaphthalene	(4)	9.368	173	75808	30.5048
123)	N-Nitrosodiphenylamine	(4)	9.415	169	326076	30.3839
124)	NDPA as diphenylamine	(4)	9.415	169	325705	30.3639
125)	1,2-Diphenylhydrazine	(4)	9.451	77	508095	31.1479
108)	Tetraethyldithiopyrophosphate	(4)	9.589	97	69812	31.4635
81)	1,3,5-Trinitrobenzene	(4)	9.691	213	45630	33.2862
78)	Diallate (peak 1)	(4)	9.703	86	175972	23.4016
75)	Phorate	(4)	9.709	75	322524	32.3275
80)	Phenacetin	(4)	9.733	108	219394	32.9319
131)	4-Bromophenyl-phenylether	(4)	9.774	248	100368	30.9945
13)	Diallate (peak 2)	(4)	9.786	86	34856	7.7292
132)	Hexachlorobenzene	(4)	9.816	284	100319	31.0243
96)	Dimethoate	(4)	9.876	87	178826	35.2311
135)	Pentachlorophenol	(4)	10.020	266	91879	41.7037
136)	Pentachloronitrobenzene	(4)	10.026	237	44270	32.7179
105)	4-Aminobiphenyl	(4)	10.026	169	369673	31.3080
97)	Pronamide	(4)	10.097	173	169455	31.6150
140)	Phenanthrene-d10	(4)	10.199	188	645284	40.0000
141)	Phenanthrene	(4)	10.223	178	558643	31.7669
137)	Dinoseb	(4)	10.211	211	93799	31.9473
143)	Anthracene	(4)	10.271	178	565973	31.7164
145)	Carbazole	(4)	10.432	167	528935	31.6498
149)	Methyl parathion	(4)	10.582	109	138304	35.5567
148)	Di-n-butylphthalate	(4)	10.803	149	626786	31.8039
150)	Parathion	(4)	10.965	109	87277	33.9905
133)	4-Nitroquinoline-1-oxide	(4)	10.983	190	49037	30.2010
99)	Isodrin	(4)	11.228	193	59622	31.1785
153)	Fluoranthene	(4)	11.378	202	558389	31.4331
154)	Benzidine	(5)	11.533	184	1048958	99.2918
155)	Pyrene	(5)	11.599	202	595377	29.2048
147)	p-Dimethylaminoazobenzene	(5)	11.910	225	124195	31.2642
144)	Chlorobenzilate	(5)	11.958	139	189897	30.6177
161)	3,3'-Dimethylbenzidine	(5)	12.239	212	345872	35.9561
162)	Butylbenzylphthalate	(5)	12.263	149	276678	30.4766
101)	2-Acetylaminofluorene	(5)	12.484	181	255118	34.3604
165)	3,3'-Dichlorobenzidine	(5)	12.766	252	210045	33.3221
164)	Benzo(a)anthracene	(5)	12.778	228	553132	31.1416
167)	4,4'-Methylenebis(2-Chloroanil	(5)	12.772	231	110591	33.2178
166)	Chrysene-d12	(5)	12.789	240	645368	40.0000

M = Compound was manually integrated. A = User selected an alternate hit

USF03 8539

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul24.b/eg1051.d Instrument ID: HP09572.i
Injection date and time: 24-JUL-2011 09:31 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul24.b/m8270.m Sublist used: all1
Calibration date and time: 24-JUL-2011 10:13
Date, time and analyst ID of latest file update: 24-Jul-2011 10:13 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD1991

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
168) Chrysene	(5)	12.813	228	524071	30.0297
169) bis(2-Ethylhexyl)phthalate	(5)	12.849	149	381221	31.0883
170) 6-Methylchrysene	(5)	13.268	242	389809	31.9431
172) Di-n-octylphthalate	(6)	13.501	149	625672	32.1905
174) 7,12-Dimethylbenz[a]anthracene	(6)	13.836	256	256899	30.7266
173) Benzo(b)fluoranthene	(6)	13.842	252	514026	32.1386
175) Benzo(k)fluoranthene	(6)	13.866	252	513379	28.7910
176) Benzo(a)pyrene	(6)	14.147	252	471617	30.8830
177) Perylene-d12	(6)	14.207	264	580169	40.0000
180) 3-Methylcholanthrene	(6)	14.482	268	274891	34.4081
181) Dibenz(a,h)acridine	(6)	15.021	279	362845	36.1777
183) Dibenz(a,j)acridine	(6)	15.075	279	395275	29.2618
185) Indeno(1,2,3-cd)pyrene	(6)	15.266	276	501574	31.7810
187) Dibenz(a,h)anthracene	(6)	15.290	278	432979	32.5378
188) Benzo(g,h,i)perylene	(6)	15.565	276	415533	31.3698
194) Diallate TRANS/CIS	(4)	23.556	86	210828	31.1308
11) 2-Fluorophenol	(1)	4.444	112	138804	30.8192
19) Phenol-d5	(1)	5.449	99	208028	32.3507
20) Phenol-d6	(1)	5.449	99	208028	32.3507
42) Nitrobenzene-d5	(2)	6.335	82	214427	31.9633
79) 2-Fluorobiphenyl	(3)	8.105	172	342393	29.0620
126) 2,4,6-Tribromophenol	(3)	9.523	330	48998	35.1661
157) Terphenyl-d14	(5)	11.767	244	428187	31.7909

M = Compound was manually integrated. A = User selected an alternate hit

Raw QC Data

USF03 8541

SBLKWB1925 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKWB192

Data file: /chem/HP09572.i/11jul15a.b/eg0597.d Blank Data file reference:/chem/HP09572.i/11jul15a.b/eg0597.d
Injection date and time: 16-JUL-2011 01:27 Instrument ID: HP09572.i Batch: 11192WAB
Date, time and analyst ID of latest file update: 16-Jul-2011 03:05 rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time (Last Method Edit): 16-JUL-2011 02:23
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul15a.b/eg0591a.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	4.430	(0.002)	596	152.0	116292	(-14)	40.00	
53) Naphthalene-d8	5.716	(0.008)	811	136.0	508589	(-15)	40.00	
103) Acenaphthene-d10	7.397	(0.002)	1092	164.0	334170	(-13)	40.00	
140) Phenanthrene-d10	8.791	(0.008)	1325	188.0	584335	(-11)	40.00	
166) Chrysene-d12	11.292	(0.008)	1743	240.0	577942	(-12)	40.00	
177) Perylene-d12	12.542	(0.008)	1952	264.0	536340	(-3)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	5.028	(-0.001)	82	503282	87.339	87%		52 - 120
79) 2-Fluorobiphenyl	(3)	6.805	(0.001)	172	965685	94.776	95%		63 - 114
157) Terphenyl-d14	(5)	10.364	(0.000)	244	1123811	91.833	92%		34 - 118

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)					ND	ND			1.00
69) 2-Methylnaphthalene	(2)					ND	ND			1.00
71) 1-Methylnaphthalene	(2)					ND	ND			1.00
92) Dimethylphthalate	(3)					ND	ND			2.00
100) Acenaphthylene	(3)					ND	ND			1.00
106) Acenaphthene	(3)					ND	ND			1.00
118) Diethylphthalate	(3)					Below MDL,	Do not report			2.00
119) Fluorene	(3)					ND	ND			1.00
141) Phenanthrene	(4)					Below MDL,	Do not report			1.00
143) Anthracene	(4)					Below MDL,	Do not report			1.00
148) Di-n-butylphthalate	(4)					Below MDL,	Do not report			2.00
153) Fluoranthene	(4)					Below MDL,	Do not report			1.00
155) Pyrene	(5)					Below MDL,	Do not report			1.00
162) Butylbenzylphthalate	(5)					ND	ND			2.00
164) Benzo(a)anthracene	(5)					Below MDL,	Do not report			1.00
168) Chrysene	(5)					Below MDL,	Do not report			1.00
169) bis(2-Ethylhexyl)phthalate	(5)					Below MDL,	Do not report			2.00
172) Di-n-octylphthalate	(6)					ND	ND			2.00
173) Benzo(b)fluoranthene	(6)					Below MDL,	Do not report			1.00
175) Benzo(k)fluoranthene	(6)					Below MDL,	Do not report			1.00
176) Benzo(a)pyrene	(6)					Below MDL,	Do not report			1.00
185) Indeno(1,2,3-cd)pyrene	(6)					Below MDL,	Do not report			1.00
187) Dibenz(a,h)anthracene	(6)					Below MDL,	Do not report			1.00
188) Benzo(g,h,i)perylene	(6)					Below MDL,	Do not report			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

U3F03 8542

SBLKWB1925 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKWB192

Data file: /chem/HP09572.i/11jul15a.b/eg0597.d Blank Data file reference:**/chem/HP09572.i/11jul15a.b/eg0597.d**
Injection date and time: 16-JUL-2011 01:27 Instrument ID: HP09572.i Batch: 11192WAB
Date, time and analyst ID of latest file update: 16-Jul-2011 03:05 rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: **WL6911**
Calibration date and time (Last Method Edit): 16-JUL-2011 02:23
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul15a.b/eg0591a.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

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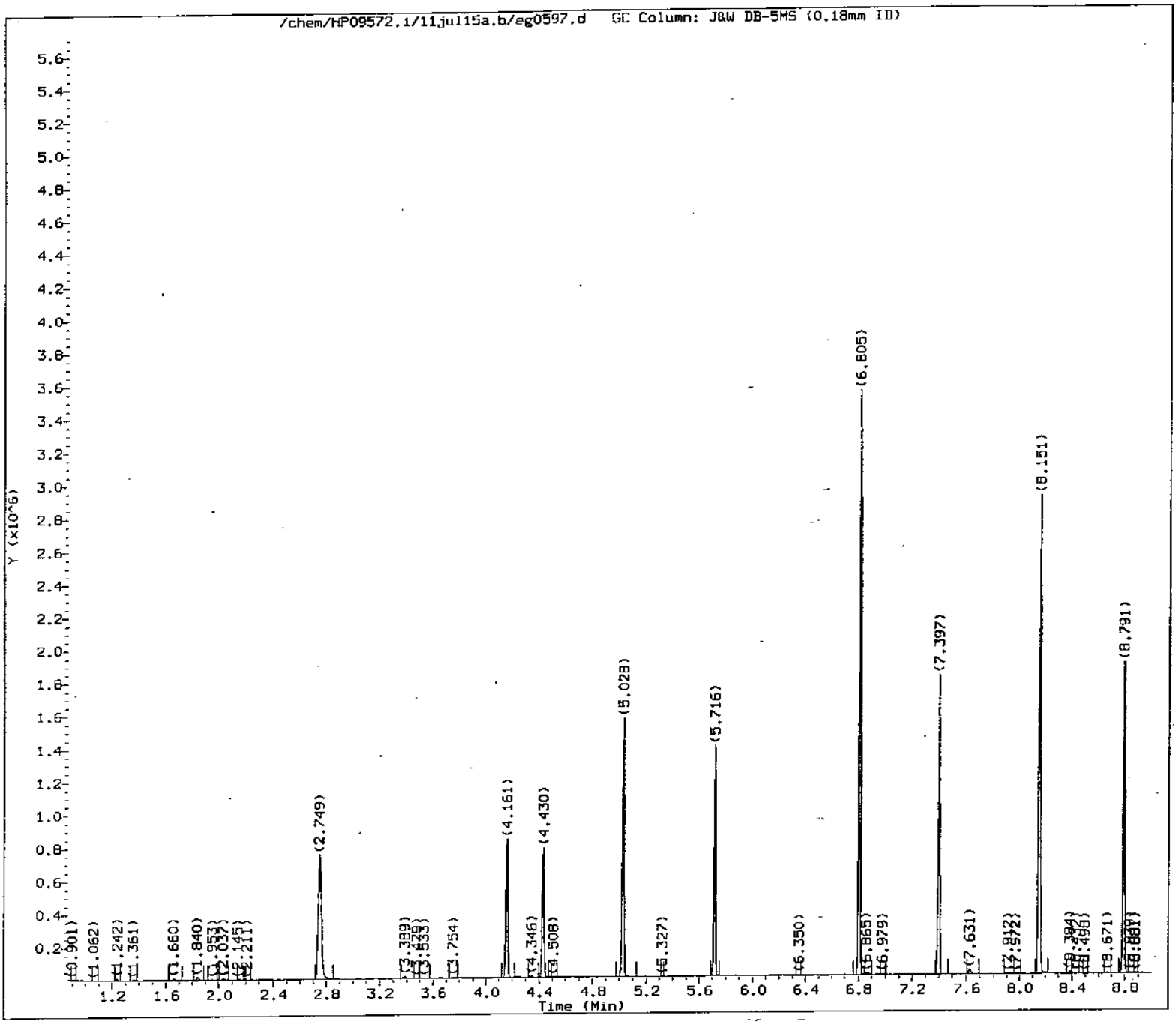
Total number of targets = 24

Comments:

Analyst: RJP 7/15/11 Date: 7-15-11
Auditor: JMV Date: 7/15/11

USF03 0543



Quant Report

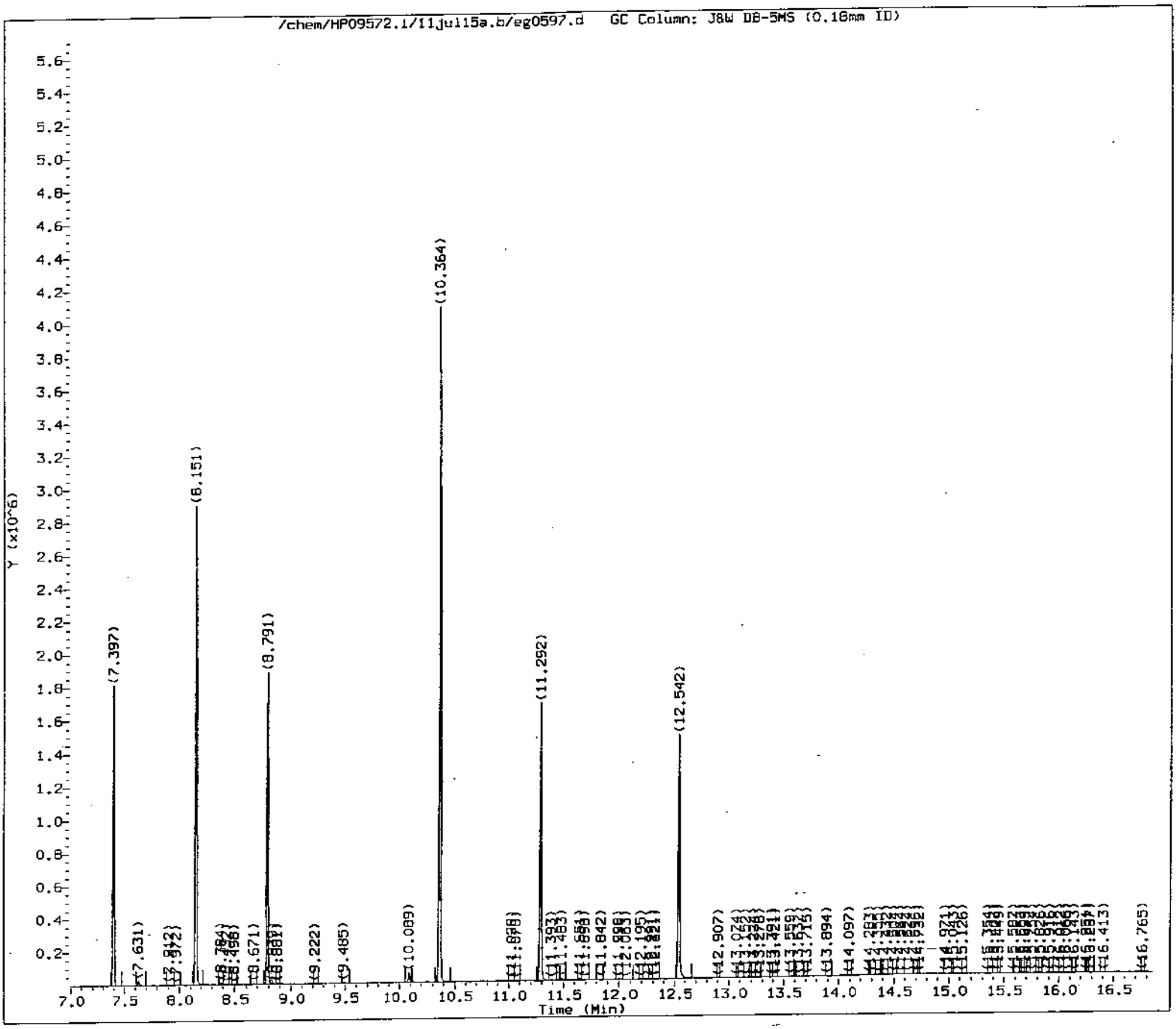
Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0597.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 01:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 16-Jul-2011 03:05 rpb01568

Sample Name: SBLKWB1925 Lab Sample ID: SBLKWB192

7-15-11
USPS 9544



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0597.d
Injection date and time: 16-JUL-2011 01:27

Instrument ID: HP09572.i
Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m
Calibration date and time: 16-JUL-2011 02:23

Sublist used: WL6911

Date, time and analyst ID of latest file update: 16-Jul-2011 03:05 rpb01568

Sample Name: SBLKWB1925

Lab Sample ID: SBLKWB192

7-15-11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0597.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 01:27 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 16-Jul-2011 03:05 rpb01568

Sample Name: SBLKWB1925 Lab Sample ID: SBLKWB192

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	4.430	152	116292	40.0000
53)	Naphthalene-d8	(2)	5.716	136	508589	40.0000
103)	Acenaphthene-d10	(3)	7.397	164	334170	40.0000
140)	Phenanthrene-d10	(4)	8.791	188	584335	40.0000
166)	Chrysene-d12	(5)	11.292	240	577942	40.0000
177)	Perylene-d12	(6)	12.542	264	536340	40.0000
42)	Nitrobenzene-d5	(2)	5.028	82	503282	87.3390
79)	2-Fluorobiphenyl	(3)	6.805	172	965685	94.7763
157)	Terphenyl-d14	(5)	10.364	244	1123811	91.8332

M = Compound was manually integrated. A = User selected an alternate hit

USF03 8546

SBLKLB1935 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKLB193

Data file: /chem/HP09572.i/11jul23.b/eg1013.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 12:26 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:14 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.808(0.000)	623	152.0	139074(0)	40.00	
53) Naphthalene-d8	7.059(0.006)	832	136.0	639806(-3)	40.00	
103) Acenaphthene-d10	8.776(0.000)	1119	164.0	426865(2)	40.00	
140) Phenanthrene-d10	10.217(0.012)	1360	188.0	759863(14)	40.00	
166) Chrysene-d12	12.814(0.012)	1794	240.0	691432(12)	40.00	
177) Perylene-d12	14.231(0.006)	2031	264.0	588826(9)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.359(0.000)	82	650913	87.868	88%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.129(0.000)	172	1101848	81.921	82%		67 - 115
157) Terphenyl-d14	(5)	11.797(-0.001)	244	1367977	94.800	95%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)				ND	ND			0.50
69) 2-Methylnaphthalene	(2)				ND	ND			0.50
71) 1-Methylnaphthalene	(2)				ND	ND			0.50
92) Dimethylphthalate	(3)				ND	ND			0.50
100) Acenaphthylene	(3)				ND	ND			0.50
106) Acenaphthene	(3)				ND	ND			0.50
118) Diethylphthalate	(3)				ND	ND			0.50
119) Fluorene	(3)				ND	ND			0.50
141) Phenanthrene	(4)				ND	ND			0.50
143) Anthracene	(4)				ND	ND			0.50
148) Di-n-butylphthalate	(4)				ND	ND			0.50
153) Fluoranthene	(4)				ND	ND			0.50
155) Pyrene	(5)				ND	ND			0.50
162) Butylbenzylphthalate	(5)				ND	ND			0.50
164) Benzo(a)anthracene	(5)				ND	ND			0.50
168) Chrysene	(5)				ND	ND			0.50
169) bis(2-Ethylhexyl)phthalate	(5)				ND	ND			0.50
172) Di-n-octylphthalate	(6)				ND	ND			0.50
173) Benzo(b)fluoranthene	(6)				ND	ND			0.50
175) Benzo(k)fluoranthene	(6)				ND	ND			0.50
176) Benzo(a)pyrene	(6)				ND	ND			0.50
185) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			0.50
187) Dibenz(a,h)anthracene	(6)				ND	ND			0.50
188) Benzo(g,h,i)perylene	(6)				ND	ND			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0547

SBLKLB1935 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKLB193

Data file: /chem/HP09572.i/11jul23.b/eg1013.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 12:26 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:14 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

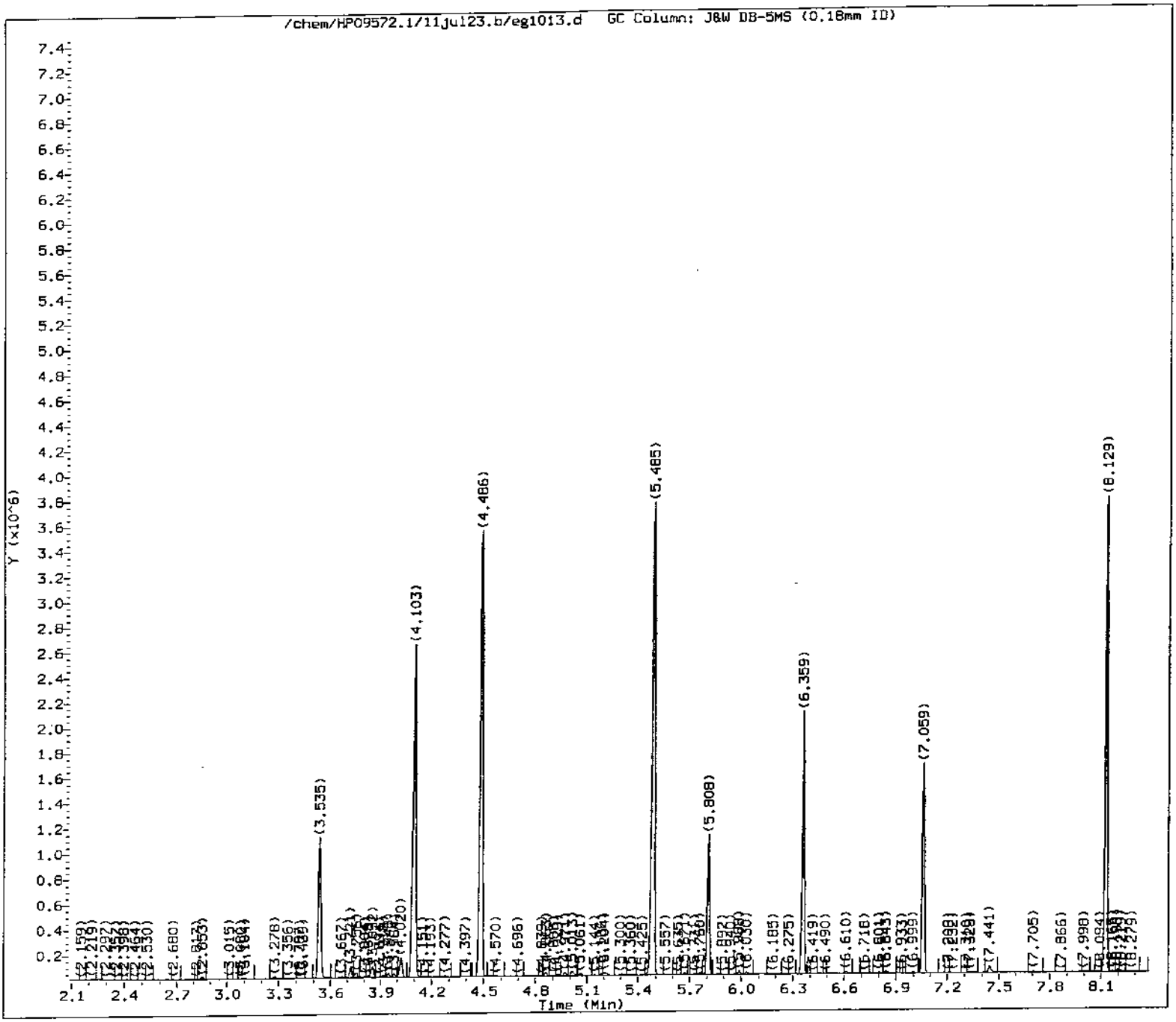
Comments:

Analyst: Date: 07/27/11
Auditor: Date:

Mark A. Ratcliff
Senior Specialist

JUL 27 2011

USF83 8548



Quant Report

Target Revision 3.5

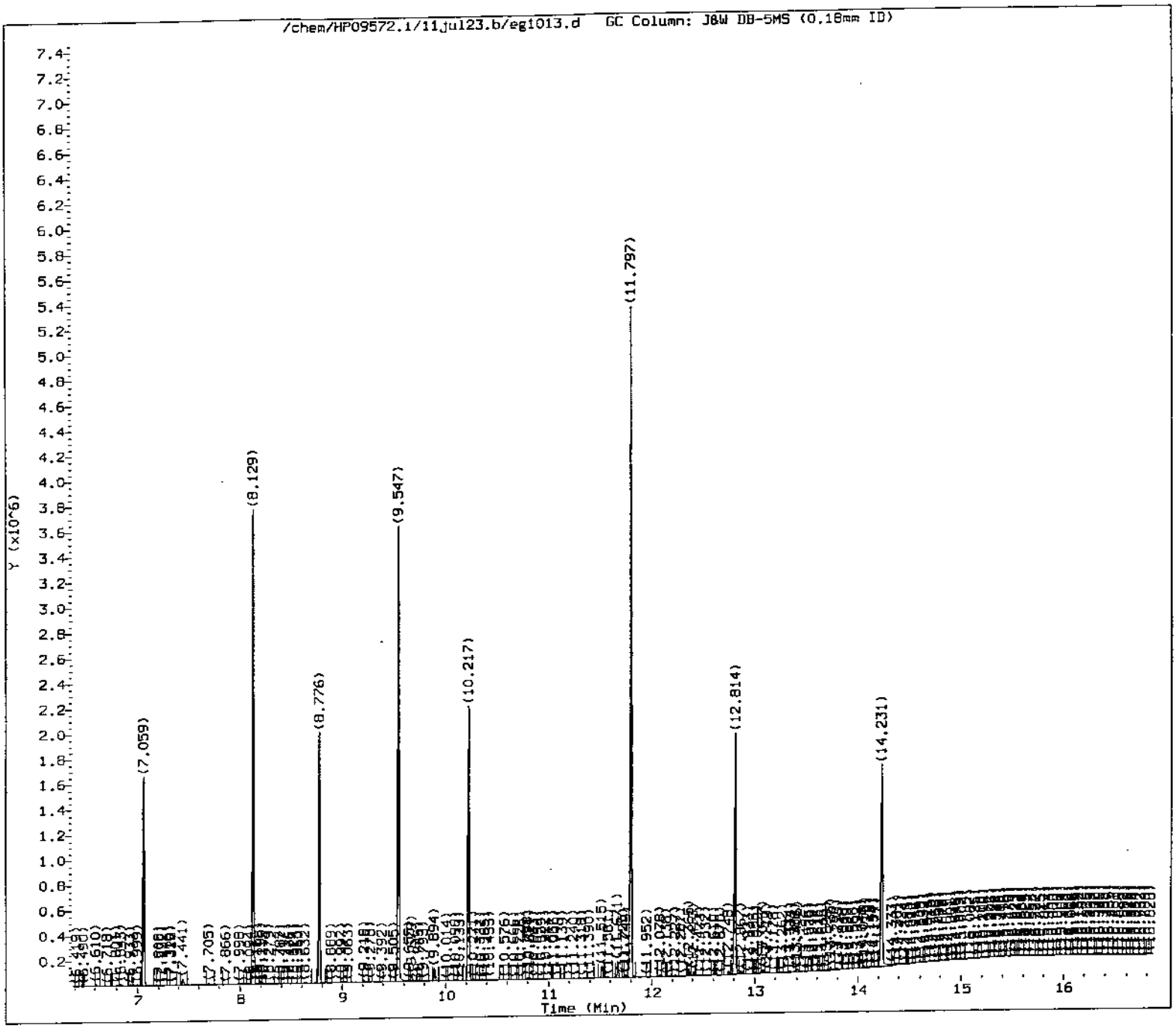
Data File: /chem/HP09572.i/11jul23.b/eg1013.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 12:26 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 14:28 lmh00956

Sample Name: SBLKLB1935 Lab Sample ID: SBLKLB193

USF03 0549

7/27/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 12:26

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 23-Jul-2011 14:28 lmh00956

Sample Name: SBLKLB1935

Lab Sample ID: SBLKLB193

USF03 0558

7/28/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1013.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 12:26 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 14:28 lmh00956

Sample Name: SBLKLB1935 Lab Sample ID: SBLKLB193

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.808	152	139074	40.0000
53)	Naphthalene-d8	(2)	7.059	136	639806	40.0000
103)	Acenaphthene-d10	(3)	8.776	164	426865	40.0000
140)	Phenanthrene-d10	(4)	10.217	188	759863	40.0000
166)	Chrysene-d12	(5)	12.814	240	691432	40.0000
177)	Perylene-d12	(6)	14.231	264	588826	40.0000
42)	Nitrobenzene-d5	(2)	6.359	82	650913	87.8682
79)	2-Fluorobiphenyl	(3)	8.129	172	1101848	81.9210
157)	Terphenyl-d14	(5)	11.797	244	1367977	94.7996

M = Compound was manually integrated. A = User selected an alternate hit

XXXXXMS

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339378

Data file: /chem/HP09572.i/11jul23.b/eg1026.d Blank Data file reference:**/chem/HP09572.i/11jul23.b/eg1013.d**
Injection date and time: 23-JUL-2011 18:20 Instrument ID: HP09572.i Batch: I1193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:17 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: **URSsoil**
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.808(0.000)	623	152.0	152914(10)	40.00	
53) Naphthalene-d8	7.059(0.006)	832	136.0	713016(8)	40.00	
103) Acenaphthene-d10	8.775(0.000)	1119	164.0	447386(7)	40.00	
140) Phenanthrene-d10	10.223(0.006)	1361	188.0	697293(4)	40.00	
166) Chrysene-d12	12.813(0.012)	1794	240.0	503387(-18)	40.00	
177) Perylene-d12	14.231(0.006)	2031	264.0	425065(-22)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.359(0.000)	82	736466	89.209	89%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.129(0.000)	172	1213000	86.048	86%		67 - 115
157) Terphenyl-d14	(5)	11.796(-0.001)	244	1063044	101.187	101%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)	7.076(0.000)	128	789388	41.790	1388.39			0.50
69) 2-Methylnaphthalene	(2)	7.758(0.000)	142	558593	42.939	1426.54			0.50
71) 1-Methylnaphthalene	(2)	7.854(0.000)	142	514703	42.074	1397.82			0.50
92) Dimethylphthalate	(3)	8.536(0.001)	163	678625	46.730	1552.49			0.50
100) Acenaphthylene	(3)	8.638(0.001)	152	887603	46.690	1551.17			0.50
106) Acenaphthene	(3)	8.805(0.001)	153	558977	44.053	1463.54			0.50
118) Diethylphthalate	(3)	9.230(0.001)	149	653857	46.150	1533.22			0.50
119) Fluorene	(3)	9.314(0.000)	166	681300	44.111	1465.47			0.50
141) Phenanthrene	(4)	10.247(0.000)	178	912272	48.007	1594.90			0.50
143) Anthracene	(4)	10.295(0.001)	178	942148	48.859	1623.21			0.50
148) Di-n-butylphthalate	(4)	10.827(0.000)	149	1050702	49.337	1639.12			0.50
153) Fluoranthene	(4)	11.402(0.000)	202	849116	44.234	1469.56			0.50
155) Pyrene	(5)	11.623(0.000)	202	848674	53.371	1773.14			0.50
162) Butylbenzylphthalate	(5)	12.287(0.000)	149	395629	55.871	1856.17			0.50
164) Benzo(a)anthracene	(5)	12.801(0.000)	228	673127	48.586	1614.17			0.50
168) Chrysene	(5)	12.837(0.000)	228	659599	48.456	1609.83			0.50
169) bis(2-Ethylhexyl)phthalate	(5)	12.873(0.000)	149	534941	55.928	1858.08			0.50
172) Di-n-octylphthalate	(6)	13.525(0.000)	149	810838	53.969	1793.00			0.50
173) Benzo(b)fluoranthene	(6)	13.866(0.001)	252	605980	51.713	1718.04			0.50
175) Benzo(k)fluoranthene	(6)	13.896(0.000)	252	604902	46.302	1538.28			0.50
176) Benzo(a)pyrene	(6)	14.177(0.000)	252	551887	49.326	1638.75			0.50
185) Indeno(1,2,3-cd)pyrene	(6)	15.308(0.001)	276	603327	52.178	1733.48			0.50
187) Dibenz(a,h)anthracene	(6)	15.326(0.001)	278	518910	53.225	1768.26			0.50
188) Benzo(g,h,i)perylene	(6)	15.607(0.001)	276	509797	52.530	1745.17			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF00 0552

XXXXXMS

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339378

Data file: /chem/HP09572.i/11jul23.b/eg1026.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 18:20 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:17 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul

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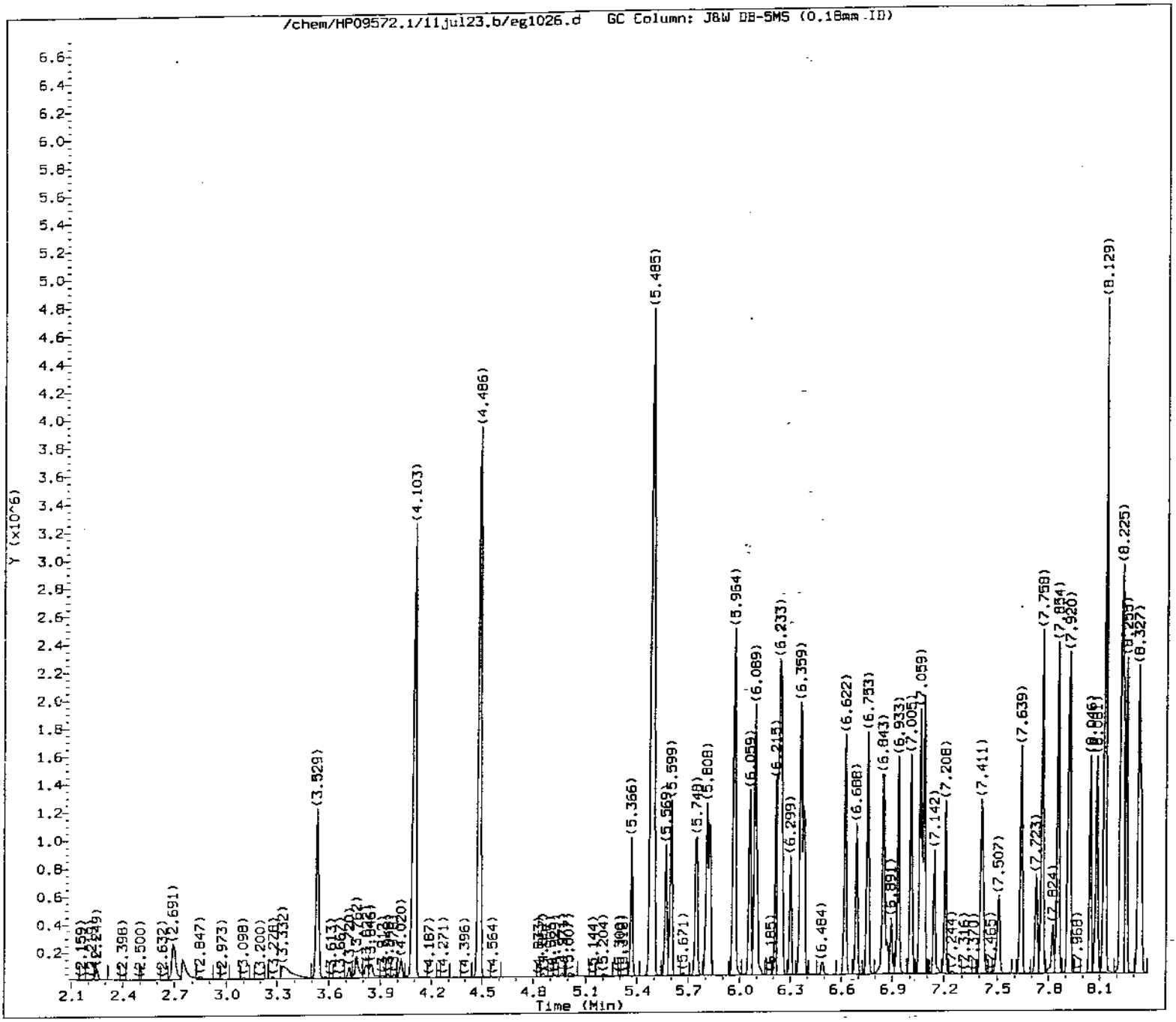
Total number of targets = 24

Comments:

Analyst: Mark A. Ratcliff Date: 07/27/11
Senior Specialist
Auditor: Date:

JUL 27 2011

USF03 0553



Quant Report

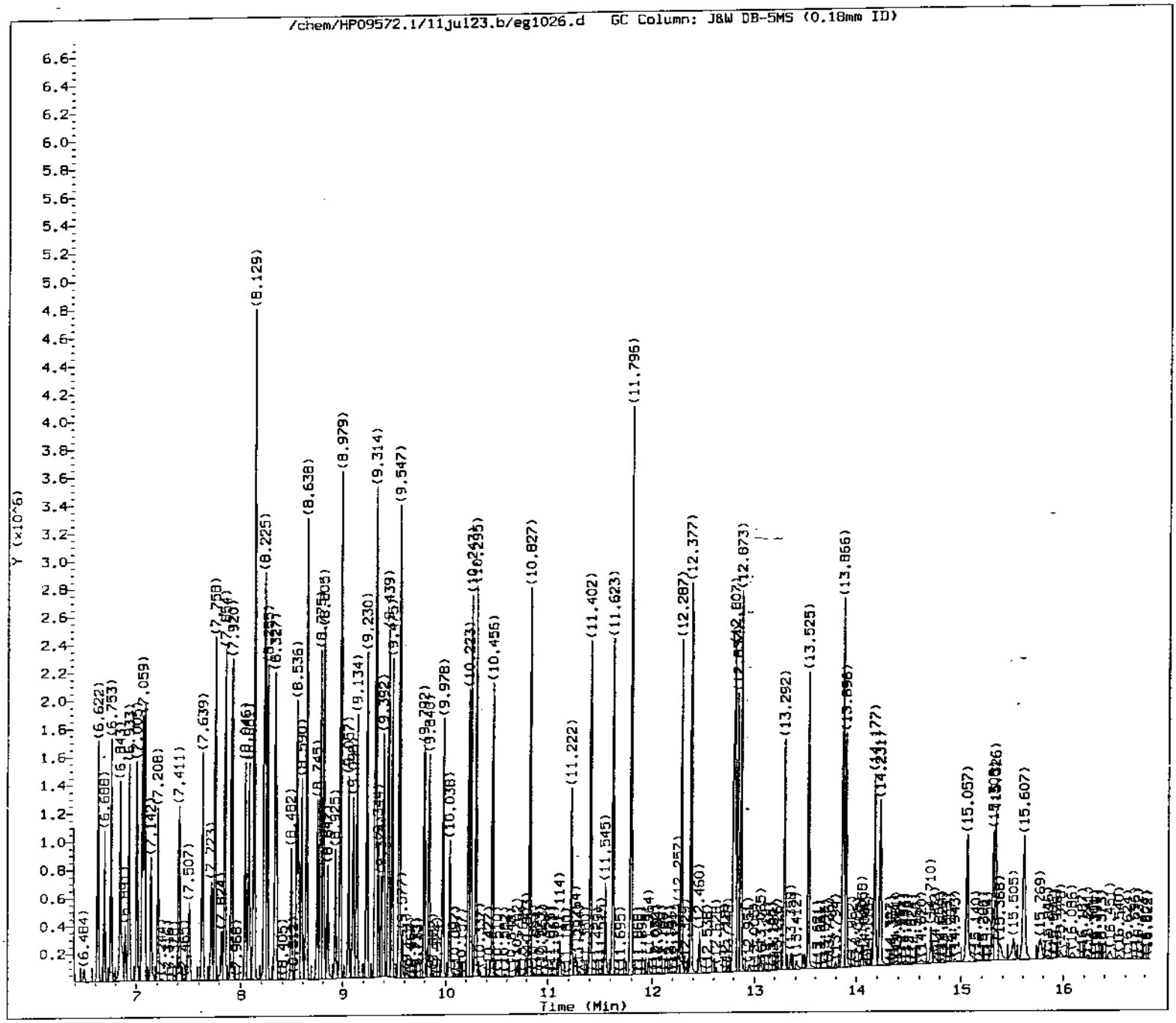
Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1026.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 18:20 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 24-Jul-2011 09:18 lmh00956

Sample Name: XXXXXMS Lab Sample ID: 6339378

USF03 8554



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1026.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 18:20 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 24-Jul-2011 09:18 lmh00956

Sample Name: XXXXXMS Lab Sample ID: 6339378

USF03 8555

lmh 7/24/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1026.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 18:20 Analyst ID: lmh00956

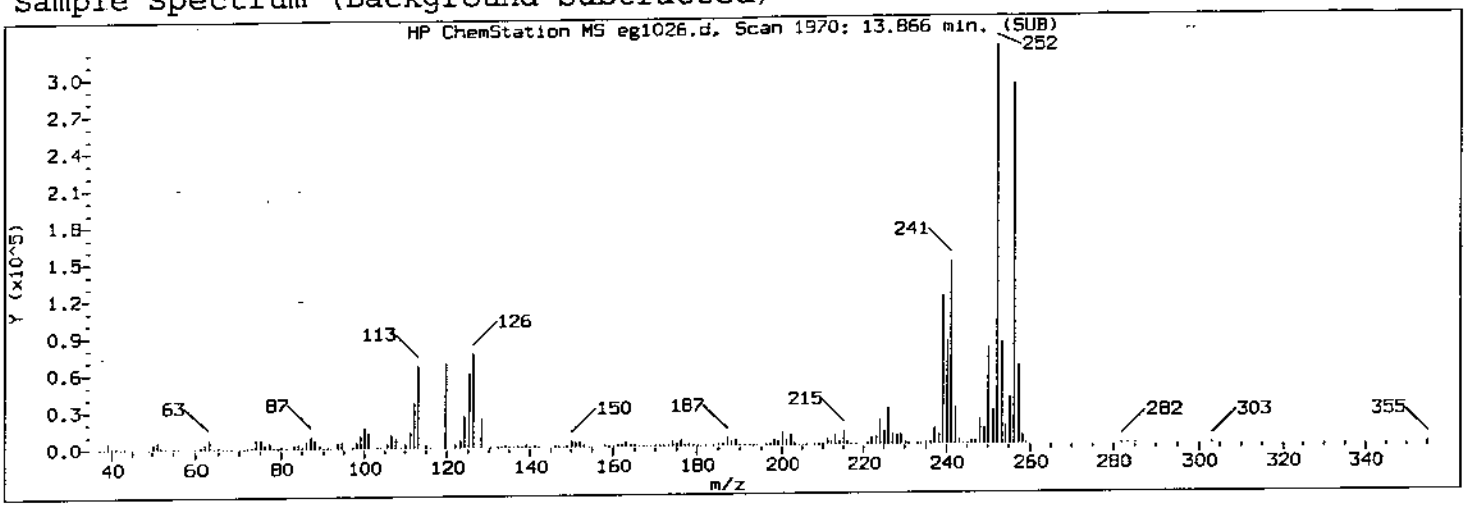
Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 24-Jul-2011 09:18 lmh00956

Sample Name: XXXXXMS Lab Sample ID: 6339378

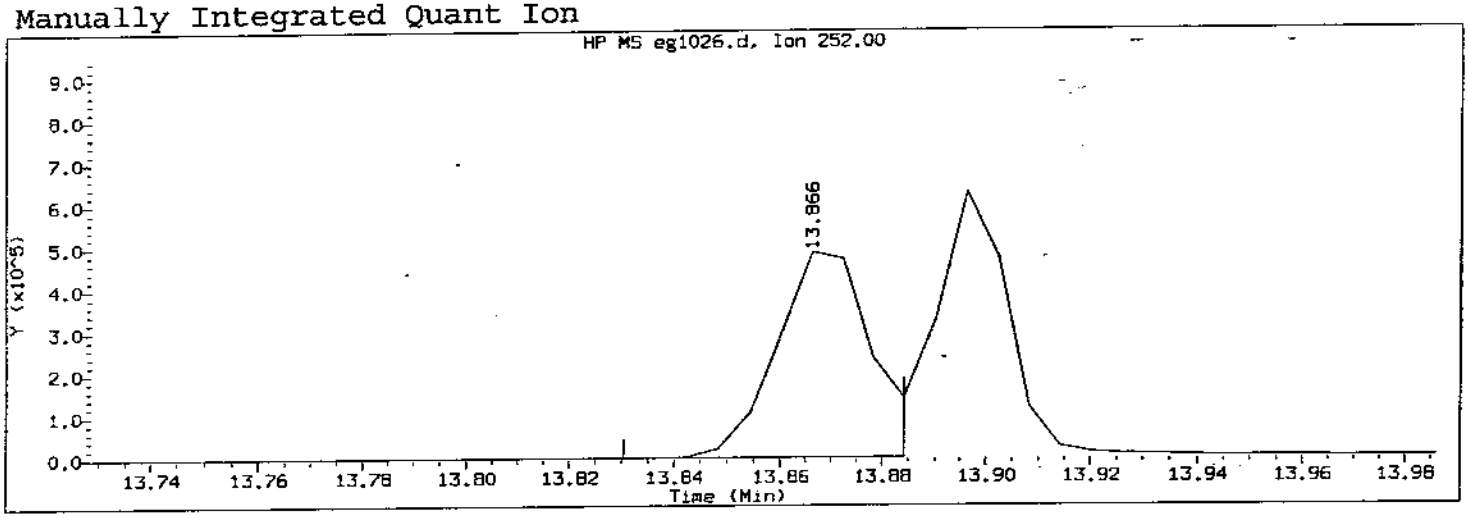
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.808	152	152914	40.0000
53)	Naphthalene-d8	(2)	7.059	136	713016	40.0000
54)	Naphthalene	(2)	7.076	128	789388	41.7905
69)	2-Methylnaphthalene	(2)	7.758	142	558593	42.9389
71)	1-Methylnaphthalene	(2)	7.854	142	514703	42.0743
92)	Dimethylphthalate	(3)	8.536	163	678625	46.7299
100)	Acenaphthylene	(3)	8.638	152	887603	46.6902
103)	Acenaphthene-d10	(3)	8.775	164	447386	40.0000
106)	Acenaphthene	(3)	8.805	153	558977	44.0527
118)	Diethylphthalate	(3)	9.230	149	653857	46.1500
119)	Fluorene	(3)	9.314	166	681300	44.1106
140)	Phenanthrene-d10	(4)	10.223	188	697293	40.0000
141)	Phenanthrene	(4)	10.247	178	912272	48.0065
143)	Anthracene	(4)	10.295	178	942148	48.8588
148)	Di-n-butylphthalate	(4)	10.827	149	1050702	49.3374
153)	Fluoranthene	(4)	11.402	202	849116	44.2337
155)	Pyrene	(5)	11.623	202	848674	53.3714
162)	Butylbenzylphthalate	(5)	12.287	149	395629	55.8708
164)	Benzo(a)anthracene	(5)	12.801	228	673127	48.5864
166)	Chrysene-d12	(5)	12.813	240	503387	40.0000
168)	Chrysene	(5)	12.837	228	659599	48.4558
169)	bis(2-Ethylhexyl)phthalate	(5)	12.873	149	534941	55.9283
172)	Di-n-octylphthalate	(6)	13.525	149	810838	53.9692
173)	Benzo(b)fluoranthene	(6)	13.866	252	605980 A	51.7130
175)	Benzo(k)fluoranthene	(6)	13.896	252	604902	46.3024
176)	Benzo(a)pyrene	(6)	14.177	252	551887	49.3265
177)	Perylene-d12	(6)	14.231	264	425065	40.0000
185)	Indeno(1,2,3-cd)pyrene	(6)	15.308	276	603327	52.1777
187)	Dibenz(a,h)anthracene	(6)	15.326	278	518910	53.2246
188)	Benzo(g,h,i)perylene	(6)	15.607	276	509797	52.5295
42)	Nitrobenzene-d5	(2)	6.359	82	736466	89.2094
79)	2-Fluorobiphenyl	(3)	8.129	172	1213000	86.0483
157)	Terphenyl-d14	(5)	11.796	244	1063044	101.1873

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1026.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 18:20 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 24-Jul-2011 09:18 lmh00956

Sample Name: XXXXXMS Lab Sample ID: 6339378

Compound Number : 173
Compound Name : Benzo(b)fluoranthene
Scan Number : 1970
Retention Time (minutes): 13.866
Quant Ion : 252
Area (flag) : 605980A
Concentration (ng/ul) : 51.7130
Integration start scan : 1963 Integration stop scan: 1972
Y at integration start : 0 Y at integration end: 400

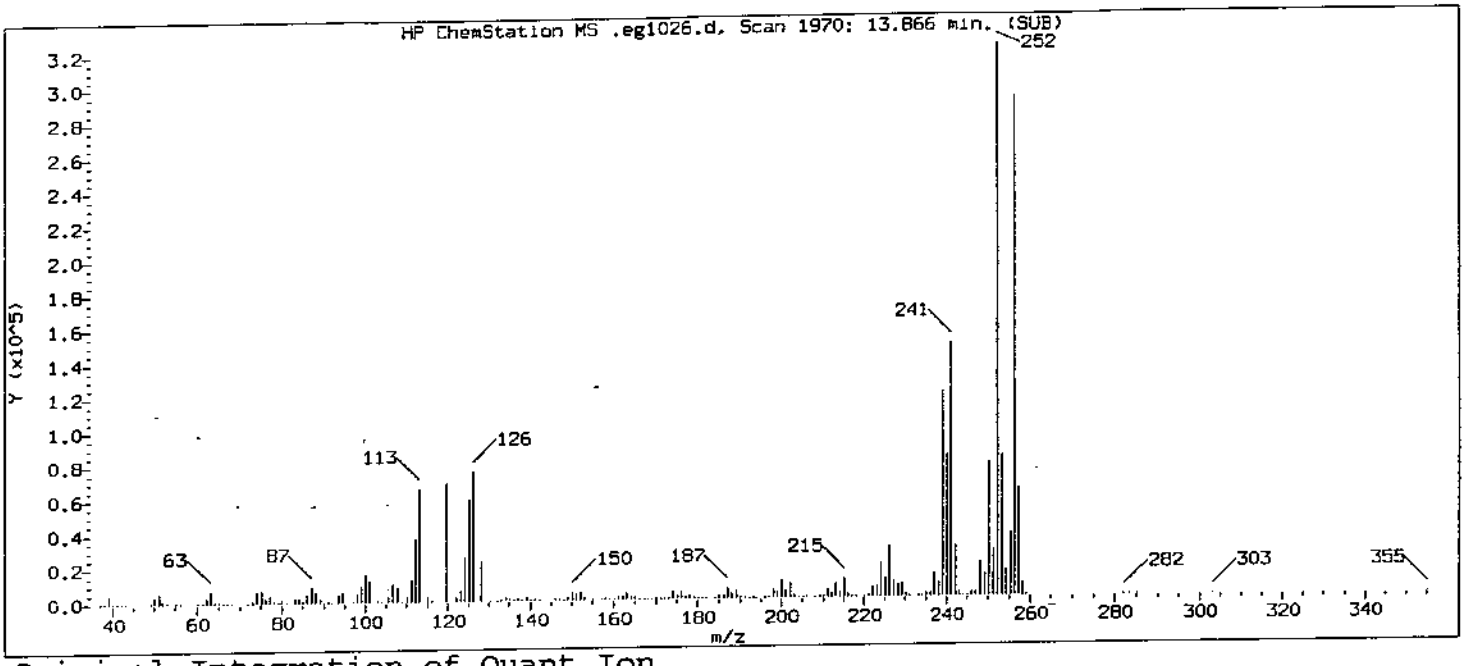
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 7/24/11
Mark A. Ratcliff
Senior Specialist

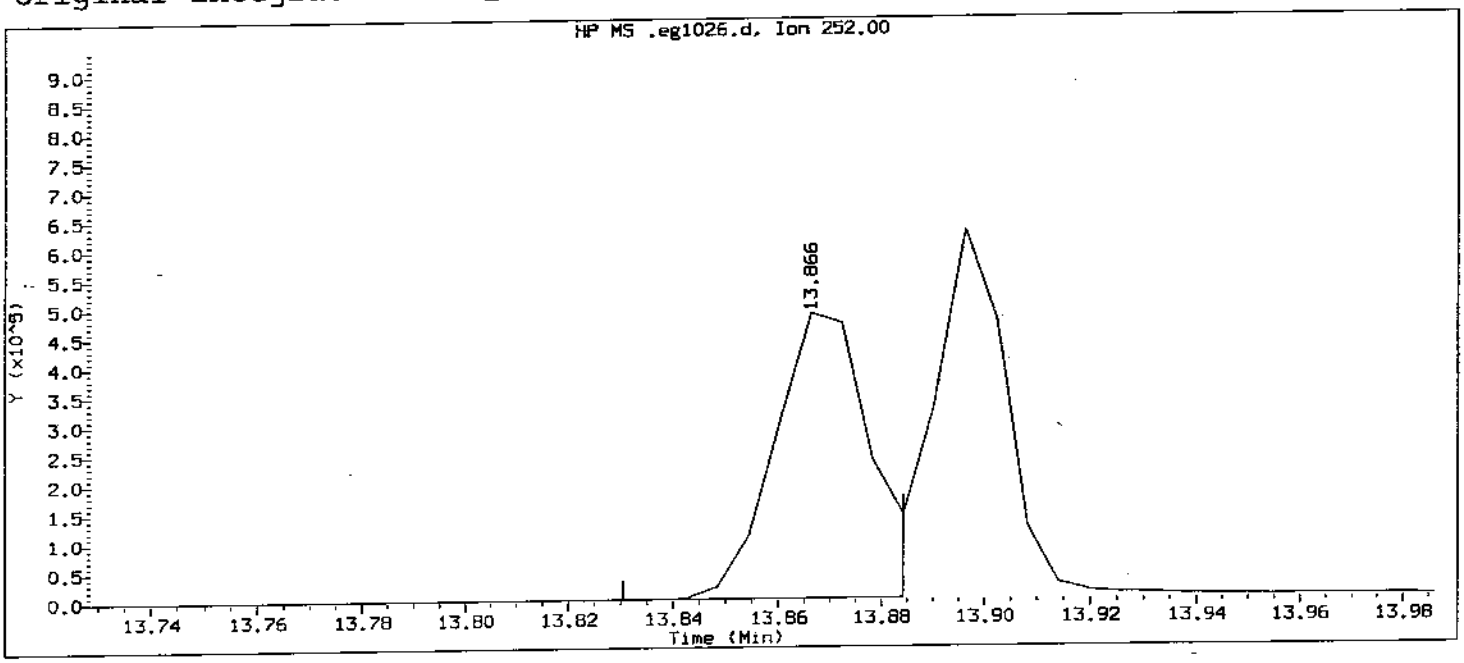
USPB3 8557

GC/MS audit/management approval: _____ JUL 25 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1026.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 18:20 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all1
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 18:40 Automation

Sample Name: XXXXXMS Lab Sample ID: 6339378

Compound Number	:	173
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1970
Retention Time (minutes)	:	13.866
Quant Ion	:	252
Area	:	605980
Concentration (ng/ul)	:	51.7129
Integration start scan	:	1963 Integration stop scan: 1972
Y at integration start	:	0 Y at integration end: 400

USP83 0558

Original Integration Report for data file /chem/HP09572.i/11jul23.b/eg1026.d, generated on 07/24/2011 at 09:18

XXXXXMSD

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

6339379

Data file: /chem/HP09572.i/11jul23.b/eg1027.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 18:45 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:17 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.4 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.808(0.000)	623	152.0	147158(6)	40.00	
53) Naphthalene-d8	7.058(0.006)	832	136.0	694008(5)	40.00	
103) Acenaphthene-d10	8.775(0.000)	1119	164.0	444281(7)	40.00	
140) Phenanthrene-d10	10.223(0.006)	1361	188.0	678695(1)	40.00	
166) Chrysene-d12	12.813(0.012)	1794	240.0	505820(-18)	40.00	
177) Perylene-d12	14.231(0.006)	2031	264.0	432616(-20)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.359(0.000)	82	715904	89.094	89%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.129(0.000)	172	1190818	85.065	85%		67 - 115
157) Terphenyl-d14	(5)	11.796(-0.001)	244	1063666	100.760	101%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)	7.076(0.000)	128	788044	42.862	1409.93			0.50
69) 2-Methylnaphthalene	(2)	7.758(0.000)	142	557404	44.021	1448.06			0.50
71) 1-Methylnaphthalene	(2)	7.854(0.000)	142	508651	42.718	1405.21			0.50
92) Dimethylphthalate	(3)	8.536(0.001)	163	670704	46.507	1529.84			0.50
100) Acenaphthylene	(3)	8.638(0.001)	152	889280	47.105	1549.52			0.50
106) Acenaphthene	(3)	8.805(0.001)	153	557382	44.234	1455.06			0.50
118) Diethylphthalate	(3)	9.230(0.001)	149	653714	46.462	1528.37			0.50
119) Fluorene	(3)	9.308(0.001)	166	689027	44.923	1477.72			0.50
141) Phenanthrene	(4)	10.247(0.000)	178	916349	49.542	1629.69			0.50
143) Anthracene	(4)	10.295(0.001)	178	930987	49.603	1631.68			0.50
148) Di-n-butylphthalate	(4)	10.827(0.000)	149	1036508	50.005	1644.89			0.50
153) Fluoranthene	(4)	11.402(0.000)	202	839106	44.910	1477.30			0.50
155) Pyrene	(5)	11.623(0.000)	202	850166	53.208	1750.26			0.50
162) Butylbenzylphthalate	(5)	12.287(0.000)	149	396311	55.698	1832.17			0.50
164) Benzo(a)anthracene	(5)	12.801(0.000)	228	677283	48.651	1600.37			0.50
168) Chrysene	(5)	12.837(0.000)	228	668824	48.897	1608.46			0.50
169) bis(2-Ethylhexyl)phthalate	(5)	12.873(0.000)	149	535622	55.730	1833.23			0.50
172) Di-n-octylphthalate	(6)	13.525(0.000)	149	827642	54.115	1780.10			0.50
173) Benzo(b)fluoranthene	(6)	13.866(0.001)	252	625549	52.451	1725.37			0.50
175) Benzo(k)fluoranthene	(6)	13.896(0.000)	252	608827	45.789	1506.23			0.50
176) Benzo(a)pyrene	(6)	14.177(0.000)	252	557052	48.919	1609.18			0.50
185) Indeno(1,2,3-cd)pyrene	(6)	15.302(0.001)	276	616962	52.426	1724.52			0.50
187) Dibenz(a,h)anthracene	(6)	15.326(0.001)	278	535237	53.941	1774.38			0.50
188) Benzo(g,h,i)perylene	(6)	15.607(0.001)	276	510955	51.730	1701.64			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0559

XXXXXMSD

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339379

Data file: /chem/HP09572.i/11jul23.b/eg1027.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 18:45 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:17 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.4 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

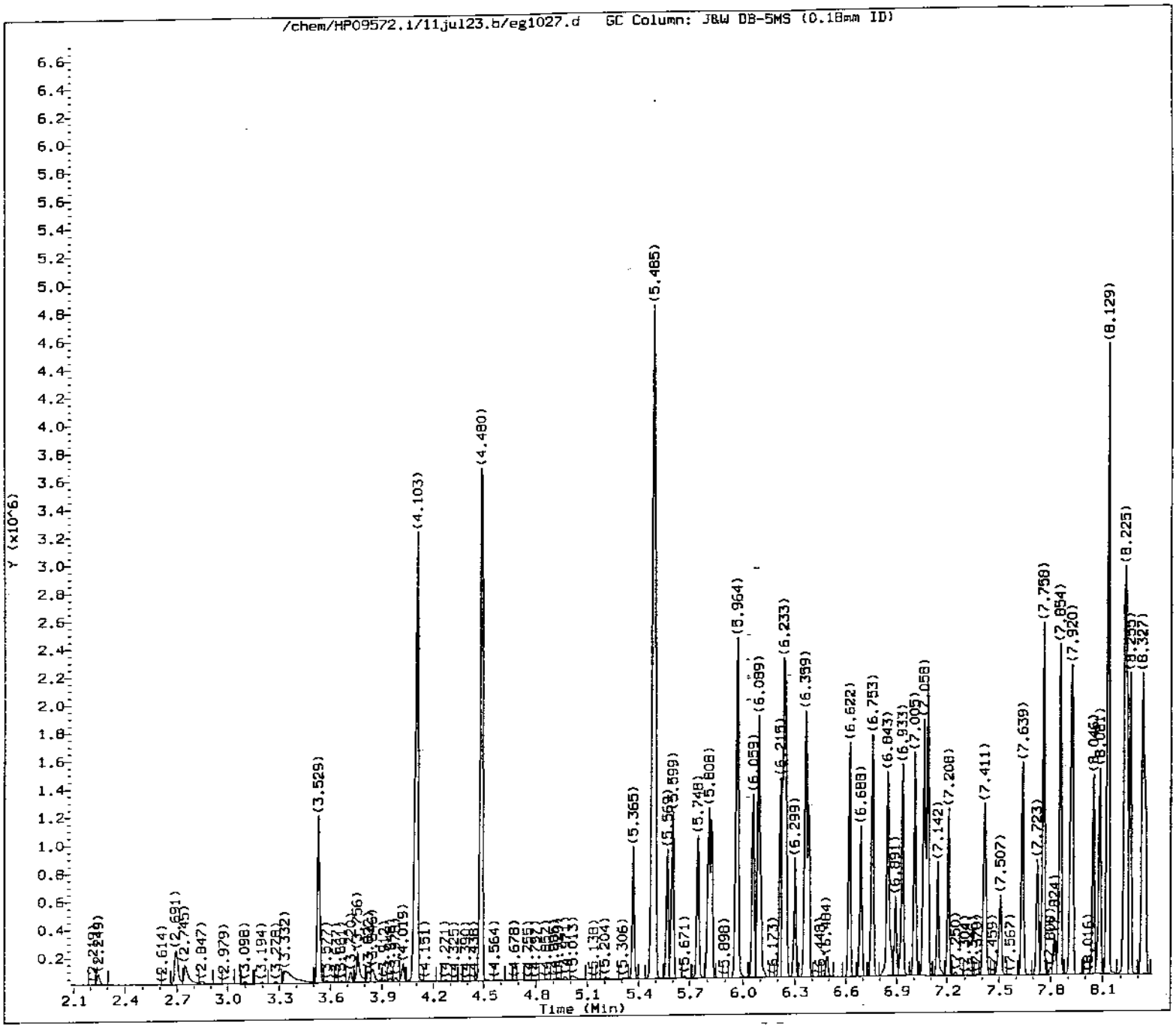
Comments:

Analyst: Date 07/27/11
Auditor: Date:

Mark A. Ratcliff
Senior Specialist

Page JUL 27 2011

USF83 8568



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1027.d
Injection date and time: 23-JUL-2011 18:45

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

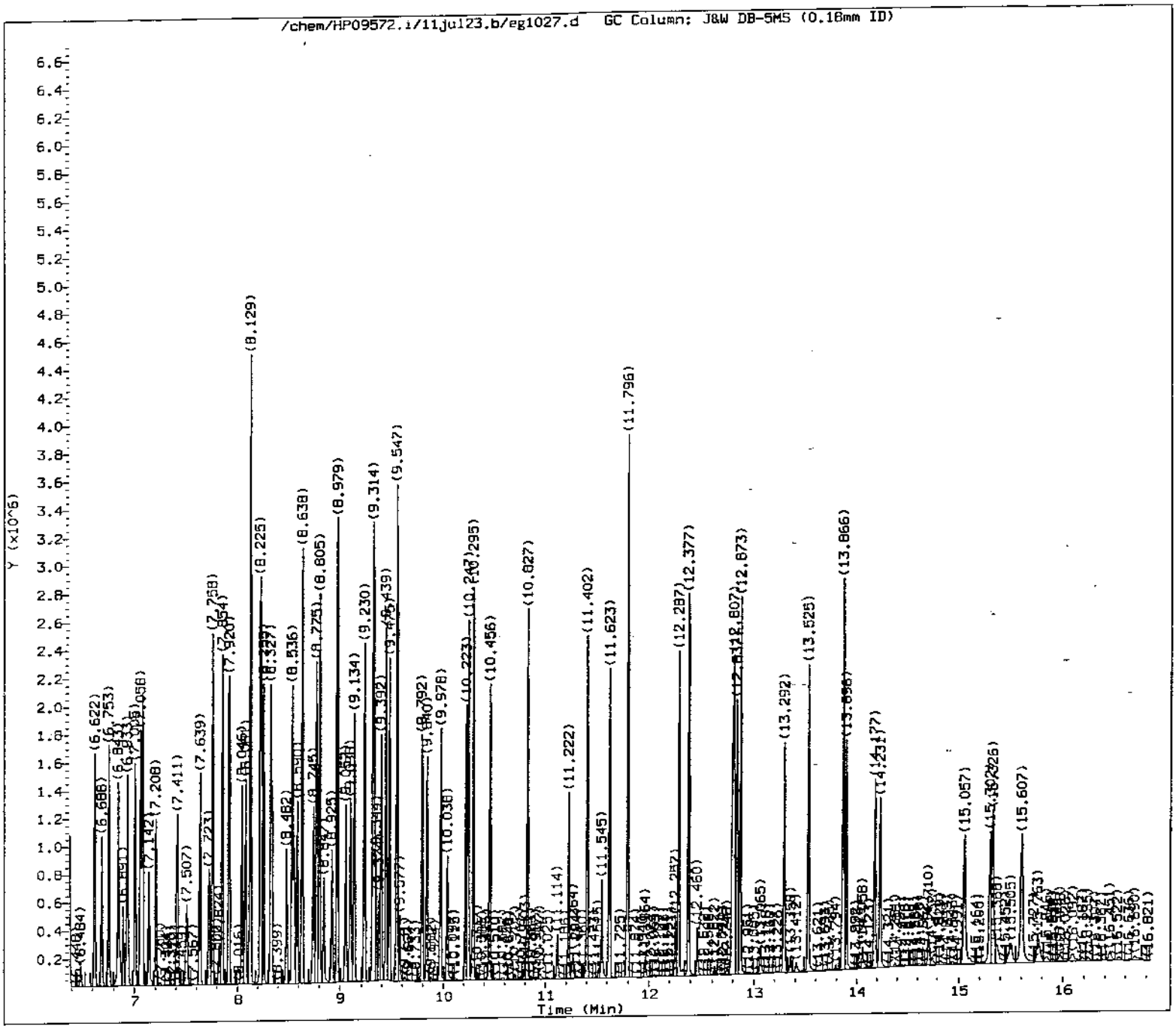
Sublist used: URSsoil

Date, time and analyst ID of latest file update: 24-Jul-2011 09:18 lmh00956

Sample Name: XXXXXMSD

Lab Sample ID: 6339379

USF03 0561



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1027.d
Injection date and time: 23-JUL-2011 18:45

Instrument ID: HP09572.i
Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m
Calibration date and time: 23-JUL-2011 12:38

Sublist used: URSsoil

Date, time and analyst ID of latest file update: 24-Jul-2011 09:18 lmh00956

Sample Name: XXXXXMSD

Lab Sample ID: 6339379

USF03 0562

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1027.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 18:45 Analyst ID: lmh00956

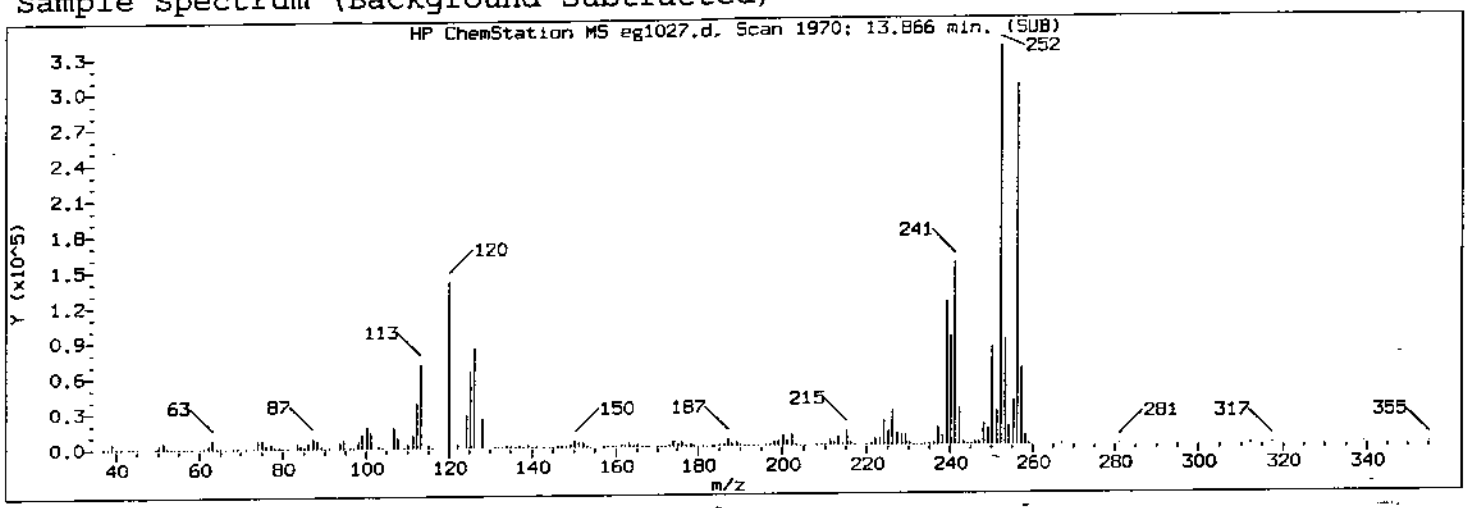
Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 24-Jul-2011 09:18 lmh00956

Sample Name: XXXXXMSD Lab Sample ID: 6339379

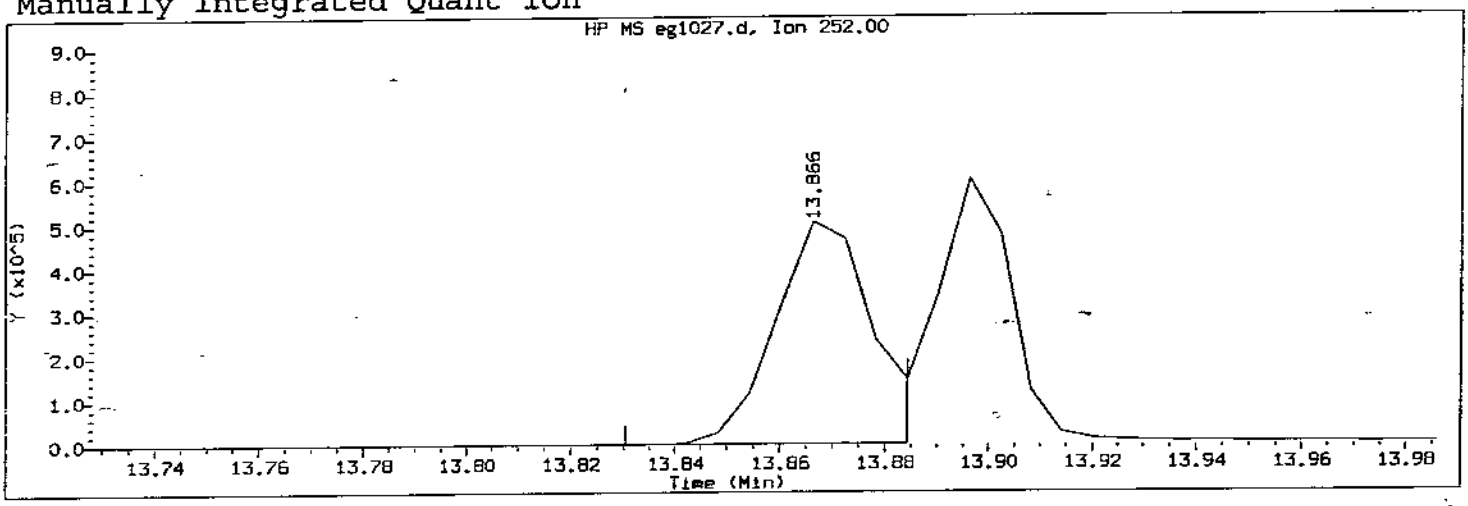
	Compounds	I.S. Ref.	RT	QIon	Area		Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.808	152	147158		40.0000
53)	Naphthalene-d8	(2)	7.058	136	694008		40.0000
54)	Naphthalene	(2)	7.076	128	788044		42.8620
69)	2-Methylnaphthalene	(2)	7.758	142	557404		44.0210
71)	1-Methylnaphthalene	(2)	7.854	142	508651		42.7184
92)	Dimethylphthalate	(3)	8.536	163	670704		46.5073
100)	Acenaphthylene	(3)	8.638	152	889280		47.1053
103)	Acenaphthene-d10	(3)	8.775	164	444281		40.0000
106)	Acenaphthene	(3)	8.805	153	557382		44.2340
118)	Diethylphthalate	(3)	9.230	149	653714		46.4624
119)	Fluorene	(3)	9.308	166	689027		44.9226
140)	Phenanthrene-d10	(4)	10.223	188	678695		40.0000
141)	Phenanthrene	(4)	10.247	178	916349		49.5425
143)	Anthracene	(4)	10.295	178	930987		49.6030
148)	Di-n-butylphthalate	(4)	10.827	149	1036508		50.0046
153)	Fluoranthene	(4)	11.402	202	839106		44.9100
155)	Pyrene	(5)	11.623	202	850166		53.2080
162)	Butylbenzylphthalate	(5)	12.287	149	396311		55.6979
164)	Benzo(a)anthracene	(5)	12.801	228	677283		48.6513
166)	Chrysene-d12	(5)	12.813	240	505820		40.0000
168)	Chrysene	(5)	12.837	228	668824		48.8972
169)	bis(2-Ethylhexyl)phthalate	(5)	12.873	149	535622		55.7302
172)	Di-n-octylphthalate	(6)	13.525	149	827642		54.1149
173)	Benzo(b)fluoranthene	(6)	13.866	252	625549	A	52.4512
175)	Benzo(k)fluoranthene	(6)	13.896	252	608827		45.7894
176)	Benzo(a)pyrene	(6)	14.177	252	557052		48.9191
177)	Perylene-d12	(6)	14.231	264	432616		40.0000
185)	Indeno(1,2,3-cd)pyrene	(6)	15.302	276	616962		52.4255
187)	Dibenz(a,h)anthracene	(6)	15.326	278	535237		53.9410
188)	Benzo(g,h,i)perylene	(6)	15.607	276	510955		51.7299
42)	Nitrobenzene-d5	(2)	6.359	82	715904		89.0938
79)	2-Fluorobiphenyl	(3)	8.129	172	1190818		85.0651
157)	Terphenyl-d14	(5)	11.796	244	1063666		100.7596

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1027.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 18:45 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 24-Jul-2011 09:18 lmh00956

Sample Name: XXXXXMSD Lab Sample ID: 6339379

Compound Number : 173
Compound Name : Benzo(b)fluoranthene
Scan Number : 1970
Retention Time (minutes): 13.866
Quant Ion : 252
Area (flag) : 625549A
Concentration (ng/ul) : 52.4512
Integration start scan : 1963 Integration stop scan: 1972
Y at integration start : 0 Y at integration end: 91

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ 07/27/11

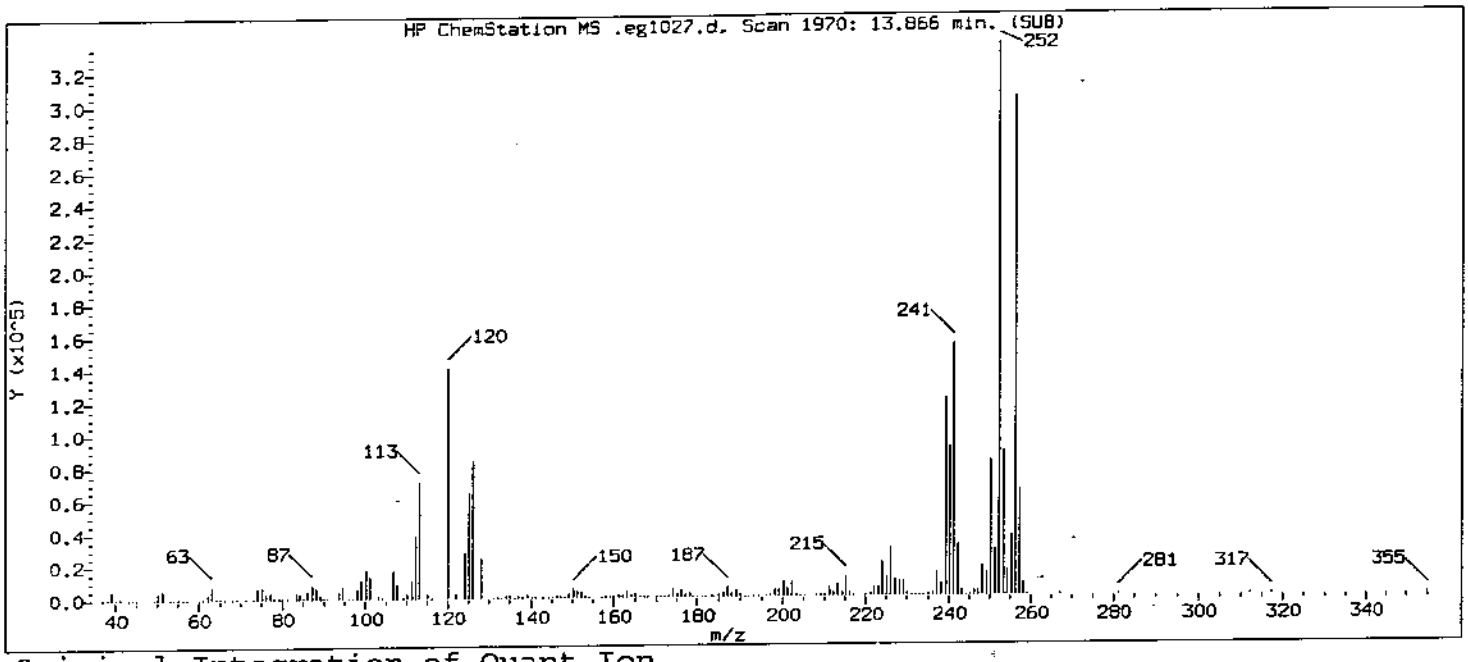
Mark A. Ratcliff
Senior Specialist

USF03 0564

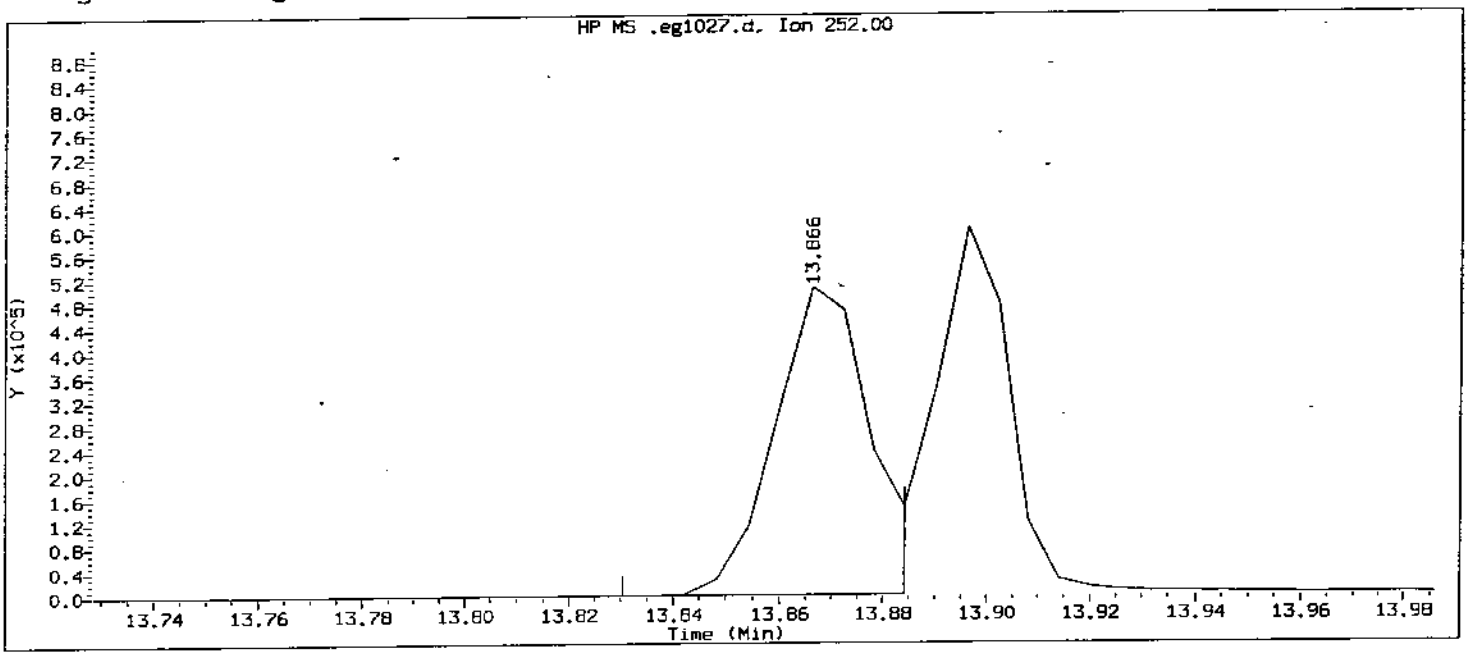
GC/MS audit/management approval: _____ JUL 25 2011

Manual Integration Report for data file /chem/HP09572.i/11jul23.b/eg1027.d, generated on 07/24/2011 at 09:19

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1027.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 18:45 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all1
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 19:05 Automation

Sample Name: XXXXXMSD Lab Sample ID: 6339379

Compound Number	:	173
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1970
Retention Time (minutes)	:	13.866
Quant Ion	:	252
Area	:	625549
Concentration (ng/ul)	:	52.4512
Integration start scan	:	1963 Integration stop scan: 1972
Y at integration start	:	0 Y at integration end: 91

USF03 8565

Original Integration Report for data file /chem/HP09572.i/11jul23.b/eg1027.d, generated on 07/24/2011 at 09:19

192WBLCS5

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

192WBLCS

Data file: /chem/HP09572.i/11jul15a.b/eg0598.d Blank Data file reference:/chem/HP09572.i/11jul15a.b/eg0597.d
Injection date and time: 16-JUL-2011 01:52 Instrument ID: HP09572.i Batch: 11192WAB
Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time (Last Method Edit): 16-JUL-2011 02:23
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul15a.b/eg0591a.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	4.430	(0.002)	596	152.0	107533	(-21)	40.00	
53) Naphthalene-d8	5.722	(0.002)	812	136.0	487753	(-19)	40.00	
103) Acenaphthene-d10	7.403	(-0.004)	1093	164.0	333537	(-13)	40.00	
140) Phenanthrene-d10	8.791	(0.008)	1325	188.0	578742	(-12)	40.00	
166) Chrysene-d12	11.298	(0.002)	1744	240.0	550841	(-16)	40.00	
177) Perylene-d12	12.542	(0.008)	1952	264.0	512296	(-7)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	5.028	(0.000)	82	486332	88.003	88%		52 - 120
73) 2-Fluorobiphenyl	(3)	6.811	(0.001)	172	947961	93.213	93%		63 - 114
157) Terphenyl-d14	(5)	10.364	(0.000)	244	1080177	92.610	93%		34 - 118

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)	5.740	(0.000)	128	605943	45.850	45.85			1.00
69) 2-Methylnaphthalene	(2)	6.422	(0.000)	142	416351	44.632	44.63			1.00
71) 1-Methylnaphthalene	(2)	6.512	(0.000)	142	424075	47.916	47.92			1.00
92) Dimethylphthalate	(3)	7.236	(0.001)	163	411599	36.699	36.70			2.00
100) Acenaphthylene	(3)	7.260	(0.001)	152	686678	48.203	48.20			1.00
106) Acenaphthene	(3)	7.433	(0.001)	153	432280	45.947	45.95			1.00
118) Diethylphthalate	(3)	7.924	(0.001)	149	503869	46.954	46.95			2.00
119) Fluorene	(3)	7.924	(0.001)	166	545856	47.957	47.96			1.00
141) Phenanthrene	(4)	8.815	(0.000)	178	779423	45.635	45.63			1.00
143) Anthracene	(4)	8.863	(0.000)	178	809681	46.506	46.51			1.00
148) Di-n-butylphthalate	(4)	9.485	(-0.001)	149	876090	47.603	47.60			2.00
153) Fluoranthene	(4)	9.934	(-0.001)	202	825555	48.249	48.25			1.00
155) Pyrene	(5)	10.137	(0.000)	202	856830	50.538	50.54			1.00
162) Butylbenzylphthalate	(5)	10.891	(0.000)	149	380735	50.568	50.57			2.00
164) Benzo(a)anthracene	(5)	11.286	(0.001)	228	749570	49.591	49.59			1.00
168) Chrysene	(5)	11.322	(0.000)	228	760334	48.021	48.02			1.00
169) bis(2-Ethylhexyl)phthalate	(5)	11.489	(0.000)	149	520001	51.473	51.47			2.00
172) Di-n-octylphthalate	(6)	12.081	(0.000)	149	878770	48.222	48.22			2.00
173) Benzo(b)fluoranthene	(6)	12.237	(0.000)	252	670912	44.478	44.48			1.00
175) Benzo(k)fluoranthene	(6)	12.267	(0.000)	252	811838	52.119	52.12			1.00
176) Benzo(a)pyrene	(6)	12.494	(0.000)	252	694773	49.535	49.53			1.00
185) Indeno(1,2,3-cd)pyrene	(6)	13.397	(0.000)	276	758808	50.385	50.38			1.00
187) Dibenz(a,h)anthracene	(6)	13.427	(0.000)	278	661059	50.793	50.79			1.00
188) Benzo(g,h,i)perylene	(6)	13.589	(0.000)	276	680103	51.920	51.92			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0566

192WBLCS5 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 192WBLCS

Data file: /chem/HP09572.i/11jul15a.b/eg0598.d Blank Data file reference:/chem/HP09572.i/11jul15a.b/eg0597.d
Injection date and time: 16-JUL-2011 01:52 Instrument ID: HP09572.i Batch: 11192WAB
Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time (Last Method Edit): 16-JUL-2011 02:23
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul15a.b/eg0591a.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

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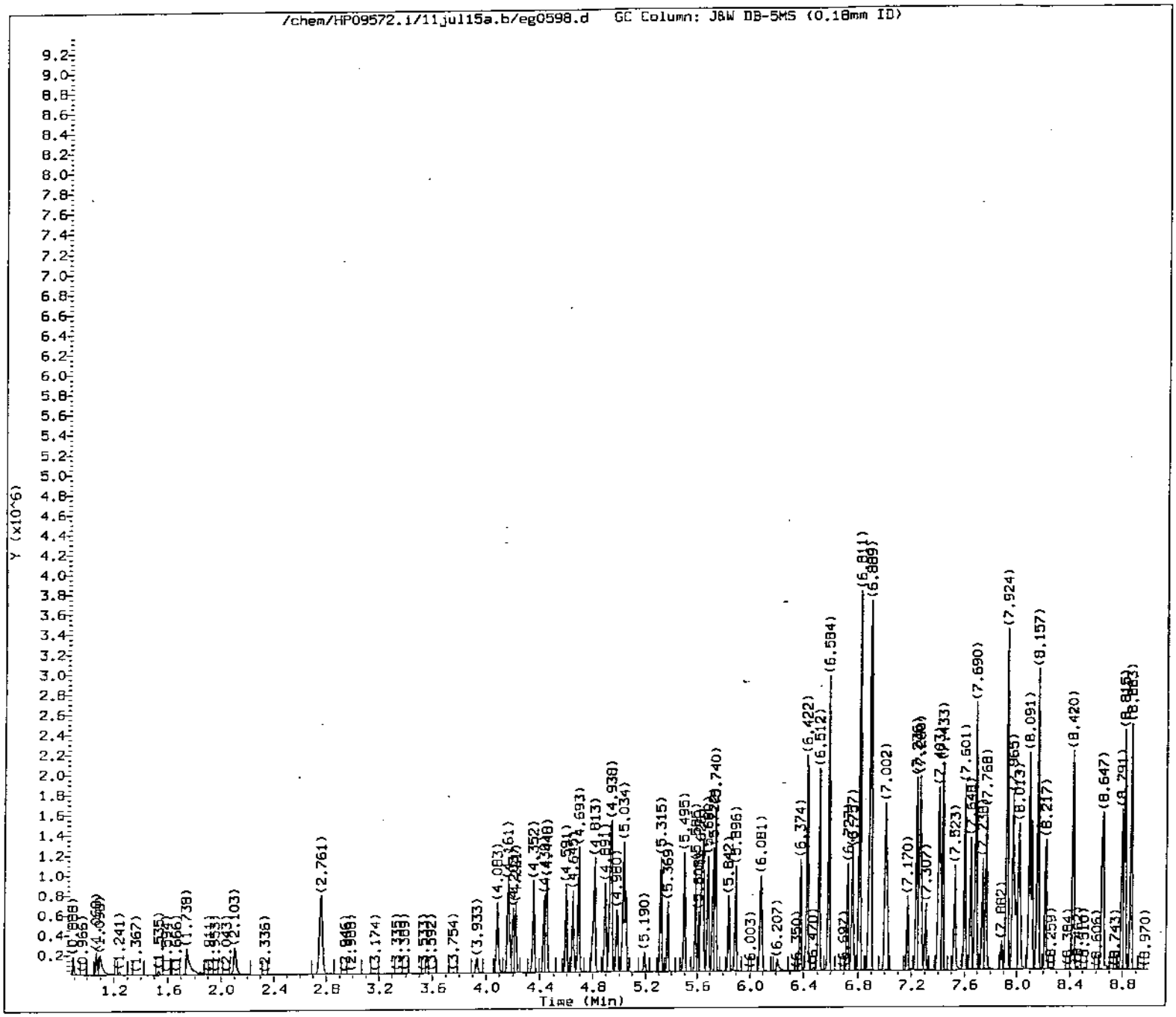
Total number of targets = 24

Comments:

Analyst: [signature] Date: 7-15-11
Auditor: [signature] Date: 7/15/11

USF03 6567



Quant Report

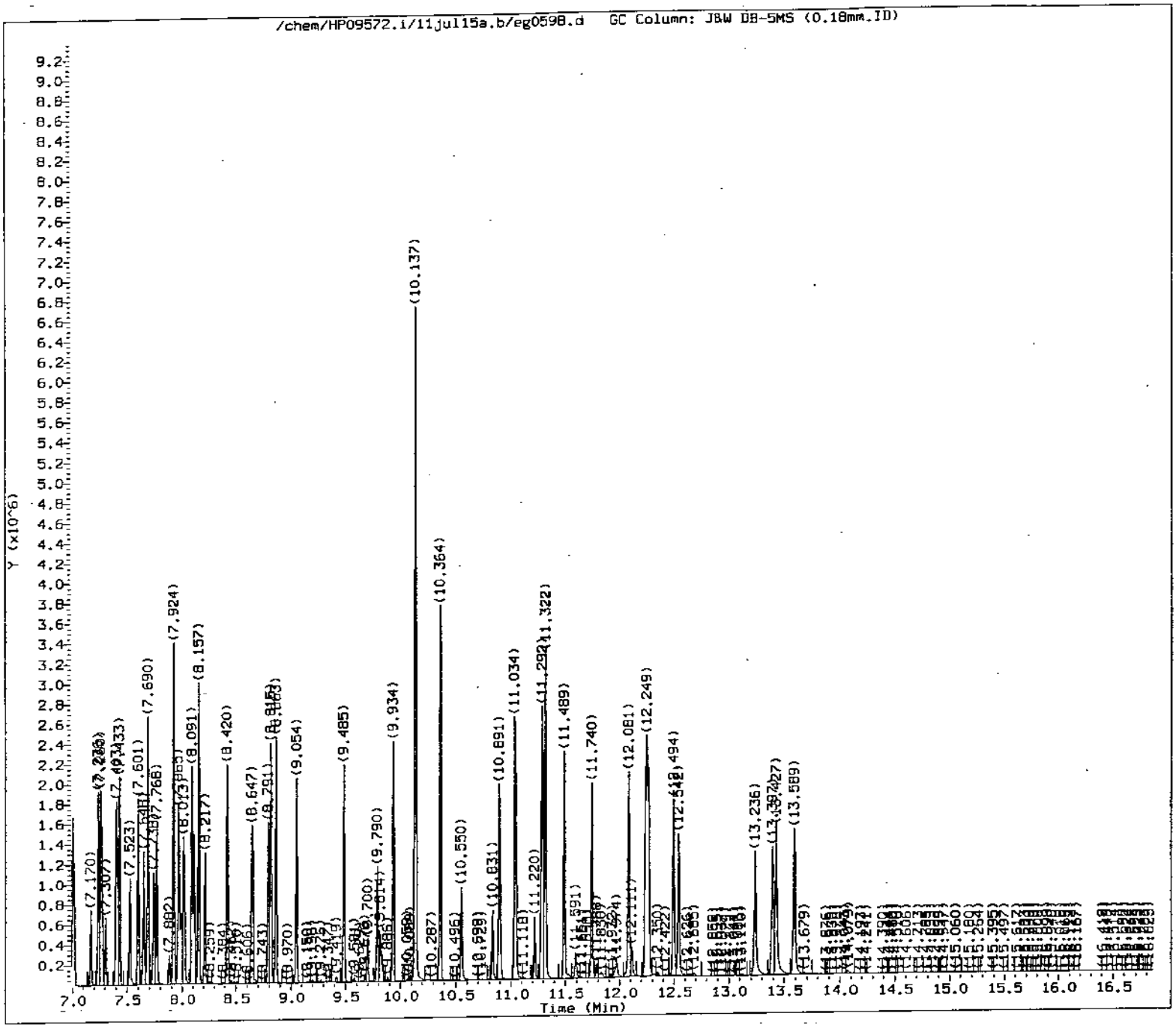
Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0598.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 01:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Sample Name: 192WBLCS5 Lab Sample ID: 192WBLCS

7-15-11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0598.d
Injection date and time: 16-JUL-2011 01:52

Instrument ID: HP09572.i
Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m
Calibration date and time: 16-JUL-2011 02:23

Sublist used: WL6911

Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Sample Name: 192WBLCS5

Lab Sample ID: 192WBLCS

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0598.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 01:52 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Sample Name: 192WBLCS5 Lab Sample ID: 192WBLCS

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	4.430	152	107533	40.0000
53)	Naphthalene-d8	(2)	5.722	136	487753	40.0000
54)	Naphthalene	(2)	5.740	128	605943	45.8503
69)	2-Methylnaphthalene	(2)	6.422	142	416351	44.6321
71)	1-Methylnaphthalene	(2)	6.512	142	424075	47.9160
92)	Dimethylphthalate	(3)	7.236	163	411599	36.6995
100)	Acenaphthylene	(3)	7.260	152	686678	48.2026
103)	Acenaphthene-d10	(3)	7.403	164	333537	40.0000
106)	Acenaphthene	(3)	7.433	153	432280	45.9471
118)	Diethylphthalate	(3)	7.924	149	503869	46.9537
119)	Fluorene	(3)	7.924	166	545856	47.9570
140)	Phenanthrene-d10	(4)	8.791	188	578742	40.0000
141)	Phenanthrene	(4)	8.815	178	779423	45.6346
143)	Anthracene	(4)	8.863	178	809681	46.5056
148)	Di-n-butylphthalate	(4)	9.485	149	876090	47.6032
153)	Fluoranthene	(4)	9.934	202	825555	48.2485
155)	Pyrene	(5)	10.137	202	856830	50.5379
162)	Butylbenzylphthalate	(5)	10.891	149	380735	50.5677
164)	Benzo(a)anthracene	(5)	11.286	228	749570	49.5913
166)	Chrysene-d12	(5)	11.298	240	550841	40.0000
168)	Chrysene	(5)	11.322	228	760334	48.0210
169)	bis(2-Ethylhexyl)phthalate	(5)	11.489	149	520001	51.4732
172)	Di-n-octylphthalate	(6)	12.081	149	878770	48.2223
173)	Benzo(b)fluoranthene	(6)	12.237	252	670912	44.4778
175)	Benzo(k)fluoranthene	(6)	12.267	252	811838	52.1189
176)	Benzo(a)pyrene	(6)	12.494	252	694773	49.5350
177)	Perylene-d12	(6)	12.542	264	512296	40.0000
185)	Indeno(1,2,3-cd)pyrene	(6)	13.397	276	758808	50.3848
187)	Dibenz(a,h)anthracene	(6)	13.427	278	661059	50.7927
188)	Benzo(g,h,i)perylene	(6)	13.589	276	680103	51.9200
42)	Nitrobenzene-d5	(2)	5.028	82	486332	88.0028
79)	2-Fluorobiphenyl	(3)	6.811	172	947961	93.2133
157)	Terphenyl-d14	(5)	10.364	244	1080177	92.6104

M = Compound was manually integrated. A = User selected an alternate hit

192WBLCSD5 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 192WBLCSD

Data file: /chem/HP09572.i/11jul15a.b/eg0599.d Blank Data file reference:/chem/HP09572.i/11jul15a.b/eg0597.d
Injection date and time: 16-JUL-2011 02:17 Instrument ID: HP09572.i Batch: 11192WAB
Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: **WL6911**
Calibration date and time (Last Method Edit): 16-JUL-2011 02:23
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul15a.b/eg0591a.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	4.430(0.002)	596	152.0	111035(-18)	40.00	
53) Naphthalene-d8	5.722(0.002)	812	136.0	517959(-14)	40.00	
103) Acenaphthene-d10	7.403(-0.004)	1093	164.0	350593(-9)	40.00	
140) Phenanthrene-d10	8.797(0.002)	1326	188.0	605161(-8)	40.00	
166) Chrysene-d12	11.298(0.002)	1744	240.0	576062(-12)	40.00	
177) Perylene-d12	12.542(0.008)	1952	264.0	523260(-5)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	5.034(-0.001)	82	511518	87.162	87%		52 - 120
79) 2-Fluorobiphenyl	(3)	6.811(0.001)	172	995030	93.082	93%		63 - 114
157) Terphenyl-d14	(5)	10.364(0.000)	244	1147887	94.107	94%		34 - 118

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)	5.740(0.000)	128	637258	45.408	45.41			1.00
69) 2-Methylnaphthalene	(2)	6.422(0.000)	142	442798	44.699	44.70			1.00
71) 1-Methylnaphthalene	(2)	6.512(0.000)	142	449959	47.876	47.88			1.00
92) Dimethylphthalate	(3)	7.242(0.000)	163	445042	37.751	37.75			2.00
100) Acenaphthylene	(3)	7.260(0.001)	152	749119	50.028	50.03			1.00
106) Acenaphthene	(3)	7.433(0.001)	153	468690	47.394	47.39			1.00
118) Diethylphthalate	(3)	7.924(0.001)	149	537422	47.644	47.64			2.00
119) Fluorene	(3)	7.924(0.001)	166	583885	48.803	48.80			1.00
141) Phenanthrene	(4)	8.815(0.001)	178	851026	47.652	47.65			1.00
143) Anthracene	(4)	8.863(0.001)	178	877302	48.190	48.19			1.00
148) Di-n-butylphthalate	(4)	9.485(0.000)	149	956025	49.679	49.68			2.00
153) Fluoranthene	(4)	9.934(0.000)	202	902919	50.466	50.47			1.00
155) Pyrene	(5)	10.137(0.000)	202	921103	51.950	51.95			1.00
162) Butylbenzylphthalate	(5)	10.891(0.000)	149	411827	52.302	52.30			2.00
164) Benzo(a)anthracene	(5)	11.286(0.001)	228	811938	51.366	51.37			1.00
168) Chrysene	(5)	11.322(0.000)	228	801095	48.380	48.38			1.00
169) bis(2-Ethylhexyl)phthalate	(5)	11.489(0.000)	149	563470	53.334	53.33			2.00
172) Di-n-octylphthalate	(6)	12.081(0.000)	149	928514	49.744	49.74			2.00
173) Benzo(b)fluoranthene	(6)	12.237(0.000)	252	800523	51.958	51.96			1.00
175) Benzo(k)fluoranthene	(6)	12.267(0.000)	252	749953	47.137	47.14			1.00
176) Benzo(a)pyrene	(6)	12.494(0.000)	252	731868	51.086	51.09			1.00
185) Indeno(1,2,3-cd)pyrene	(6)	13.397(0.000)	276	798660	51.920	51.92			1.00
187) Dibenz(a,h)anthracene	(6)	13.427(0.000)	278	692624	52.103	52.10			1.00
188) Benzo(g,h,i)perylene	(6)	13.589(0.000)	276	715342	53.466	53.47			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 8571

Data file: /chem/HP09572.i/11jul15a.b/eg0599.d Blank Data file reference:/chem/HP09572.i/11jul15a.b/eg0597.d
Injection date and time: 16-JUL-2011 02:17 Instrument ID: HP09572.i Batch: 11192WAB
Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time (Last Method Edit): 16-JUL-2011 02:23
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul15a.b/eg0591a.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

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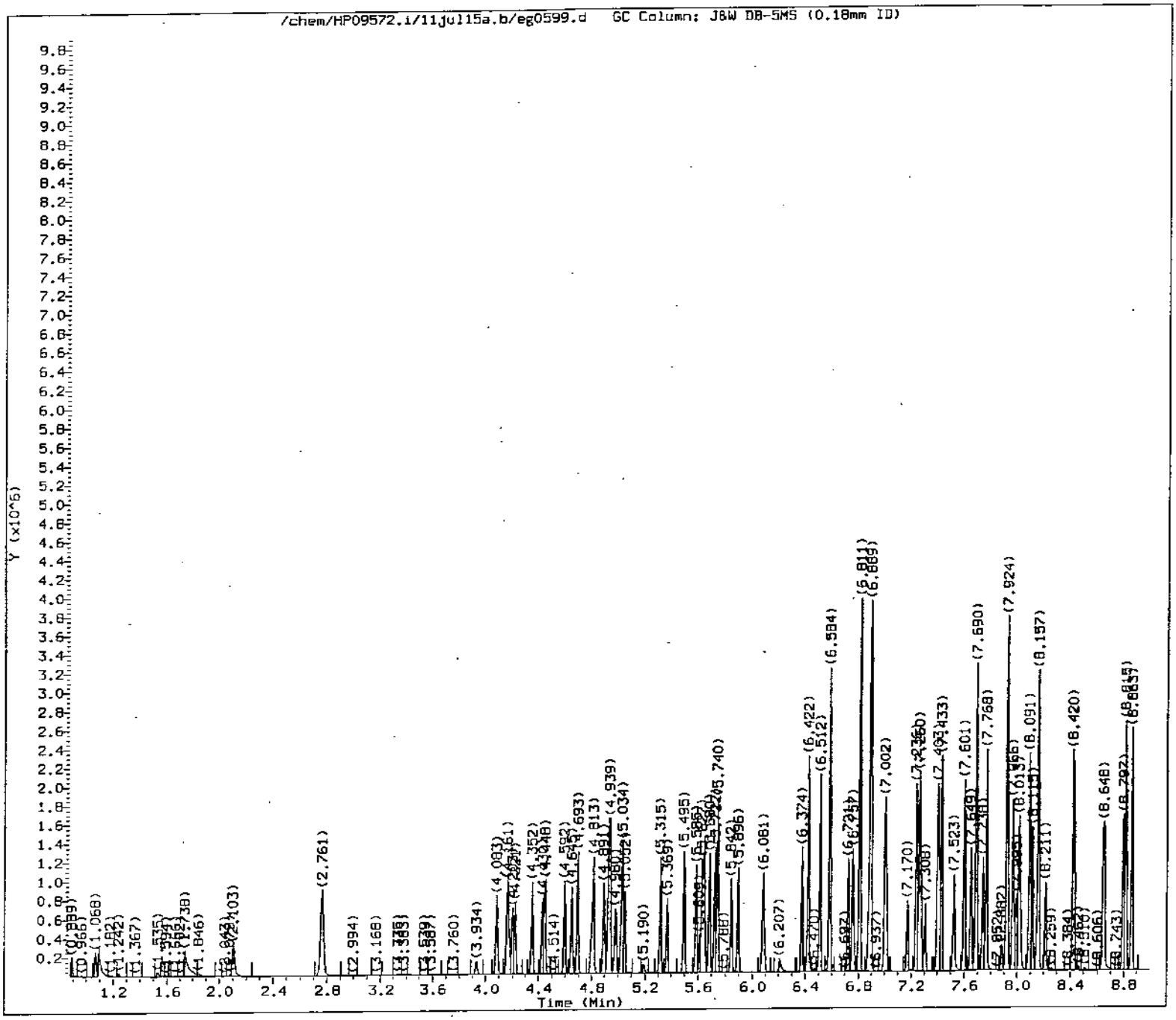
Total number of targets = 24

Comments:

Analyst: [signature] Date: 7-15-11
Auditor: [signature] Date: 7/18/11

USF03 8572



Quant Report

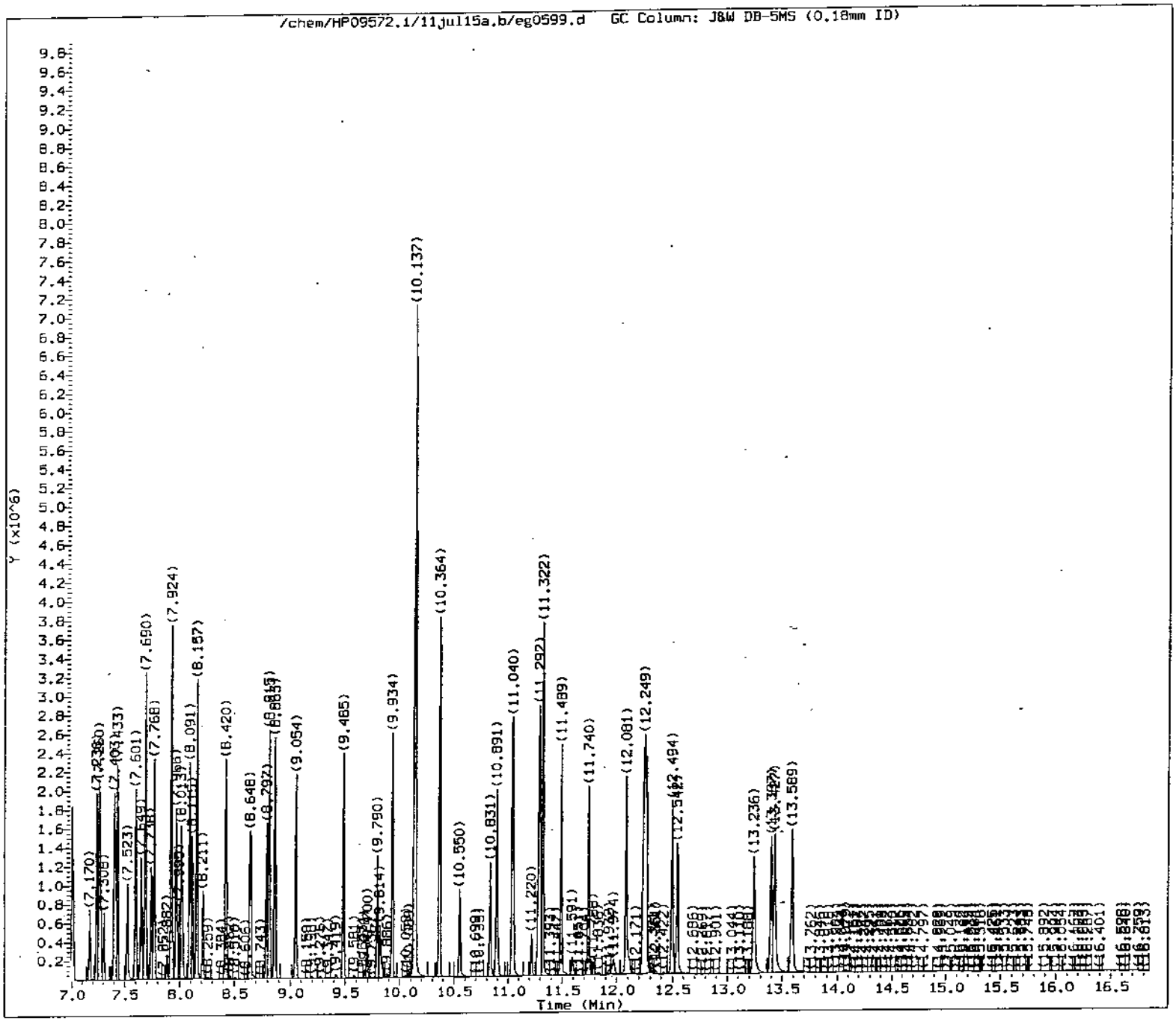
Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0599.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 02:17 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Sample Name: 192WBLCSD5 Lab Sample ID: 192WBLCSD

7-15-11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0599.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 02:17 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Sample Name: 192WBLCSD5 Lab Sample ID: 192WBLCSD

7-15-11
USF83 8574

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul15a.b/eg0599.d Instrument ID: HP09572.i
Injection date and time: 16-JUL-2011 02:17 Analyst ID: rpb01568

Method used: /chem/HP09572.i/11jul15a.b/m8270.m Sublist used: WL6911
Calibration date and time: 16-JUL-2011 02:23
Date, time and analyst ID of latest file update: 16-Jul-2011 03:06 rpb01568

Sample Name: 192WBLCSD5 Lab Sample ID: 192WBLCSD

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	4.430	152	111035	40.0000
53)	Naphthalene-d8	(2)	5.722	136	517959	40.0000
54)	Naphthalene	(2)	5.740	128	637258	45.4077
69)	2-Methylnaphthalene	(2)	6.422	142	442798	44.6990
71)	1-Methylnaphthalene	(2)	6.512	142	449959	47.8757
92)	Dimethylphthalate	(3)	7.242	163	445042	37.7509
100)	Acenaphthylene	(3)	7.260	152	749119	50.0276
103)	Acenaphthene-d10	(3)	7.403	164	350593	40.0000
106)	Acenaphthene	(3)	7.433	153	468690	47.3935
118)	Diethylphthalate	(3)	7.924	149	537422	47.6441
119)	Fluorene	(3)	7.924	166	583885	48.8025
140)	Phenanthrene-d10	(4)	8.797	188	605161	40.0000
141)	Phenanthrene	(4)	8.815	178	851026	47.6516
143)	Anthracene	(4)	8.863	178	877302	48.1897
148)	Di-n-butylphthalate	(4)	9.485	149	956025	49.6787
153)	Fluoranthene	(4)	9.934	202	902919	50.4662
155)	Pyrene	(5)	10.137	202	921103	51.9503
162)	Butylbenzylphthalate	(5)	10.891	149	411827	52.3024
164)	Benzo(a)anthracene	(5)	11.286	228	811938	51.3657
166)	Chrysene-d12	(5)	11.298	240	576062	40.0000
168)	Chrysene	(5)	11.322	228	801095	48.3802
169)	bis(2-Ethylhexyl)phthalate	(5)	11.489	149	563470	53.3341
172)	Di-n-octylphthalate	(6)	12.081	149	928514	49.7438
173)	Benzo(b)fluoranthene	(6)	12.237	252	800523	51.9583
175)	Benzo(k)fluoranthene	(6)	12.267	252	749953	47.1372
176)	Benzo(a)pyrene	(6)	12.494	252	731868	51.0864
177)	Perylene-d12	(6)	12.542	264	523260	40.0000
185)	Indeno(1,2,3-cd)pyrene	(6)	13.397	276	798660	51.9198
187)	Dibenz(a,h)anthracene	(6)	13.427	278	692624	52.1030
188)	Benzo(g,h,i)perylene	(6)	13.589	276	715342	53.4659
42)	Nitrobenzene-d5	(2)	5.034	82	511518	87.1624
79)	2-Fluorobiphenyl	(3)	6.811	172	995030	93.0817
157)	Terphenyl-d14	(5)	10.364	244	1147887	94.1068

M = Compound was manually integrated. A = User selected an alternate hit

USF03 0575

193LBLCS5

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

193LBLCS

Data file: /chem/HP09572.i/11jul23.b/eg1014.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 12:51 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:15 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.808(0.000)	623	152.0	148492(6)	40.00	
53) Naphthalene-d8	7.059(0.006)	832	136.0	692984(5)	40.00	
103) Acenaphthene-d10	8.775(0.000)	1119	164.0	450741(8)	40.00	
140) Phenanthrene-d10	10.223(0.006)	1361	188.0	738004(10)	40.00	
166) Chrysene-d12	12.819(0.006)	1795	240.0	629415(2)	40.00	
177) Perylene-d12	14.237(0.000)	2032	264.0	515222(-5)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.365(-0.001)	82	714348	89.032	89%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.129(0.000)	172	1212258	85.356	85%		67 - 115
157) Terphenyl-d14	(5)	11.796(0.000)	244	1277198	97.230	97%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)	7.082(-0.001)	128	776201	42.280	1409.34			0.50
69) 2-Methylnaphthalene	(2)	7.758(0.000)	142	563005	44.529	1484.30			0.50
71) 1-Methylnaphthalene	(2)	7.854(0.000)	142	515759	43.379	1445.98			0.50
92) Dimethylphthalate	(3)	8.542(0.000)	163	699717	47.824	1594.12			0.50
100) Acenaphthylene	(3)	8.638(0.001)	152	908305	47.424	1580.78			0.50
106) Acenaphthene	(3)	8.805(0.001)	153	574593	44.946	1498.21			0.50
118) Diethylphthalate	(3)	9.230(0.001)	149	687123	48.137	1604.57			0.50
119) Fluorene	(3)	9.314(0.000)	166	720874	46.325	1544.18			0.50
141) Phenanthrene	(4)	10.247(0.000)	178	991732	49.309	1643.64			0.50
143) Anthracene	(4)	10.295(0.001)	178	1028243	50.382	1679.40			0.50
148) Di-n-butylphthalate	(4)	10.827(0.000)	149	1151712	51.097	1703.24			0.50
153) Fluoranthene	(4)	11.408(-0.001)	202	999263	49.184	1639.46			0.50
155) Pyrene	(5)	11.623(0.000)	202	1027854	51.697	1723.23			0.50
162) Butylbenzylphthalate	(5)	12.287(0.000)	149	468827	52.951	1765.04			0.50
164) Benzo(a)anthracene	(5)	12.807(0.000)	228	865250	49.949	1664.96			0.50
168) Chrysene	(5)	12.843(0.000)	228	841314	49.430	1647.66			0.50
169) bis(2-Ethylhexyl)phthalate	(5)	12.873(0.000)	149	635606	53.147	1771.57			0.50
172) Di-n-octylphthalate	(6)	13.525(0.000)	149	1007782	55.242	1841.40			0.50
173) Benzo(b)fluoranthene	(6)	13.872(0.001)	252	729553	51.364	1712.13			0.50
175) Benzo(k)fluoranthene	(6)	13.902(0.000)	252	805697	50.880	1696.01			0.50
176) Benzo(a)pyrene	(6)	14.183(0.000)	252	702520	51.802	1726.75			0.50
185) Indeno(1,2,3-cd)pyrene	(6)	15.308(0.001)	276	689715	49.211	1640.37			0.50
187) Dibenz(a,h)anthracene	(6)	15.332(0.001)	278	594892	50.341	1678.02			0.50
188) Benzo(g,h,i)perylene	(6)	15.613(0.001)	276	567803	48.269	1608.95			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF83 8576

193LBLCS5 Lancaster Labs 193LBLCS
Quantitation Report GC/MS Semi-Volatiles

Data file: /chem/HP09572.i/11jul23.b/eg1014.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 12:51 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:15 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

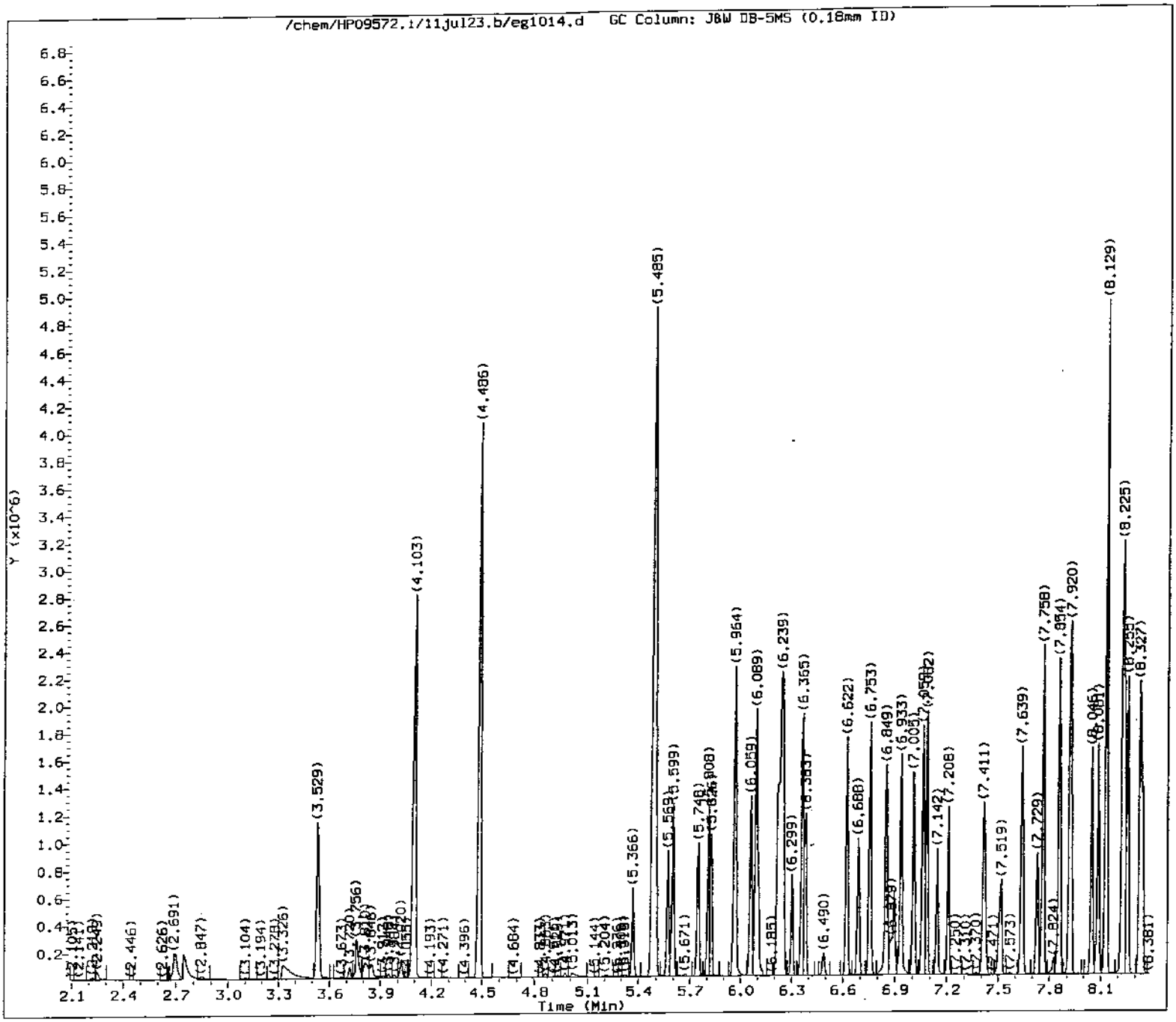
Comments:

Analyst: Date: 07/27/11
Auditor: Date:

Mark A. Ratcliff
Senior Specialist

JUL 27 2011

USF03 0577



Quant Report

Target Revision 3.5

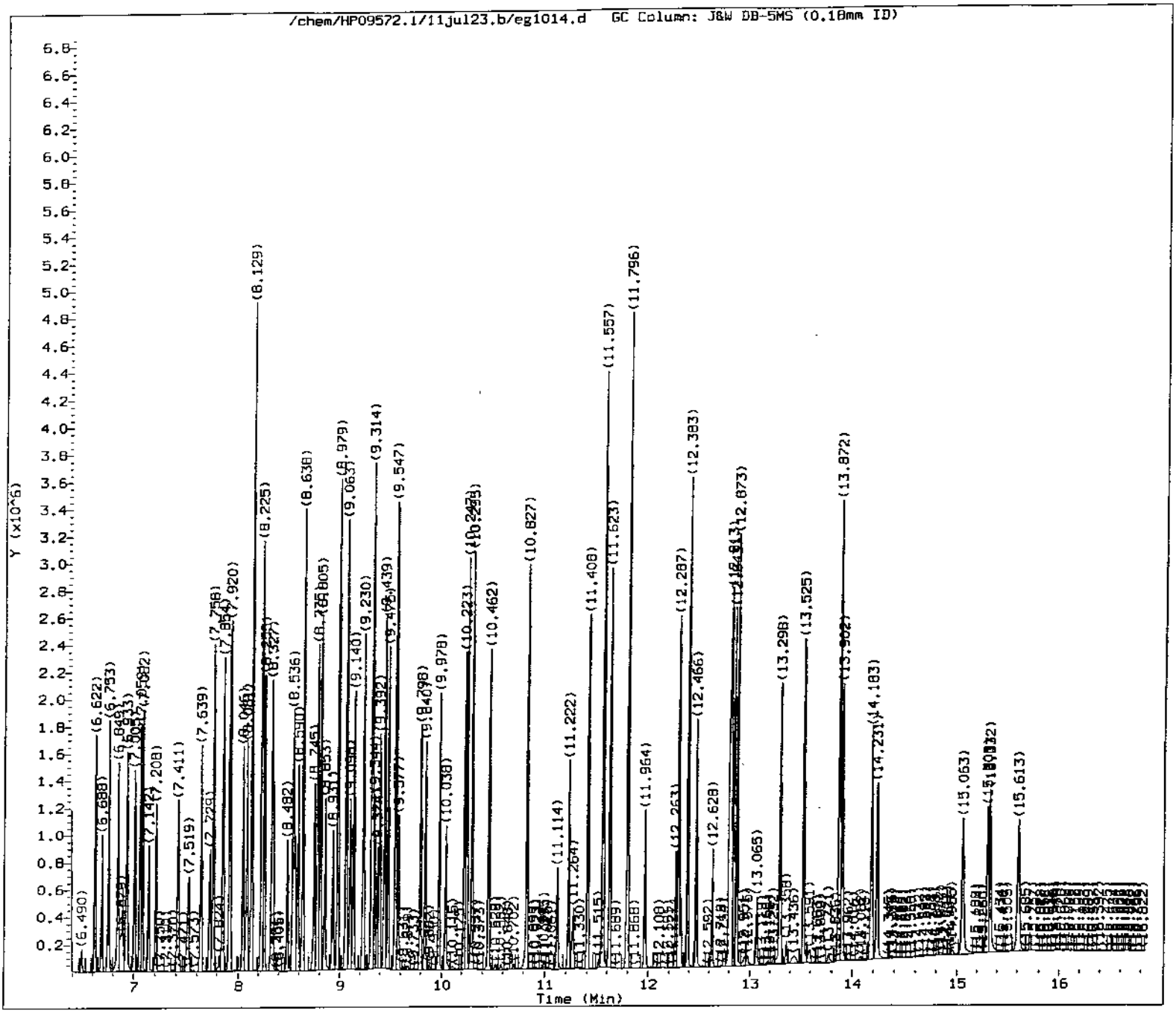
Data File: /chem/HP09572.i/11jul23.b/eg1014.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 12:51 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:47 lmh00956

Sample Name: 193LBLCS5 Lab Sample ID: 193LBLCS

USF03 8570

7/28/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1014.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 12:51 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:47 lmh00956

Sample Name: 193LBLCS5 Lab Sample ID: 193LBLCS

USF83 8579

lmh00956 07/28/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1014.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 12:51 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:47 lmh00956

Sample Name: 193LBLCS5 Lab Sample ID: 193LBLCS

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.808	152	148492	40.0000
53)	Naphthalene-d8	(2)	7.059	136	692984	40.0000
54)	Naphthalene	(2)	7.082	128	776201	42.2802
69)	2-Methylnaphthalene	(2)	7.758	142	563005	44.5291
71)	1-Methylnaphthalene	(2)	7.854	142	515759	43.3793
92)	Dimethylphthalate	(3)	8.542	163	699717	47.8237
100)	Acenaphthylene	(3)	8.638	152	908305	47.4235
103)	Acenaphthene-d10	(3)	8.775	164	450741	40.0000
106)	Acenaphthene	(3)	8.805	153	574593	44.9463
118)	Diethylphthalate	(3)	9.230	149	687123	48.1370
119)	Fluorene	(3)	9.314	166	720874	46.3254
140)	Phenanthrene-d10	(4)	10.223	188	738004	40.0000
141)	Phenanthrene	(4)	10.247	178	991732	49.3091
143)	Anthracene	(4)	10.295	178	1028243	50.3820
148)	Di-n-butylphthalate	(4)	10.827	149	1151712	51.0972
153)	Fluoranthene	(4)	11.408	202	999263	49.1838
155)	Pyrene	(5)	11.623	202	1027854	51.6968
162)	Butylbenzylphthalate	(5)	12.287	149	468827	52.9511
164)	Benzo(a)anthracene	(5)	12.807	228	865250	49.9488
166)	Chrysene-d12	(5)	12.819	240	629415	40.0000
168)	Chrysene	(5)	12.843	228	841314	49.4298
169)	bis(2-Ethylhexyl)phthalate	(5)	12.873	149	635606	53.1470
172)	Di-n-octylphthalate	(6)	13.525	149	1007782	55.2419
173)	Benzo(b)fluoranthene	(6)	13.872	252	729553	51.3641
175)	Benzo(k)fluoranthene	(6)	13.902	252	805697	50.8804
176)	Benzo(a)pyrene	(6)	14.183	252	702520	51.8024
177)	Perylene-d12	(6)	14.237	264	515222	40.0000
185)	Indeno(1,2,3-cd)pyrene	(6)	15.308	276	689715	49.2110
187)	Dibenz(a,h)anthracene	(6)	15.332	278	594892	50.3407
188)	Benzo(g,h,i)perylene	(6)	15.613	276	567803	48.2686
42)	Nitrobenzene-d5	(2)	6.365	82	714348	89.0316
79)	2-Fluorobiphenyl	(3)	8.129	172	1212258	85.3556
157)	Terphenyl-d14	(5)	11.796	244	1277198	97.2295

M = Compound was manually integrated. A = User selected an alternate hit

193LBLCSD5 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 193LBLCSD

Data file: /chem/HP09572.i/11jul23.b/eg1015.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 13:16 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:15 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc (ng/ul)	QC Flag
27) 1,4-Dichlorobenzene-d4	5.808(0.000)	623	152.0	148017(6)	40.00	
53) Naphthalene-d8	7.059(0.006)	832	136.0	703722(6)	40.00	
103) Acenaphthene-d10	8.775(0.000)	1119	164.0	457102(10)	40.00	
140) Phenanthrene-d10	10.223(0.006)	1361	188.0	747278(12)	40.00	
166) Chrysene-d12	12.819(0.006)	1795	240.0	648839(5)	40.00	
177) Perylene-d12	14.231(0.006)	2031	264.0	521245(-4)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
42) Nitrobenzene-d5	(2)	6.359(0.000)	82	712257	87.416	87%		49 - 120
79) 2-Fluorobiphenyl	(3)	8.129(0.000)	172	1213384	84.246	84%		67 - 115
157) Terphenyl-d14	(5)	11.796(0.000)	244	1292068	95.417	95%		43 - 131

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
54) Naphthalene	(2)	7.082(-0.001)	128	788963	42.320	1410.65			0.50
69) 2-Methylnaphthalene	(2)	7.758(0.000)	142	562599	43.818	1460.60			0.50
71) 1-Methylnaphthalene	(2)	7.854(0.000)	142	529004	43.814	1460.48			0.50
92) Dimethylphthalate	(3)	8.536(0.001)	163	723120	48.735	1624.52			0.50
100) Acenaphthylene	(3)	8.638(0.001)	152	919165	47.323	1577.42			0.50
106) Acenaphthene	(3)	8.805(0.001)	153	578537	44.625	1487.50			0.50
118) Diethylphthalate	(3)	9.230(0.001)	149	708090	48.916	1630.52			0.50
119) Fluorene	(3)	9.314(0.000)	166	723810	45.867	1528.89			0.50
141) Phenanthrene	(4)	10.247(0.000)	178	1014085	49.795	1659.83			0.50
143) Anthracene	(4)	10.295(0.001)	178	1048565	50.740	1691.34			0.50
148) Di-n-butylphthalate	(4)	10.827(0.000)	149	1194697	52.347	1744.88			0.50
153) Fluoranthene	(4)	11.408(-0.001)	202	1032971	50.212	1673.73			0.50
155) Pyrene	(5)	11.623(0.000)	202	1051387	51.297	1709.91			0.50
162) Butylbenzylphthalate	(5)	12.287(0.000)	149	483884	53.016	1767.19			0.50
164) Benzo(a)anthracene	(5)	12.807(0.000)	228	893863	50.056	1668.53			0.50
168) Chrysene	(5)	12.843(0.000)	228	850821	48.492	1616.40			0.50
169) bis(2-Ethylhexyl)phthalate	(5)	12.873(0.000)	149	651807	52.870	1762.34			0.50
172) Di-n-octylphthalate	(6)	13.525(0.000)	149	1036610	56.101	1870.03			0.50
173) Benzo(b)fluoranthene	(6)	13.872(0.000)	252	762562	53.068	1768.92			0.50
175) Benzo(k)fluoranthene	(6)	13.902(0.000)	252	805172	50.260	1675.32			0.50
176) Benzo(a)pyrene	(6)	14.183(0.000)	252	696105	50.736	1691.21			0.50
185) Indeno(1,2,3-cd)pyrene	(6)	15.308(0.001)	276	705926	49.786	1659.52			0.50
187) Dibenz(a,h)anthracene	(6)	15.332(0.000)	278	608007	50.856	1695.20			0.50
188) Benzo(g,h,i)perylene	(6)	15.613(0.001)	276	583162	49.001	1633.38			0.50

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 05501

193LBLCSD5 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 193LBLCSD

Data file: /chem/HP09572.i/11jul23.b/eg1015.d Blank Data file reference:/chem/HP09572.i/11jul23.b/eg1013.d
Injection date and time: 23-JUL-2011 13:16 Instrument ID: HP09572.i Batch: 11193SLB
Date, time and analyst ID of latest file update: 27-Jul-2011 11:15 lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time (Last Method Edit): 27-JUL-2011 11:13
Mid Level Daily Calibration Standard Reference: /chem/HP09572.i/11jul23.b/eg1011.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

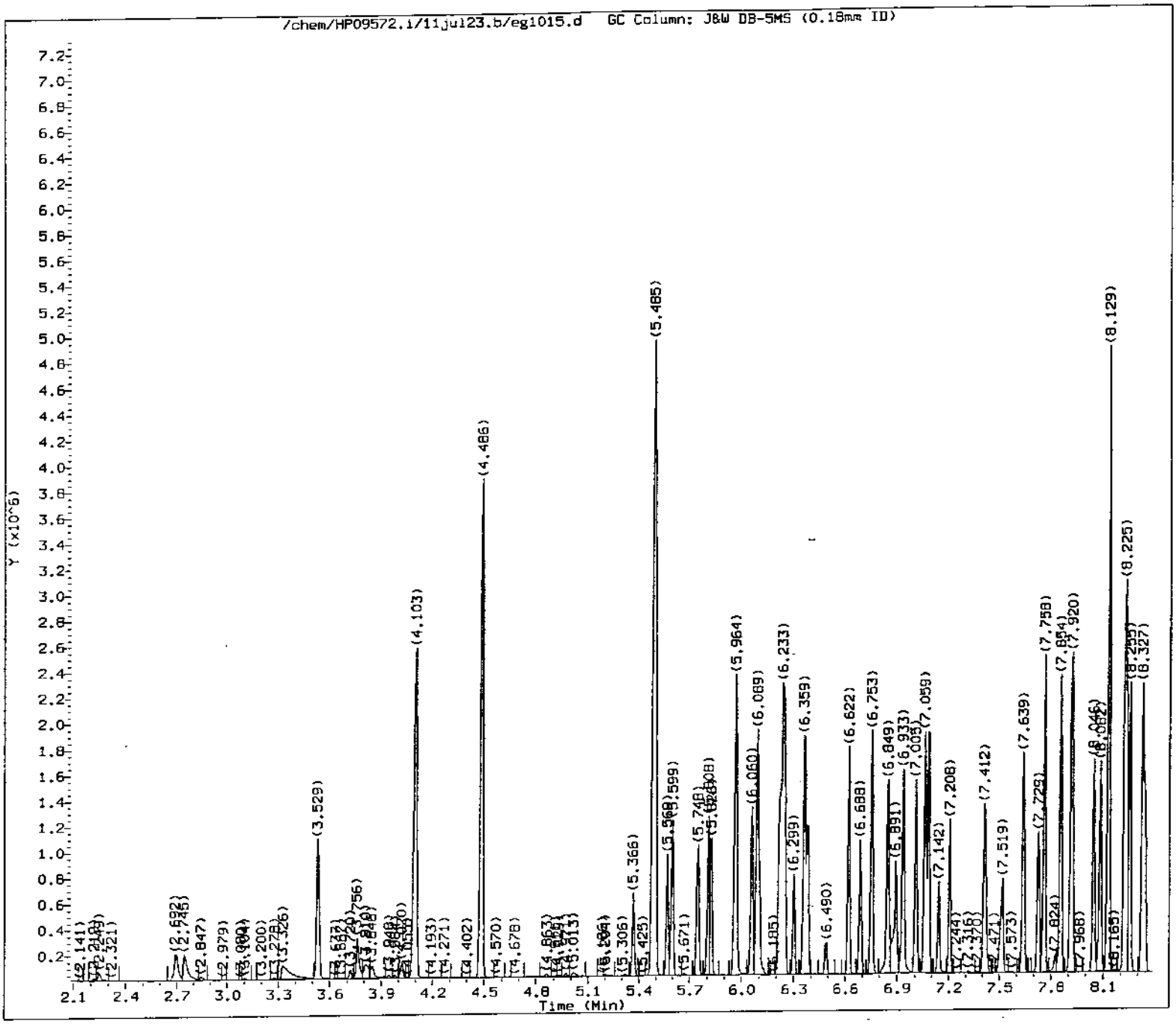
Comments:

Analyst: Date: 07/27/11
Auditor: Date:

Mark A. Ratcliff
Senior Specialist

JUL 27 2011

USF03 0582



Quant Report

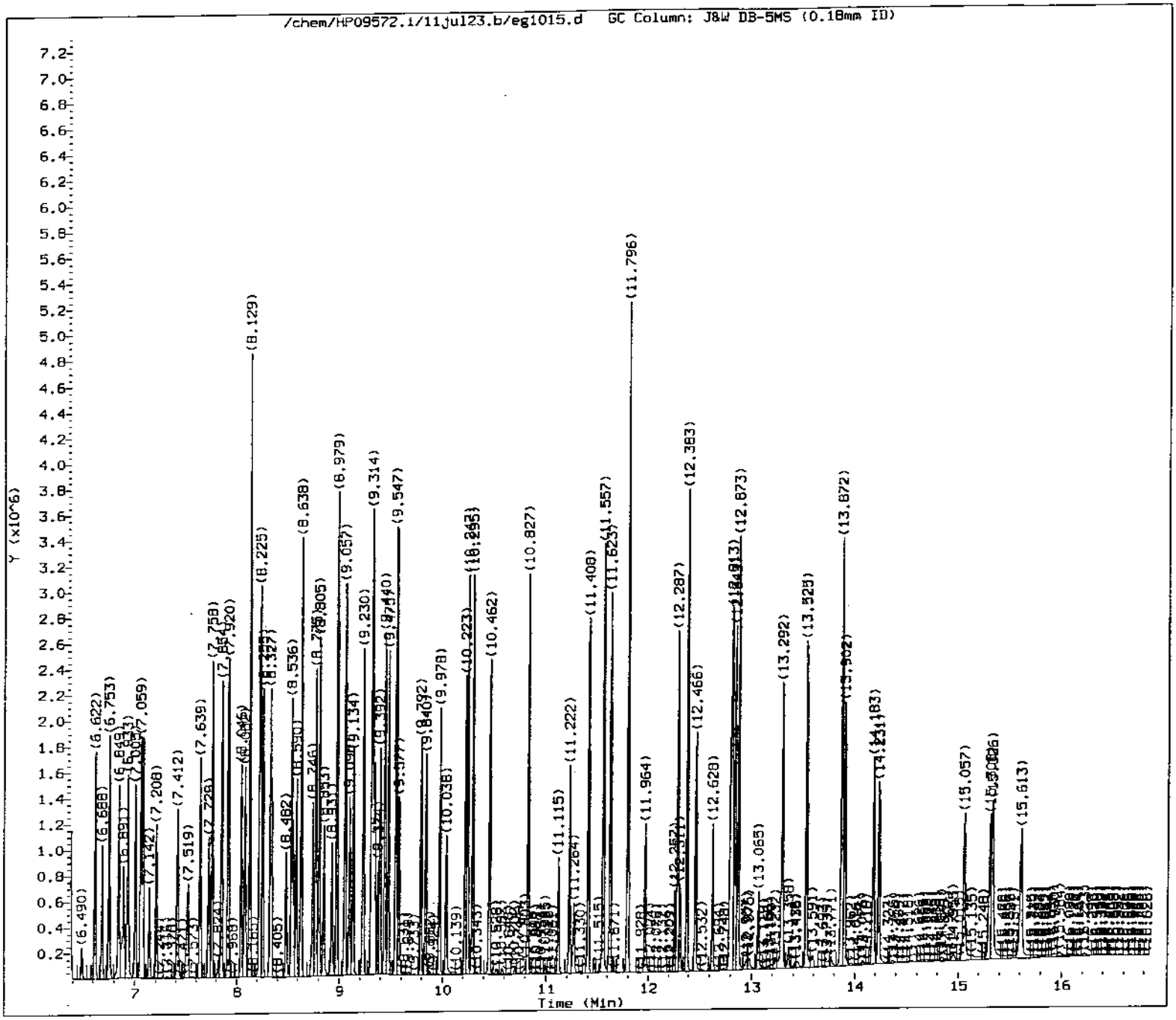
Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1015.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 13:16 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:48 lmh00956

Sample Name: 193LBLCSD5 Lab Sample ID: 193LBLCSD

USF03 8580



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1015.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 13:16 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:48 lmh00956

Sample Name: 193LBLCSD5 Lab Sample ID: 193LBLCSD

USF03 0584

lmh 07/23/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11jul23.b/eg1015.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 13:16 Analyst ID: lmh00956

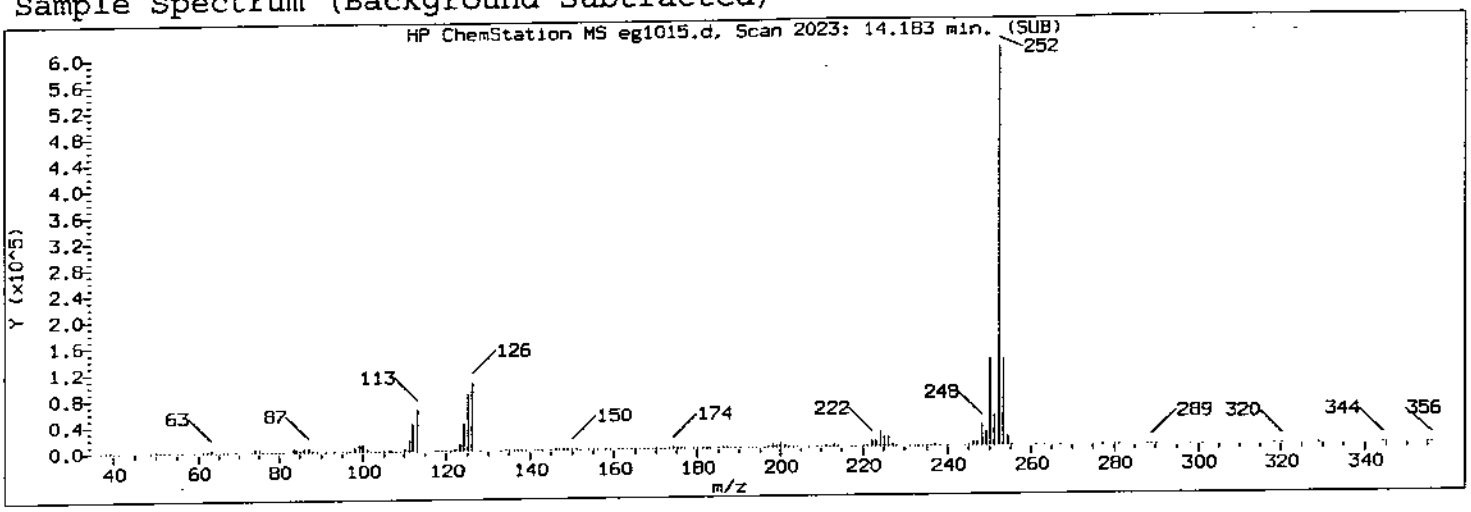
Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:48 lmh00956

Sample Name: 193LBLCSD5 Lab Sample ID: 193LBLCSD

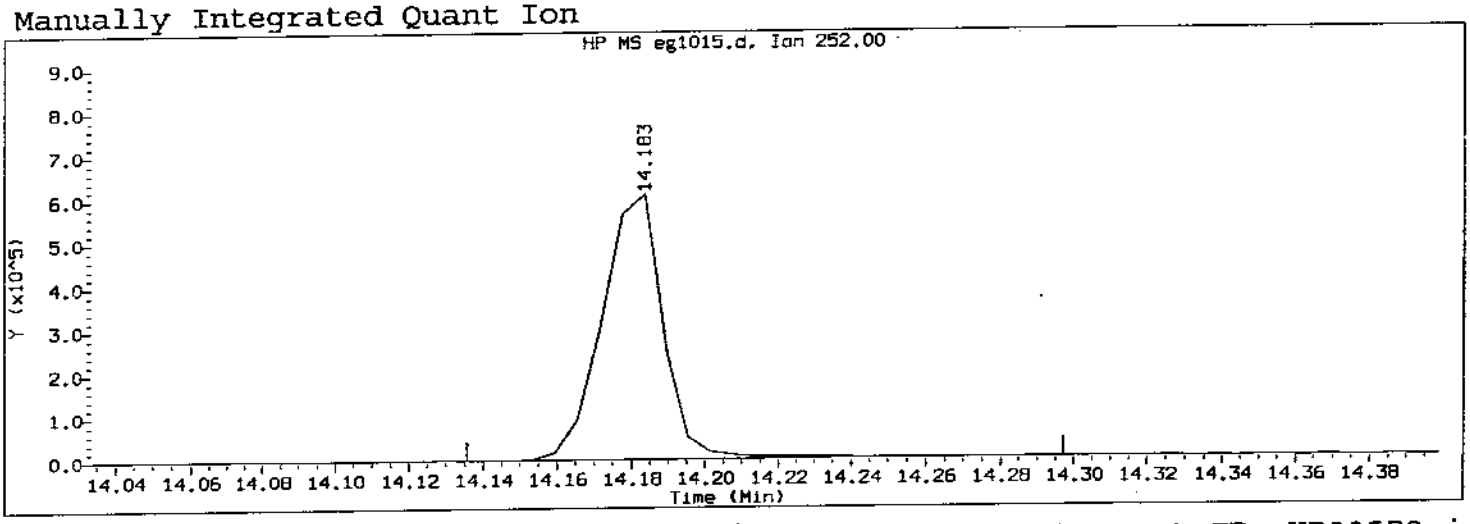
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27)	1,4-Dichlorobenzene-d4	(1)	5.808	152	148017	40.0000
53)	Naphthalene-d8	(2)	7.059	136	703722	40.0000
54)	Naphthalene	(2)	7.082	128	788963	42.3196
69)	2-Methylnaphthalene	(2)	7.758	142	562599	43.8180
71)	1-Methylnaphthalene	(2)	7.854	142	529004	43.8144
92)	Dimethylphthalate	(3)	8.536	163	723120	48.7355
100)	Acenaphthylene	(3)	8.638	152	919165	47.3227
103)	Acenaphthene-d10	(3)	8.775	164	457102	40.0000
106)	Acenaphthene	(3)	8.805	153	578537	44.6250
118)	Diethylphthalate	(3)	9.230	149	708090	48.9156
119)	Fluorene	(3)	9.314	166	723810	45.8668
140)	Phenanthrene-d10	(4)	10.223	188	747278	40.0000
141)	Phenanthrene	(4)	10.247	178	1014085	49.7948
143)	Anthracene	(4)	10.295	178	1048565	50.7402
148)	Di-n-butylphthalate	(4)	10.827	149	1194697	52.3465
153)	Fluoranthene	(4)	11.408	202	1032971	50.2120
155)	Pyrene	(5)	11.623	202	1051387	51.2974
162)	Butylbenzylphthalate	(5)	12.287	149	483884	53.0156
164)	Benzo(a)anthracene	(5)	12.807	228	893863	50.0558
166)	Chrysene-d12	(5)	12.819	240	648839	40.0000
168)	Chrysene	(5)	12.843	228	850821	48.4919
169)	bis(2-Ethylhexyl)phthalate	(5)	12.873	149	651807	52.8701
172)	Di-n-octylphthalate	(6)	13.525	149	1036610	56.1009
173)	Benzo(b)fluoranthene	(6)	13.872	252	762562	53.0677
175)	Benzo(k)fluoranthene	(6)	13.902	252	805172	50.2597
176)	Benzo(a)pyrene	(6)	14.183	252	696105M	50.7362
177)	Perylene-d12	(6)	14.231	264	521245	40.0000
185)	Indeno(1,2,3-cd)pyrene	(6)	15.308	276	705926	49.7857
187)	Dibenz(a,h)anthracene	(6)	15.332	278	608007	50.8560
188)	Benzo(g,h,i)perylene	(6)	15.613	276	583162	49.0015
42)	Nitrobenzene-d5	(2)	6.359	82	712257	87.4164
79)	2-Fluorobiphenyl	(3)	8.129	172	1213384	84.2460
157)	Terphenyl-d14	(5)	11.796	244	1292068	95.4169

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1015.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 13:16 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: URSsoil
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 15:48 lmh00956

Sample Name: 193LBLCSD5 Lab Sample ID: 193LBLCSD

Compound Number : 176
Compound Name : Benzo(a)pyrene
Scan Number : 2023
Retention Time (minutes): 14.183
Quant Ion : 252
Area (flag) : 696105 M
Concentration (ng/ul) : 50.7362
Integration start scan : 2014 Integration stop scan: 2041
Y at integration start : 467 Y at integration end: 1197

Reason for manual integration (circle one): missed peak improper integration

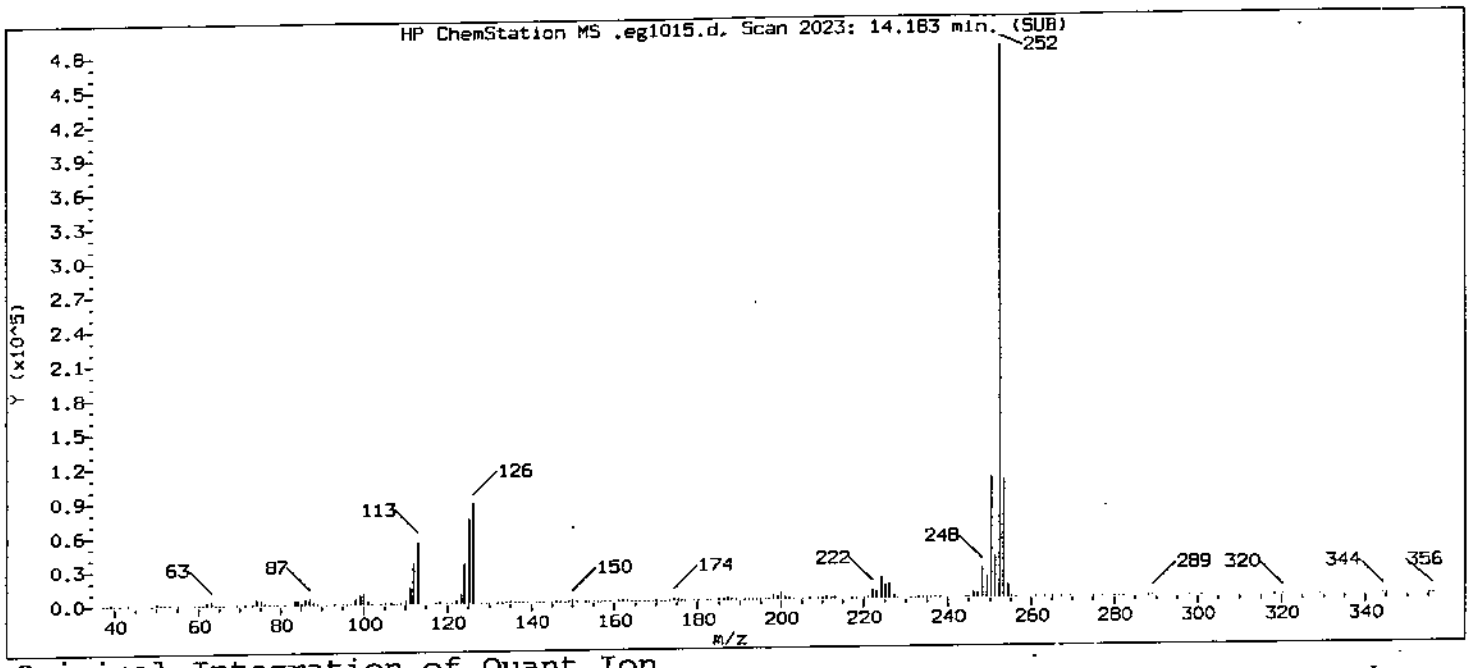
Analyst responsible for change: 07/23/11
Mark A. Ratcliff
Senior Specialist

USF03 0586

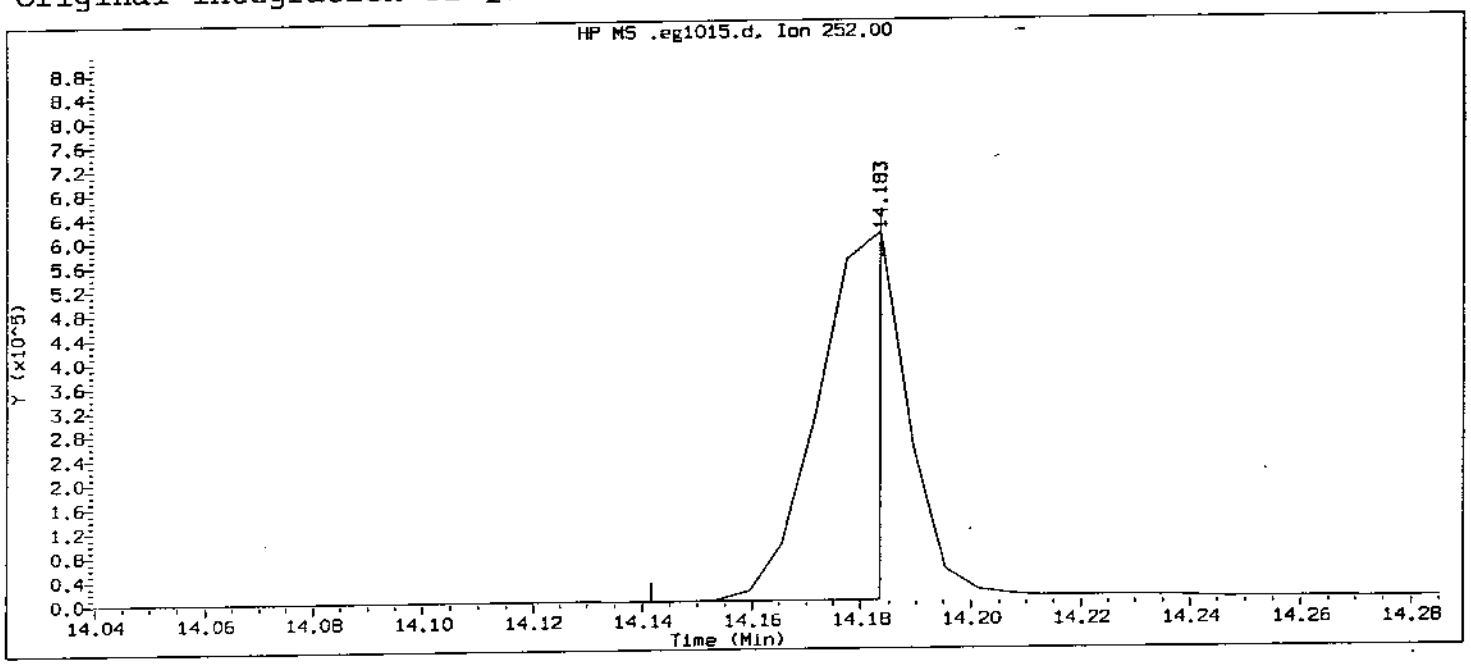
GC/MS audit/management approval: JUL 25 2011

Manual Integration Report for data file /chem/HP09572.i/11jul23.b/eg1015.d, generated on 07/23/2011 at 15:49

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11jul23.b/eg1015.d Instrument ID: HP09572.i
Injection date and time: 23-JUL-2011 13:16 Analyst ID: lmh00956

Method used: /chem/HP09572.i/11jul23.b/m8270.m Sublist used: all1
Calibration date and time: 23-JUL-2011 12:38
Date, time and analyst ID of latest file update: 23-Jul-2011 13:36 Automation

Sample Name: 193LBLCSD5 Lab Sample ID: 193LBLCSD

Compound Number	: 176
Compound Name	: Benzo(a)pyrene
Scan Number	: 2023
Retention Time (minutes)	: 14.183
Quant Ion	: 252
Area	: 458998
Concentration (ng/ul)	: 33.4545
Integration start scan	: 2015
Integration stop scan	: 2022
Y at integration start	: 372
Y at integration end	: 372

USF03 8587

Original Integration Report for data file /chem/HP09572.i/11jul23.b/eg1015.d, generated on 07/23/2011 at 15:49

Extraction/Distillation/Digestion Logs

USF03 8588

Organic Extraction Batchlog Assigned to: 2807 Nicholas Shroyer Reviewed by: R Byrne 1026 Start Date: 7-11-11 Start time: 19:00

11192WAB026 Tech 1: NS 2807 Tech 2:

Dept: 26 Prep Analysis: 00813 BNA Water Extraction TCL SW846 Semivolatiles/Waters

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH 2	pH 11	BC	Comments
BLANKA	SBLKWB192	1000	SS1115426A	1.0	———	—	1.0	✓	✓	—	Tap H2O
LCSA	LCSWB192	1000	SS1115426A	1.0	MS1116626A MS1117326A	1.0 1.0	1.0	✓	✓	—	↓
LCSDA	LCSDWB192	1000	SS1115426A	1.0	MS1116626A MS1117326A	1.0 1.0	1.0	✓	✓	—	↓

Solvent Used	Lot No.
10N NaOH	110427
Methylene Chloride	112868
Sodium Sulfate	111914
Sulfuric Acid	108088

Spike Solutions: Witness: KD 2707

MS1116626A LCS SPIKE MIX
MS1117326A SSFL LCS SPIKE
SS1115426A BNA SURROGATE STANDARD

Sample #		Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH 2	pH 11	BC	Comments	Analyses	Due Date	Prio
1	6337222	WREBW	1003	SS1115426A	1.0	1.0	✓	✓	43 C	clear	04678	07/18/2011	S
2	6338269	EBQ02	1047	SS1115426A	1.0	1.0	✓	✓	43 C	↓	04678	07/19/2011	S
3	6339388	EBQ03	1049	SS1115426A	1.0	1.0	✓	✓	43 C	↓	04678	07/20/2011	S

Rack ID:		Work Station	H_2O Bench 2
Internal Standard	LB0019	Balance # 15661	

S-bath ID 1	87° C	S-bath ID	C	N-Evap	C	M-vap	C	11192WAB026

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Organic Extraction Batchlog Assigned to: 881 Joseph Feister

Reviewed by: R. Byrne 10/20 Start Date: 7/13/11 Start time: 7:15

11193SLB026

Tech 1: JS2804 Tech 2:

Dept: 26 Prep Analysis: 00381 BNA Soil Sonication TCL SW846 Semivolatiles Soil

QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6339378MS	82S05	30.1	SS1115426A	1	~~MS1116626A~~ * MS1119326A	1	1	Z	Z	59A	Brown Soil
6339379MSD	82S05	30.4	SS1115426A	1	~~MS1116626A~~ * MS1119326A	1	1	Z	Z	59A	↓
BLANKA	SBLKSB193	30	SS1115426A	1			1	Z	Z		Na2SO4
LCSA	LCSSB193	30	SS1115426A	1	~~MS1116626A~~ * MS1119326A	1	1	Z	Z		
LCSDA	LCSDSB193	30	SS1115426A	1	~~MS1116626A~~ * MS1119326A	1	1	Z	Z		
MDLV		30	SS1115426A	1	~~MS1117226B~~	1	1	Z	Z		

Solvent Used	Lot No.
1:1 Methylene Chloride/Acetone	185062811A
Filter paper	61670
Methylene Chloride	112968
Sodium Sulfate	111911A

Spike Solutions: Witness: VF 7/13/11

~~MS1116626A~~ 7/13/11 LCS SPIKE MIX

~~MS1117226B~~ 7/13/11 SIM LCS SPIKE

SS1115426A BNA SURROGATE STANDARD

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
2 6337203	WR01S	30.0	SS1115426A	1	1	Z	Z	59A	Brown Soil	04688	07/20/2011	S
3 6337205	WR03S	30.5	SS1115426A	1	1	Z	Z	59A		04688	07/20/2011	S
4 6337207	WR05S	30.1	SS1115426A	1	1	Z	Z	59A		04688	07/20/2011	S
5 6337209	WR07S	30.2	SS1115426A	1	1	Z	Z	59A		04688	07/20/2011	S
6 6337212	WR11S	30.1	SS1115426A	1	1	Z	Z	59A		04688	07/20/2011	S
7 6338249	WR09S	30.2	SS1115426A	1	1	Z	Z	59A		04688	07/21/2011	S
8 6338250	WR13S	34.7	SS1115426A	1	1	Z	Z	59A		04688	07/21/2011	S
9 6338252	WR29S	30.1	SS1115426A	1	1	Z	Z	59A		04688	07/21/2011	S
10 6338261	WR88S	30.4	SS1115426A	1	1	Z	Z	59A		04688	07/21/2011	S
11 6338263	WR90S	30.1	SS1115426A	1	1	Z	Z	59A		04688	07/21/2011	S
12 6338264	WR90D	30.1	SS1115426A	1	1	Z	Z	59A		04688	07/21/2011	S
13 6339368	15S05	30.3	SS1115426A	1	1	Z	Z	59A		04688	07/22/2011	S
14 6339370	17S05	30.1	SS1115426A	1	1	Z	Z	59A		04688	07/22/2011	S
15 6339372	19S05	30.2	SS1115426A	1	1	Z	Z	59A		04688	07/22/2011	S
16 6339374	21S05	30.3	SS1115426A	1	1	Z	Z	59A		04688	07/22/2011	S
17 6339375	74S05	30.1	SS1115426A	1	1	Z	Z	59A		04688	07/22/2011	S
18 6339377BKG	82S05	30.4	SS1115426A	1	1	Z	Z	59A		04688	07/22/2011	S
19 6339384	82S05	30	SS1115426A	1	1	Z	Z	59A	↓ end of lcs spike	04688	07/22/2011	S

Rack ID:		Work Station	Soxhlet 3
Internal Standard		Balance #	10879

S-bath ID 6	97 C	S-bath ID	C	N-Evap	C	M-vap	C	11193SLB026

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
20 6339386	87S05	30.3	SS1115426A	1	1	Z	Z	59A	Brown Soil	04688	07/22/2011	S

7/8-2804

7/13/11

Rack ID:		Work Station	Son Hood 3
Internal Standard		Balance #	10879

S-bath ID 6	97 C	S-bath ID	C	N-Evap	C	M-vap	C	11193SLB026

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Semivolatiles by GC/MS-SIM Data

USP03 8592

Case Narrative
Conformance/Nonconformance Summary

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS-SIM

Selected SVOAs in water by SIM
Selected SVOAs in soil by SIM

		Matrix		
Sample #	Client ID	Liquid	Solid	Comments
6339368	WRBS0015S005		X	
6339370	WRBS0017S005		X	
6339372	WRBS0019S005		X	
6339374	WRBS0021S005		X	
6339375	WRBS0074S005		X	
6339377	WRBS0082S005		X	Unspiked
6339378	WRBS0082S005 Matrix Spike		X	Matrix Spike
6339379	WRBS0082S005 Matrix Spike Dup		X	Matrix Spike Duplicate
6339384	WRBS0082S005 RL LCS		X	RLQ
6339386	WRBS0087S005		X	
6339388	EBQW00003	X		Equipment Blank

See QC Reference List for Associated Batch QC Samples.

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples.

ANALYSIS:

There were no dilutions performed for analyses associated with samples in this SDG.

No problems were encountered with the analysis of the samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

Sample numbers 6339388: Diethylphthalate was detected in the method blank at a concentration of .062 ug/l. The blank value was not subtracted from the analytical result.

USF03 0594

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS-SIM

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 7/27/11 (Date) by Jessica R. Baron

USF03 0295

Quality Control and Calibration Summary Forms

Lancaster Laboratories

Quality Control Reference List
GC/MS Semivolatiles

CLIENT: URS Corporation
SDG: USF03

Fraction: Semivolatiles by GC/MS-SIM

Analysis	Batch Number	Sample Number	Analysis Date
Selected SVOAs in soil by SIM	11194SLD026	SBLKLD194	07/14/2011 18:19:00
		194LDLCS	07/14/2011 18:51:00
		194LDLCSD	07/14/2011 19:23:00
		6339368	07/15/2011 04:17:00
		6339370	07/15/2011 04:48:00
		6339372	07/15/2011 09:30:00
		6339374	07/15/2011 10:01:00
		6339375	07/15/2011 10:33:00
		6339377 UNSPK	07/14/2011 20:59:00
		6339378 MS	07/14/2011 21:31:00
		6339379 MSD	07/14/2011 22:02:00
		6339384 RLQ	07/14/2011 20:27:00
		6339386	07/15/2011 11:05:00
Selected SVOAs in water by SIM	11192WAG026	SBLKWG192	07/14/2011 08:29:00
		192WGLCS	07/14/2011 09:01:00
		192WGLCSD	07/14/2011 09:32:00
		6339388	07/14/2011 11:08:00

USF03 0597

Lancaster Laboratories

Quality Control Summary
Method Blank
GC/MS Semivolatiles
SDG: USF03
Matrix: LIQUID

Fraction: Semivolatiles by GC/MS-SIM

11192WAG026 / SBLKWG192 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
1-Methylnaphthalene	07/14/11	N.D.	ug/l	0.010	0.050
Naphthalene	07/14/11	N.D.	ug/l	0.030	0.050
2-Methylnaphthalene	07/14/11	N.D.	ug/l	0.010	0.050
Acenaphthylene	07/14/11	N.D.	ug/l	0.010	0.050
Dimethylphthalate	07/14/11	N.D.	ug/l	0.050	1.0
Acenaphthene	07/14/11	N.D.	ug/l	0.010	0.050
Diethylphthalate	07/14/11	0.062	ug/l	0.050	1.0
Fluorene	07/14/11	N.D.	ug/l	0.010	0.050
Phenanthrene	07/14/11	N.D.	ug/l	0.030	0.050
Anthracene	07/14/11	N.D.	ug/l	0.010	0.050
Di-n-butylphthalate	07/14/11	0.23	ug/l	0.050	1.0
Fluoranthene	07/14/11	N.D.	ug/l	0.010	0.050
Pyrene	07/14/11	N.D.	ug/l	0.010	0.050
Butylbenzylphthalate	07/14/11	N.D.	ug/l	0.050	1.0
Bis(2-Ethylhexyl)phthalate	07/14/11	0.17	ug/l	0.050	1.0
Benzo(a)anthracene	07/14/11	N.D.	ug/l	0.010	0.050
Chrysene	07/14/11	N.D.	ug/l	0.010	0.050
Di-n-octylphthalate	07/14/11	N.D.	ug/l	0.050	1.0
Benzo(b)fluoranthene	07/14/11	N.D.	ug/l	0.010	0.050
Benzo(k)fluoranthene	07/14/11	N.D.	ug/l	0.010	0.050
Benzo(a)pyrene	07/14/11	N.D.	ug/l	0.010	0.050
Indeno(1,2,3-cd)pyrene	07/14/11	N.D.	ug/l	0.010	0.050
Dibenz(a,h)anthracene	07/14/11	N.D.	ug/l	0.010	0.050
Benzo(g,h,i)perylene	07/14/11	N.D.	ug/l	0.010	0.050

Lancaster Laboratories

Quality Control Summary
Method Blank
GC/MS Semivolatiles
SDG: USF03
Matrix: SOLID

Fraction: Semivolatiles by GC/MS-SIM

11194SLD026 / SBLKLD194 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Naphthalene	07/14/11	N.D.	ug/kg	0.67	1.7
2-Methylnaphthalene	07/14/11	N.D.	ug/kg	0.67	1.7
1-Methylnaphthalene	07/14/11	N.D.	ug/kg	0.67	1.7
Dimethylphthalate	07/14/11	N.D.	ug/kg	6.0	18
Acenaphthylene	07/14/11	N.D.	ug/kg	0.33	1.7
Acenaphthene	07/14/11	N.D.	ug/kg	0.67	1.7
Diethylphthalate	07/14/11	N.D.	ug/kg	6.0	18
Fluorene	07/14/11	N.D.	ug/kg	0.67	1.7
Phenanthrene	07/14/11	N.D.	ug/kg	0.67	1.7
Anthracene	07/14/11	N.D.	ug/kg	0.33	1.7
Di-n-butylphthalate	07/14/11	N.D.	ug/kg	6.0	18
Fluoranthene	07/14/11	N.D.	ug/kg	0.67	1.7
Pyrene	07/14/11	N.D.	ug/kg	0.67	1.7
Butylbenzylphthalate	07/14/11	N.D.	ug/kg	6.0	18
Bis(2-Ethylhexyl)phthalate	07/14/11	N.D.	ug/kg	6.0	18
Benzo(a)anthracene	07/14/11	N.D.	ug/kg	0.67	1.7
Chrysene	07/14/11	N.D.	ug/kg	0.33	1.7
Di-n-octylphthalate	07/14/11	N.D.	ug/kg	6.0	18
Benzo(b)fluoranthene	07/14/11	N.D.	ug/kg	0.67	1.7
Benzo(k)fluoranthene	07/14/11	N.D.	ug/kg	0.67	1.7
Benzo(a)pyrene	07/14/11	N.D.	ug/kg	0.67	1.7
Indeno(1,2,3-cd)pyrene	07/14/11	N.D.	ug/kg	0.67	1.7
Dibenz(a,h)anthracene	07/14/11	N.D.	ug/kg	0.67	1.7
Benzo(g,h,i)perylene	07/14/11	N.D.	ug/kg	0.67	1.7

Lancaster Laboratories

Quality Control Summary
Surrogates
GC/MS Semivolatiles
SDG: USF03
Matrix: LIQUID

Fraction: Semivolatiles by GC/MS-SIM

11192WAG026	Nitrobenzene-d5		2-Fluorobiphenyl		Terphenyl-d14	
	Spike Added	1 ug/l	Spike Added	1 ug/l	Spike Added	1 ug/l
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
192WGLCS	109	64 - 147	96	68 - 132	98	53 - 129
192WGLCSD	108	64 - 147	94	68 - 132	100	53 - 129
6339388	105	64 - 147	95	68 - 132	103	53 - 129
SBLKWG192	108	64 - 147	99	68 - 132	107	53 - 129

USF03 0688

Lancaster Laboratories

Quality Control Summary
Surrogates
GC/MS Semivolatiles
SDG: USF03
Matrix: SOLID

Fraction: Semivolatiles by GC/MS-SIM

11194SLD026	Nitrobenzene-d5		2-Fluorobiphenyl		Terphenyl-d14	
	Spike Added	33.333 ug/kg	Spike Added	33.333 ug/kg	Spike Added	33.333 ug/kg
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
194LDLCS	102	53 - 152	89	63 - 129	97	51 - 141
194LDLCSD	100	53 - 152	89	63 - 129	100	51 - 141
6339368	118	53 - 152	99	63 - 129	84	51 - 141
6339370	112	53 - 152	92	63 - 129	86	51 - 141
6339372	110	53 - 152	96	63 - 129	96	51 - 141
6339374	108	53 - 152	91	63 - 129	78	51 - 141
6339375	106	53 - 152	93	63 - 129	93	51 - 141
6339377	106	53 - 152	94	63 - 129	95	51 - 141
6339378 MS	103	53 - 152	93	63 - 129	90	51 - 141
6339379 MSD	108	53 - 152	94	63 - 129	90	51 - 141
6339384	107	53 - 152	95	63 - 129	104	51 - 141
6339386	111	53 - 152	95	63 - 129	64	51 - 141
SBLKLD194	109	53 - 152	100	63 - 129	114	51 - 141

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: LIQUID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS-SIM

LCS: 192WGLCS LCSD: 192WGLCSD	Batch: **11192WAG026** (Sample number(s): 6339388)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
1-Methylnaphthalene	1	.94	.94	94	94	71-117	0	30
Naphthalene	1	.9	.89	90	89	72-109	1	30
2-Methylnaphthalene	1	.88	.88	88	88	75-115	0	30
Acenaphthylene	1	1.02	1.01	102	101	70-110	0	30
Dimethylphthalate	1	1.04	1.07	104	107	40-119	2	30
Acenaphthene	1	.98	.97	98	97	74-109	0	30
Diethylphthalate	1	1.09	1.11	109	111	57-134	2	30
Fluorene	1	1.04	1.03	104	103	75-114	0	30
Phenanthrene	1	.96	.98	96	98	76-111	3	30
Anthracene	1	.99	1.02	99	102	66-111	3	30
Di-n-butylphthalate	1	1.09	1.13	109	113	74-131	3	30
Fluoranthene	1	1	1.04	100	104	75-116	4	30
Pyrene	1	.99	1.02	99	102	69-118	3	30
Butylbenzylphthalate	1	1.07	1.1	107	110	40-138	4	30
Bis(2-Ethylhexyl)phthalate	1	1.11	1.15	111	115	57-154	3	30
Benzo(a)anthracene	1	1.03	1.07	103	107	72-114	4	30
Chrysene	1	.97	.99	97	99	76-116	2	30
Di-n-octylphthalate	1	1.1	1.13	110	113	57-145	3	30
Benzo(b)fluoranthene	1	1.13	1.17	113	117	69-123	3	30
Benzo(k)fluoranthene	1	.93	.96	93	96	59-130	3	30
Benzo(a)pyrene	1	.98	1.01	98	101	60-127	3	30
Indeno(1,2,3-cd)pyrene	1	.96	1	96	100	69-124	4	30
Dibenz(a,h)anthracene	1	.96	1	96	100	55-134	4	30
Benzo(g,h,i)perylene	1	.95	.98	95	98	57-131	3	30

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: SOLID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS-SIM

LCS: 194LDLCS LCSD: 194LDLCSD	Batch: **11194SLD026** (Sample number(s): 6339368, 6339370, 6339372, 6339374-6339375, 6339377-6339379, 6339384, 6339386)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Naphthalene	33.33	26.59	26.34	80	79	67-120	1	30
2-Methylnaphthalene	33.33	27.51	27.4	83	82	62-120	0	30
1-Methylnaphthalene	33.33	26.95	26.81	81	80	72-120	1	30
Dimethylphthalate	33.33	33.66	33.83	101	101	79-121	1	40
Acenaphthylene	33.33	30.47	30.01	91	90	60-120	1	30
Acenaphthene	33.33	30.24	30	91	90	63-120	1	30
Diethylphthalate	33.33	34.49	34.98	103	105	68-125	1	40
Fluorene	33.33	32.58	32.83	98	98	71-120	1	30
Phenanthrene	33.33	31	31.62	93	95	75-120	2	30
Anthracene	33.33	31.78	32.76	95	98	55-120	3	30
Di-n-butylphthalate	33.33	35.35	35.86	106	108	75-137	1	40
Fluoranthene	33.33	33.51	34.7	101	104	64-120	3	30
Pyrene	33.33	33.38	34.22	100	103	56-121	2	30
Butylbenzylphthalate	33.33	35.25	35.62	106	107	65-131	1	40
Bis(2-Ethylhexyl)phthalate	33.33	37.22	37.61	112	113	67-143	1	40
Benzo(a)anthracene	33.33	34.94	35.73	105	107	74-120	2	30
Chrysene	33.33	32.55	33.38	98	100	73-114	3	30
Di-n-octylphthalate	33.33	35.9	36.08	108	108	55-176	0	40
Benzo(b)fluoranthene	33.33	37.25	37.65	112	113	63-143	1	30
Benzo(k)fluoranthene	33.33	32.77	32.62	98	98	54-142	0	30
Benzo(a)pyrene	33.33	33.24	33.76	100	101	58-129	2	30
Indeno(1,2,3-cd)pyrene	33.33	34.51	34.56	104	104	56-134	0	30
Dibenz(a,h)anthracene	33.33	34.37	34.63	103	104	53-138	1	30
Benzo(g,h,i)perylene	33.33	33.53	33.6	101	101	44-138	0	30

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: cg0310.d DFTPP Injection Date: 07/11/11

Instrument ID: HP10623 DFTPP Injection Time: 19:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	52.9
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.04
275	10.0 - 30.0% of mass 198	23.3
365	Greater than 1.00% of mass 198	2.04
441	Present, and less than mass 443	7.25
442	Greater than 40.0 % of mass 198	46.9
443	17.0 - 23.0% of mass 442	9.57 (20.4)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LPAH1921 - SSTD1	cg0311.d	07/11/11	20:09
02	SSTD10	cg0312.d	07/11/11	20:40
03	LPAH1921 - SSTD5	cg0313.d	07/11/11	21:11
04	LPAH1921 - SSTD.5	cg0314.d	07/11/11	21:42
05	LPAH1921 - SSTD.2	cg0315.d	07/11/11	22:14
06	SSTD.05	cg0316.d	07/11/11	22:45
07	LPAHMDL1921 - SSTD0.02	cg0317.d	07/11/11	23:16
08	LPAHICV1381 - SSTD001	cg0318.d	07/11/11	23:47
09	SBLKWC186	cg0320.d	07/12/11	00:51
10	186WCLCS	cg0321.d	07/12/11	01:22
11	186WCLCSD	cg0322.d	07/12/11	01:53
12	SBLKWB190	cg0323.d	07/12/11	02:25
13	190WBLCS	cg0324.d	07/12/11	02:57
14	190WBLCSD	cg0325.d	07/12/11	03:28
15	6328087RE	cg0326.d	07/12/11	04:00
16	6333726	cg0327.d	07/12/11	04:31
17	6333736	cg0328.d	07/12/11	05:03
18	6333737	cg0329.d	07/12/11	05:34

FORM V SV

USF03 8684

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: cg0310.d DFTPP Injection Date: 07/11/11

Instrument ID: HP10623 DFTPP Injection Time: 19:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	52.9
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.04
275	10.0 - 30.0% of mass 198	23.3
365	Greater than 1.00% of mass 198	2.04
441	Present, and less than mass 443	7.25
442	Greater than 40.0 % of mass 198	46.9
443	17.0 - 23.0% of mass 442	9.57 (20.4)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6333738	cg0330.d	07/12/11	06:06
20	6333739	cg0331.d	07/12/11	06:38
21	6334314	cg0332.d	07/12/11	07:10
22	6334315	cg0333.d	07/12/11	07:41

USF03 8685

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: cg0430.d DFTPP Injection Date: 07/14/11

Instrument ID: HP10623 DFTPP Injection Time: 07:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.6
68	Less than 2.0% of mass 69	0.59 (1.27)1
69	Mass 69 relative abundance	46.9
70	Less than 2.0% of mass 69	0.24 (0.52)1
127	40.0 - 60.0% of mass 198	51.4
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.65
275	10.0 - 30.0% of mass 198	22.4
365	Greater than 1.00% of mass 198	2.11
441	Present, and less than mass 443	6.36
442	Greater than 40.0 % of mass 198	42.5
443	17.0 - 23.0% of mass 442	8.37 (19.7)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LPAH1921 - SSTD5	cg0431.d	07/14/11	07:27
02	SBLKWG192	cg0433.d	07/14/11	08:29
03	192WGLCS	cg0434.d	07/14/11	09:01
04	192WGLCSD	cg0435.d	07/14/11	09:32
05	6337222	cg0436.d	07/14/11	10:04
06	6338269	cg0437.d	07/14/11	10:36
07	6339388	cg0438.d	07/14/11	11:08
08	6333894DL	cg0439.d	07/14/11	11:40
09	6333895DL	cg0440.d	07/14/11	12:12
10	6334677	cg0441.d	07/14/11	12:44
11	6335833	cg0442.d	07/14/11	13:15

USF83 8686

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: cg0450.d DFTPP Injection Date: 07/14/11

Instrument ID: HP10623 DFTPP Injection Time: 16:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.7
68	Less than 2.0% of mass 69	0.64 (1.27)1
69	Mass 69 relative abundance	50.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	53.8
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.82
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1.00% of mass 198	1.98
441	Present, and less than mass 443	6.56
442	Greater than 40.0 % of mass 198	41.2
443	17.0 - 23.0% of mass 442	7.94 (19.3)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LPAH1921 - SSTD1	cg0451.d	07/14/11	17:16
02	SBLKLD194	cg0453.d	07/14/11	18:19
03	194LDLCS	cg0454.d	07/14/11	18:51
04	194LDLCSD	cg0455.d	07/14/11	19:23
05	6339384	cg0457.d	07/14/11	20:27
06	6339377	cg0458.d	07/14/11	20:59
07	6339378MS	cg0459.d	07/14/11	21:31
08	6339379MSD	cg0460.d	07/14/11	22:02
09	6337203	cg0461.d	07/14/11	22:34
10	6337205	cg0462.d	07/14/11	23:05
11	6337207	cg0463.d	07/14/11	23:37
12	6337209	cg0464.d	07/15/11	00:08
13	6337212	cg0465.d	07/15/11	00:39
14	6338249	cg0466.d	07/15/11	01:10
15	6338250	cg0467.d	07/15/11	01:41
16	6338252	cg0468.d	07/15/11	02:13
17	6338261	cg0469.d	07/15/11	02:44
18	6338263	cg0470.d	07/15/11	03:14

FORM V SV

USF03 0607

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: cg0450.d DFTPP Injection Date: 07/14/11

Instrument ID: HP10623 DFTPP Injection Time: 16:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.7
68	Less than 2.0% of mass 69	0.64 (1.27)1
69	Mass 69 relative abundance	50.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	53.8
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.82
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1.00% of mass 198	1.98
441	Present, and less than mass 443	6.56
442	Greater than 40.0 % of mass 198	41.2
443	17.0 - 23.0% of mass 442	7.94 (19.3)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6338264	cg0471.d	07/15/11	03:45
20	6339368	cg0472.d	07/15/11	04:17
21	6339370	cg0473.d	07/15/11	04:48

USF03 8688

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: cg0480z.d DFTPP Injection Date: 07/15/11

Instrument ID: HP10623 DFTPP Injection Time: 06:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.0
70	Less than 2.0% of mass 69	0.13 (0.27)1
127	40.0 - 60.0% of mass 198	51.0
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.89
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 1.00% of mass 198	2.03
441	Present, and less than mass 443	6.87
442	Greater than 40.0 % of mass 198	41.8
443	17.0 - 23.0% of mass 442	8.56 (20.5)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LPAH1921 - SSTD5	cg0481.d	07/15/11	06:52
02	SBLKWC195	cg0483.d	07/15/11	07:55
03	195WCLCS	cg0484.d	07/15/11	08:26
04	195WCLCSD	cg0485.d	07/15/11	08:58
05	6339372	cg0486.d	07/15/11	09:30
06	6339374	cg0487.d	07/15/11	10:01
07	6339375	cg0488.d	07/15/11	10:33
08	6339386	cg0489.d	07/15/11	11:05
09	6342570	cg0490.d	07/15/11	11:36
10	6342573	cg0491.d	07/15/11	12:08

USF03 8689

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date(s): 07/11/11 07/11/11

Calibration Times: 20:09 22:45

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF0.05 = cg0316.d RRF0.2 = cg0315.d RRF0.5 = cg0314.d
RRF1 = cg0311.d RRF5 = cg0313.d RRF10 = cg0312.d

	COMPOUND	RRF0.05	RRF0.2	RRF0.5	RRF1	RRF5	RRF10	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
	1,4-Dioxane	0.498	0.529	0.513	0.508	0.494	0.510		0.509	2	AVG	
	N-Nitrosodimethylamine	0.581	0.695	0.706	0.723	0.746	0.777		0.705	10	AVG	
	Naphthalene	1.029	1.144	1.071	1.045	1.051	1.105		1.074	4	AVG	
	2-Methylnaphthalene	0.592	0.695	0.675	0.677	0.693	0.732		0.677	7	AVG	
	1-Methylnaphthalene	0.615	0.697	0.637	0.638	0.639	0.675		0.650	5	AVG	
	Acenaphthylene	1.261	1.506	1.571	1.649	1.826	1.944		1.626	15	AVG	✓
	Dimethylphthalate	1.009	1.195	1.210	1.210	1.294	1.362		1.213	10	AVG	
*	Acenaphthene	1.110	1.179	1.130	1.112	1.133	1.179		1.141	3	AVG	*
	Diethylphthalate	1.052	1.196	1.220	1.254	1.348	1.442		1.252	11	AVG	
	Fluorene	1.066	1.237	1.225	1.232	1.287	1.362		1.235	8	AVG	
	1,2-Diphenylhydrazine		0.706	0.767	0.846	0.944	1.021		0.857	15	AVG	✓
*	N-Nitrosodiphenylamine (1)	0.430	0.501	0.499	0.491	0.472	0.440		0.472	6	AVG	*
	NDPA as diphenylamine	0.430	0.501	0.499	0.491	0.472	0.440		0.472	6	AVG	
	Hexachlorobenzene	0.189	0.204	0.196	0.197	0.199	0.210		0.199	4	AVG	
	Phenanthrene	1.106	1.212	1.157	1.149	1.178	1.249		1.175	4	AVG	
	Anthracene	0.889	1.072	1.086	1.117	1.203	1.268		1.106	12	AVG	
	Di-n-butylphthalate		0.928	1.026	1.157	1.341	1.460		1.182	19	1STDEG	
*	Fluoranthene	0.955	1.141	1.141	1.177	1.253	1.348		1.169	11	AVG	*
	Pyrene	1.342	1.586	1.561	1.583	1.631	1.692		1.566	8	AVG	
	Butylbenzylphthalate		0.483	0.540	0.627	0.714	0.733		0.619	17	1STDEG	
	bis(2-Ethylhexyl)phthalate		0.735	0.815	0.932	1.035	1.087		0.921	16	1STDEG	
	Benzo(a)anthracene	1.028	1.196	1.205	1.257	1.332	1.406		1.237	10	AVG	
	Chrysene	1.320	1.418	1.344	1.322	1.343	1.394		1.357	3	AVG	
*	Di-n-octylphthalate		1.326	1.510	1.782	2.019	2.161		1.759	20	1STDEG	*+
	Benzo(b)fluoranthene	1.041	1.270	1.294	1.367	1.318	1.524		1.302	12	AVG	
	Benzo(k)fluoranthene	1.303	1.467	1.369	1.315	1.469	1.450		1.395	5	AVG	
	Benzo(e)pyrene	1.151	1.336	1.280	1.285	1.326	1.401		1.296	6	AVG	
*	Benzo(a)pyrene	1.012	1.212	1.202	1.218	1.300	1.408		1.225	11	AVG	*
	Perylene	1.342	1.379	1.293	1.253	1.315	1.409		1.332	4	AVG	
	Indeno(1,2,3-cd)pyrene	1.097	1.308	1.282	1.295	1.365	1.486		1.305	10	AVG	
	Dibenz(a,h)anthracene	0.895	1.042	1.011	1.022	1.083	1.198		1.042	10	AVG	
	Benzo(g,h,i)perylene	1.036	1.175	1.127	1.137	1.162	1.238		1.146	6	AVG	
	Nitrobenzene-d5	0.276	0.340	0.347	0.365	0.392	0.418		0.356	14	AVG	
	2-Fluorobiphenyl	1.135	1.255	1.224	1.208	1.229	1.278		1.222	4	AVG	
	Terphenyl-d14	0.619	0.712	0.692	0.696	0.719	0.735		0.695	6	AVG	
									Average %RSD	9		

✓-Rounds to 15

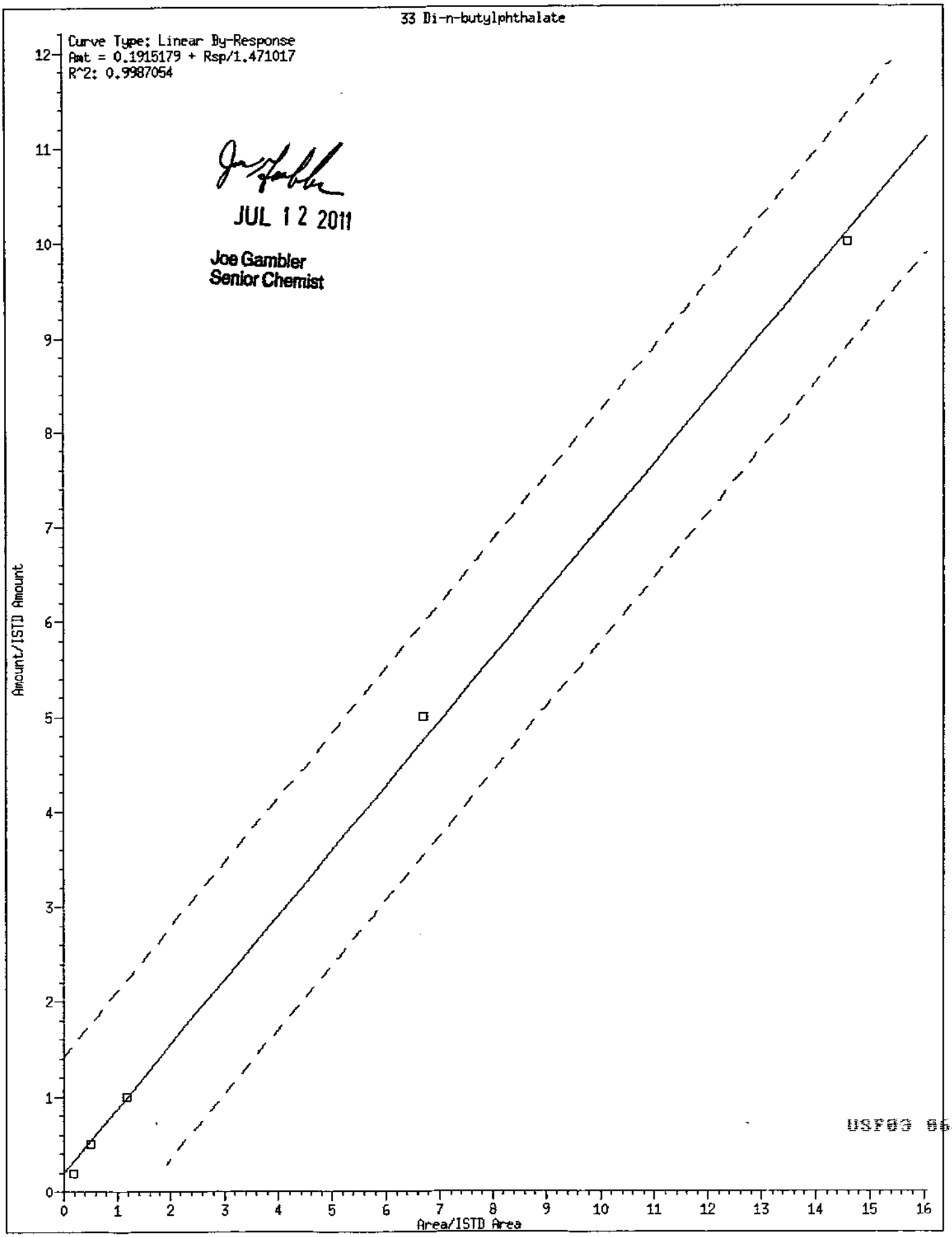
JUL 12 2011

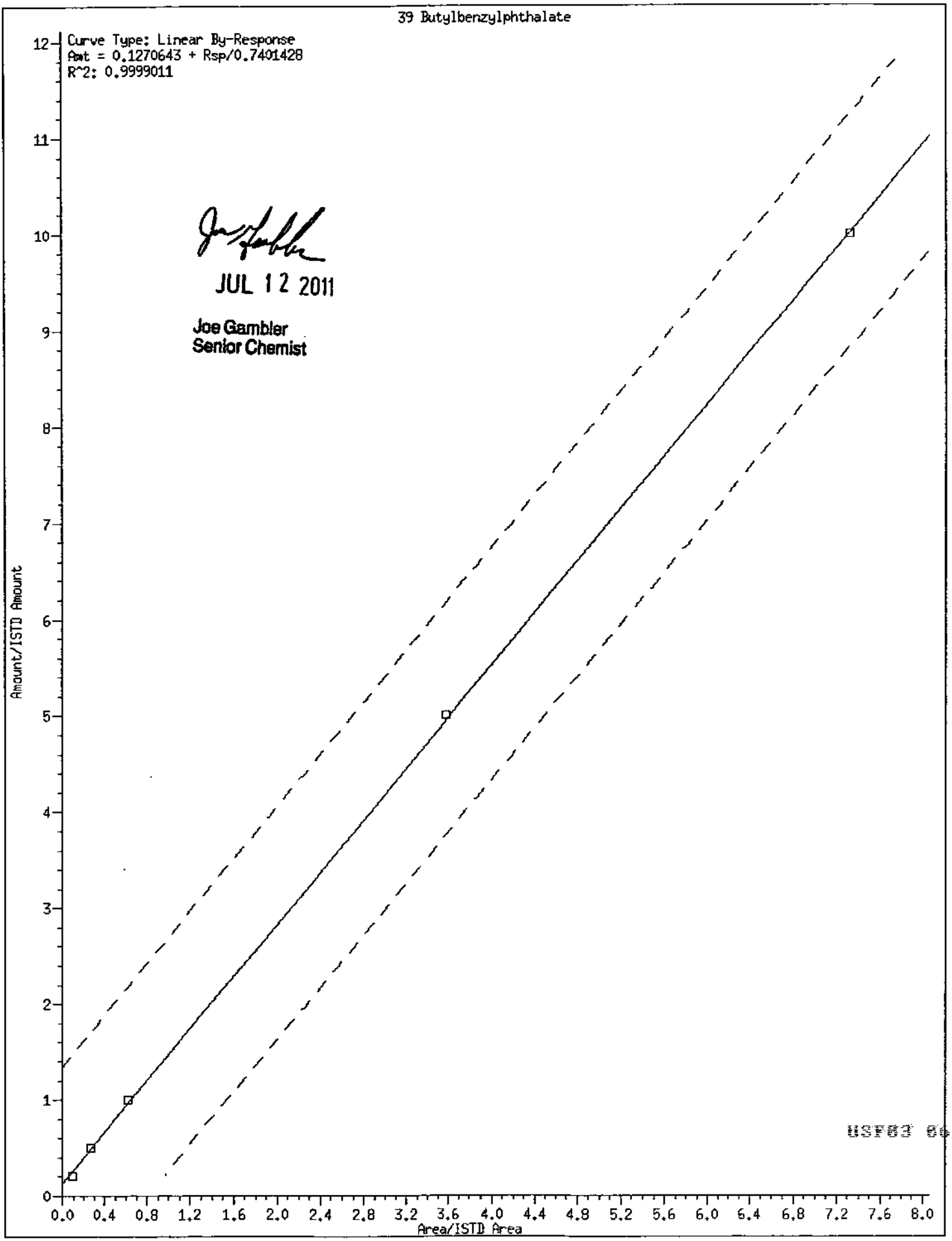
Joe Gambler
Senior Chemist

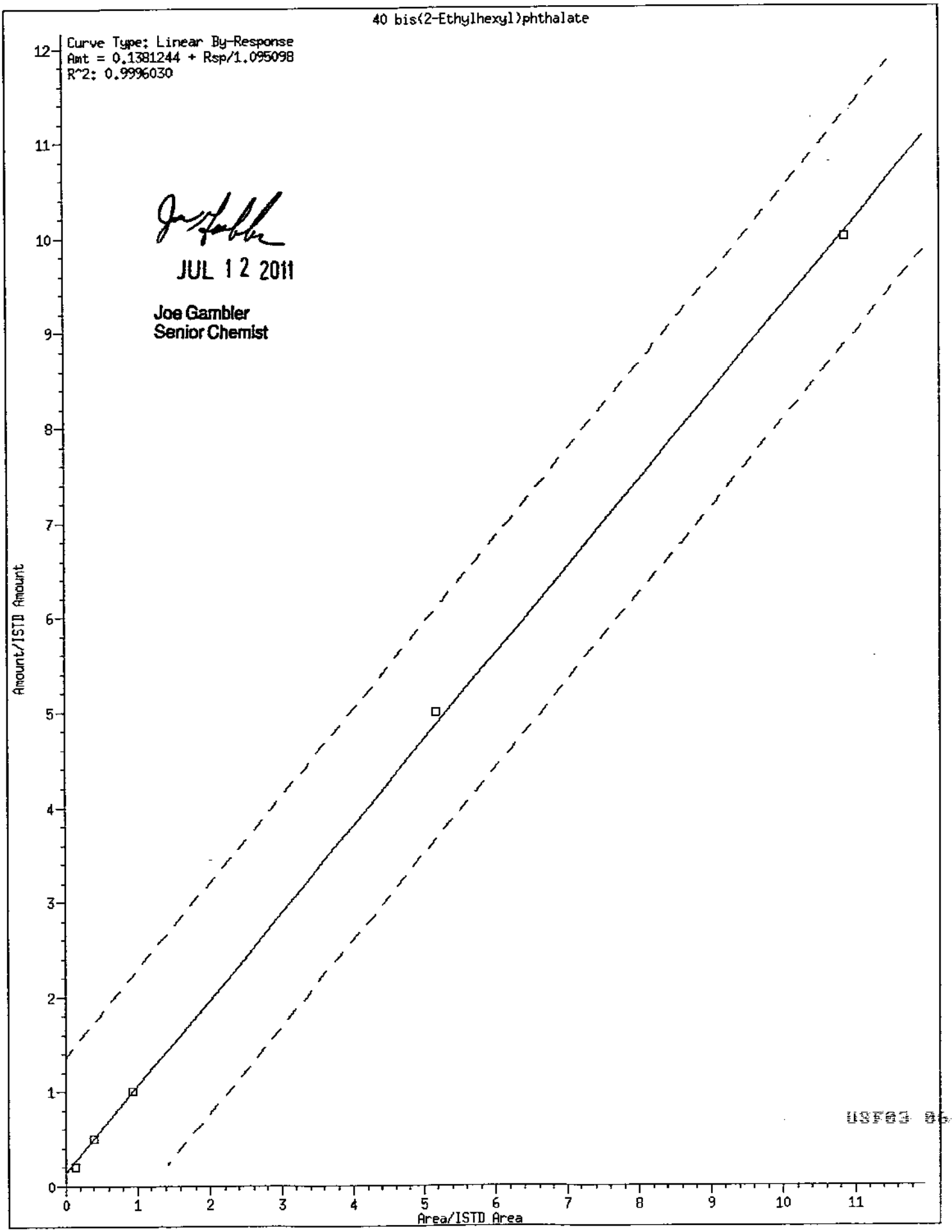
+ %RSD is less than or equal to 20%; however, value rounds to 20.
(1) Cannot be separated from Diphenylamine
4,6-Dinitro-2-methylphenol and 4-Nitrophenol are at 10 ng/ul in the 5 standard.
Benzidine Levels in the 5,15,30,50,80,120 standards are 15,45,90,150,240,360 ng/ul, respectively.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul, 30 ng/ul,40 ng/ul in the 5,15,30 standards.

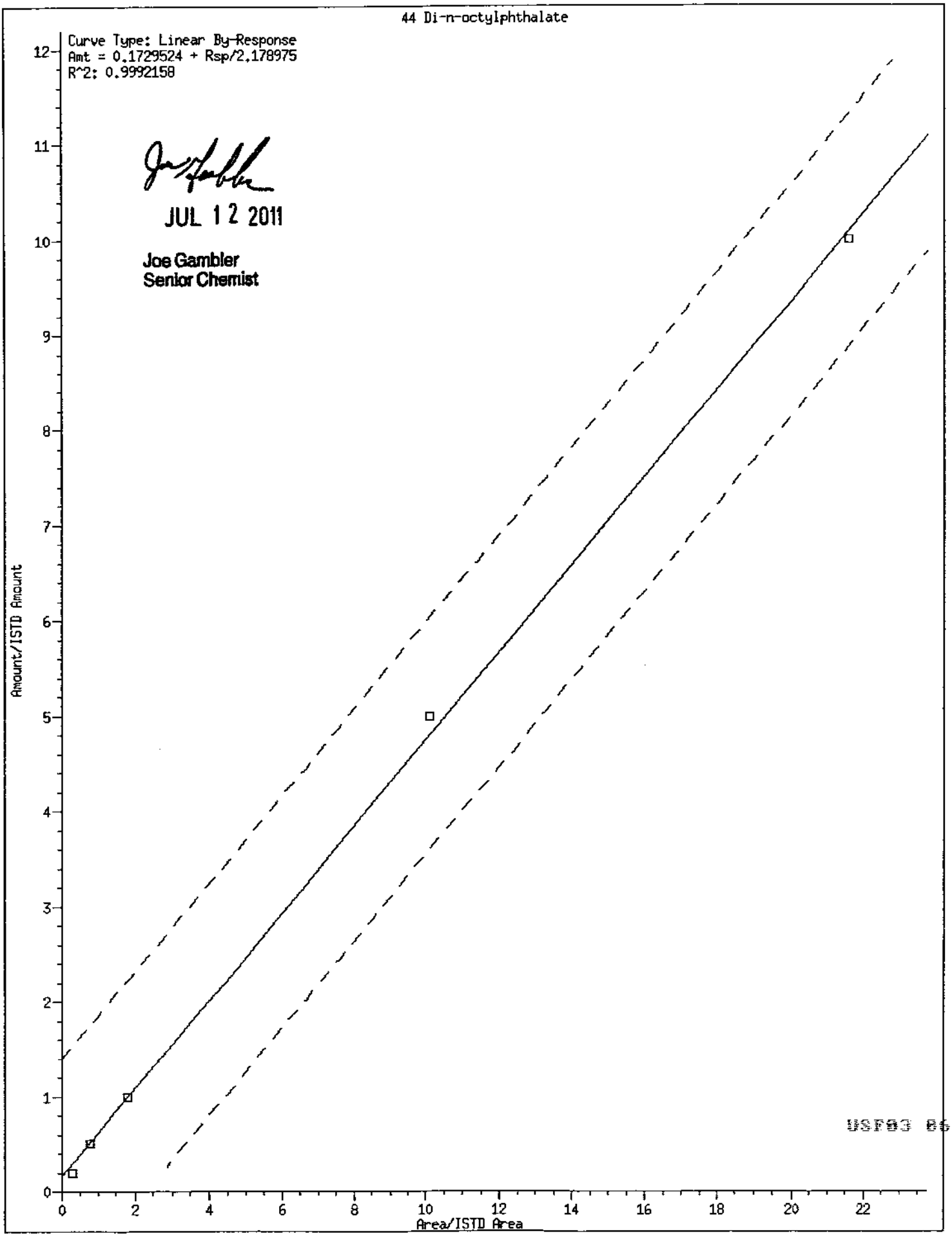
USPB3 0610

FORM VI SV-1


33 Di-n-butylphthalate
Curve Type: Linear By-Response
Amt = 0.1915179 + Rsp/1.471017
R^2: 0.9987054
JUL 12 2011
Joe Gambler
Senior Chemist
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16


39 Butylbenzylphthalate
Curve Type: Linear By-Response
Amt = 0.1270643 + Rsp/0.7401428
R^2: 0.9999011
JUL 12 2011
Joe Gambler
Senior Chemist
Amount/ISTD Amount
Area/ISTD Area
0 1 2 3 4 5 6 7 8 9 10 11 12
0.0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2 3.6 4.0 4.4 4.8 5.2 5.6 6.0 6.4 6.8 7.2 7.6 8.0


40 bis(2-Ethylhexyl)phthalate
Curve Type: Linear By-Response
Amt = 0.1381244 + Rsp/1.095098
R^2: 0.9996030
JUL 12 2011
Joe Gambler
Senior Chemist
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12


44 Di-n-octylphthalate
Curve Type: Linear By-Response
Amt = 0.1729524 + Rsp/2.178975
R^2: 0.9992158
JUL 12 2011
Joe Gambler
Senior Chemist
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
0
2
4
6
8
10
12
14
16
18
20
22

USF03 0614

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP10623.i/11jul11a.b/cg0311.d SSTD001
/chem/HP10623.i/11jul11a.b/cg0312.d SSTD010
/chem/HP10623.i/11jul11a.b/cg0313.d SSTD005
/chem/HP10623.i/11jul11a.b/cg0314.d SSTD0.50
/chem/HP10623.i/11jul11a.b/cg0315.d SSTD0.20
/chem/HP10623.i/11jul11a.b/cg0316.d SSTD0.05

Area Summary

File ID:

Internal Standard Name	cg0311.d	cg0312.d	cg0313.d	cg0314.d	cg0315.d	cg0316.d	Avg. Area	%RSD	In Spec
1,4-Dichlorobenzene-d4	151620	157370	157207	143845	145208	142917	149694	4	Yes
Naphthalene-d8	605325	619795	622550	572013	570589	569439	593285	4	Yes
Acenaphthene-d10	330801	339142	340022	312182	314397	308776	324220	4	Yes
Phenanthrene-d10	512734	543986	540684	489364	486611	477626	508501	6	Yes
Chrysene-d12	402732	463509	435421	377246	371311	356729	401158	10	Yes
Perylene-d12	337563	389350	369030	314177	307684	300963	336461	11	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:

Internal Standard Name	cg0311.d	cg0312.d	cg0313.d	cg0314.d	cg0315.d	cg0316.d	Avg. RT
1,4-Dichlorobenzene-d4	6.601	6.601	6.601	6.601	6.601	6.601	6.601
Naphthalene-d8	8.106	8.106	8.106	8.106	8.106	8.106	8.106
Acenaphthene-d10	10.257	10.257	10.257	10.257	10.257	10.257	10.257
Phenanthrene-d10	12.097	12.097	12.097	12.097	12.097	12.097	12.097
Chrysene-d12	15.372	15.372	15.372	15.372	15.372	15.372	15.372
Perylene-d12	17.186	17.194	17.187	17.186	17.187	17.187	17.188

Comments: _____

Report generated on 07/12/2011 at 08:58

JUL 12 2011

Joe Gambler
Senior Chemist

USPCO 0615

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP10623

Method: SW-846 8270C (SIM) File ID: cg0318.d

ICV SAMPLE ID: LPAHICV1381 BATCH: 11JUL11A026 Sample Name: SSTD001

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
1,4-Dioxane	1.00	.99	-1	30	YES
N-Nitrosodimethylamine	1.00	1.05	5	30	YES
Naphthalene	1.00	1.00	0	30	YES
2-Methylnaphthalene	1.00	.98	-2	30	YES
1-Methylnaphthalene	1.00	1.05	5	30	YES
Acenaphthylene	1.00	1.03	3	30	YES
Dimethylphthalate	1.00	1.12	12	30	YES
Acenaphthene	1.00	.98	-2	30	YES
Diethylphthalate	1.00	1.13	13	30	YES
Fluorene	1.00	1.06	6	30	YES
1,2-Diphenylhydrazine	1.00	1.09	9	30	YES
N-Nitrosodiphenylamine	1.00	1.41	41	30	NO
NDPA as diphenylamine	1.00	1.41	41	30	NO
Hexachlorobenzene	1.00	1.01	1	30	YES
Phenanthrene	1.00	1.00	0	30	YES
Anthracene	1.00	1.04	4	30	YES
Di-n-butylphthalate	1.00	1.07	7	30	YES
Fluoranthene	1.00	1.03	3	30	YES
Pyrene	1.00	.97	-3	30	YES
Butylbenzylphthalate	1.00	1.02	2	30	YES
bis(2-Ethylhexyl)phthalate	1.00	1.00	0	30	YES
Benzo(a)anthracene	1.00	.98	-2	30	YES
Chrysene	1.00	.91	-9	30	YES
Di-n-octylphthalate	1.00	.93	-7	30	YES
Benzo(b)fluoranthene	1.00	1.00	0	30	YES
Benzo(k)fluoranthene	1.00	.93	-7	30	YES
Benzo(a)pyrene	1.00	.93	-7	30	YES
Indeno(1,2,3-cd)pyrene	1.00	.91	-9	30	YES
Dibenz(a,h)anthracene	1.00	.91	-9	30	YES
Benzo(g,h,i)perylene	1.00	.90	-10	30	YES

NC = Could not calculate

Comments: √= compounds not in scan, okay to report
GJB MA 7/14/11

JUL 12 2011

Joe Gambler
Senior Chemist

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 07/14/11 Time: 07:27

Lab File ID: cg0431.d Init. Calib. Date(s): 07/11/11 07/11/11

Init. Calib. Times(s): 20:09 22:45

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF5	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.509	0.522	5.130	5.0	3
	N-Nitrosodimethylamine	0.705	0.786	5.580	5.0	12
	Naphthalene	1.074	1.046	4.870	5.0	-3
	2-Methylnaphthalene	0.677	0.694	5.130	5.0	3
	1-Methylnaphthalene	0.650	0.633	4.870	5.0	-3
	Acenaphthylene	1.626	1.864	5.730	5.0	15
	Dimethylphthalate	1.213	1.321	5.440	5.0	9
*	Acenaphthene	1.141	1.153	5.060	5.0	1*
	Diethylphthalate	1.252	1.329	5.310	5.0	6
	Fluorene	1.235	1.309	5.300	5.0	6
	1,2-Diphenylhydrazine	0.857	0.991	5.780	5.0	16
*	N-Nitrosodiphenylamine (1)	0.472	0.482	5.100	5.0	2*
	NDPA as diphenylamine	0.472	0.482	5.100	5.0	2
	Hexachlorobenzene	0.199	0.193	4.830	5.0	-3
	Phenanthrene	1.175	1.182	5.030	5.0	1
	Anthracene	1.106	1.189	5.370	5.0	7
	Di-n-butylphthalate	1.182	1.374	4.860	5.0	-3
*	Fluoranthene	1.169	1.237	5.290	5.0	6*
	Pyrene	1.566	1.583	5.060	5.0	1
	Butylbenzylphthalate	0.619	0.708	4.910	5.0	-2
	bis(2-Ethylhexyl)phthalate	0.921	1.089	5.110	5.0	2
	Benzo(a)anthracene	1.237	1.307	5.280	5.0	6
	Chrysene	1.357	1.304	4.800	5.0	-4
*	Di-n-octylphthalate	1.759	2.097	4.980	5.0	0*
	Benzo(b)fluoranthene	1.302	1.327	5.090	5.0	2
	Benzo(k)fluoranthene	1.395	1.424	5.100	5.0	2
	Benzo(e)pyrene	1.296	1.317	5.080	5.0	2
*	Benzo(a)pyrene	1.225	1.284	5.240	5.0	5*
	Perylene	1.332	1.298	4.870	5.0	-3
	Indeno(1,2,3-cd)pyrene	1.305	1.339	5.130	5.0	3
	Dibenz(a,h)anthracene	1.042	1.062	5.100	5.0	2
	Benzo(g,h,i)perylene	1.146	1.133	4.940	5.0	-1
	Nitrobenzene-d5	0.356	0.400	5.610	5.0	12
	2-Fluorobiphenyl	1.222	1.240	5.080	5.0	2
	Terphenyl-d14	0.695	0.696	5.010	5.0	0

(1) Cannot be Separated from Diphenylamine

USPS 8617

JUL 14 2011

Joe Gambler
Senior Chemist

Continuing Calibration
Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP10623.i/11jul11a.b/cg0311.d **
/chem/HP10623.i/11jul11a.b/cg0312.d
/chem/HP10623.i/11jul11a.b/cg0313.d
/chem/HP10623.i/11jul11a.b/cg0314.d
/chem/HP10623.i/11jul11a.b/cg0315.d
/chem/HP10623.i/11jul11a.b/cg0316.d

** indicates the Mid Level Calibration Standard.

Mid Level Calibration Standard is used for comparison.

Current Continuing Calibration Standard:

/chem/HP10623.i/11jul14.b/cg0431.d

Area Summary

File ID:

Internal Standard Name	cg0431.d	ICAL Area	Low Limit	High Limit	In Spec
1,4-Dichlorobenzene-d4	157648	151620	75810	303240	Yes
Naphthalene-d8	624195	605325	302662	1210650	Yes
Acenaphthene-d10	330754	330801	165400	661602	Yes
Phenanthrene-d10	522739	512734	256367	1025468	Yes
Chrysene-d12	431798	402732	201366	805464	Yes
Perylene-d12	362197	337563	168782	675126	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

RT Summary

File ID:

Internal Standard Name	cg0431.d	ICAL RT	In Spec
1,4-Dichlorobenzene-d4	6.546	6.601	Yes
Naphthalene-d8	8.051	8.106	Yes
Acenaphthene-d10	10.200	10.257	Yes
Phenanthrene-d10	12.033	12.097	Yes
Chrysene-d12	15.304	15.372	Yes
Perylene-d12	17.079	17.186	Yes

A "No" indicates the retention time is greater than 30 seconds from the RT of the referenced standard.

JUL 14 2011

Joe Gambler
Senior Chemist

Comments: _____

USP03 8618

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Greg Drahavsky
Senior Chemist

JUL 14 2011

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 07/14/11 Time: 17:16

Lab File ID: cg0451.d Init. Calib. Date(s): 07/11/11 07/11/11

Init. Calib. Times(s): 20:09 22:45

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF1	ACTUAL CONC.	TRUE CONC.	% DRIFT
1,4-Dioxane	0.509	0.572	1.130	1.0	13
N-Nitrosodimethylamine	0.705	0.821	1.160	1.0	16
Naphthalene	1.074	1.033	0.960	1.0	-4
2-Methylnaphthalene	0.677	0.677	1.000	1.0	0
1-Methylnaphthalene	0.650	0.628	0.970	1.0	-3
Acenaphthylene	1.626	1.620	1.000	1.0	0
Dimethylphthalate	1.213	1.223	1.010	1.0	1
* Acenaphthene	1.141	1.105	0.970	1.0	-3*
Diethylphthalate	1.252	1.298	1.040	1.0	4
Fluorene	1.235	1.237	1.000	1.0	0
1,2-Diphenylhydrazine	0.857	0.872	1.020	1.0	2
* N-Nitrosodiphenylamine (1)	0.472	0.485	1.030	1.0	3*
NDPA as diphenylamine	0.472	0.485	1.030	1.0	3
Hexachlorobenzene	0.199	0.188	0.940	1.0	-6
Phenanthrene	1.175	1.174	1.000	1.0	0
Anthracene	1.106	1.132	1.020	1.0	2
Di-n-butylphthalate	1.182	1.147	0.970	1.0	-3
* Fluoranthene	1.169	1.172	1.000	1.0	0*
Pyrene	1.566	1.564	1.000	1.0	0
Butylbenzylphthalate	0.619	0.599	0.940	1.0	-6
bis(2-Ethylhexyl)phthalate	0.921	0.924	0.980	1.0	-2
Benzo(a)anthracene	1.237	1.241	1.000	1.0	0
Chrysene	1.357	1.310	0.970	1.0	-3
* Di-n-octylphthalate	1.759	1.757	0.980	1.0	-2*
Benzo(b)fluoranthene	1.302	1.273	0.980	1.0	-2
Benzo(k)fluoranthene	1.395	1.337	0.960	1.0	-4
Benzo(e)pyrene	1.296	1.261	0.970	1.0	-3
* Benzo(a)pyrene	1.225	1.216	0.990	1.0	-1*
Perylene	1.332	1.253	0.940	1.0	-6
Indeno(1,2,3-cd)pyrene	1.305	1.323	1.010	1.0	1
Dibenz(a,h)anthracene	1.042	1.048	1.010	1.0	1
Benzo(g,h,i)perylene	1.146	1.133	0.990	1.0	-1
Nitrobenzene-d5	0.356	0.364	1.020	1.0	2
2-Fluorobiphenyl	1.222	1.210	0.990	1.0	-1
Terphenyl-d14	0.695	0.677	0.970	1.0	-3

(1) Cannot be Separated from Diphenylamine

USF03 8619

FORM VII SV-1

Continuing Calibration
Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP10623.i/11jul11a.b/cg0311.d **
/chem/HP10623.i/11jul11a.b/cg0312.d
/chem/HP10623.i/11jul11a.b/cg0313.d
/chem/HP10623.i/11jul11a.b/cg0314.d
/chem/HP10623.i/11jul11a.b/cg0315.d
/chem/HP10623.i/11jul11a.b/cg0316.d

** indicates the Mid Level Calibration Standard.

Mid Level Calibration Standard is used for comparison.

Current Continuing Calibration Standard:

/chem/HP10623.i/11jul14a.b/cg0451.d

Area Summary

File ID:

Internal Standard Name	cg0451.d	ICAL Area	Low Limit	High Limit	In Spec
1,4-Dichlorobenzene-d4	152402	151620	75810	303240	Yes
Naphthalene-d8	607340	605325	302662	1210650	Yes
Acenaphthene-d10	322323	330801	165400	661602	Yes
Phenanthrene-d10	501455	512734	256367	1025468	Yes
Chrysene-d12	401828	402732	201366	805464	Yes
Perylene-d12	335122	337563	168782	675126	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

RT Summary

File ID:

Internal Standard Name	cg0451.d	ICAL RT	In Spec
1,4-Dichlorobenzene-d4	6.519	6.601	Yes
Naphthalene-d8	8.024	8.106	Yes
Acenaphthene-d10	10.166	10.257	Yes
Phenanthrene-d10	12.005	12.097	Yes
Chrysene-d12	15.273	15.372	Yes
Perylene-d12	17.033	17.186	Yes

A "No" indicates the retention time is greater than 30 seconds from the RT of the referenced standard.

Comments: _____

Greg Drahovsky
Senior Chemist

USF03 0628

JUL 14 2011

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 07/15/11 Time: 06:52

Lab File ID: cg0481.d Init. Calib. Date(s): 07/11/11 07/11/11

Init. Calib. Times(s): 20:09 22:45

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF5	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.509	0.547	5.380	5.0	8
	N-Nitrosodimethylamine	0.705	0.791	5.610	5.0	12
	Naphthalene	1.074	1.044	4.860	5.0	-3
	2-Methylnaphthalene	0.677	0.698	5.150	5.0	3
	1-Methylnaphthalene	0.650	0.635	4.890	5.0	-2
	Acenaphthylene	1.626	1.867	5.740	5.0	15
	Dimethylphthalate	1.213	1.349	5.560	5.0	11
*	Acenaphthene	1.141	1.156	5.070	5.0	1*
	Diethylphthalate	1.252	1.349	5.390	5.0	8
	Fluorene	1.235	1.337	5.410	5.0	8
	1,2-Diphenylhydrazine	0.857	1.001	5.850	5.0	17
*	N-Nitrosodiphenylamine (1)	0.472	0.477	5.050	5.0	1*
	NDPA as diphenylamine	0.472	0.477	5.050	5.0	1
	Hexachlorobenzene	0.199	0.194	4.860	5.0	-3
	Phenanthrene	1.175	1.188	5.050	5.0	1
	Anthracene	1.106	1.201	5.430	5.0	9
	Di-n-butylphthalate	1.182	1.374	4.860	5.0	-3
*	Fluoranthene	1.169	1.257	5.370	5.0	7*
	Pyrene	1.566	1.578	5.040	5.0	1
	Butylbenzylphthalate	0.619	0.724	5.020	5.0	0
	bis(2-Ethylhexyl)phthalate	0.921	1.097	5.150	5.0	3
	Benzo(a)anthracene	1.237	1.311	5.300	5.0	6
	Chrysene	1.357	1.303	4.800	5.0	-4
*	Di-n-octylphthalate	1.759	2.091	4.970	5.0	-1*
	Benzo(b)fluoranthene	1.302	1.226	4.700	5.0	-6
	Benzo(k)fluoranthene	1.395	1.440	5.160	5.0	3
	Benzo(e)pyrene	1.296	1.282	4.940	5.0	-1
*	Benzo(a)pyrene	1.225	1.272	5.190	5.0	4*
	Perylene	1.332	1.289	4.840	5.0	-3
	Indeno(1,2,3-cd)pyrene	1.305	1.344	5.150	5.0	3
	Dibenz(a,h)anthracene	1.042	1.068	5.120	5.0	2
	Benzo(g,h,i)perylene	1.146	1.141	4.980	5.0	0
	Nitrobenzene-d5	0.356	0.413	5.800	5.0	16
	2-Fluorobiphenyl	1.222	1.230	5.040	5.0	1
	Terphenyl-d14	0.695	0.696	5.000	5.0	0

(1) Cannot be Separated from Diphenylamine

JUL 15 2011

Joe Gambler
Senior Chemist

FORM VII SV-1

Continuing Calibration
Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP10623.i/11jul11a.b/cg0311.d **
/chem/HP10623.i/11jul11a.b/cg0312.d
/chem/HP10623.i/11jul11a.b/cg0313.d
/chem/HP10623.i/11jul11a.b/cg0314.d
/chem/HP10623.i/11jul11a.b/cg0315.d
/chem/HP10623.i/11jul11a.b/cg0316.d

** indicates the Mid Level Calibration Standard.

Mid Level Calibration Standard is used for comparison.

Current Continuing Calibration Standard:

/chem/HP10623.i/11jul15.b/cg0481.d

JUL 15 2011

Joe Gambler
Senior Chemist

Area Summary

Internal Standard Name	File ID: cg0481.d	ICAL Area	Low Limit	High Limit	In Spec
1,4-Dichlorobenzene-d4	138091	151620	75810	303240	Yes
Naphthalene-d8	548146	605325	302662	1210650	Yes
Acenaphthene-d10	292229	330801	165400	661602	Yes
Phenanthrene-d10	468228	512734	256367	1025468	Yes
Chrysene-d12	389215	402732	201366	805464	Yes
Perylene-d12	338515	337563	168782	675126	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

RT Summary

Internal Standard Name	File ID: cg0481.d	ICAL RT	In Spec
1,4-Dichlorobenzene-d4	6.537	6.601	Yes
Naphthalene-d8	8.051	8.106	Yes
Acenaphthene-d10	10.200	10.257	Yes
Phenanthrene-d10	12.033	12.097	Yes
Chrysene-d12	15.304	15.372	Yes
Perylene-d12	17.072	17.186	Yes

A "No" indicates the retention time is greater than 30 seconds from the RT of the referenced standard.

Comments: _____

USF03 8622

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): cg0431.d Date Analyzed: 07/14/11

Instrument ID: HP10623 Time Analyzed: 07:27

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	157648	6.546	624195	8.051	330754	10.200
UPPER LIMIT	315296	7.046	1248390	8.551	661508	10.700
LOWER LIMIT	78824	6.046	312098	7.551	165377	9.700
LLI SAMPLE NO.						
01 SBLKWG192	139743	6.537	556888	8.051	293262	10.200
02 192WGLCS	152535	6.546	617513	8.051	326730	10.200
03 192WGLCSD	157355	6.546	633380	8.051	337803	10.200
04 6337222	145213	6.537	577892	8.051	305897	10.200
05 6338269	143365	6.537	575974	8.051	297619	10.200
06 6339388	143681	6.537	575120	8.051	302821	10.200
07 6333894DL	135739	6.546	549291	8.051	319234	10.200
08 6333895DL	149090	6.546	619865	8.051	372089	10.200
09 6334677	145093	6.546	612003	8.051	351552	10.200
10 6335833	142923	6.546	570590	8.051	298501	10.200

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 8623

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): cg0431.d Date Analyzed: 07/14/11

Instrument ID: HP10623 Time Analyzed: 07:27

	IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD		522739		12.033		431798		15.304		362197		17.079	
	UPPER LIMIT		1045478		12.533		863596		15.804		724394		17.579	
	LOWER LIMIT		261370		11.533		215899		14.804		181099		16.579	
	LLI SAMPLE NO.													
01	SBLKWG192		451946		12.033		340162		15.305		286225		17.080	
02	192WGLCS		508221		12.033		400618		15.305		328667		17.080	
03	192WGLCSD		520211		12.033		413262		15.304		339522		17.080	
04	6337222		471331		12.034		352890		15.305		295404		17.080	
05	6338269		468872		12.034		352078		15.305		292950		17.080	
06	6339388		459622		12.033		352157		15.305		291902		17.080	
07	6333894DL		535737		12.033		500081		15.305		445676		17.080	
08	6333895DL		591698		12.034		514942		15.305		455876		17.080	
09	6334677		582387		12.033		476520		15.304		426569		17.080	
10	6335833		460804		12.033		338232		15.304		281426		17.079	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 8624

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): cg0451.d Date Analyzed: 07/14/11

Instrument ID: HP10623 Time Analyzed: 17:16

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	152402	6.519	607340	8.024	322323	10.166
	UPPER LIMIT	304804	7.019	1214680	8.524	644646	10.666
	LOWER LIMIT	76201	6.019	303670	7.524	161162	9.666
	LLI SAMPLE NO.						
01	SBLKLD194	141160	6.518	570111	8.024	301242	10.166
02	194LDLCS	154713	6.518	625290	8.024	332762	10.166
03	194LDLCSD	152540	6.518	614634	8.024	325650	10.166
04	6339384	154412	6.519	614759	8.024	325016	10.166
05	6339377	148593	6.519	598652	8.024	313677	10.166
06	6339378MS	158567	6.518	641716	8.023	336931	10.166
07	6339379MSD	157488	6.518	637451	8.024	338994	10.166
08	6337203	161588	6.518	649935	8.024	347707	10.166
09	6337205	160457	6.518	646101	8.024	348259	10.166
10	6337207	160504	6.519	647840	8.024	346594	10.166
11	6337209	161321	6.518	647282	8.024	345464	10.166
12	6337212	161508	6.519	649629	8.024	347679	10.166
13	6338249	158623	6.519	637444	8.024	343951	10.166
14	6338250	150704	6.519	614239	8.024	328272	10.166
15	6338252	161762	6.518	655352	8.023	346256	10.166
16	6338261	157550	6.518	635721	8.024	344412	10.166
17	6338263	153212	6.518	619035	8.023	328389	10.166

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 8625

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): cg0451.d Date Analyzed: 07/14/11

Instrument ID: HP10623 Time Analyzed: 17:16

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	501455	12.005	401828	15.273	335122	17.033
UPPER LIMIT	1002910	12.505	803656	15.773	670244	17.533
LOWER LIMIT	250728	11.505	200914	14.773	167561	16.533
LLI SAMPLE NO.						
01 SBLKLD194	465256	12.005	355220	15.273	300421	17.033
02 194LDLCS	523377	12.005	410597	15.273	334894	17.033
03 194LDLCSD	508004	12.005	404981	15.273	337386	17.033
04 6339384	508183	12.005	387384	15.266	314437	17.033
05 6339377	490846	12.005	387861	15.273	351620	17.033
06 6339378MS	529670	12.004	427476	15.273	398021	17.033
07 6339379MSD	522030	12.005	431960	15.273	403324	17.033
08 6337203	528198	12.005	455047	15.273	441556	17.041
09 6337205	540078	12.005	474853	15.273	456437	17.041
10 6337207	535211	12.005	472983	15.273	455327	17.041
11 6337209	544115	12.005	474127	15.273	452611	17.041
12 6337212	539473	12.005	466561	15.273	452326	17.041
13 6338249	537859	12.005	455592	15.273	433036	17.041
14 6338250	517989	12.005	472851	15.273	436088	17.041
15 6338252	541156	12.005	462817	15.273	432685	17.040
16 6338261	531922	12.005	461307	15.273	426602	17.041
17 6338263	511711	12.004	439253	15.273	404804	17.040

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 0626

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): cg0451.d Date Analyzed: 07/14/11

Instrument ID: HP10623 Time Analyzed: 17:16

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	152402	6.519	607340	8.024	322323	10.166
UPPER LIMIT	304804	7.019	1214680	8.524	644646	10.666
LOWER LIMIT	76201	6.019	303670	7.524	161162	9.666
LLI SAMPLE NO.						
18 6338264	157524	6.518	634196	8.024	333081	10.166
19 6339368	151521	6.518	623623	8.024	335705	10.166
20 6339370	154174	6.519	619602	8.024	337219	10.178

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 0027

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): cg0451.d Date Analyzed: 07/14/11

Instrument ID: HP10623 Time Analyzed: 17:16

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	501455	12.005	401828	15.273	335122	17.033
UPPER LIMIT	1002910	12.505	803656	15.773	670244	17.533
LOWER LIMIT	250728	11.505	200914	14.773	167561	16.533
LLI SAMPLE NO.						
18 6338264	526432	12.005	442547	15.273	411783	17.041
19 6339368	520171	12.005	537604	15.273	451725	17.049
20 6339370	525971	12.005	493586	15.273	428500	17.049

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 5629

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): cg0481.d Date Analyzed: 07/15/11

Instrument ID: HP10623 Time Analyzed: 06:52

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	138091	6.537	548146	8.051	292229	10.200
	UPPER LIMIT	276182	7.037	1096292	8.551	584458	10.700
	LOWER LIMIT	69046	6.037	274073	7.551	146115	9.700
	LLI SAMPLE NO.						
01	SBLKWC195	134312	6.537	527741	8.051	278779	10.200
02	195WCLCS	144413	6.537	572372	8.051	303601	10.200
03	195WCLCSD	139107	6.537	556649	8.051	299361	10.200
04	6339372	140477	6.537	560408	8.051	299098	10.200
05	6339374	146228	6.537	591181	8.051	318184	10.200
06	6339375	145171	6.536	582109	8.051	307103	10.200
07	6339386	139403	6.537	577838	8.051	316350	10.200
08	6342570	145012	6.546	585091	8.060	543909	10.212
09	6342573	139587	6.537	556626	8.051	301171	10.200

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 8629

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): cg0481.d Date Analyzed: 07/15/11

Instrument ID: HP10623 Time Analyzed: 06:52

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	468228	12.033	389215	15.304	338515	17.072
UPPER LIMIT	936456	12.533	778430	15.804	677030	17.572
LOWER LIMIT	234114	11.533	194608	14.804	169258	16.572
LLI SAMPLE NO.						
01 SBLKWC195	440747	12.033	333353	15.304	288644	17.072
02 195WCLCS	483185	12.033	383712	15.304	328948	17.072
03 195WCLCSD	465791	12.033	369291	15.304	314642	17.072
04 6339372	463984	12.034	382132	15.305	370998	17.072
05 6339374	495990	12.034	476077	15.305	437212	17.072
06 6339375	478791	12.033	393021	15.304	386112	17.072
07 6339386	476451	12.033	703426	15.312	485227	17.088
08 6342570	669530	12.053	553719	15.320	526091	17.088
09 6342573	464249	12.034	382461	15.305	369453	17.072

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

USF03 9638

Sample Data

US703 0631

Lancaster Laboratories

LOQ/MDL Summary
GC/MS Semivolatiles

SDG: USF03

Fraction: Semivolatiles by GC/MS-SIM

10138: Selected SVOAs in soil by SIM Analyte Name	Default MDL	Default LOQ	Units
Naphthalene	0.67	1.7	ug/kg
2-Methylnaphthalene	0.67	1.7	ug/kg
1-Methylnaphthalene	0.67	1.7	ug/kg
Dimethylphthalate	6.0	18	ug/kg
Acenaphthylene	0.33	1.7	ug/kg
Acenaphthene	0.67	1.7	ug/kg
Diethylphthalate	6.0	18	ug/kg
Fluorene	0.67	1.7	ug/kg
Phenanthrene	0.67	1.7	ug/kg
Anthracene	0.33	1.7	ug/kg
Di-n-butylphthalate	6.0	18	ug/kg
Fluoranthene	0.67	1.7	ug/kg
Pyrene	0.67	1.7	ug/kg
Butylbenzylphthalate	6.0	18	ug/kg
Bis(2-Ethylhexyl)phthalate	6.0	18	ug/kg
Benzo(a)anthracene	0.67	1.7	ug/kg
Chrysene	0.33	1.7	ug/kg
Di-n-octylphthalate	6.0	18	ug/kg
Benzo(b)fluoranthene	0.67	1.7	ug/kg
Benzo(k)fluoranthene	0.67	1.7	ug/kg
Benzo(a)pyrene	0.67	1.7	ug/kg
Indeno(1,2,3-cd)pyrene	0.67	1.7	ug/kg
Dibenz(a,h)anthracene	0.67	1.7	ug/kg
Benzo(g,h,i)perylene	0.67	1.7	ug/kg

10137: Selected SVOAs in water by SIM Analyte Name	Default MDL	Default LOQ	Units
1-Methylnaphthalene	0.010	0.050	ug/l
Naphthalene	0.030	0.050	ug/l
2-Methylnaphthalene	0.010	0.050	ug/l
Acenaphthylene	0.010	0.050	ug/l
Dimethylphthalate	0.050	1.0	ug/l
Acenaphthene	0.010	0.050	ug/l
Diethylphthalate	0.050	1.0	ug/l
Fluorene	0.010	0.050	ug/l
Phenanthrene	0.030	0.050	ug/l
Anthracene	0.010	0.050	ug/l
Di-n-butylphthalate	0.050	1.0	ug/l
Fluoranthene	0.010	0.050	ug/l
Pyrene	0.010	0.050	ug/l
Butylbenzylphthalate	0.050	1.0	ug/l
Bis(2-Ethylhexyl)phthalate	0.050	1.0	ug/l
Benzo(a)anthracene	0.010	0.050	ug/l
Chrysene	0.010	0.050	ug/l
Di-n-octylphthalate	0.050	1.0	ug/l
Benzo(b)fluoranthene	0.010	0.050	ug/l
Benzo(k)fluoranthene	0.010	0.050	ug/l

USF03 0632

Lancaster Laboratories

LOQ/MDL Summary
GC/MS Semivolatiles

SDG: USF03

Fraction: Semivolatiles by GC/MS-SIM

10137: Selected SVOAs in water by SIM Analyte Name	Default MDL	Default LOQ	Units
Benzo(a)pyrene	0.010	0.050	ug/l
Indeno(1,2,3-cd)pyrene	0.010	0.050	ug/l
Dibenz(a,h)anthracene	0.010	0.050	ug/l
Benzo(g,h,i)perylene	0.010	0.050	ug/l

USF03 0633

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339368

Data file: /chem/HP10623.i/11jul14a.b/cg0472.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 04:17 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul.

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.518(0.000)	543	152.0	151521(-1)	1.00	
12) Naphthalene-d8	8.024(0.000)	707	136.0	623623(3)	1.00	
19) Acenaphthene-d10	10.166(0.000)	908	164.0	335705(4)	1.00	
30) Phenanthrene-d10	12.005(0.000)	1094	188.0	520171(4)	1.00	
42) Chrysene-d12	15.273(0.000)	1456	240.0	537604(34)	1.00	
49) Perylene-d12	17.049(-0.016)	1683	264.0	451725(35)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.161(0.000)	82	261514	1.177	118%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.338(0.000)	172	406827	0.992	99%		63 - 129
38) Terphenyl-d14	(5)	13.972(0.000)	244	315288	0.843	84%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)			Below MDL, Do not report					0.02
14) 2-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
16) 1-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
18) Acenaphthylene	(3)			Below MDL, Do not report					0.01
20) Dimethylphthalate	(3)			Below MDL, Do not report					0.18
21) Acenaphthene	(3)			Below MDL, Do not report					0.02
22) Diethylphthalate	(3)			Below MDL, Do not report					0.18
23) Fluorene	(3)			Below MDL, Do not report					0.02
31) Phenanthrene	(4)	12.034(0.000)	178	13930	0.023	0.76			0.02
32) Anthracene	(4)			Below MDL, Do not report					0.01
33) Di-n-butylphthalate	(4)	12.715(0.000)	149	34185	0.236	7.85			0.18
35) Fluoranthene	(4)	13.505(0.000)	202	33622	0.055	1.84			0.02
37) Pyrene	(5)	13.787(0.000)	202	29352	0.035	1.16			0.02
39) Butylbenzylphthalate	(5)	14.571(0.000)	149	89209	0.351	11.67			0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.273(0.000)	149	239424	0.545	18.10			0.18
41) Benzo(a)anthracene	(5)	15.265(-0.001)	228	14983	0.023	0.75			0.02
43) Chrysene	(5)	15.305(0.000)	228	24496	0.034	1.12			0.01
44) Di-n-octylphthalate	(6)	16.071(-0.002)	149	15886	0.189	6.28			0.18
45) Benzo(b)fluoranthene	(6)	16.548(0.000)	252	19806	0.034	1.12			0.02
46) Benzo(k)fluoranthene	(6)			Below MDL, Do not report					0.02
48) Benzo(a)pyrene	(6)			Below MDL, Do not report					0.02
51) Indeno(1,2,3-cd)pyrene	(6)			Below MDL, Do not report					0.02
52) Dibenz(a,h)anthracene	(6)			Below MDL, Do not report					0.02
53) Benzo(g,h,i)perylene	(6)			Below MDL, Do not report					0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USTB3 9634

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339368

Data file: /chem/HP10623.i/11jul14a.b/cg0472.d Blank Data file reference:**/chem/HP10623.i/11jul14a.b/cg0453.d**
Injection date and time: 15-JUL-2011 04:17 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: **Slist6454**
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

Comments:

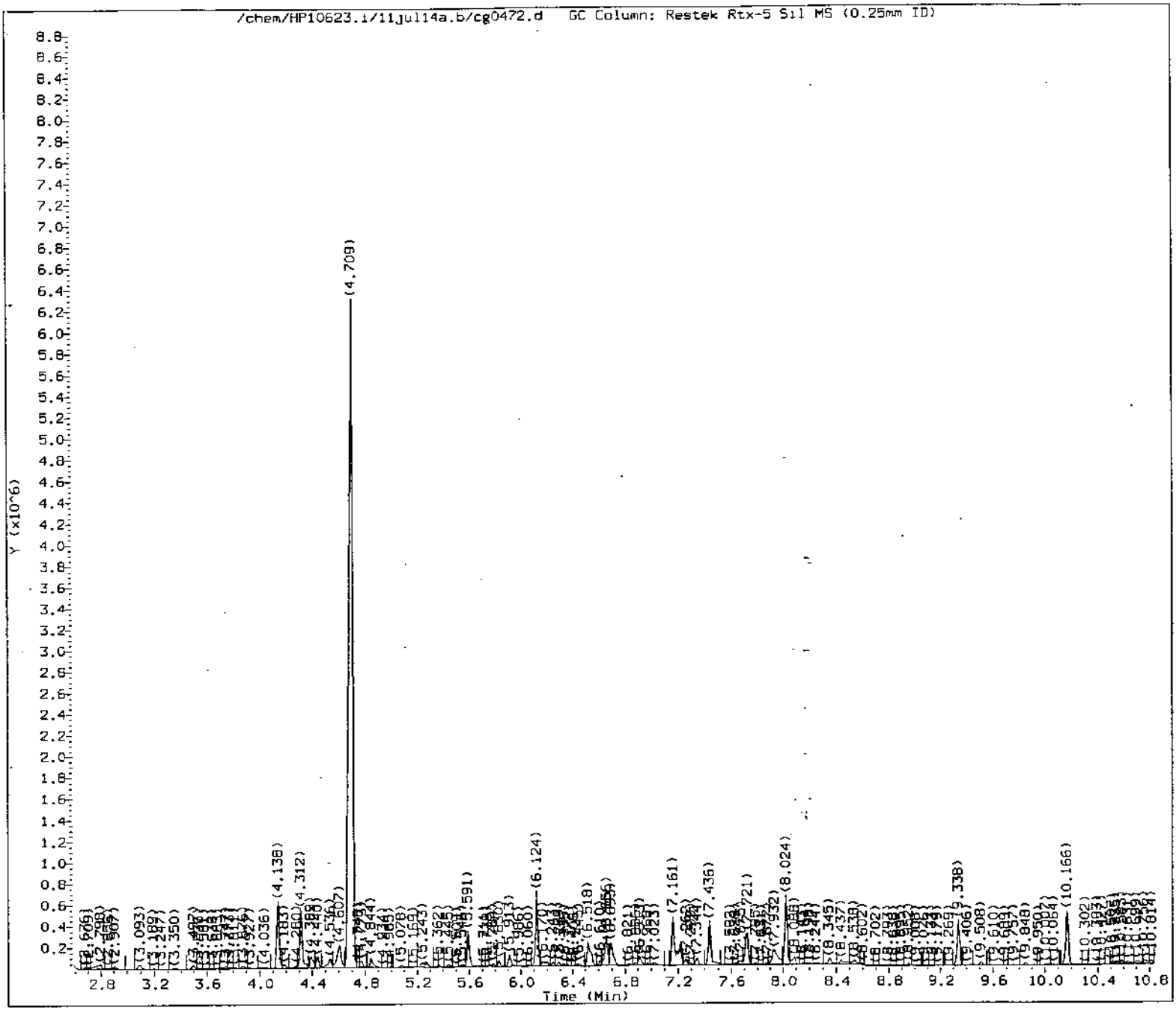
JUL 15 2011

Analyst: Joe Gambler
Senior Chemist
Date:

Auditor:
Mark A. Ratcliff
Senior Specialist
Date:

JUL 19 2011

USF83 8635



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

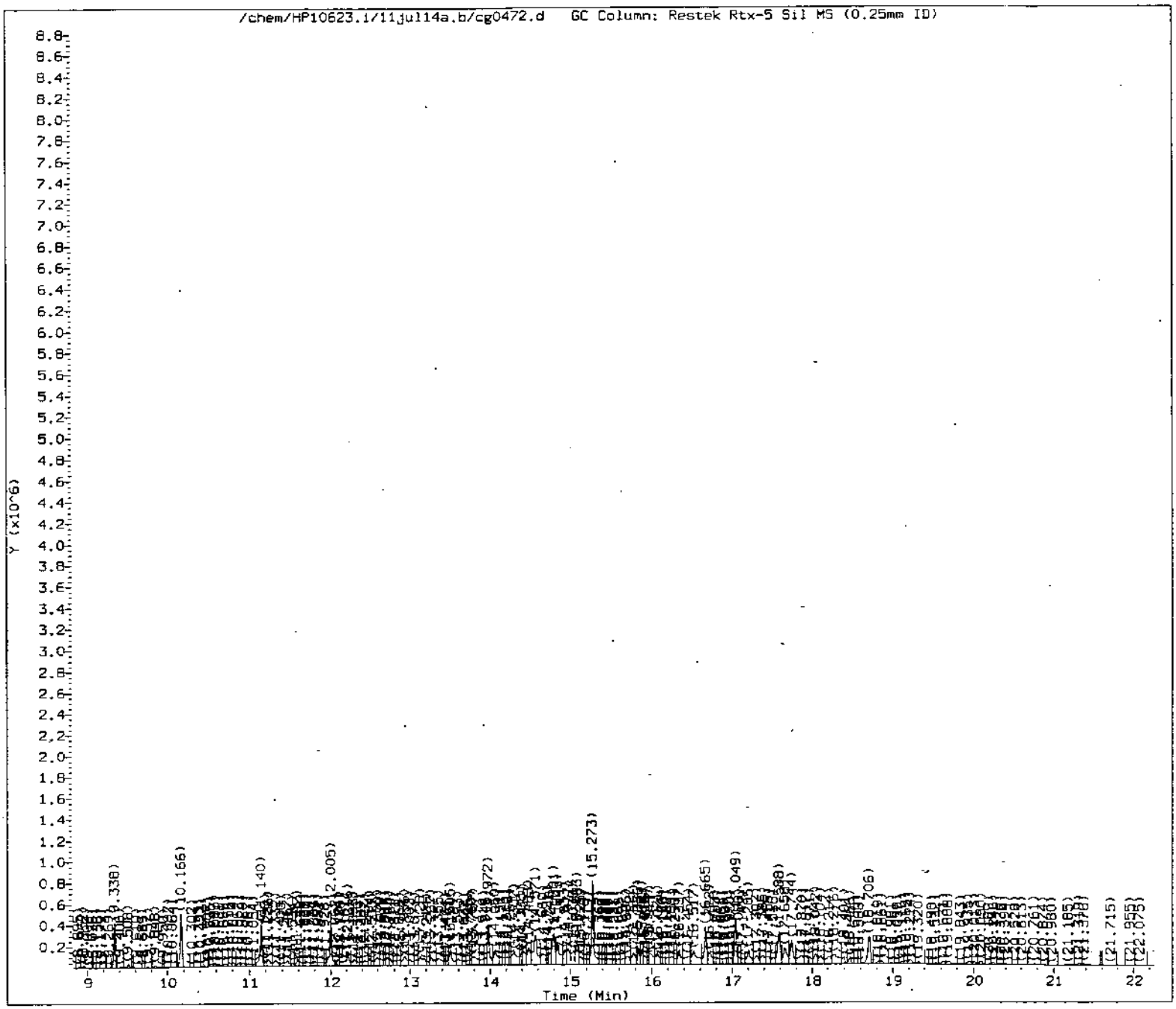
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

JUL 15 2011

Joe Gambler
Senior Chemist

USPB3 8636



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

JUL 15 2011

Joe Gambler
Senior Chemist

USF03 0634

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

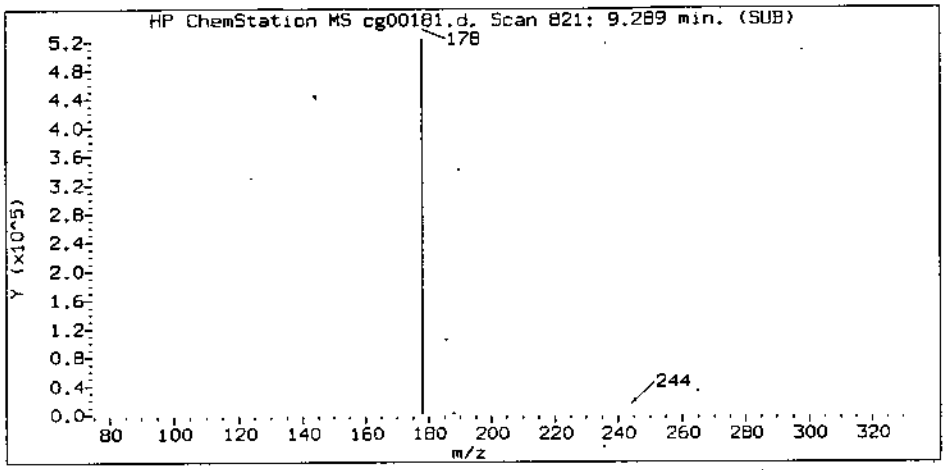
Sample Name: XXXXX Lab Sample ID: 6339368

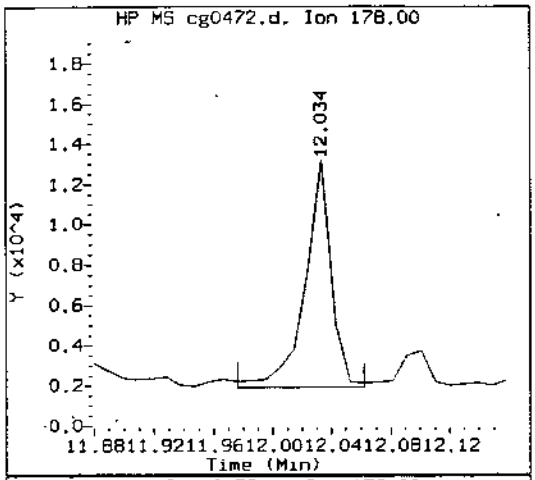
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.518	152	151521	1.0000
12) Naphthalene-d8	(2)	8.024	136	623623	1.0000
19) Acenaphthene-d10	(3)	10.166	164	335705	1.0000
30) Phenanthrene-d10	(4)	12.005	188	520171	1.0000
31) Phenanthrene	(4)	12.034	178	13930	0.0228
33) Di-n-butylphthalate	(4)	12.715	149	34185M	0.2362
35) Fluoranthene	(4)	13.505	202	33622	0.0553
37) Pyrene	(5)	13.787	202	29352M	0.0349
39) Butylbenzylphthalate	(5)	14.571	149	89209M	0.3513
40) bis(2-Ethylhexyl)phthalate	(5)	15.273	149-	239424	0.5448
41) Benzo(a)anthracene	(5)	15.265	228	14983M	0.0225
42) Chrysene-d12	(5)	15.273	240	537604	1.0000
43) Chrysene	(5)	15.305	228	24496M	0.0336
44) Di-n-octylphthalate	(6)	16.071	149	15886M	0.1891
45) Benzo(b)fluoranthene	(6)	16.548	252	19806M	0.0337
49) Perylene-d12	(6)	17.049	264	451725	1.0000
10) Nitrobenzene-d5	(2)	7.161	82	261514	1.1769
17) 2-Fluorobiphenyl	(3)	9.338	172	406827	0.9920
38) Terphenyl-d14	(5)	13.972	244	315288	0.8434

M = Compound was manually integrated. A = User selected an alternate hit

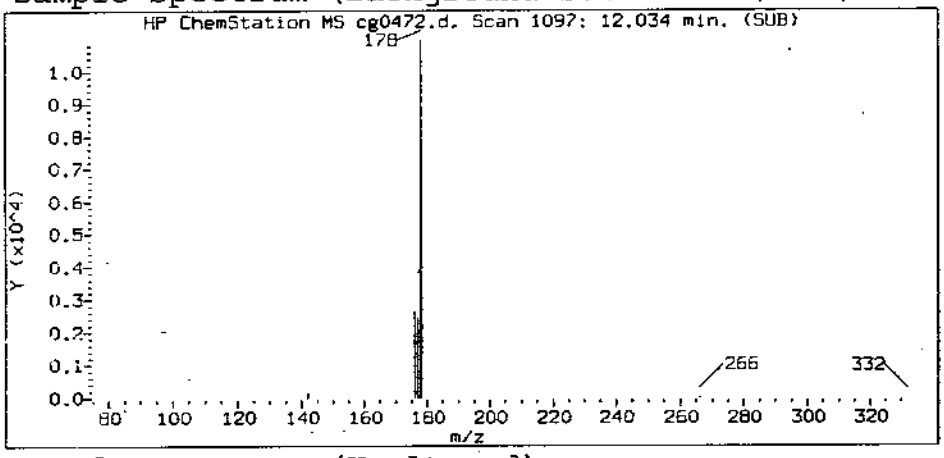
USF83 0638

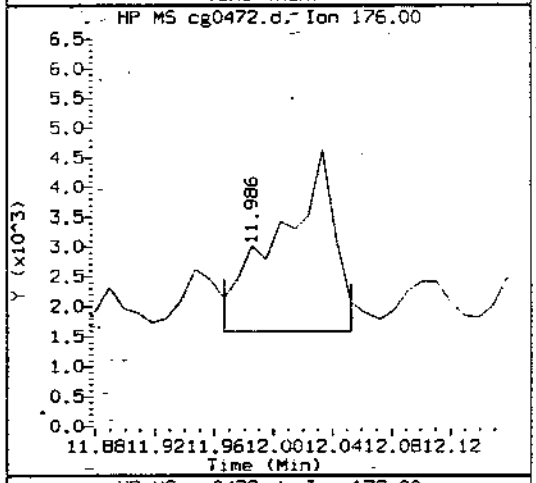
Reference Standard Spectrum for Phenanthrene



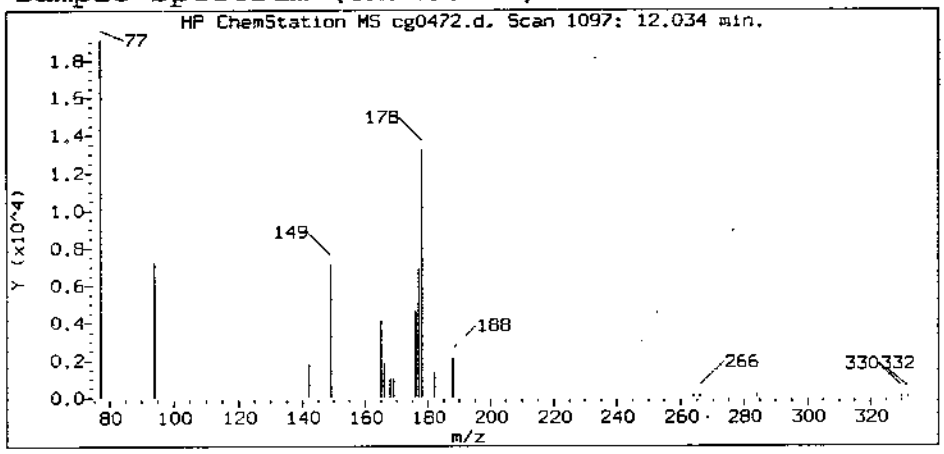


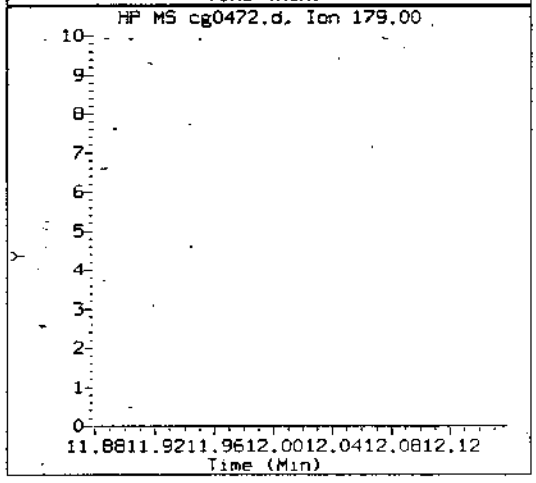
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0472.d
Injection date and time: 15-JUL-2011 04:17

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

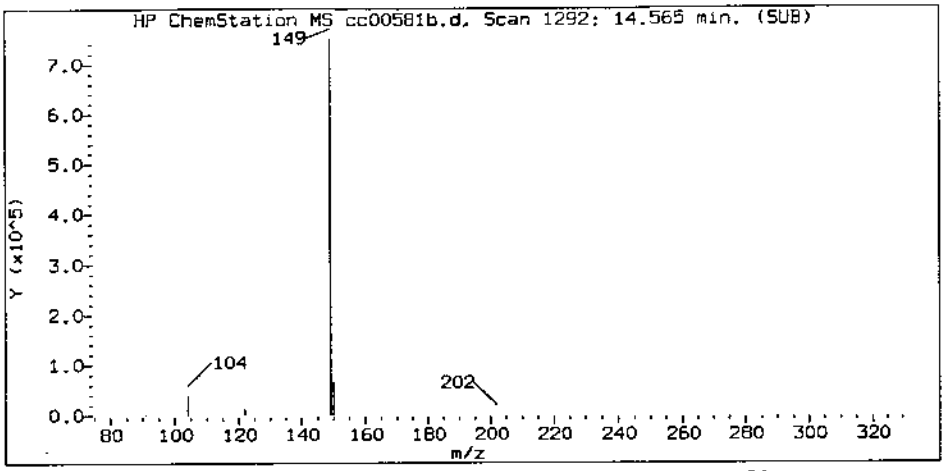
Sample Name: XXXXX

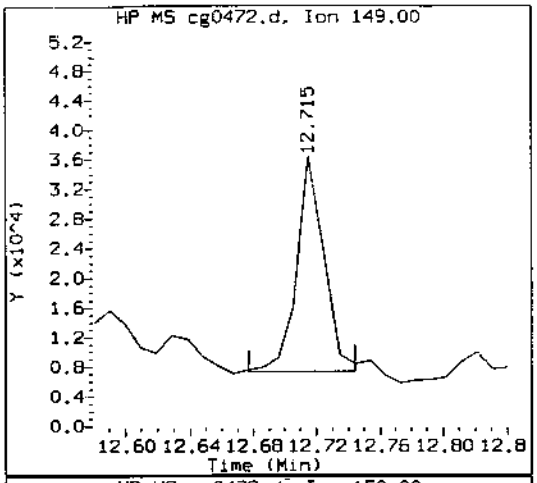
Lab Sample ID: 6339368

Compound Number	:	31
Compound Name	:	Phenanthrene
Scan Number	:	1097
Retention Time (minutes)	:	12.034
Quant Ion	:	178.0
Area (flag)	:	13930
Concentration (ng/ul)	:	0.0228

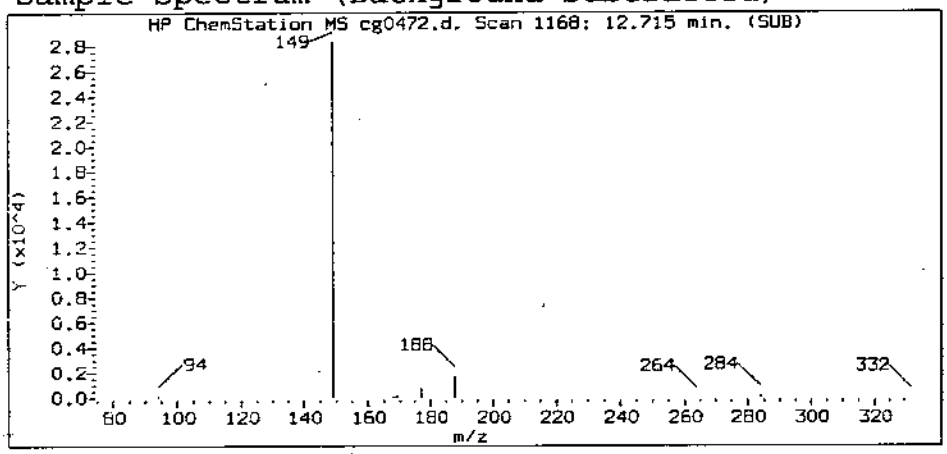
USP03 8639

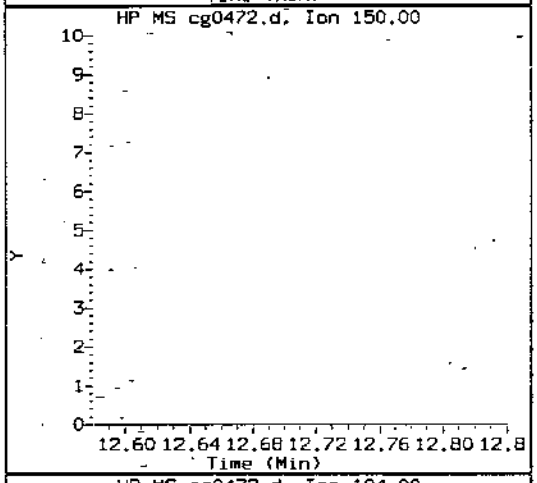
Reference Standard Spectrum for Di-n-butylphthalate



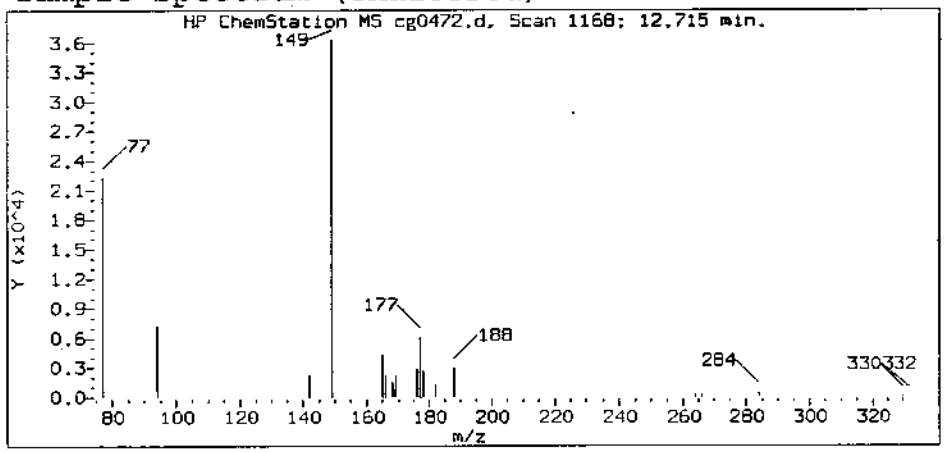


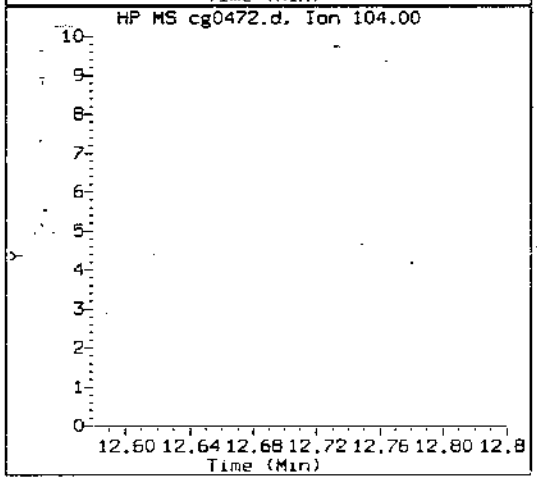
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0472.d
Injection date and time: 15-JUL-2011 04:17

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

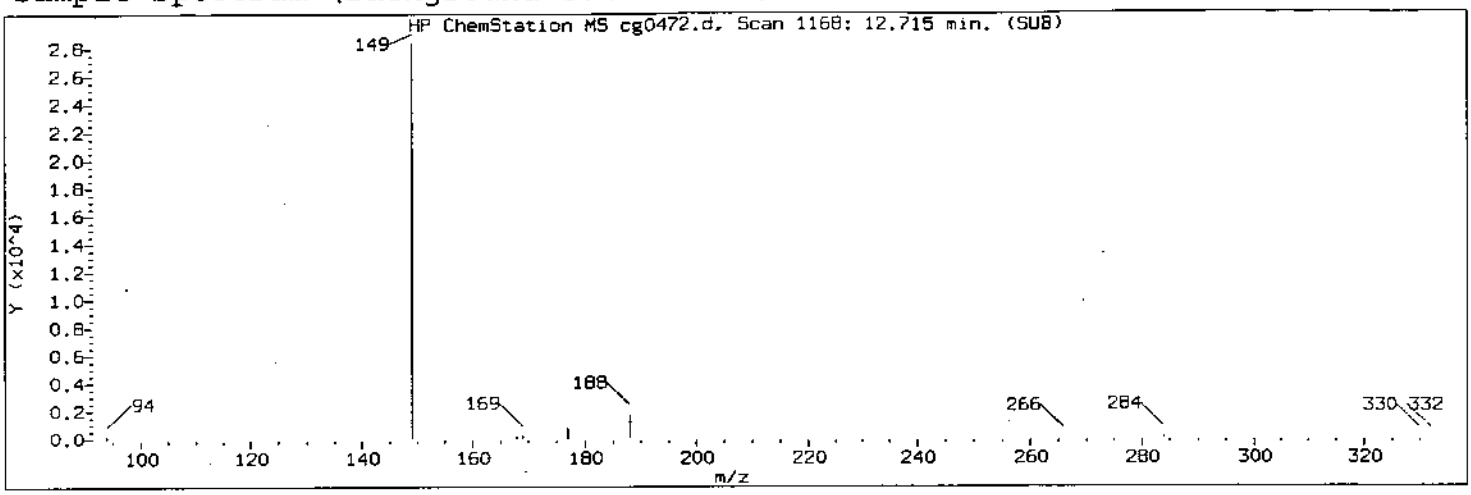
Sample Name: XXXXX

Lab Sample ID: 6339368

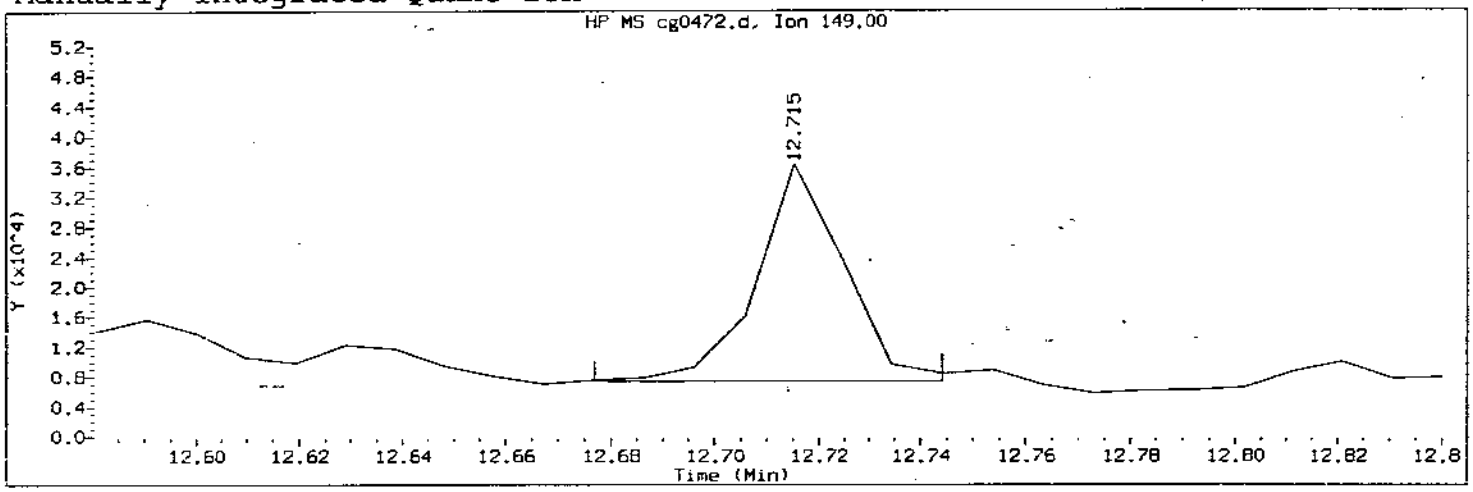
Compound Number	:	33
Compound Name	:	Di-n-butylphthalate
Scan Number	:	1168
Retention Time (minutes)	:	12.715
Quant Ion	:	149.0
Area (flag)	:	34185 M
Concentration (ng/ul)	:	0.2362

USF03 0648

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

Compound Number	:	33
Compound Name	:	Di-n-butylphthalate
Scan Number	:	1168
Retention Time (minutes)	:	12.715
Quant Ion	:	149
Area (flag)	:	34185 M
Concentration (ng/ul)	:	0.2362
Integration start scan	:	1163 Integration stop scan: 1170
Y at integration start	:	7419 Y at integration end: 7419

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

JUL 15 2011

GC/MS audit/management approval: _____

Joe Gambler
Senior Chemist

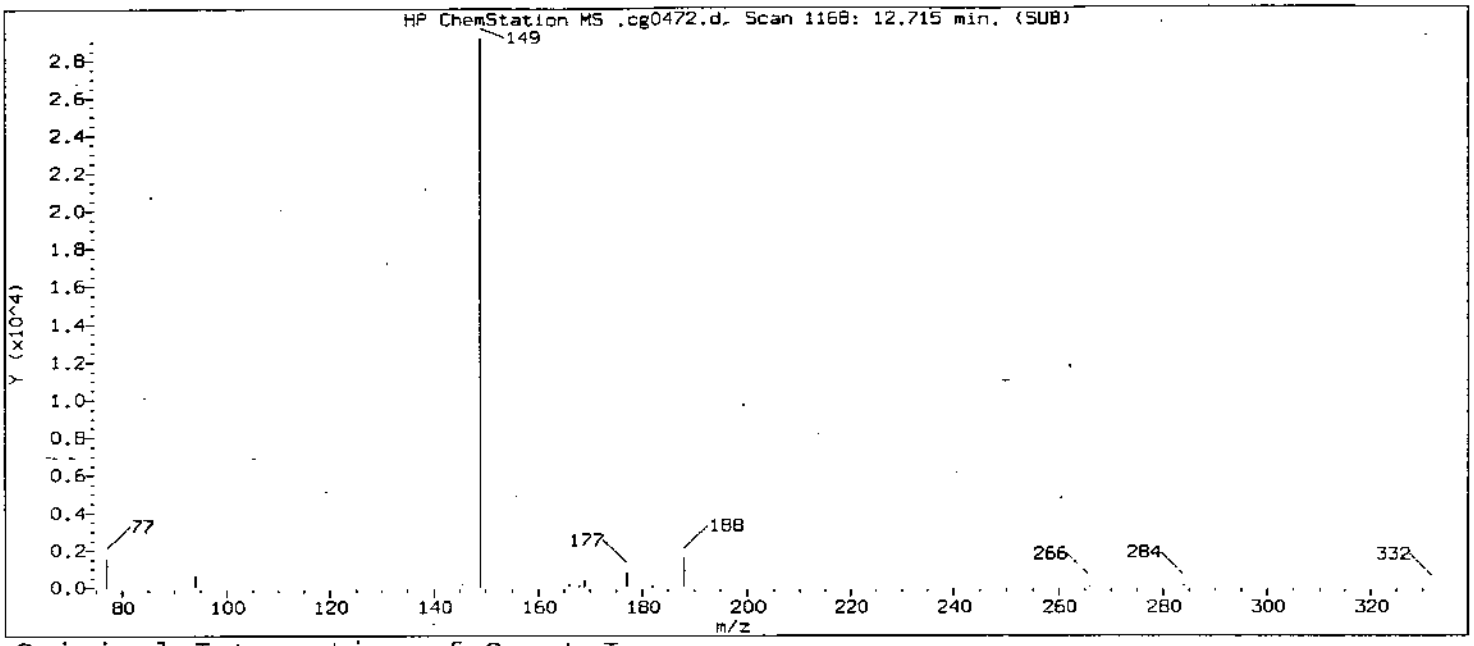
Mark A. Ratcliff
Senior Specialist

JUL 19 2011

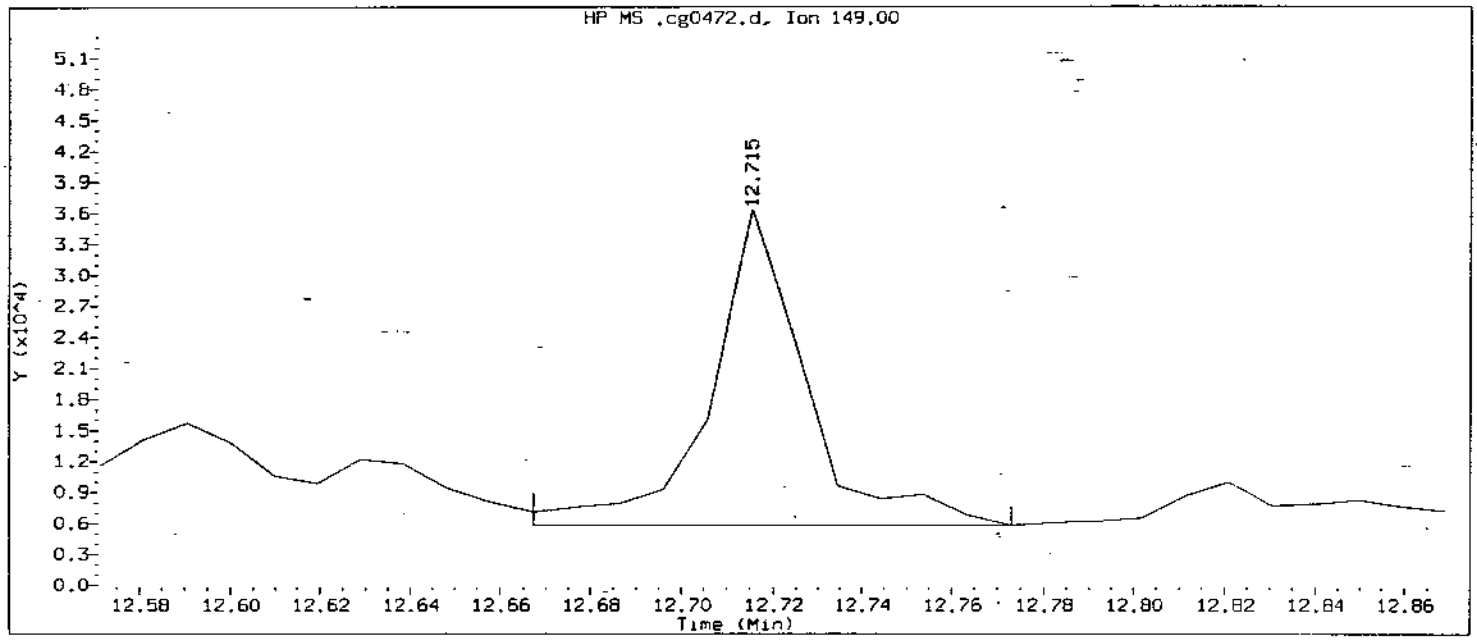
USF03 0641

Manual Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:05

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 Automation

Sample Name: XXXXX Lab Sample ID: 6339368

JUL 15 2011

Joe Gambler
Senior Chemist

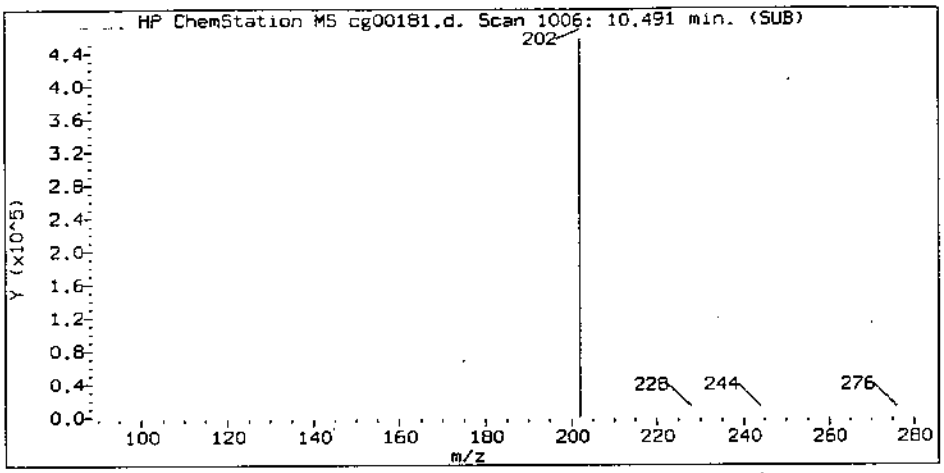
HSF03 8642

Compound Number	:	33
Compound Name	:	Di-n-butylphthalate
Scan Number	:	1168
Retention Time (minutes)	:	12.715
Quant Ion	:	149
Area	:	44201
Concentration (ng/ul)	:	0.2493
Integration start scan	:	1162
Y at integration start	:	5837

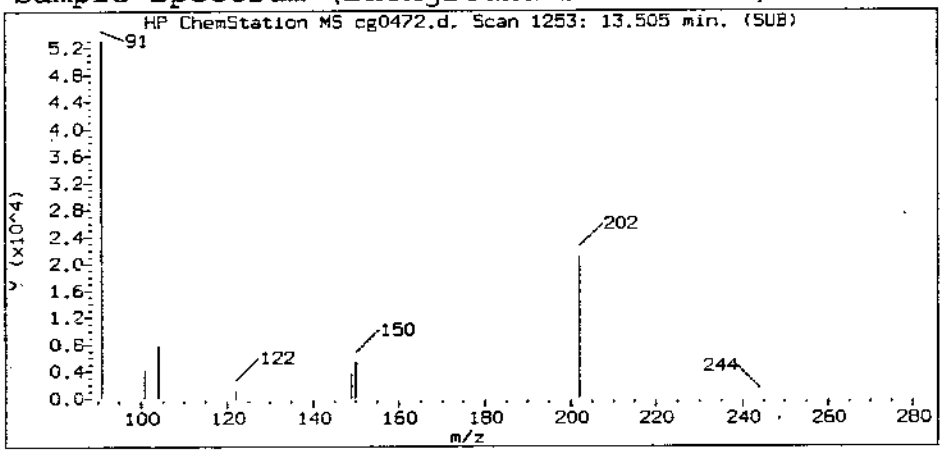
Integration stop scan: 1173
Y at integration end: 5837

Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

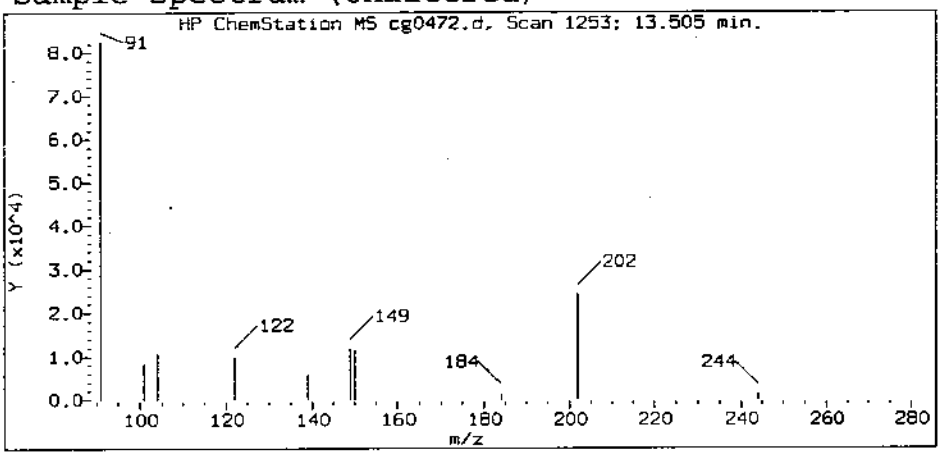
Reference Standard Spectrum for Fluoranthene

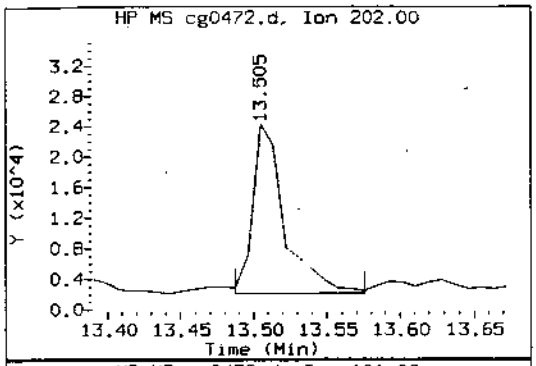


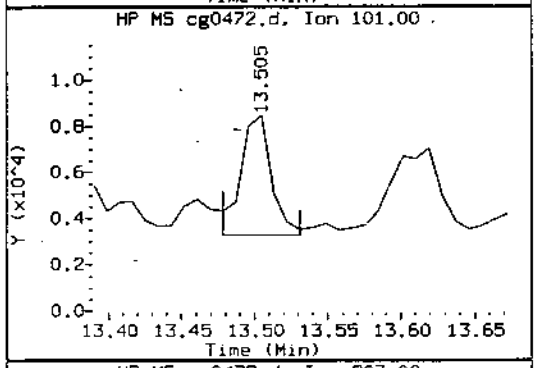
Sample Spectrum (Background Subtracted)

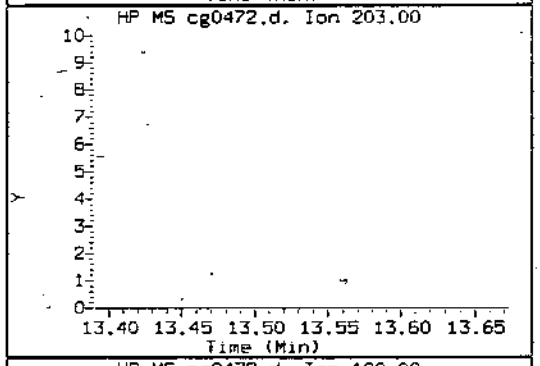


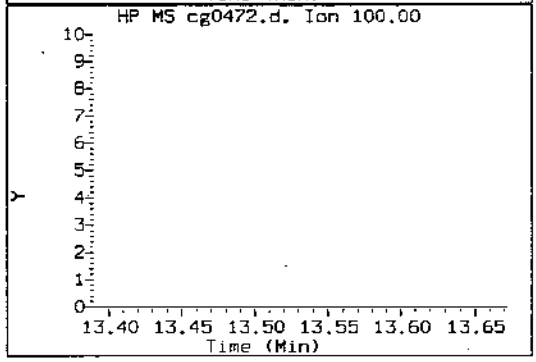
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul14a.b/cg0472.d
Injection date and time: 15-JUL-2011 04:17

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

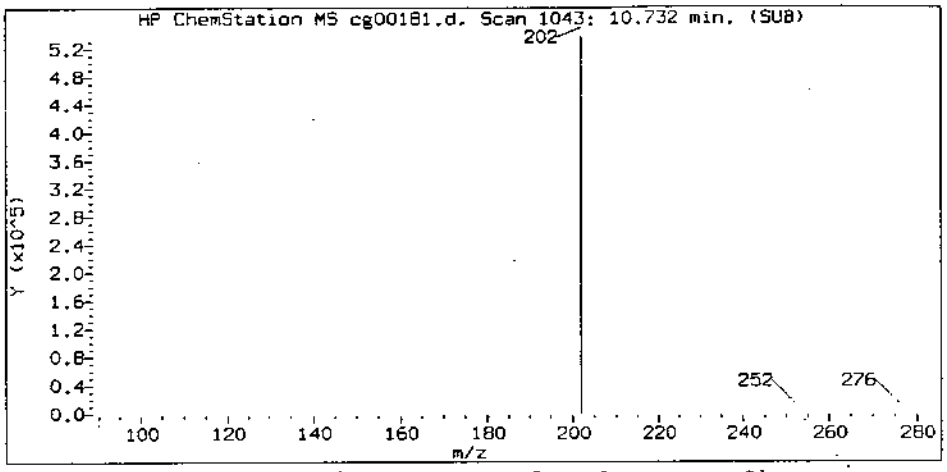
Sample Name: XXXXX

Lab Sample ID: 6339368

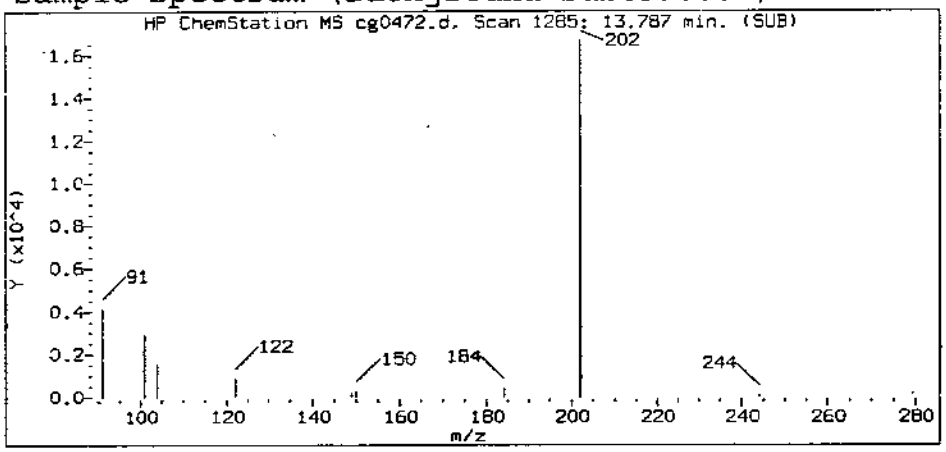
Compound Number	: 35
Compound Name	: Fluoranthene
Scan Number	: 1253
Retention Time (minutes)	: 13.505
Quant Ion	: 202.0
Area (flag)	: 33622
Concentration (ng/ul)	: 0.0553

USPBG 8643

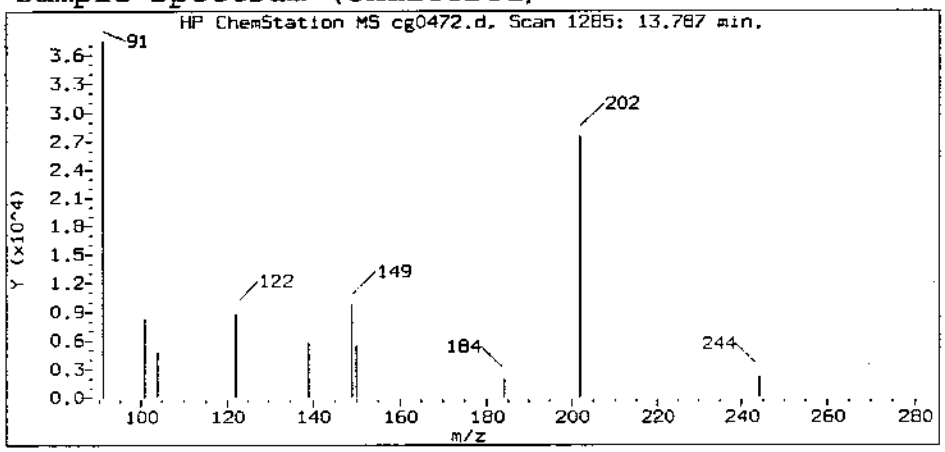
Reference Standard Spectrum for Pyrene

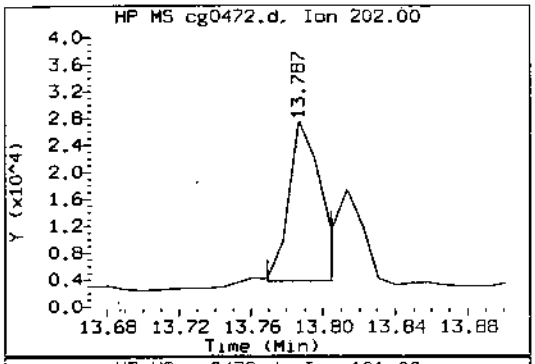


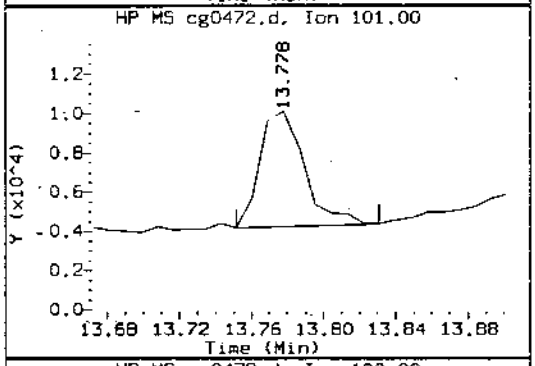
Sample Spectrum (Background Subtracted)

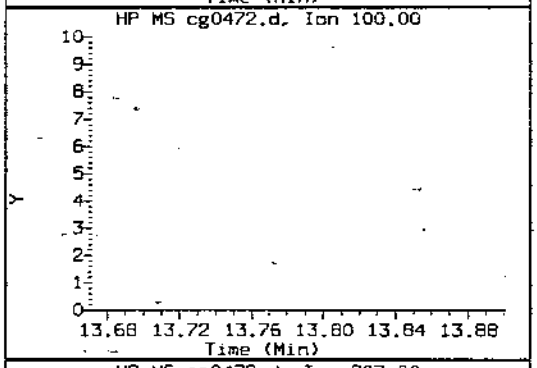


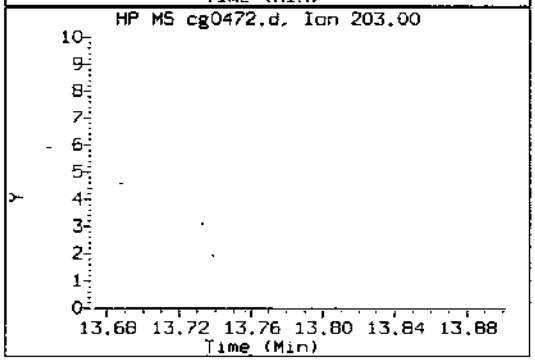
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul14a.b/cg0472.d
Injection date and time: 15-JUL-2011 04:17
Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

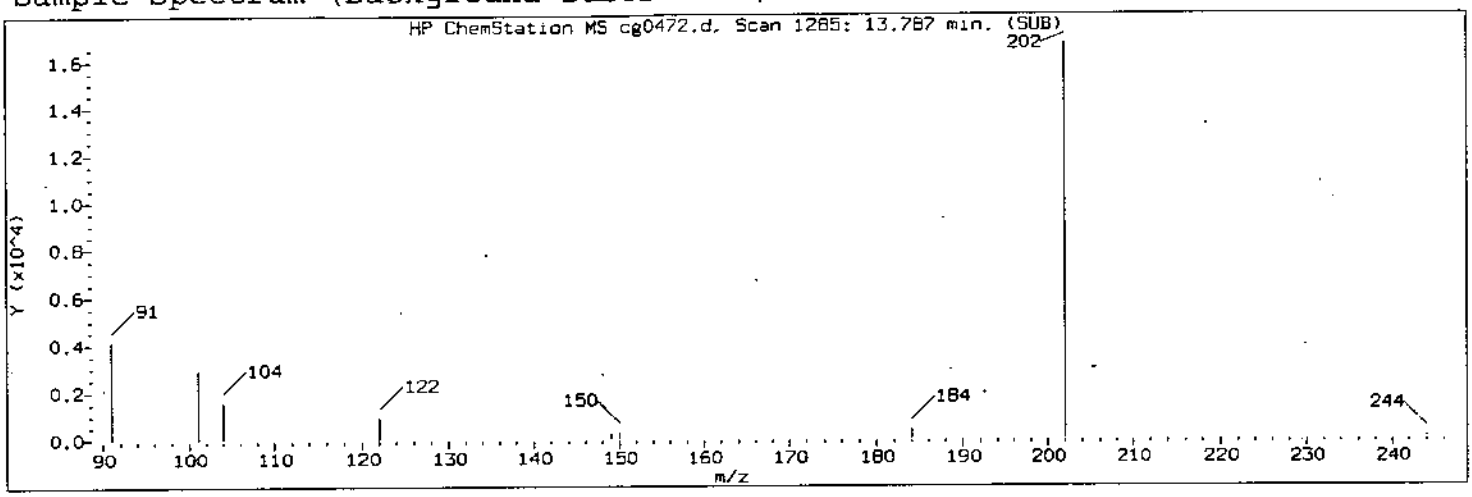
Sample Name: XXXXX
Lab Sample ID: 6339368

Compound Number	: 37
Compound Name	: Pyrene
Scan Number	: 1285
Retention Time (minutes)	: 13.787
Quant Ion	: 202.0
Area (flag)	: 29352 M
Concentration (ng/ul)	: 0.0349

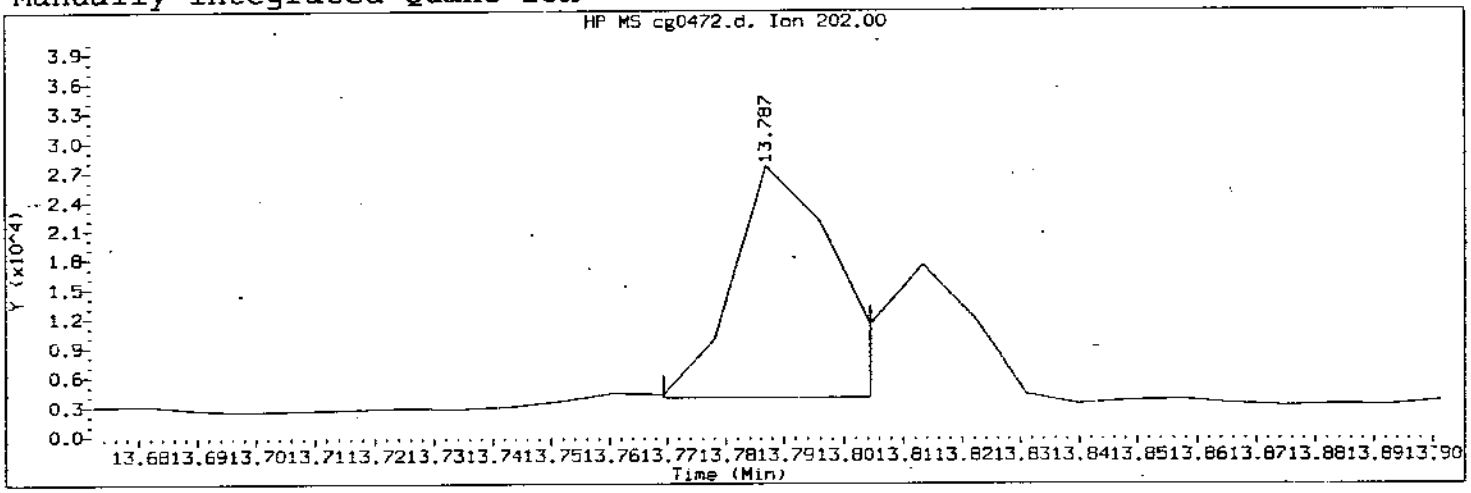
USF03 8644

Hit Data Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:05

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

Compound Number	:	37
Compound Name	:	Pyrene
Scan Number	:	1285
Retention Time (minutes)	:	13.787
Quant Ion	:	202
Area (flag)	:	29352 M
Concentration (ng/ul)	:	0.0349
Integration start scan	:	1282 Integration stop scan: 1286
Y at integration start	:	3894 Y at integration end: 3894

Reason for manual integration (circle one): missed peak improper integration

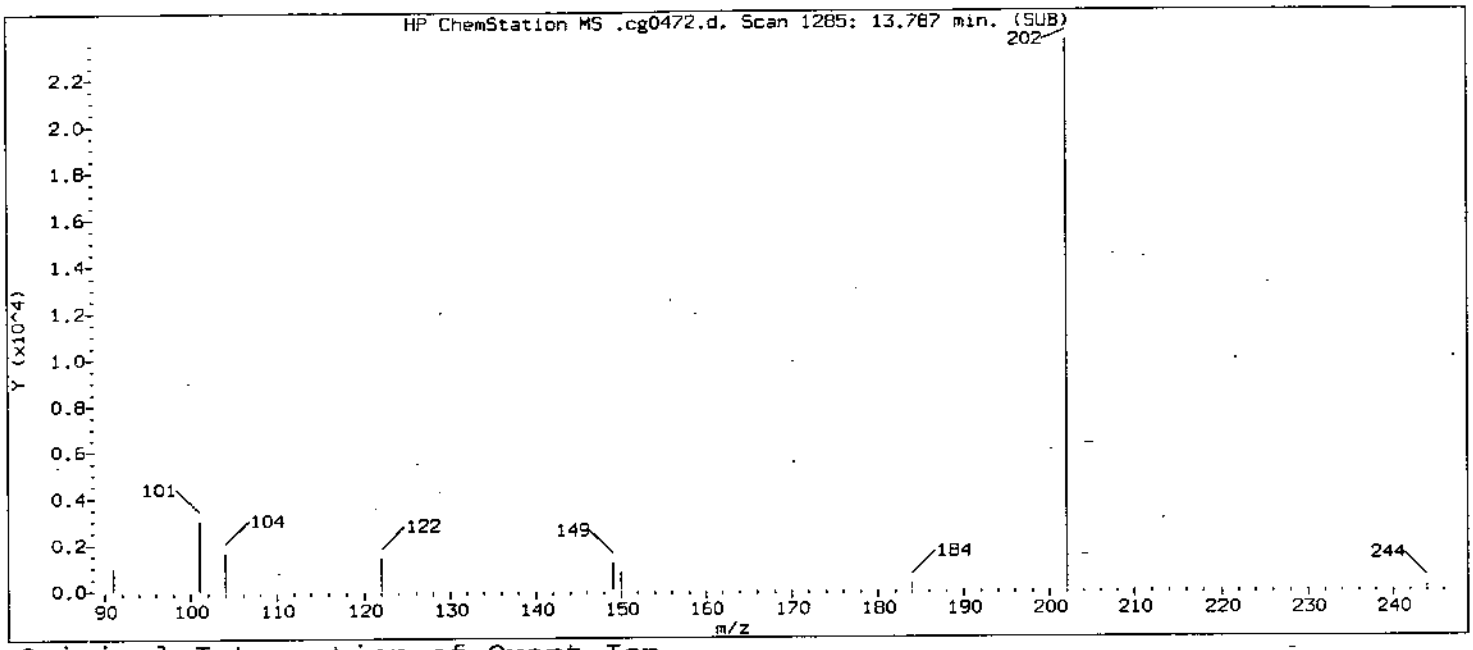
Analyst responsible for change: Joe Gambler JUL 15 2011
Joe Gambler
Senior Chemist

GC/MS audit/management approval: Mark A. Ratcliff JUL 19 2011
Mark A. Ratcliff
Senior Specialist

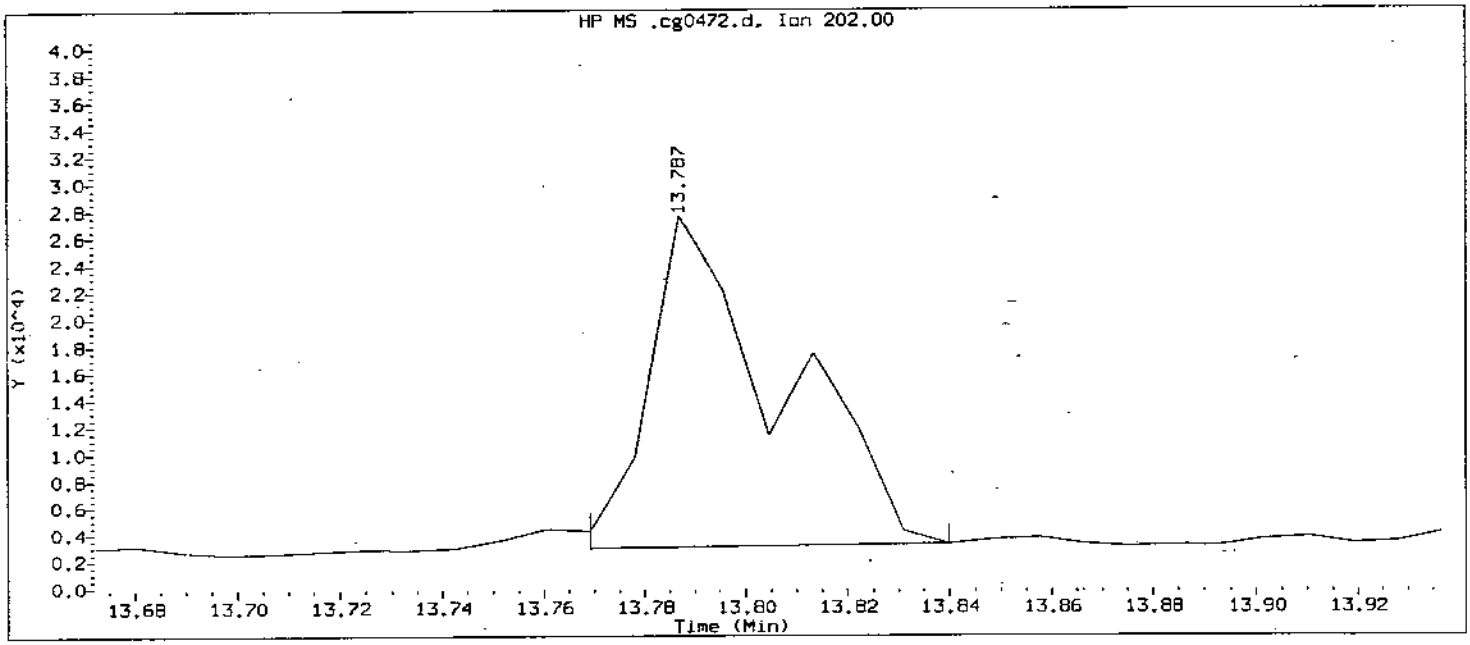
USF03 8645

Manual Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:05

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 Automation

Sample Name: XXXXX Lab Sample ID: 6339368

JUL 15 2011

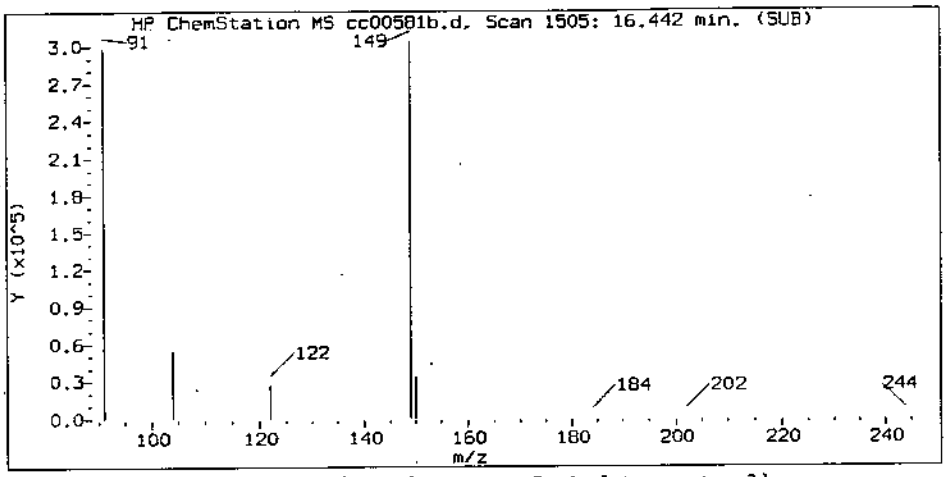
Joe Gambler
Senior Chemist

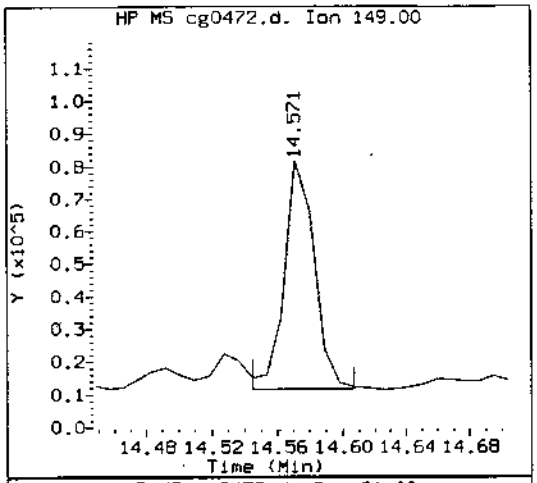
Compound Number	:	37
Compound Name	:	Pyrene
Scan Number	:	1285
Retention Time (minutes)	:	13.787
Quant Ion	:	202
Area	:	44045
Concentration (ng/ul)	:	0.0523
Integration start scan	:	1282
Y at integration start	:	2959

Integration stop scan: 1290
Y at integration end: 3220

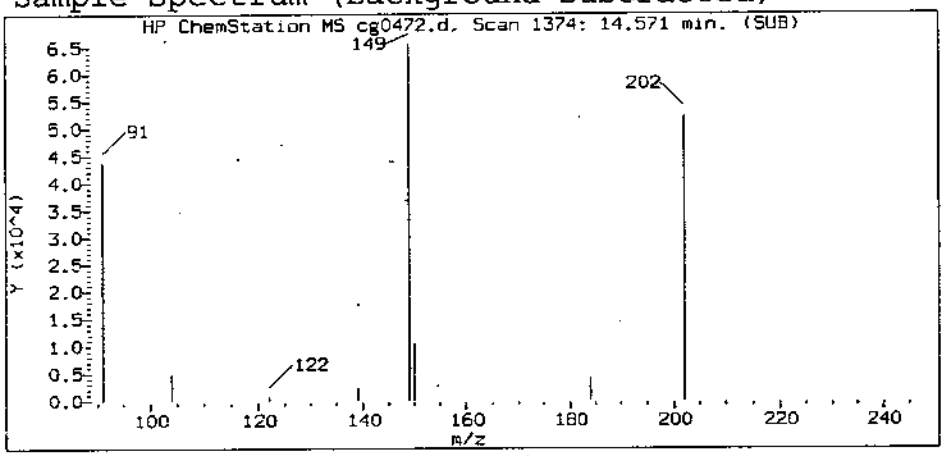
Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

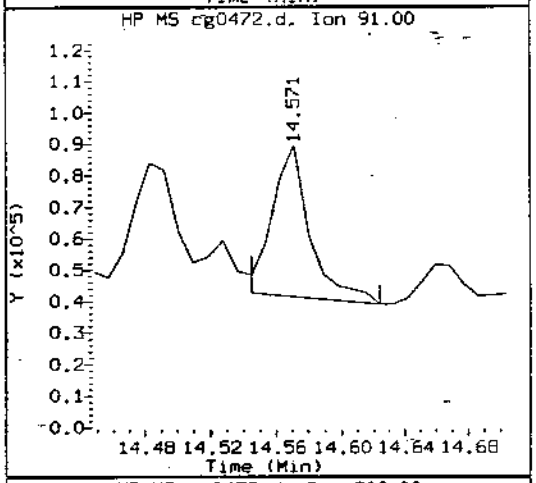
Reference Standard Spectrum for Butylbenzylphthalate



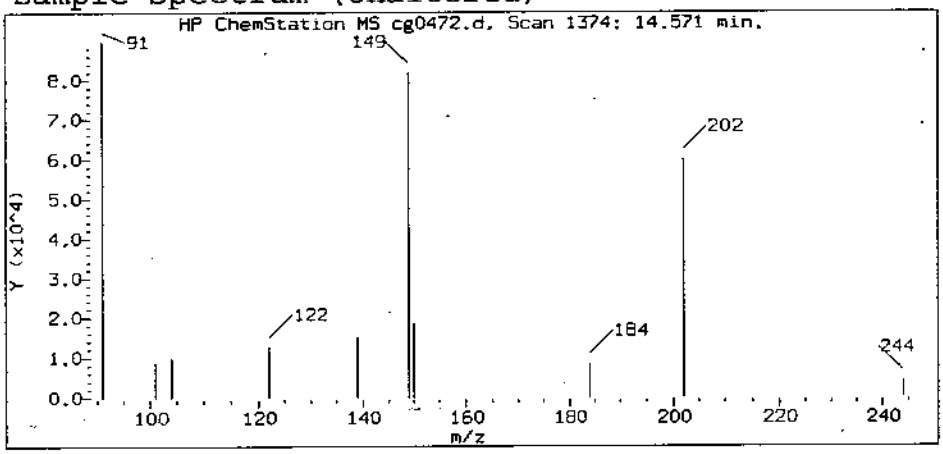


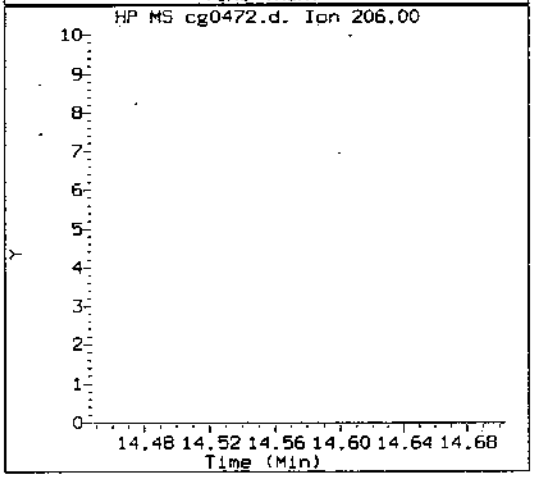
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0472.d
Injection date and time: 15-JUL-2011 04:17

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

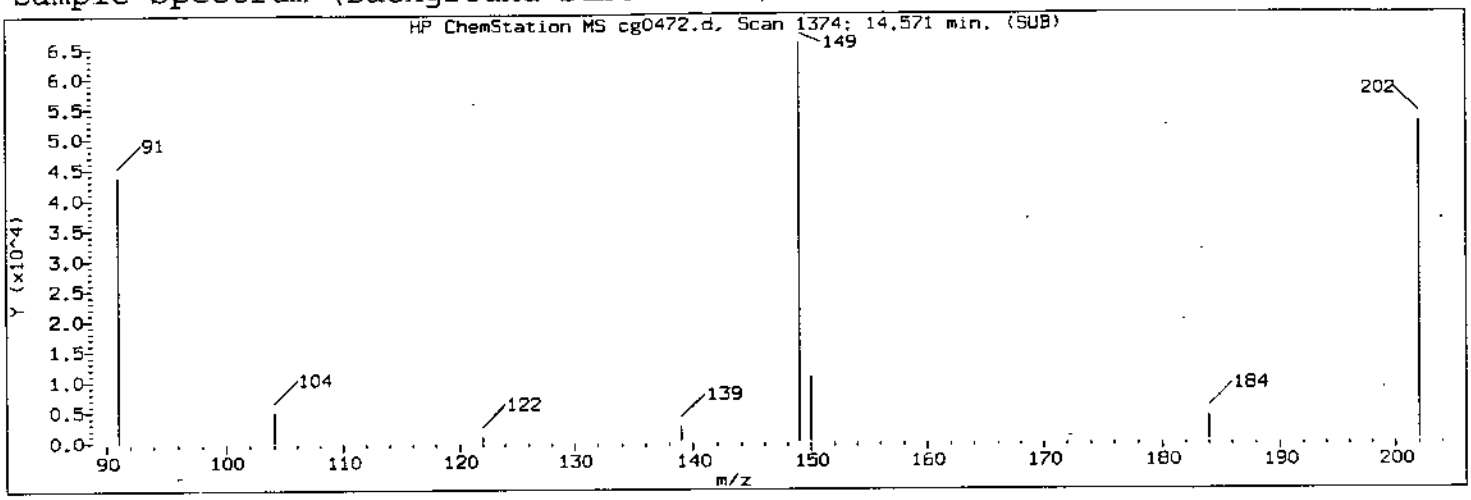
Sample Name: XXXXX

Lab Sample ID: 6339368

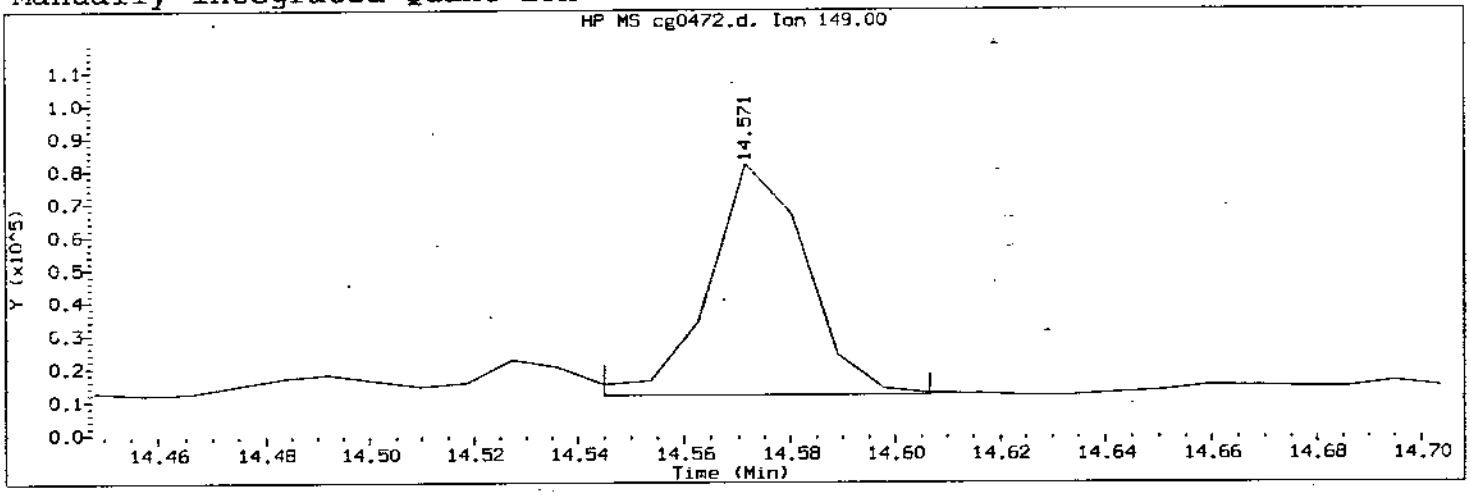
Compound Number	:	39
Compound Name	:	Butylbenzylphthalate
Scan Number	:	1374
Retention Time (minutes)	:	14.571
Quant Ion	:	149.0
Area (flag)	:	89209 M
Concentration (ng/ul)	:	0.3513

USF03 8647

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

Compound Number	: 39		
Compound Name	: Butylbenzylphthalate		
Scan Number	: 1374		
Retention Time (minutes)	: 14.571		
Quant Ion	: 149		
Area (flag)	: 89209	M	
Concentration (ng/ul)	: 0.3513		
Integration start scan	: 1370	Integration stop scan:	1377
Y at integration start	: 11766	Y at integration end:	11766

Reason for manual integration (circle one): missed peak improper integration

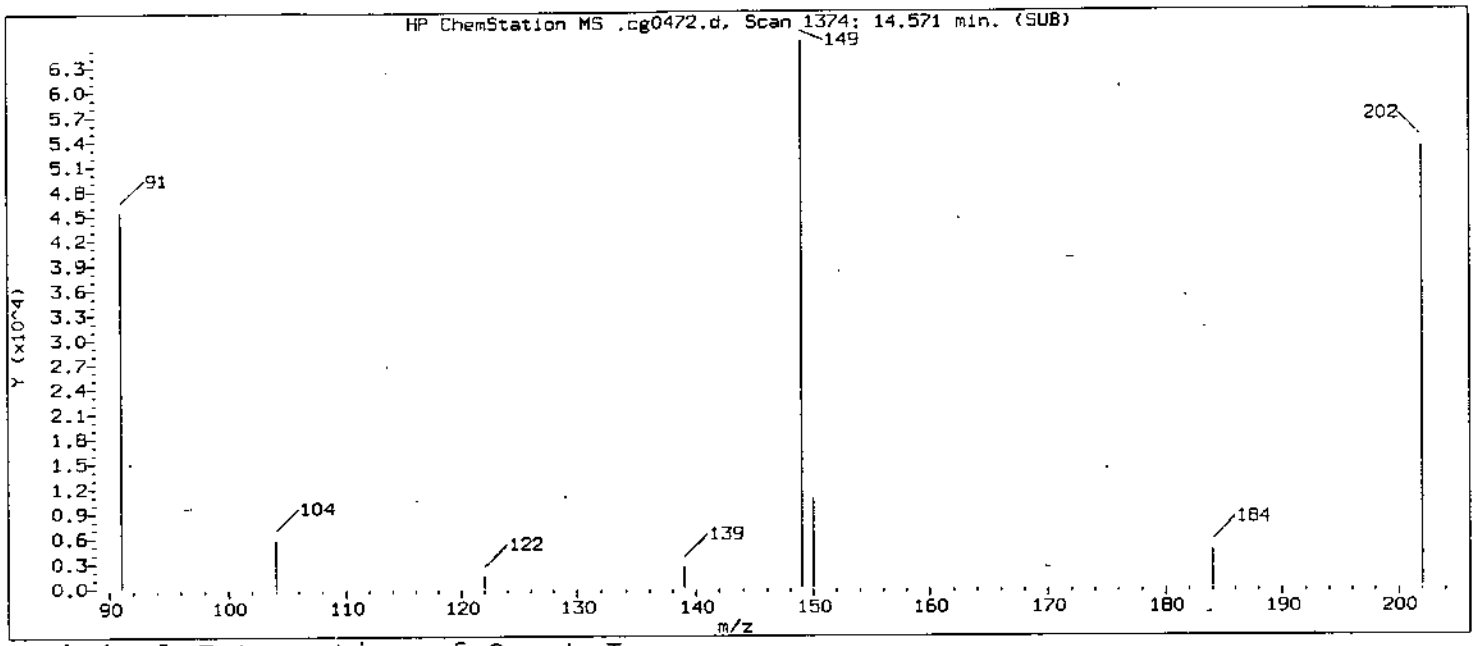
Analyst responsible for change: _____ JUL 15 2011

GC/MS audit/management approval: _____ Mark A. Ratcliff Senior Specialist

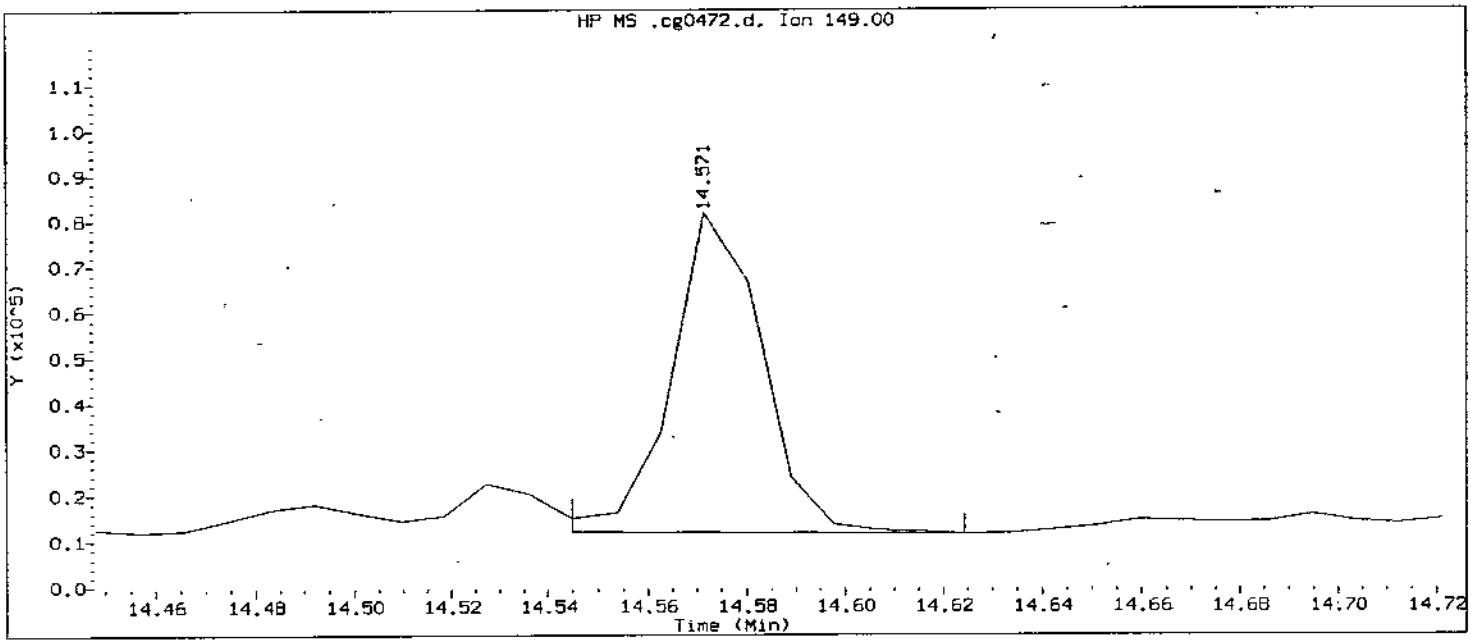
USF03 3640

Joe Gambler Senior Chemist JUL 19 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 Automation

Sample Name: XXXXX Lab Sample ID: 6339368

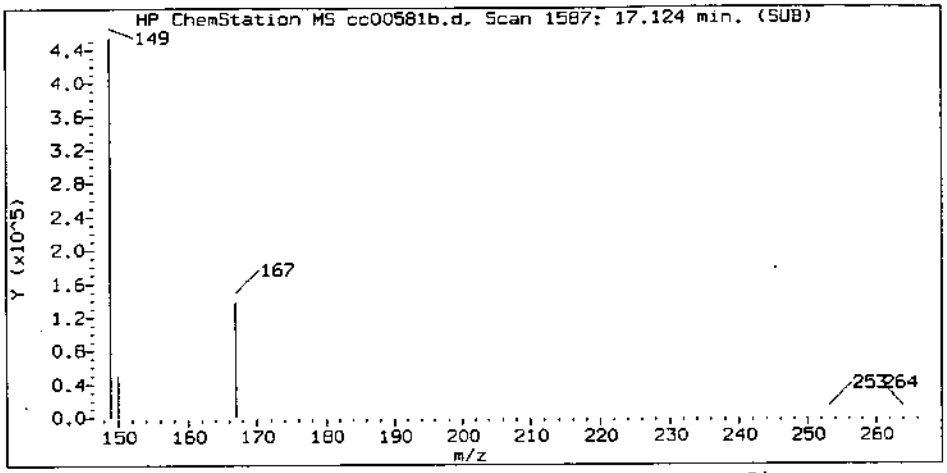
Compound Number	: 39
Compound Name	: Butylbenzylphthalate
Scan Number	: 1374
Retention Time (minutes)	: 14.571
Quant Ion	: 149
Area	: 88278
Concentration (ng/ul)	: 0.3489
Integration start scan	: 1370 Integration stop scan: 1379
Y at integration start	: 12120 Y at integration end: 11500

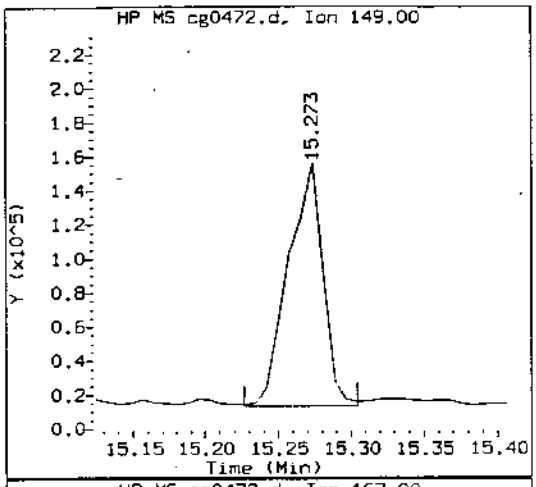
JUL 15 2011

Joe Gambler 8649
Senior Chemist

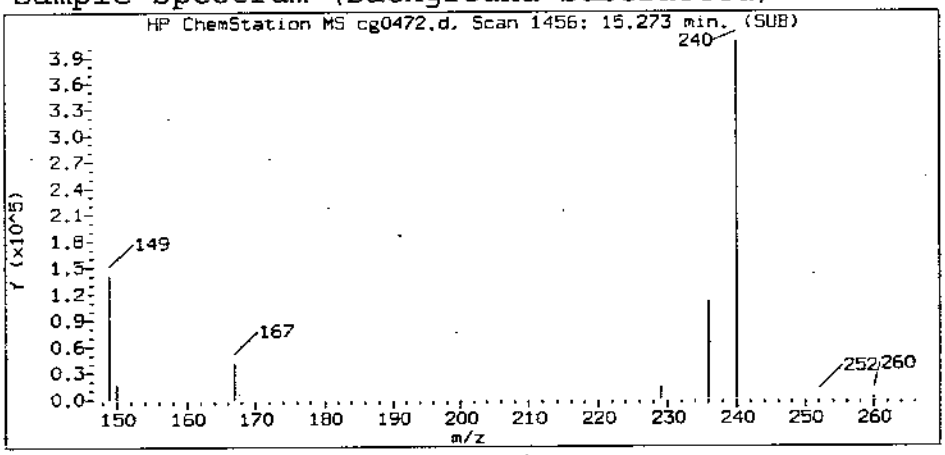
Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

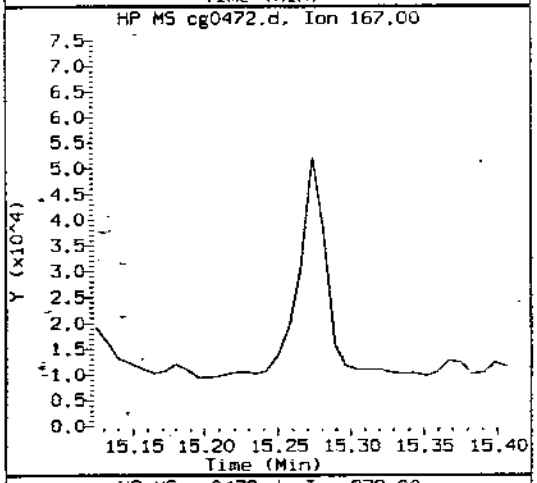
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



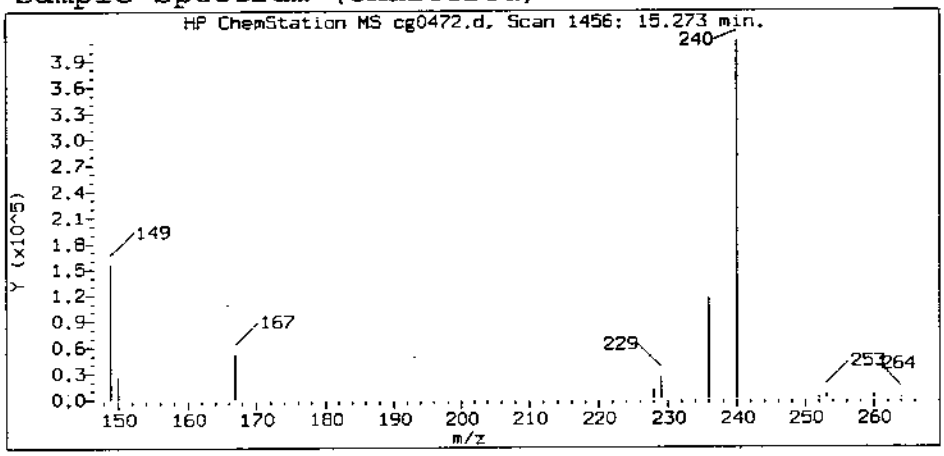


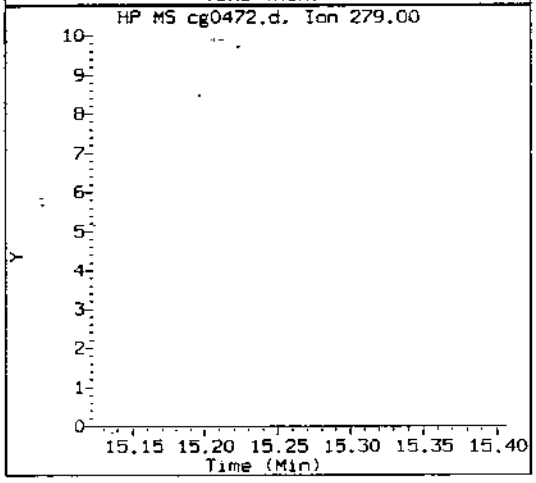
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0472.d
Injection date and time: 15-JUL-2011 04:17

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

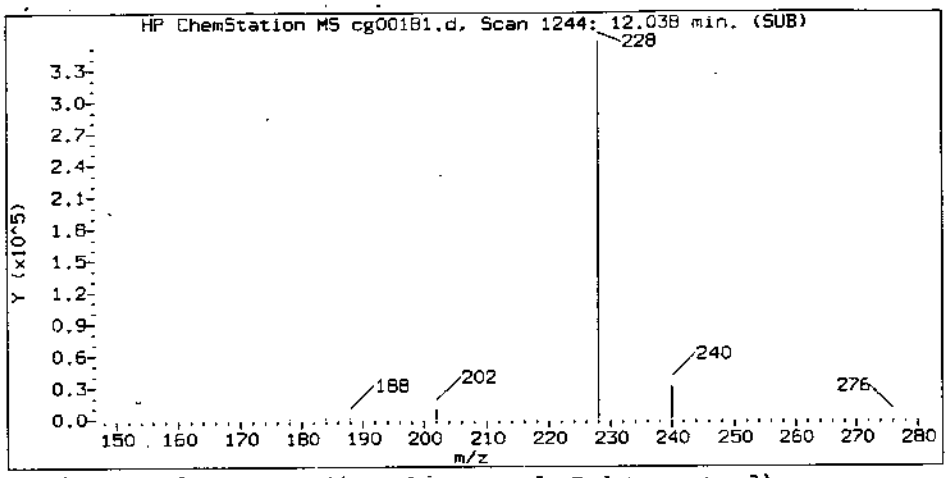
Sample Name: XXXXX

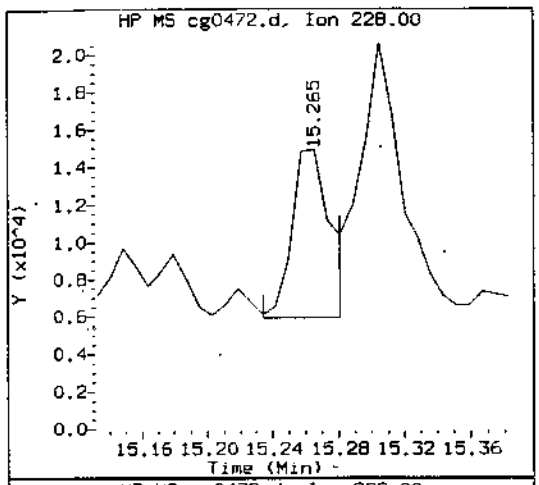
Lab Sample ID: 6339368

Compound Number	:	40
Compound Name	:	bis(2-Ethylhexyl)phthalate
Scan Number	:	1456
Retention Time (minutes)	:	15.273
Quant Ion	:	149.0
Area (flag)	:	239424
Concentration (ng/ul)	:	0.5448

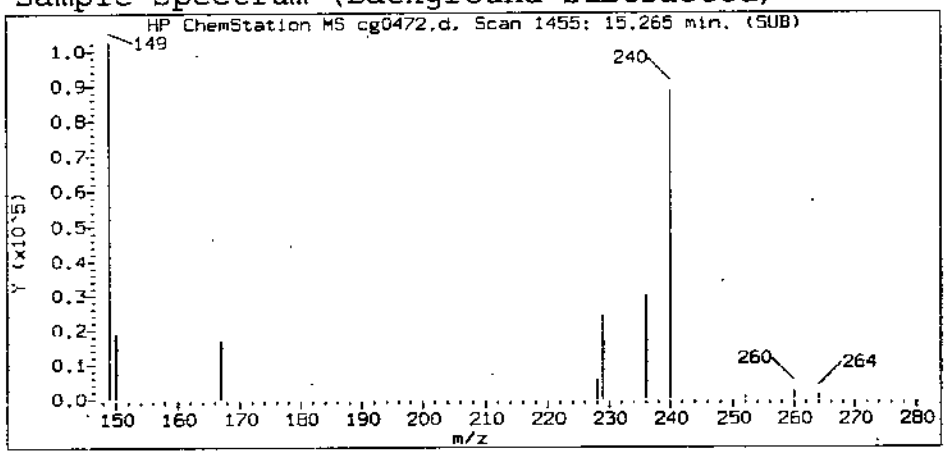
USP83 8658

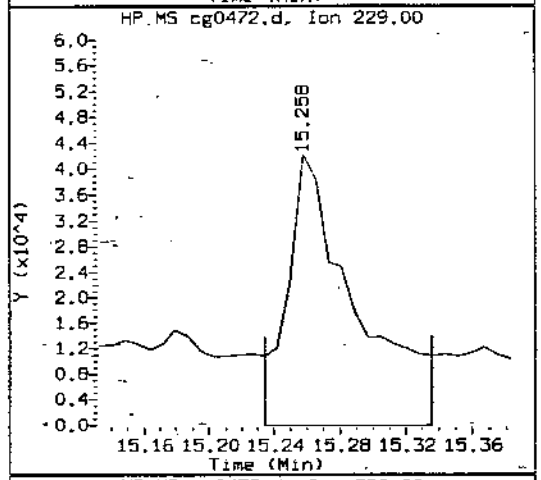
Reference Standard Spectrum for Benzo(a)anthracene



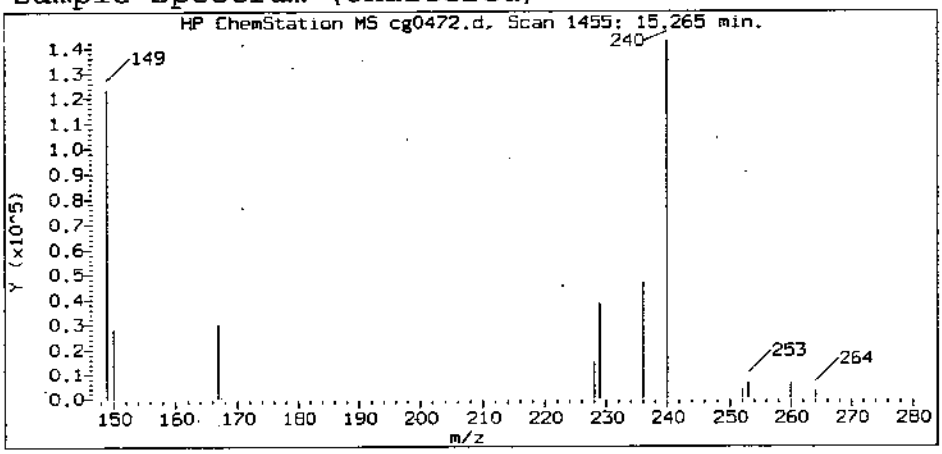


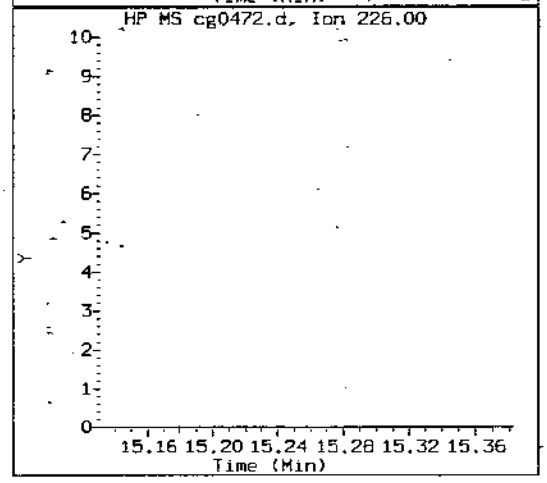
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0472.d
Injection date and time: 15-JUL-2011 04:17

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

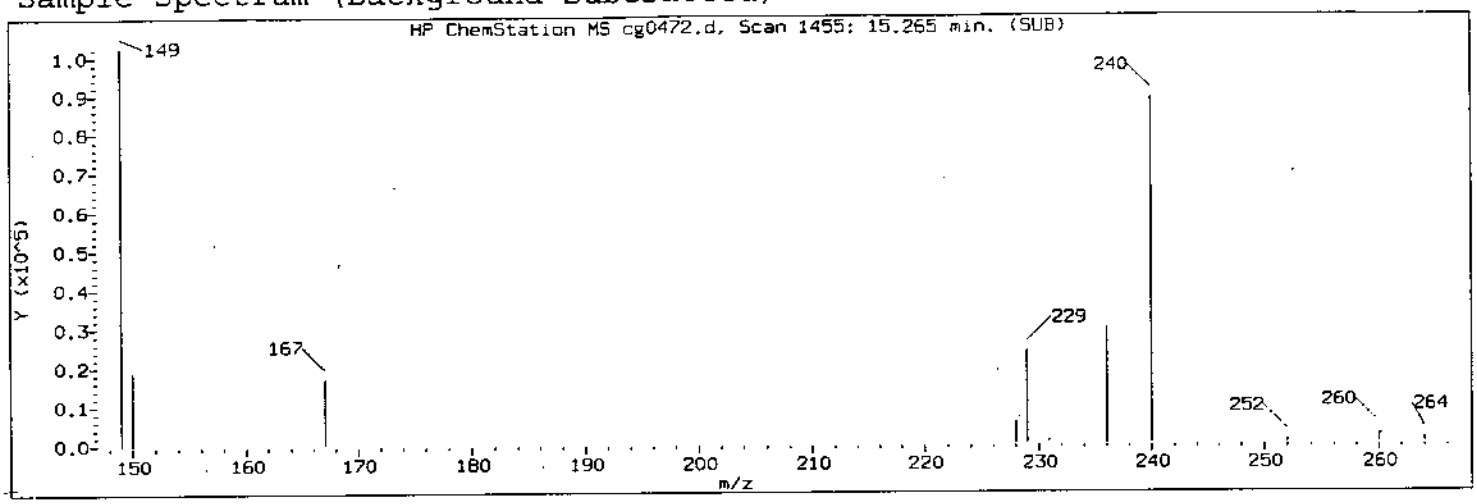
Sample Name: XXXXX

Lab Sample ID: 6339368

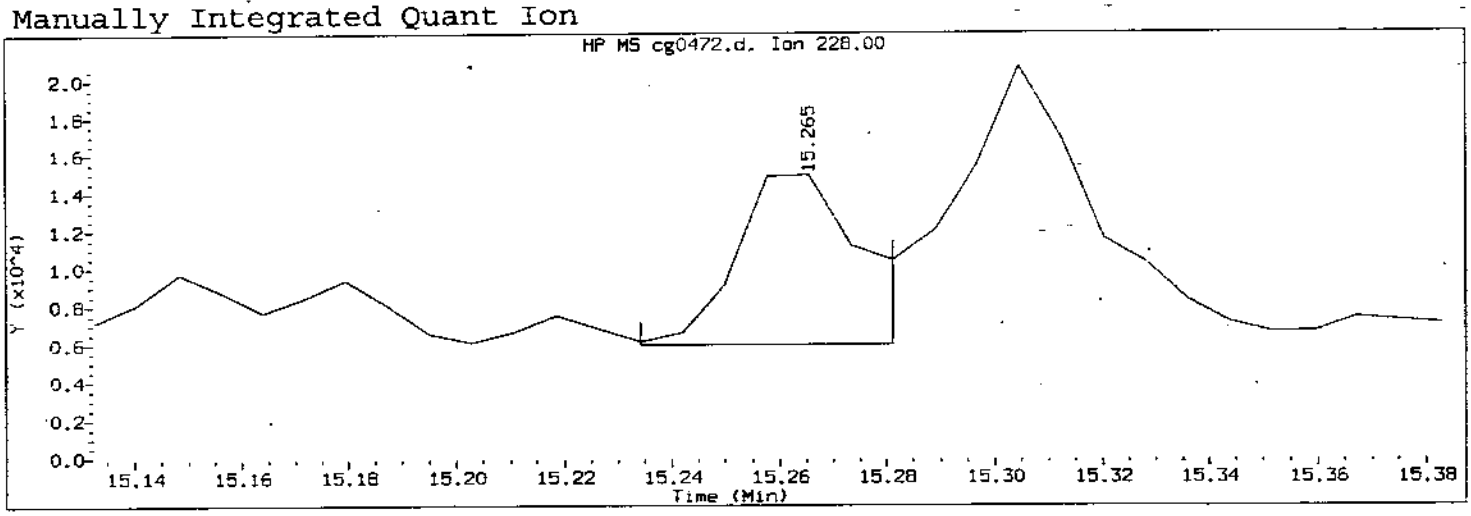
Compound Number	: 41
Compound Name	: Benzo(a)anthracene
Scan Number	: 1455
Retention Time (minutes)	: 15.265
Quant Ion	: 228.0
Area (flag)	: 14983 M
Concentration (ng/ul)	: 0.0225

USF03 8651

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

Compound Number	:	41
Compound Name	:	Benzo(a)anthracene
Scan Number	:	1455
Retention Time (minutes)	:	15.265
Quant Ion	:	228
Area (flag)	:	14983 M
Concentration (ng/ul)	:	0.0225
Integration start scan	:	1450 Integration stop scan: 1456
Y at integration start	:	5946 Y at integration end: 5946

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

JUL 15 2011

GC/MS audit/management approval: _____

Joe Gambler
Senior Chemist

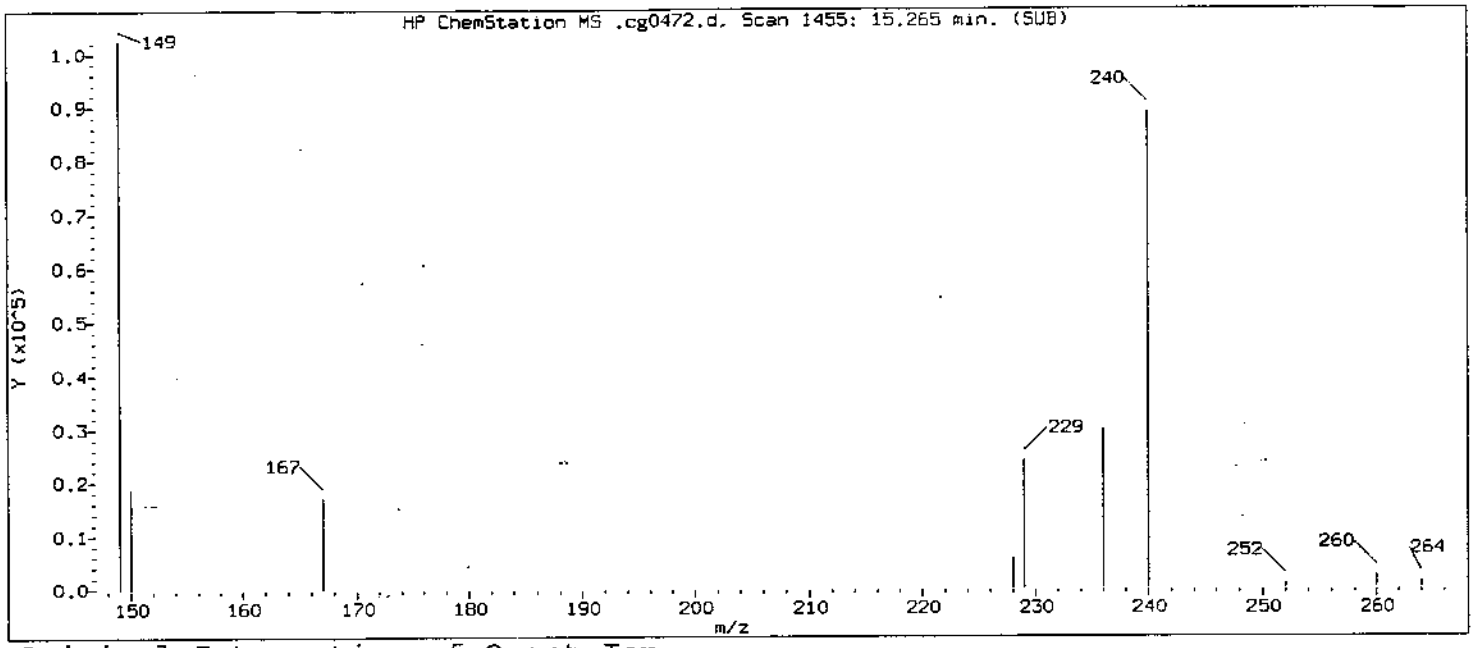
Mark A. Ratcliff
Senior Specialist

JUL 19 2011

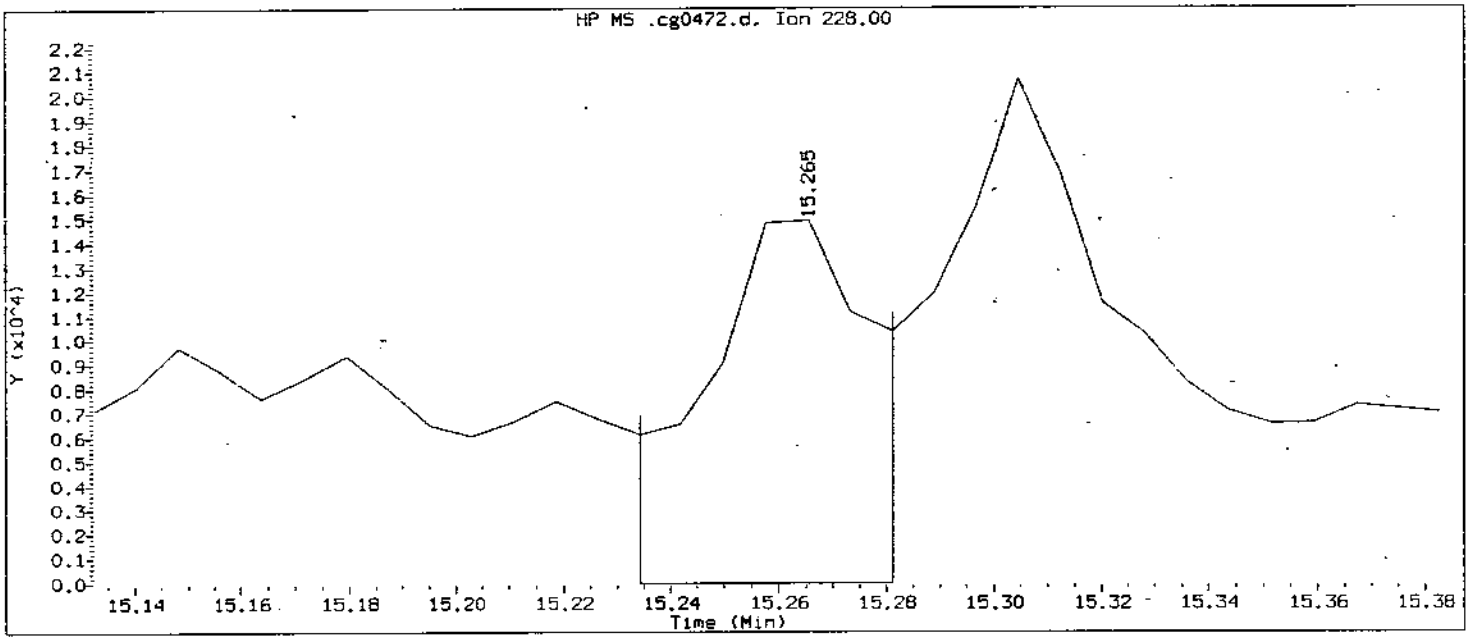
USF03 8552

Manual Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:05

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: alll
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 Automation

Sample Name: XXXXX Lab Sample ID: 6339368

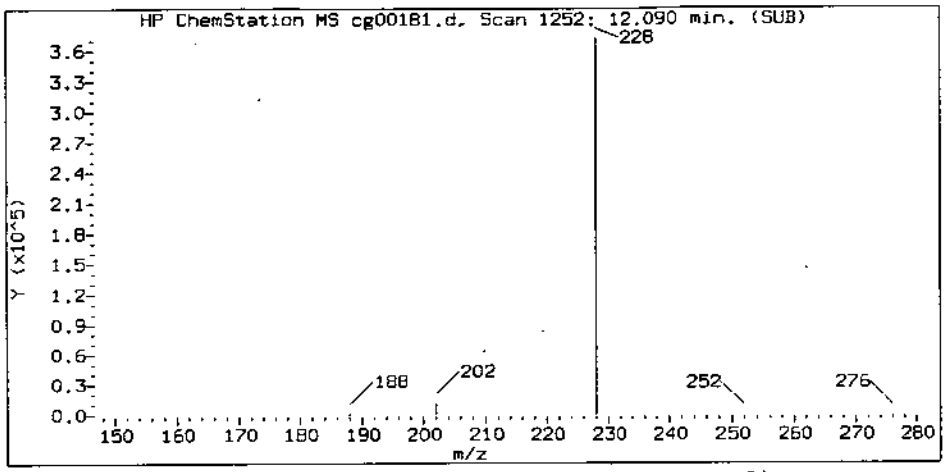
JUL 15 2011

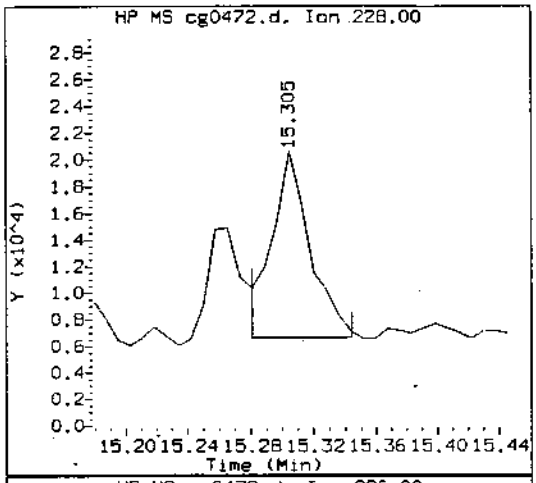
Joe Gambler
Senior Chemist

Compound Number	:	41
Compound Name	:	Benzo(a)anthracene
Scan Number	:	1455
Retention Time (minutes)	:	15.265
Quant Ion	:	228
Area	:	31350
Concentration (ng/ul)	:	0.0471
Integration start scan	:	1450 Integration stop scan: 1456
Y at integration start	:	0 Y at integration end: 0

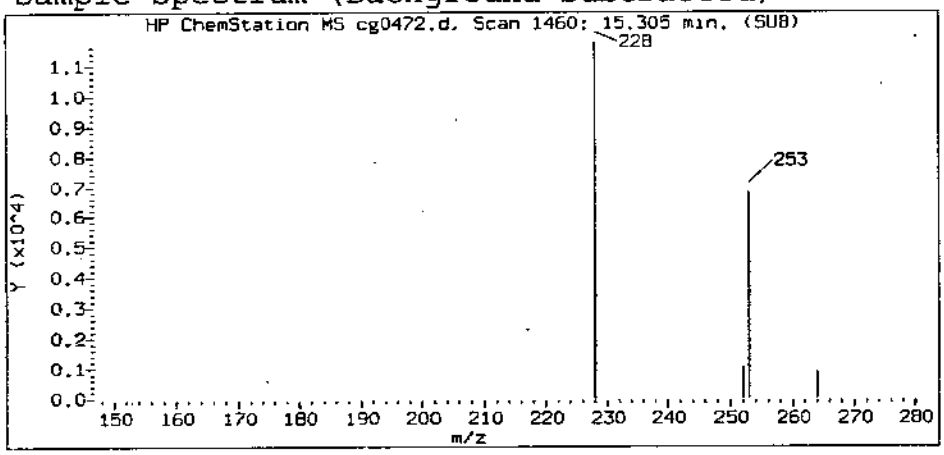
Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

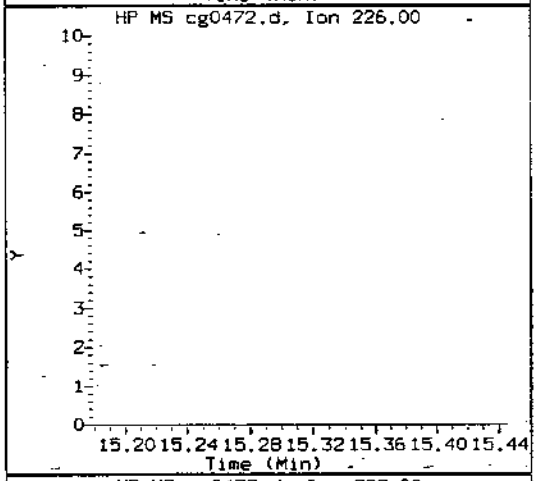
Reference Standard Spectrum for Chrysene



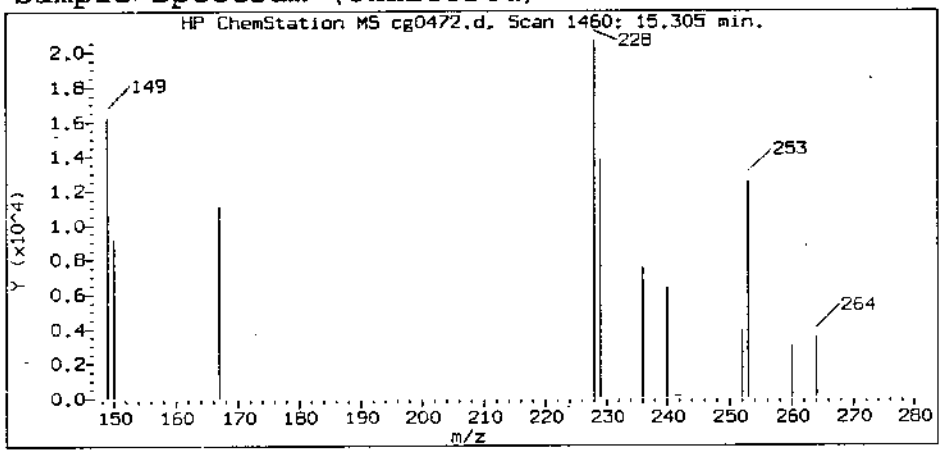


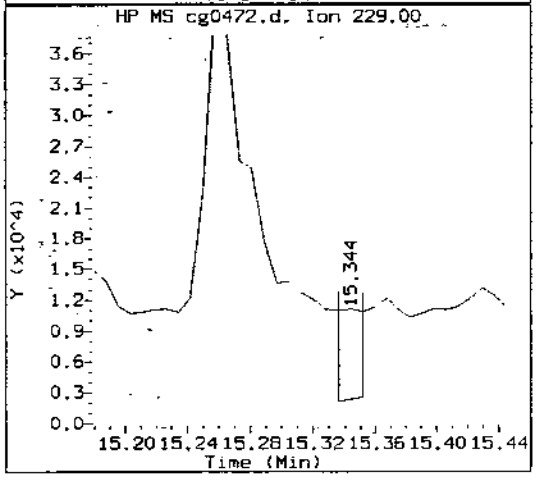
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0472.d
Injection date and time: 15-JUL-2011 04:17

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

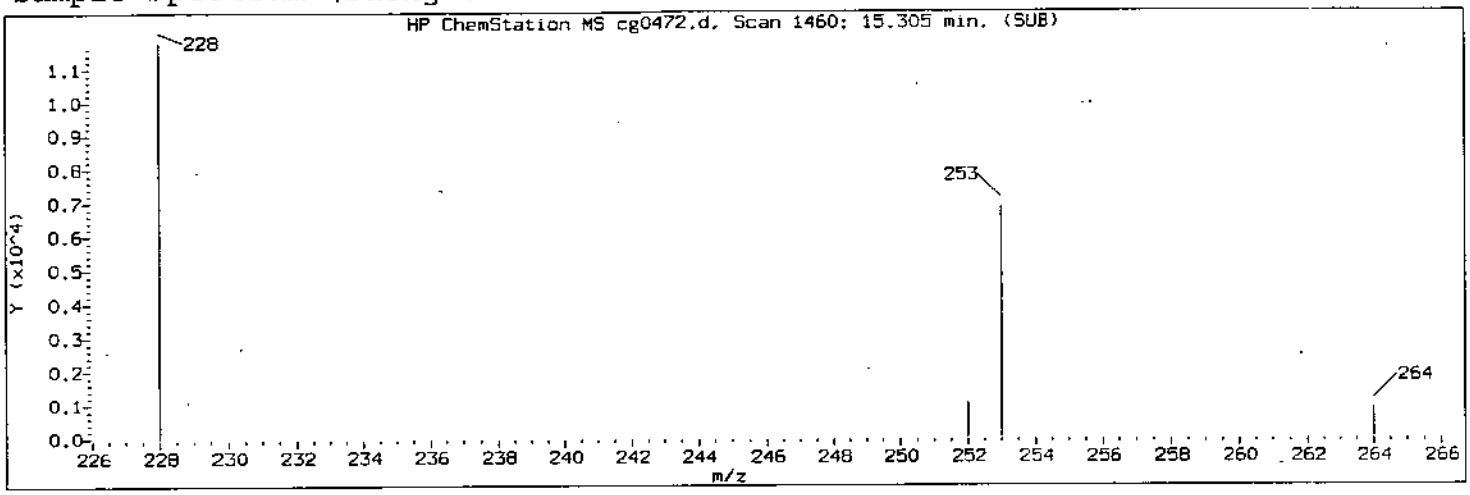
Sample Name: XXXXX

Lab Sample ID: 6339368

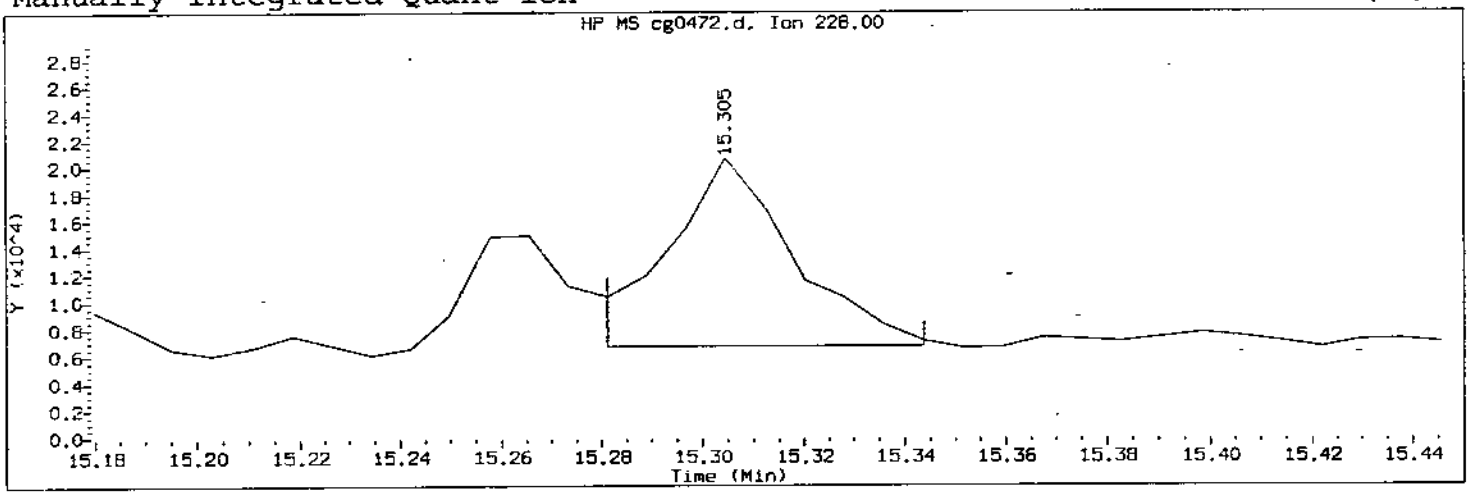
Compound Number	: 43
Compound Name	: Chrysene
Scan Number	: 1460
Retention Time (minutes)	: 15.305
Quant Ion	: 228.0
Area (flag)	: 24496 M
Concentration (ng/ul)	: 0.0336

USF03 8654

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

Compound Number	:	43
Compound Name	:	Chrysene
Scan Number	:	1460
Retention Time (minutes)	:	15.305
Quant Ion	:	228
Area (flag)	:	24496 M
Concentration (ng/ul)	:	0.0336
Integration start scan	:	1456 Integration stop scan: 1464
Y at integration start	:	6704 Y at integration end: 6704

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____ JUL 15 2011

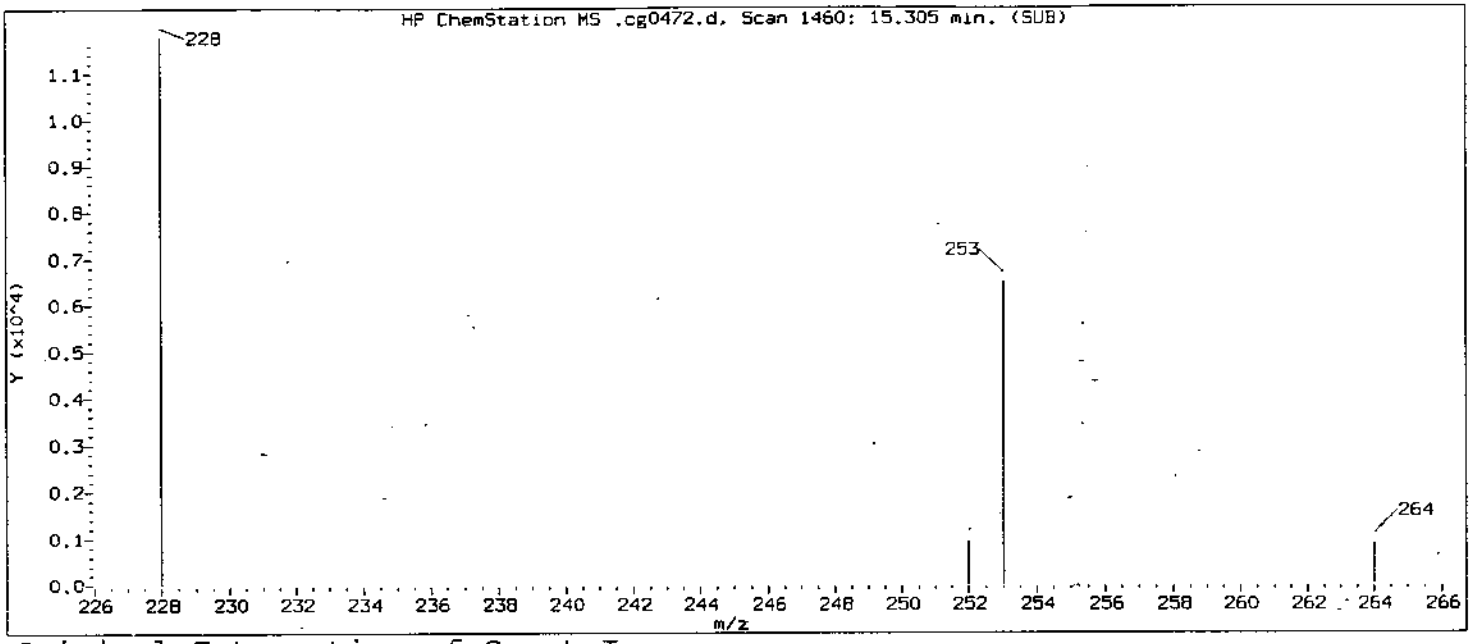
GC/MS audit/management approval: _____ Mark A. Ratcliff Senior Specialist JUL 19 2011

Joe Gambler Senior Chemist

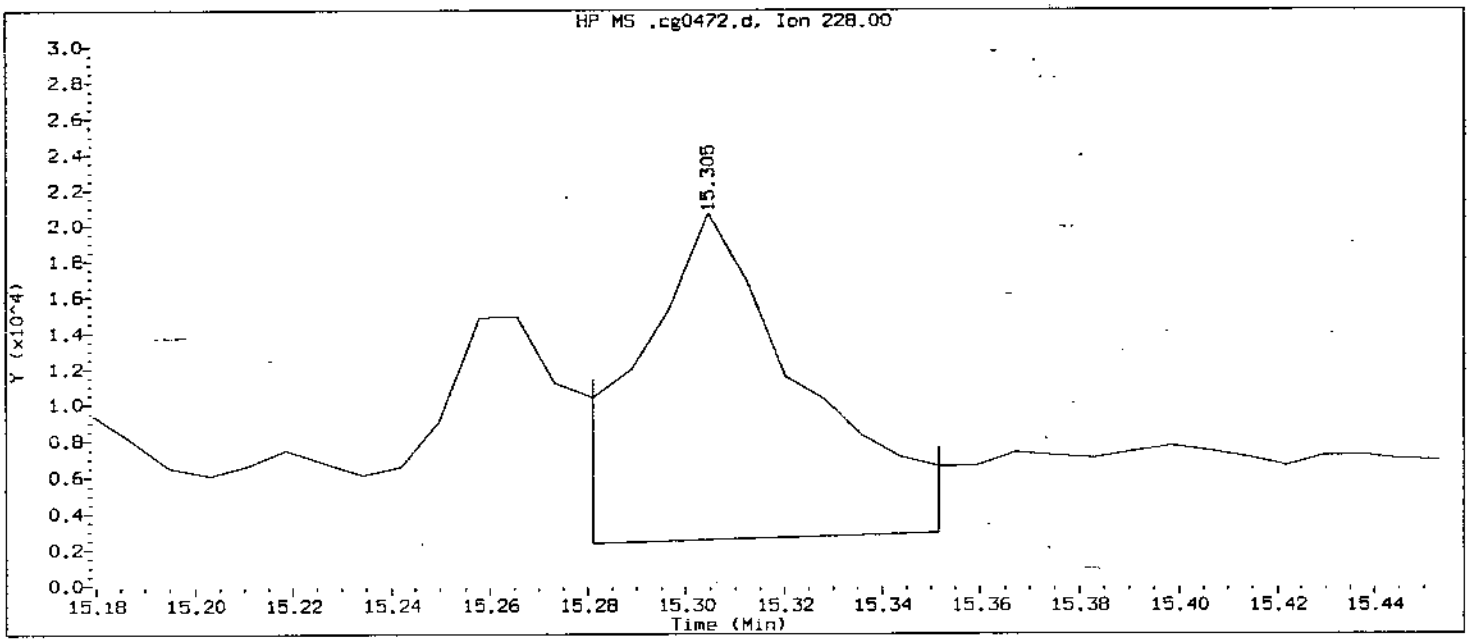
USF03 0655

Manual Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 Automation

Sample Name: XXXXX Lab Sample ID: 6339368

JUL 15 2011

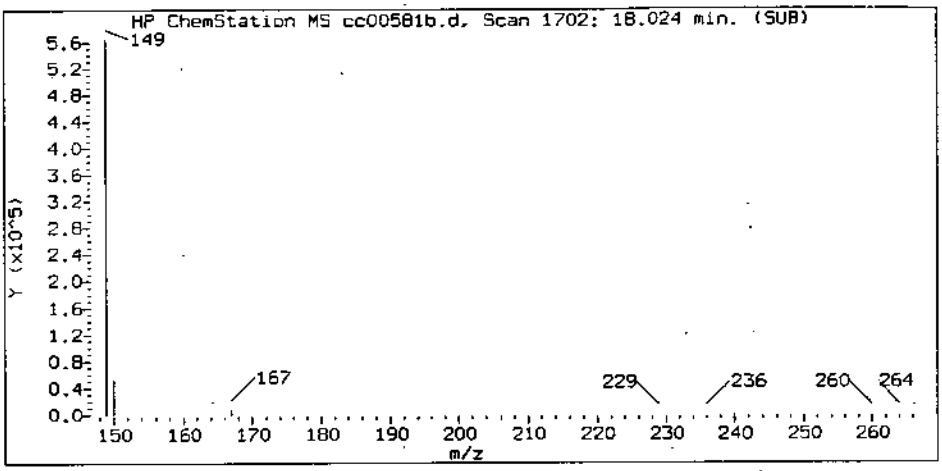
Joe Gambler
Senior Chemist

USF03 0656

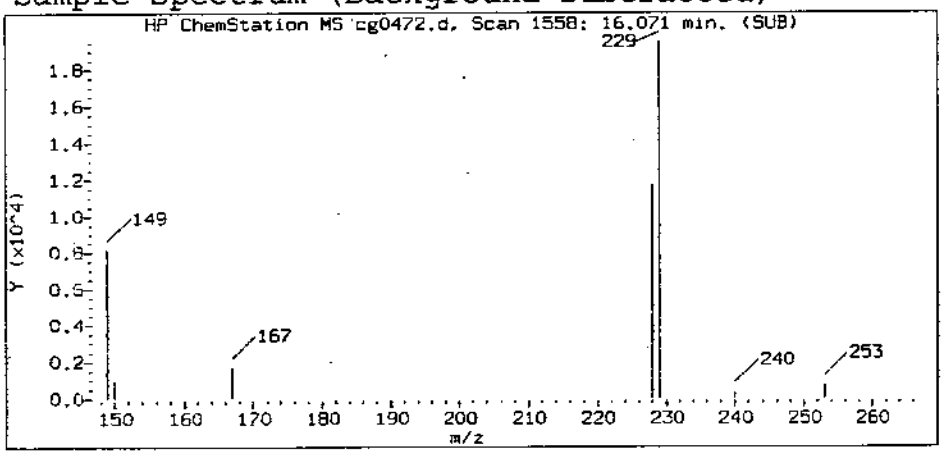
Compound Number	:	43
Compound Name	:	Chrysene
Scan Number	:	1460
Retention Time (minutes)	:	15.305
Quant Ion	:	228
Area	:	42510
Concentration (ng/ul)	:	0.0583
Integration start scan	:	1456
Integration stop scan	:	1465
Y at integration start	:	2371
Y at integration end	:	2923

Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

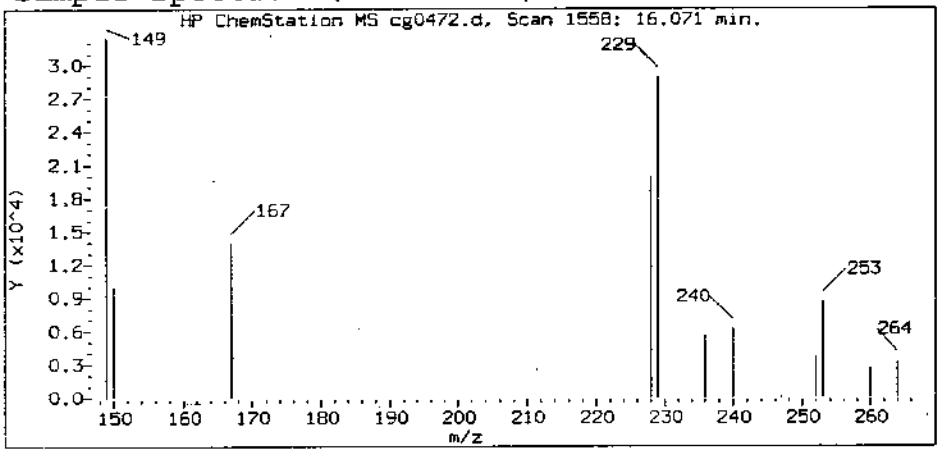
Reference Standard Spectrum for Di-n-octylphthalate

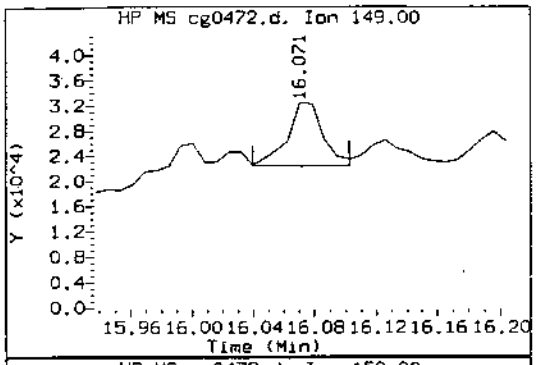


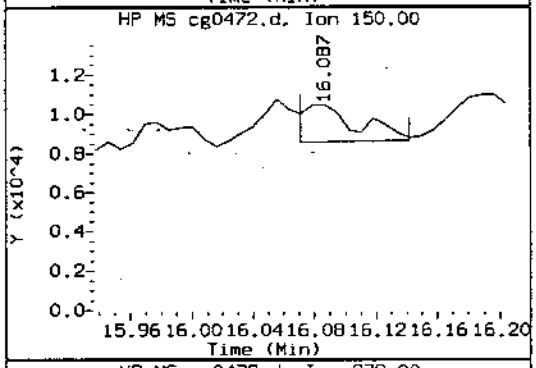
Sample Spectrum (Background Subtracted)

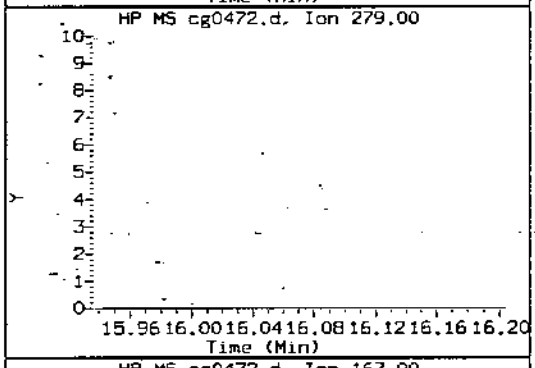


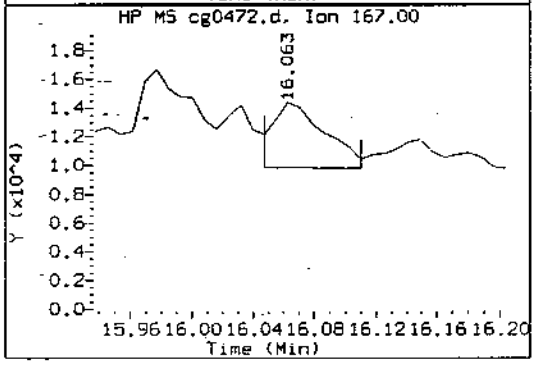
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

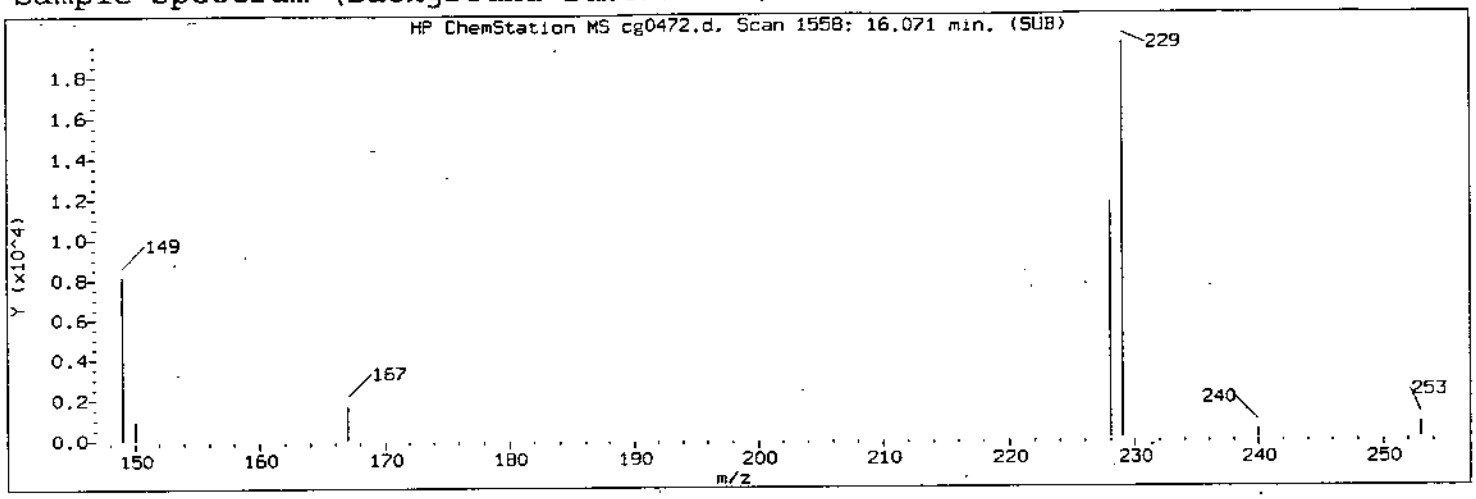
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

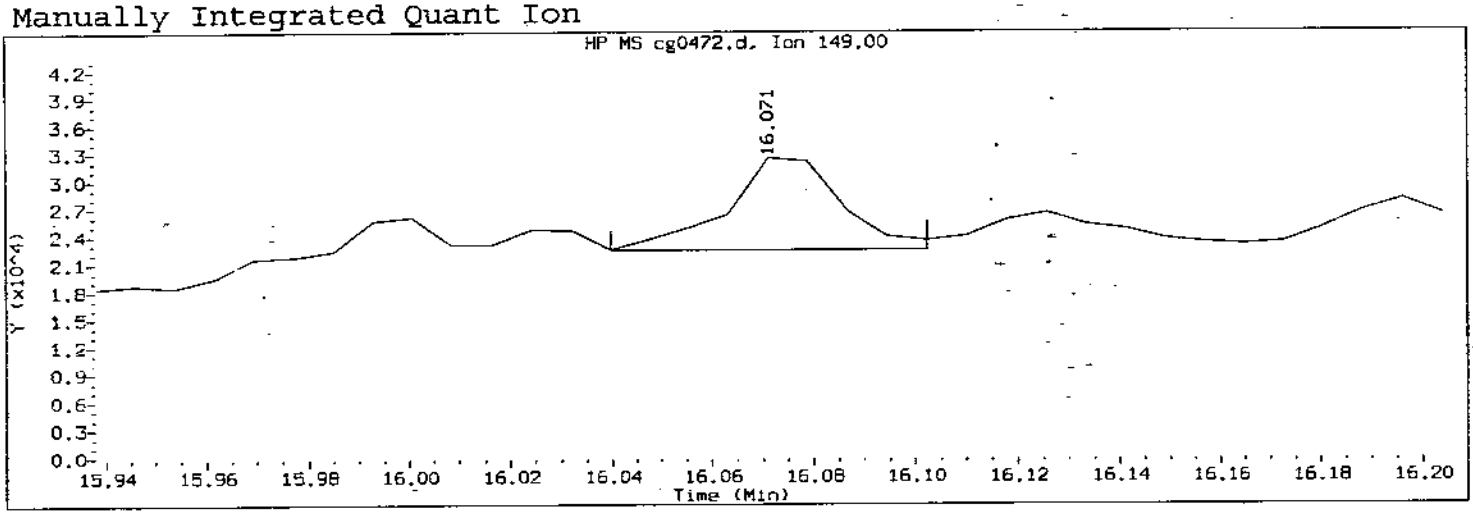
Compound Number	: 44
Compound Name	: Di-n-octylphthalate
Scan Number	: 1558
Retention Time (minutes)	: 16.071
Quant Ion	: 149.0
Area (flag)	: 15886 M
Concentration (ng/ul)	: 0.1891

USF03 8657

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

Compound Number : 44
Compound Name : Di-n-octylphthalate
Scan Number : 1558
Retention Time (minutes): 16.071
Quant Ion : 149
Area (flag) : 15886 M
Concentration (ng/ul) : 0.1891
Integration start scan : 1553 Integration stop scan: 1561
Y at integration start : 22478 Y at integration end: 22478

Reason for manual integration (circle one): missed peak improper integration

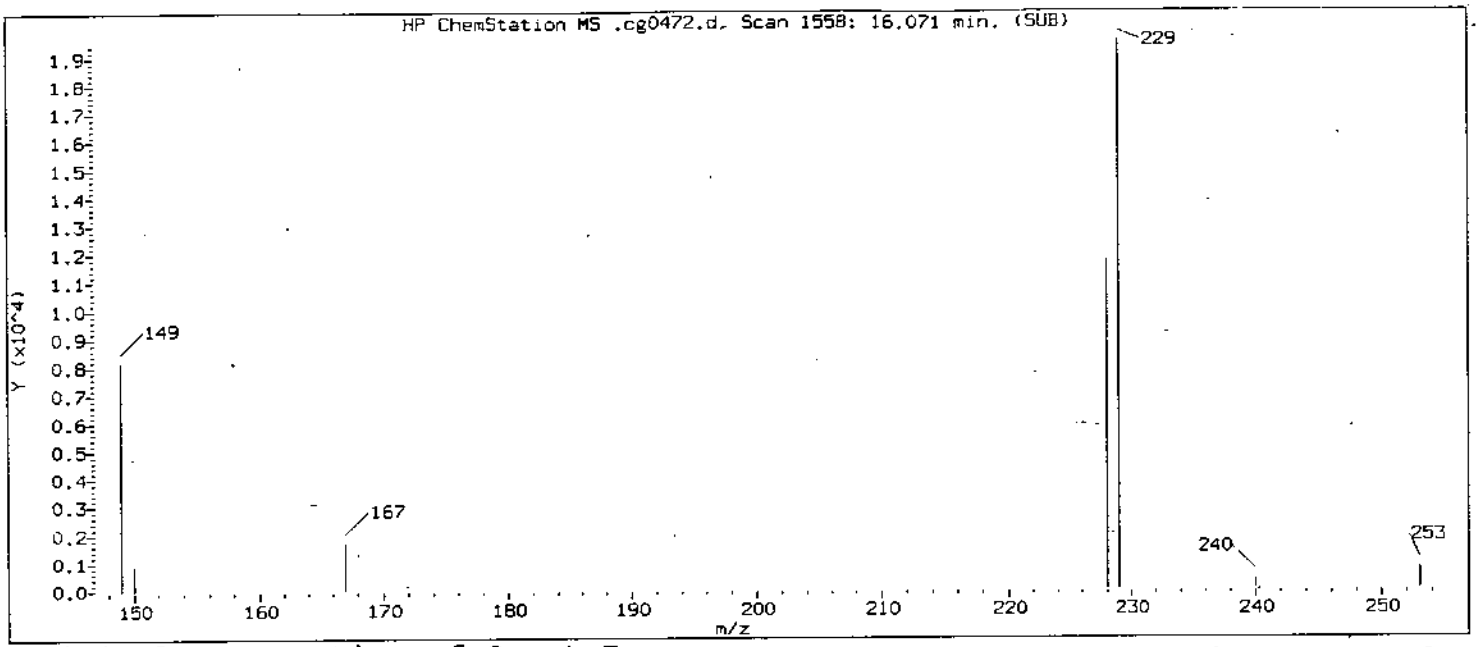
Analyst responsible for change: _____
JUL 15 2011 Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: _____
Joe Gambler
Senior Chemist
JUL 19 2011

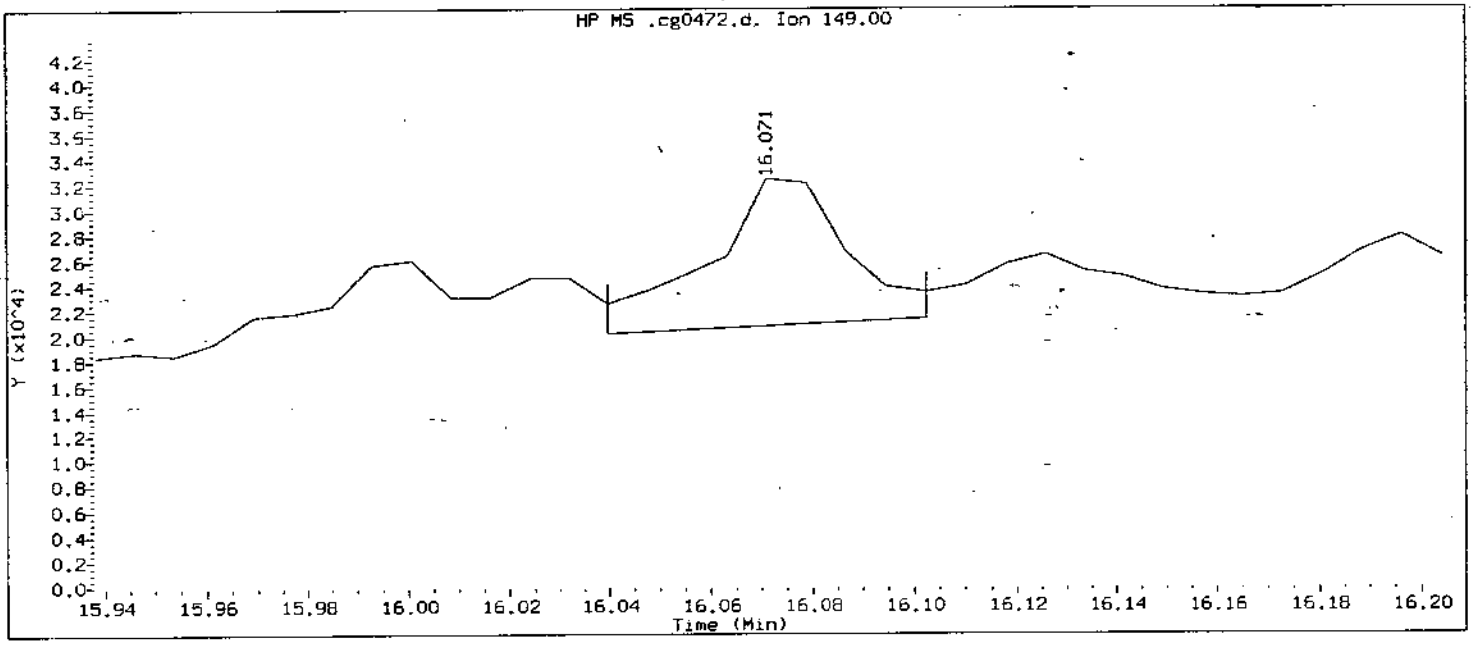
USP03 0658

Manual Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 Automation

Sample Name: XXXXX Lab Sample ID: 6339368

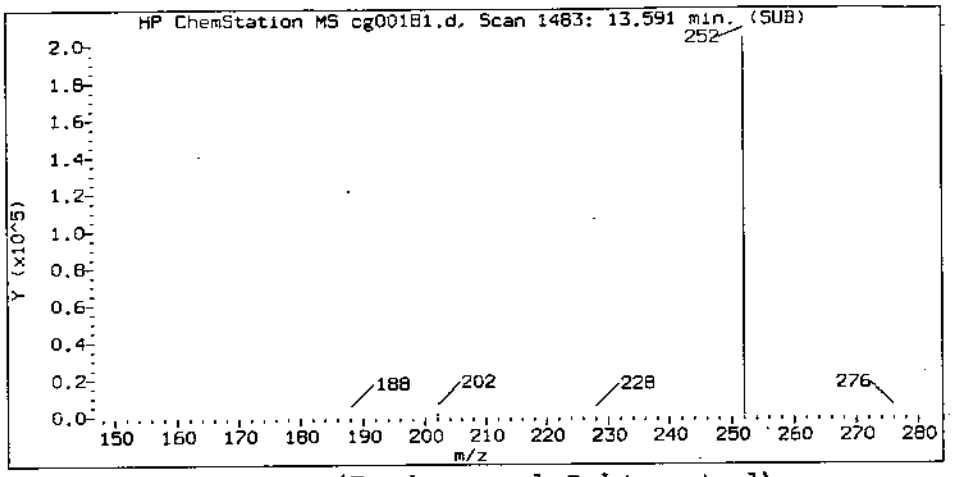
Compound Number : 44
Compound Name : Di-n-octylphthalate
Scan Number : 1558
Retention Time (minutes): 16.071
Quant Ion : 149
Area : 22032
Concentration (ng/ul) : 0.1953
Integration start scan : 1553 Integration stop scan: 1561
Y at integration start : 20198 Y at integration end: 21351

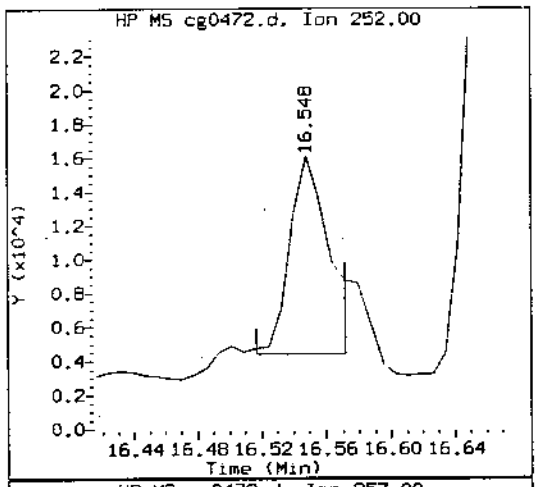
JUL 15 2011

Joe Gambler
Senior Chemist

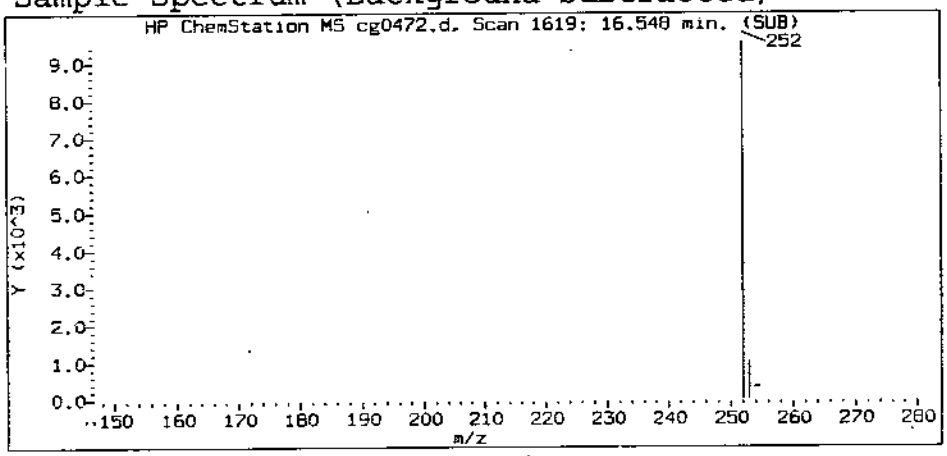
Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

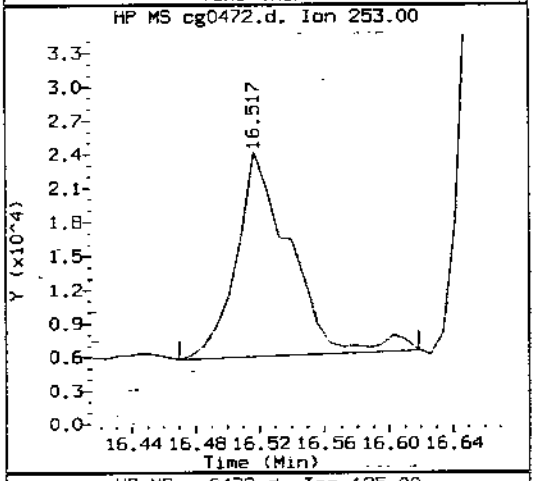
Reference Standard Spectrum for Benzo(b)fluoranthene



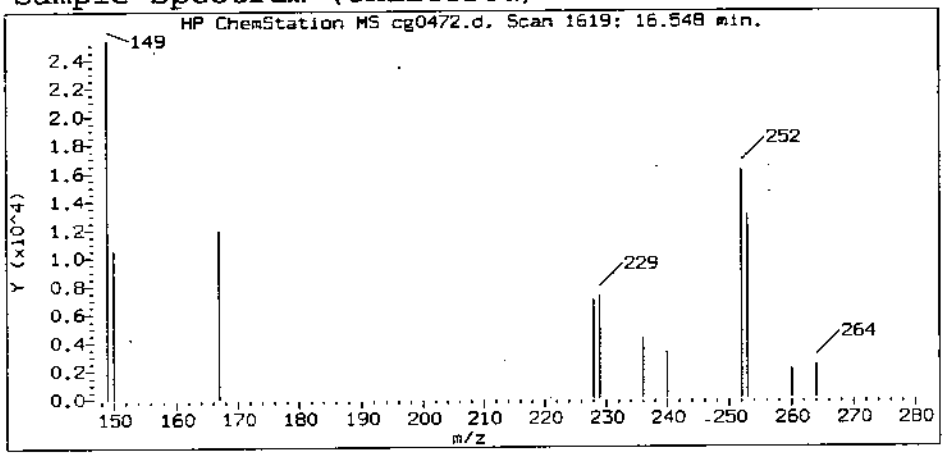


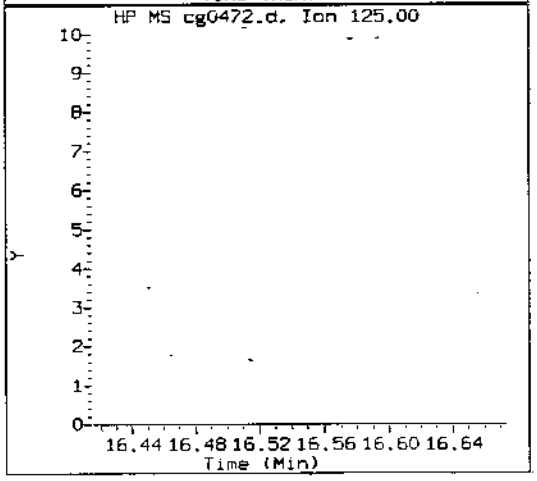
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0472.d
Injection date and time: 15-JUL-2011 04:17

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX

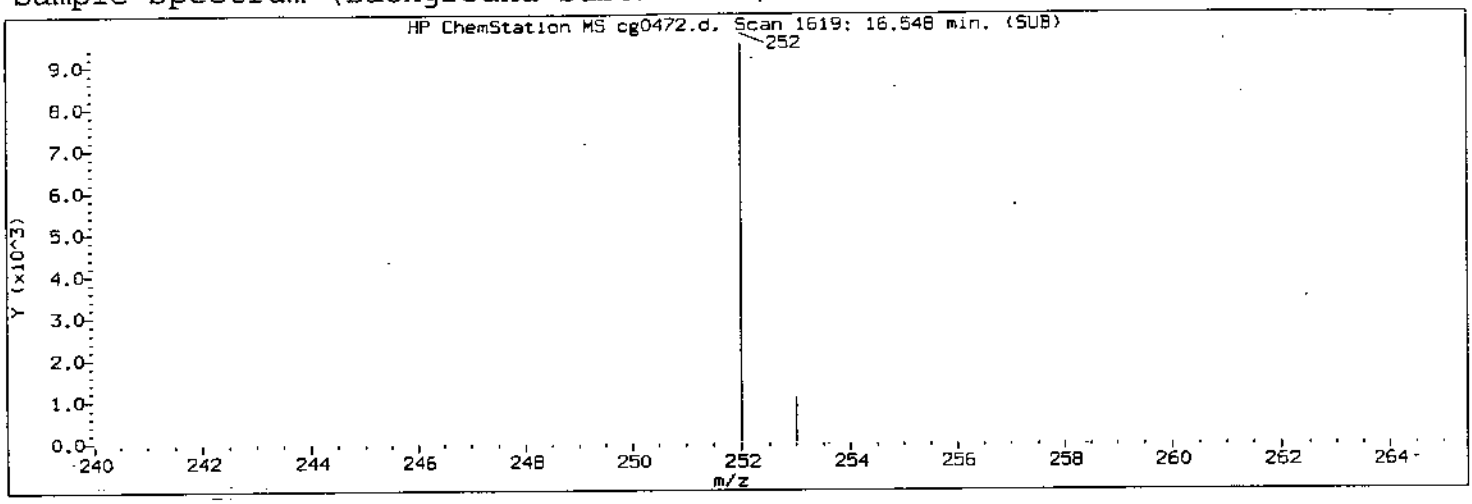
Lab Sample ID: 6339368

Compound Number	: 45
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1619
Retention Time (minutes)	: 16.548
Quant Ion	: 252.0
Area (flag)	: 19806 M
Concentration (ng/ul)	: 0.0337

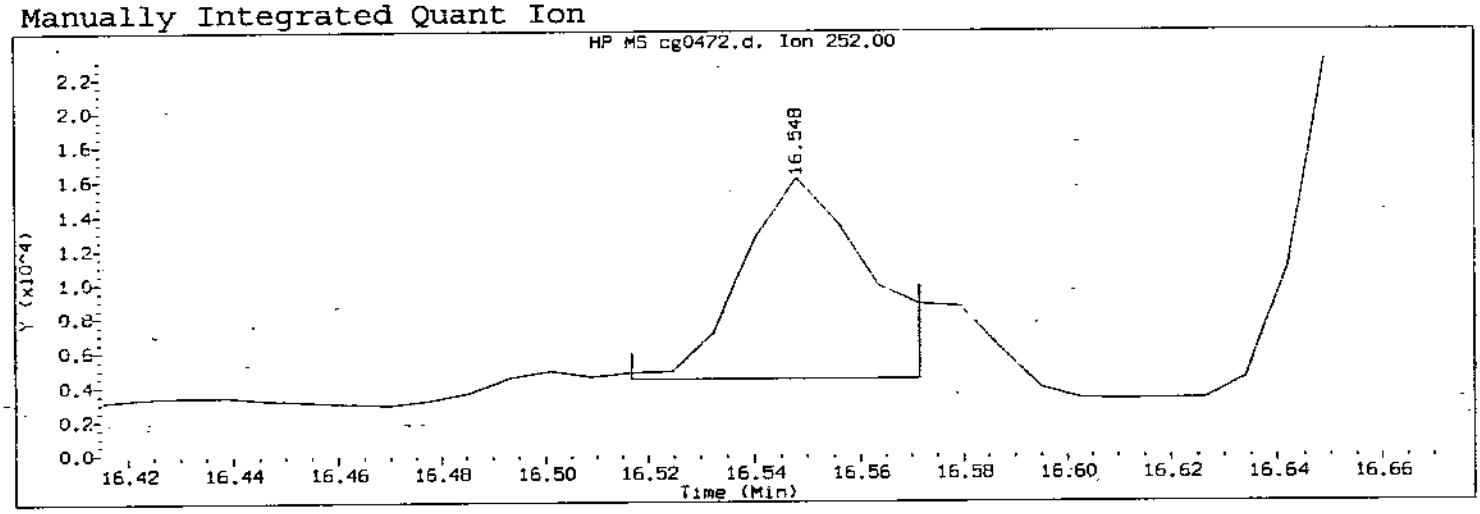
USPB 8669

Hit Data Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:05

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:05 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339368

Compound Number	:	45
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1619
Retention Time (minutes)	:	16.548
Quant Ion	:	252
Area (flag)	:	19806 M
Concentration (ng/ul)	:	0.0337
Integration start scan	:	1614 Integration stop scan: 1621
Y at integration start	:	4407 Y at integration end: 4407

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

JUL 15 2011

GC/MS audit/management approval: _____

USF03 0661

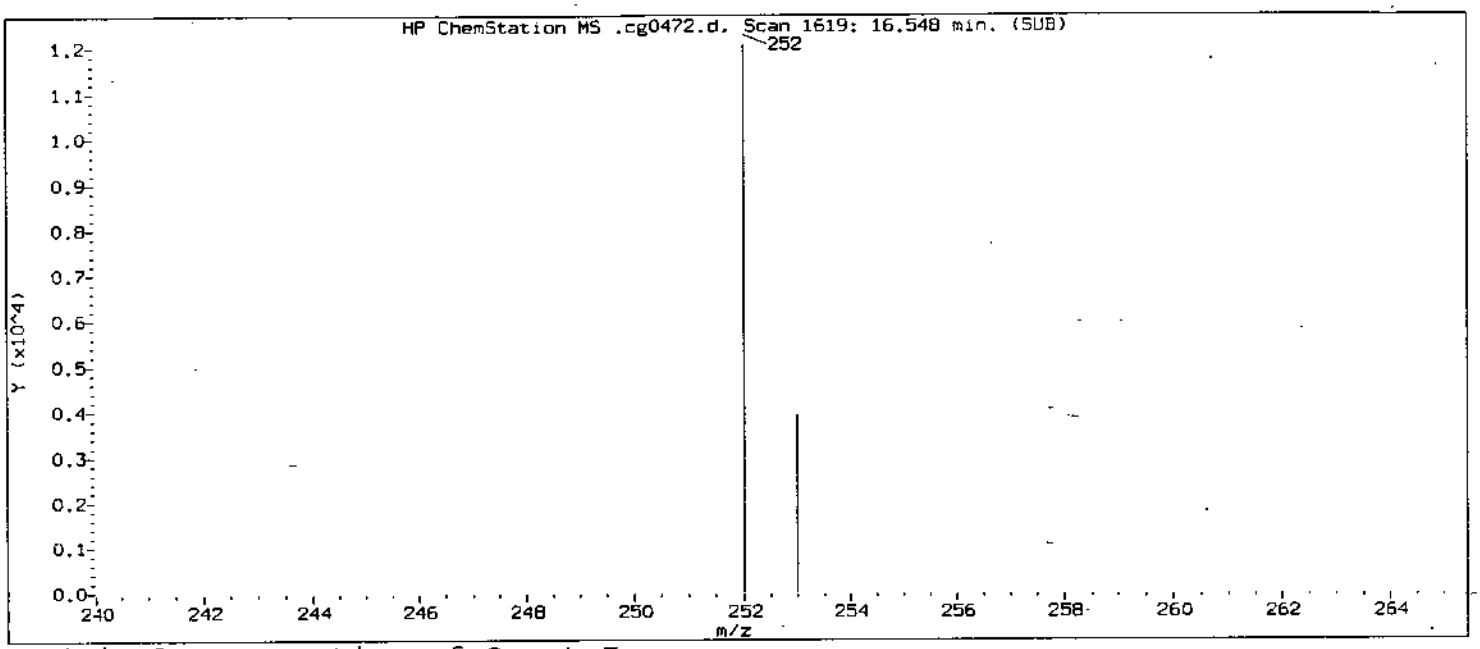
Joe Gambler
Senior Chemist

Mark A. Ratcliff
Senior Specialist

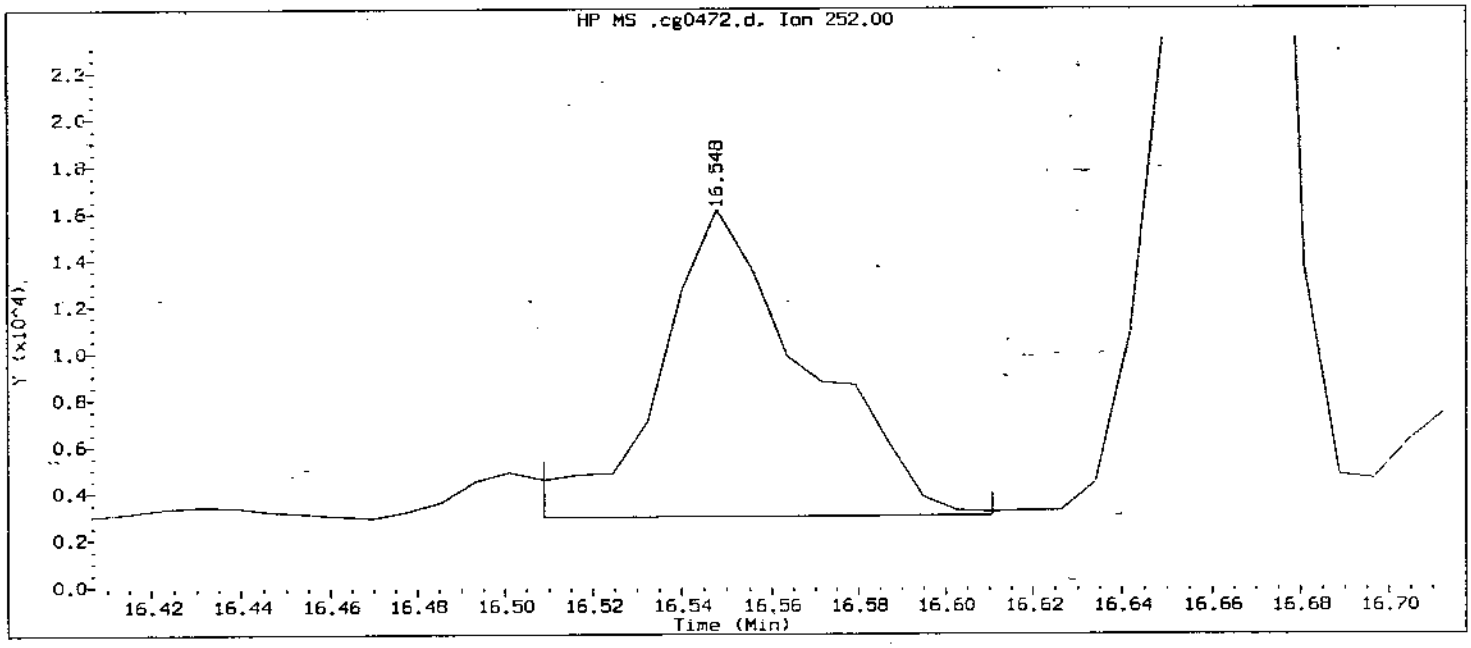
JUL 19 2011

Manual Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0472.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:17 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 Automation

Sample Name: XXXXX Lab Sample ID: 6339[illegible]

JUL 15 2011

Joe Gambler
Senior Chemist

USF03 8662

Compound Number	: 45	
Compound Name	: Benzo(b)fluoranthene	
Scan Number	: 1619	
Retention Time (minutes)	: 16.548	
Quant Ion	: 252	
Area	: 30173	
Concentration (ng/ul)	: 0.0513	
Integration start scan	: 1613	Integration stop scan: 1626
Y at integration start	: 2959	Y at integration end: 3004

Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0472.d, generated on 07/15/2011 at 06:06

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339370

Data file: /chem/HP10623.i/11jul14a.b/cg0473.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 04:48 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.519(0.000)	543	152.0	154174(1)	1.00	
12) Naphthalene-d8	8.024(0.000)	707	136.0	619602(2)	1.00	
19) Acenaphthene-d10	10.178(-0.011)	909	164.0	337219(5)	1.00	
30) Phenanthrene-d10	12.005(0.000)	1094	188.0	525971(5)	1.00	
42) Chrysene-d12	15.273(0.000)	1456	240.0	493586(23)	1.00	
49) Perylene-d12	17.049(-0.016)	1683	264.0	428500(28)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.161(0.000)	82	248311	1.125	112%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.338(0.001)	172	379406	0.921	92%		63 - 129
38) Terphenyl-d14	(5)	13.981(-0.001)	244	295925	0.862	86%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)			Below MDL, Do not report					0.02
14) 2-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
16) 1-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
18) Acenaphthylene	(3)			Below MDL, Do not report					0.01
20) Dimethylphthalate	(3)			Below MDL, Do not report					0.18
21) Acenaphthene	(3)			Below MDL, Do not report					0.02
22) Diethylphthalate	(3)			Below MDL, Do not report					0.18
23) Fluorene	(3)			Below MDL, Do not report					0.02
31) Phenanthrene	(4)			Below MDL, Do not report					0.02
32) Anthracene	(4)			Below MDL, Do not report					0.01
33) Di-n-butylphthalate	(4)	12.715(0.000)	149	44474	0.249	8.22			0.18
35) Fluoranthene	(4)	13.514(-0.001)	202	19833	0.032	1.06			0.02
37) Pyrene	(5)	13.787(0.000)	202	18803	0.024	0.80			0.02
39) Butylbenzylphthalate	(5)	14.572(0.000)	149	106981	0.420	13.86			0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.273(0.000)	149	93591	0.311	10.27			0.18
41) Benzo(a)anthracene	(5)			Below MDL, Do not report					0.02
43) Chrysene	(5)	15.305(0.000)	228	17188	0.026	0.85			0.01
44) Di-n-octylphthalate	(6)	16.032(0.000)	149	7605	0.181	5.98			0.18
45) Benzo(b)fluoranthene	(6)	16.548(0.000)	252	15622	0.028	0.92			0.02
46) Benzo(k)fluoranthene	(6)			Below MDL, Do not report					0.02
48) Benzo(a)pyrene	(6)			Below MDL, Do not report					0.02
51) Indeno(1,2,3-cd)pyrene	(6)			Below MDL, Do not report					0.02
52) Dibenz(a,h)anthracene	(6)			Below MDL, Do not report					0.02
53) Benzo(g,h,i)perylene	(6)			Below MDL, Do not report					0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0663

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339370

Data file: /chem/HP10623.i/11jul14a.b/cg0473.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 04:48 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

Comments:

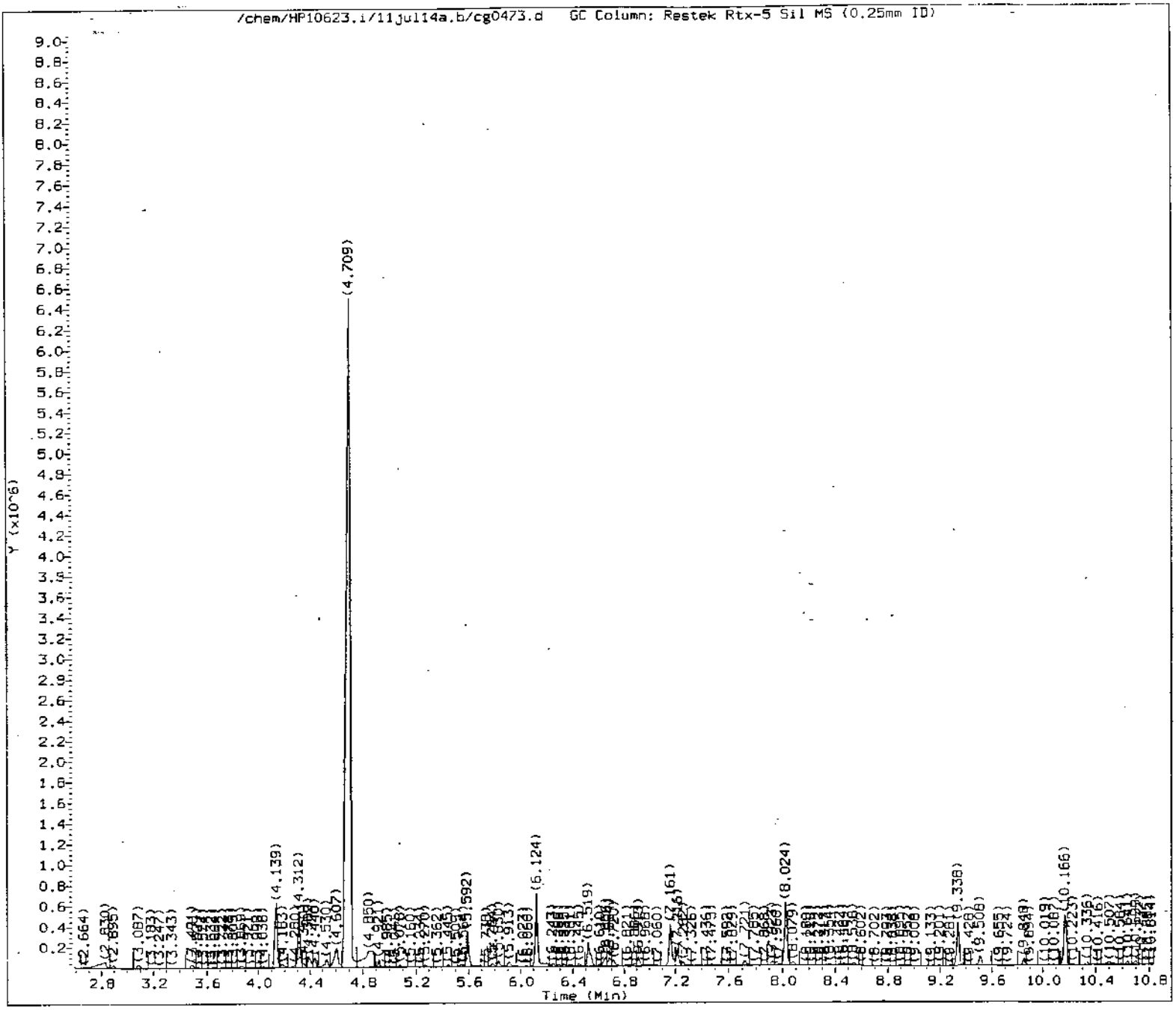
JUL 15 2011

Analyst: Joe Gambler Senior Chemist Date:
Auditor: Date:

Mark A. Ratcliff Senior Specialist

JUL 19 2011

USP03 8664



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

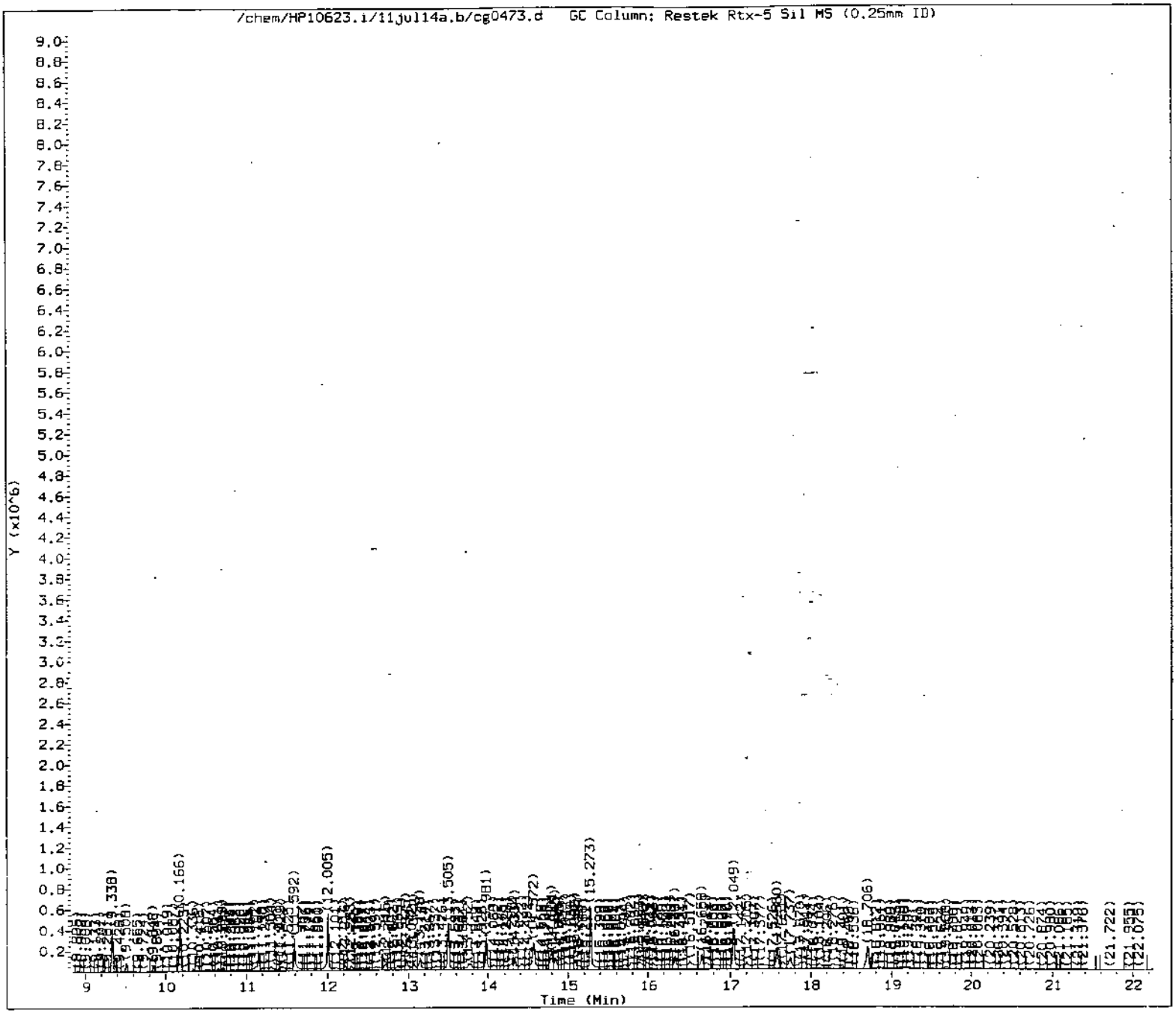
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339370

JUL 15 2011

Joe Gambler
Senior Chemist

USP83 0665



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339370

USF03 8666

JUL 15 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

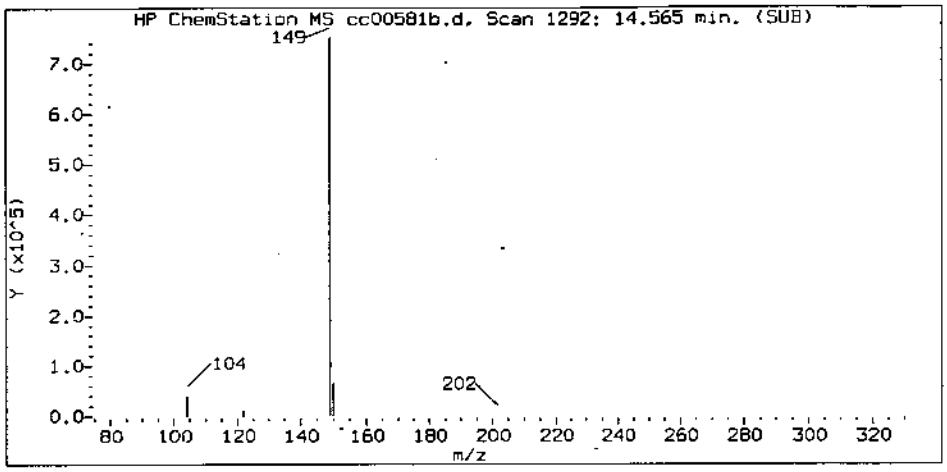
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

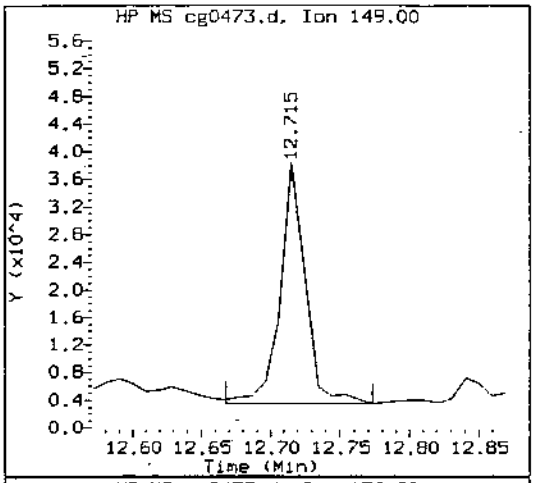
Sample Name: XXXXX Lab Sample ID: 6339370

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.519	152	154174	1.0000
12) Naphthalene-d8	(2)	8.024	136	619602	1.0000
19) Acenaphthene-d10	(3)	10.178	164	337219	1.0000
30) Phenanthrene-d10	(4)	12.005	188	525971	1.0000
33) Di-n-butylphthalate	(4)	12.715	149	44474	0.2490
35) Fluoranthene	(4)	13.514	202	19833	0.0322
37) Pyrene	(5)	13.787	202	18803	0.0243
39) Butylbenzylphthalate	(5)	14.572	149	106981	0.4199
40) bis(2-Ethylhexyl)phthalate	(5)	15.273	149	93591	0.3113
42) Chrysene-d12	(5)	15.273	240	493586	1.0000
43) Chrysene	(5)	15.305	228	17188M	0.0257
44) Di-n-octylphthalate	(6)	16.032	149	7605M	0.1811
45) Benzo(b)fluoranthene	(6)	16.548	252	15622M	0.0280
49) Perylene-d12	(6)	17.049	264	428500	1.0000
10) Nitrobenzene-d5	(2)	7.161	82	248311	1.1247
17) 2-Fluorobiphenyl	(3)	9.338	172	379406	0.9210
38) Terphenyl-d14	(5)	13.981	244	295925	0.8622

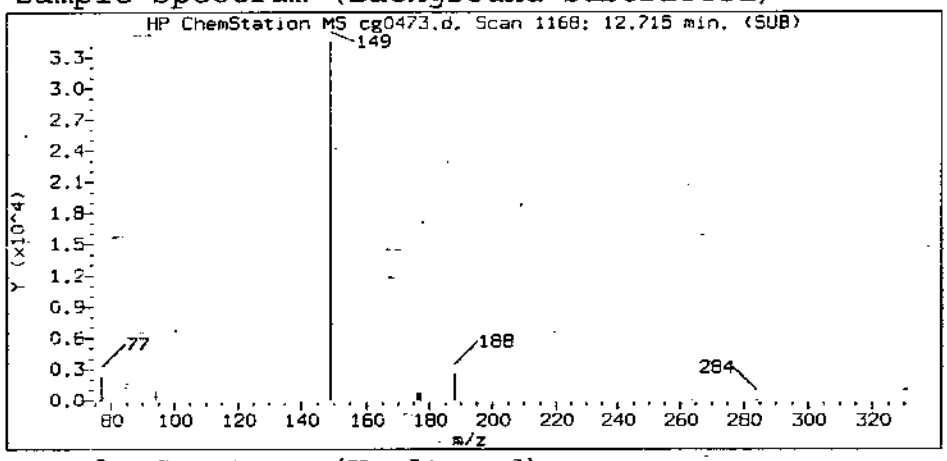
M = Compound was manually integrated. A = User selected an alternate hit

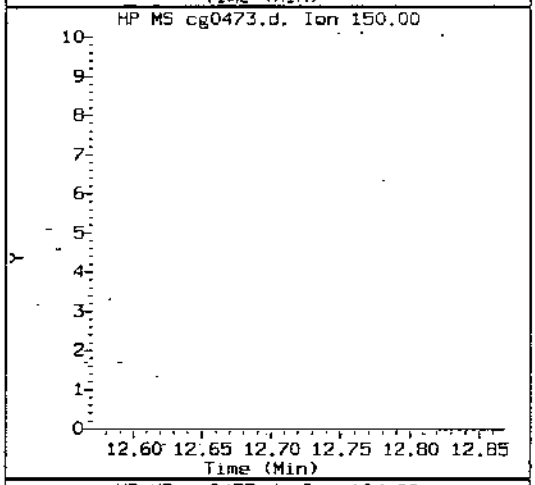
Reference Standard Spectrum for Di-n-butylphthalate



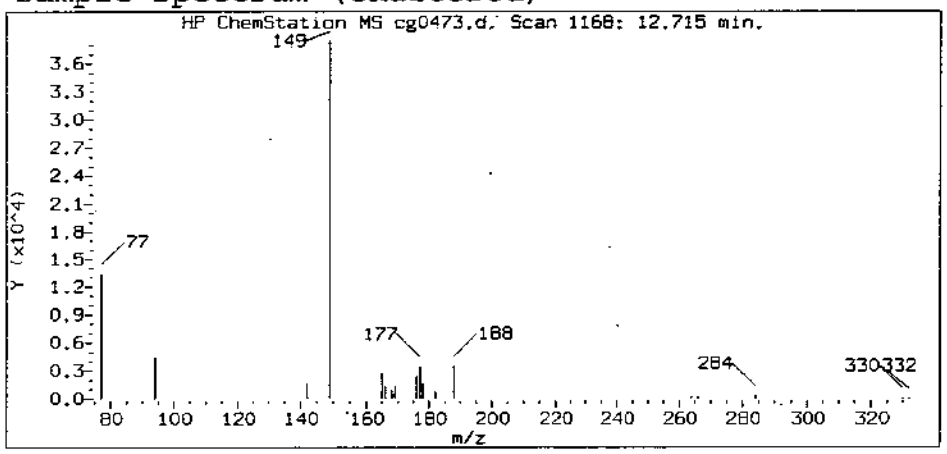


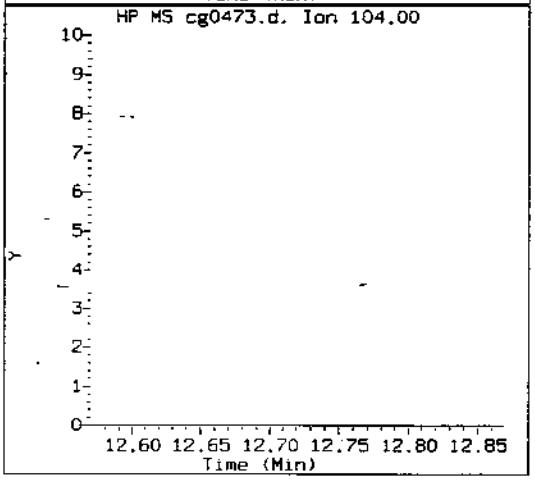
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

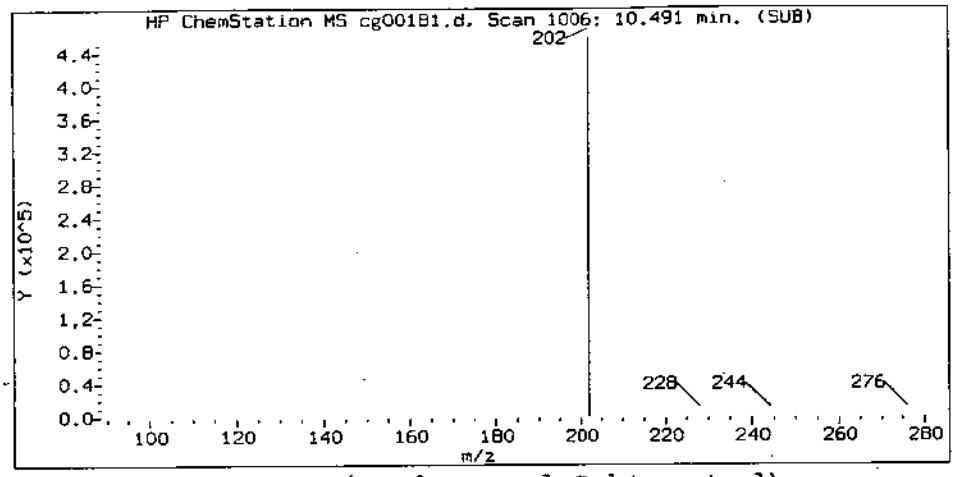
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

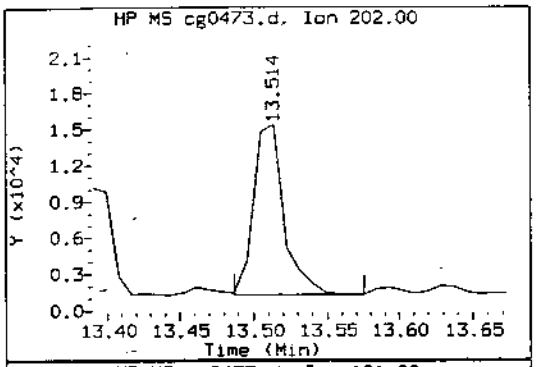
Sample Name: XXXXX Lab Sample ID: 6339370

Compound Number	: 33
Compound Name	: Di-n-butylphthalate
Scan Number	: 1168
Retention Time (minutes)	: 12.715
Quant Ion	: 149.0
Area (flag)	: 44474
Concentration (ng/ul)	: 0.2490

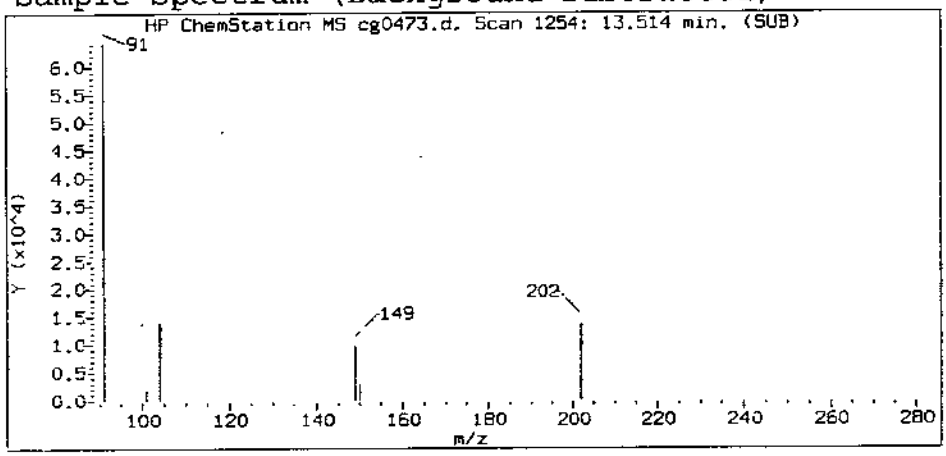
USF03 0668

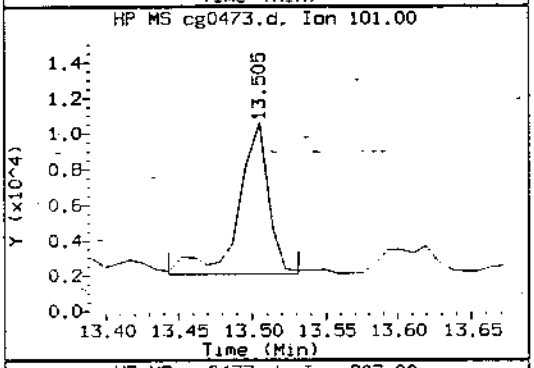
Reference Standard Spectrum for Fluoranthene

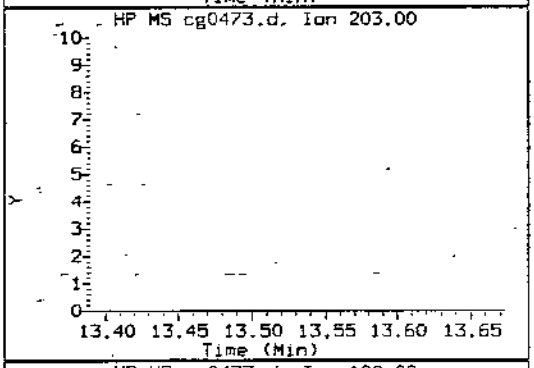




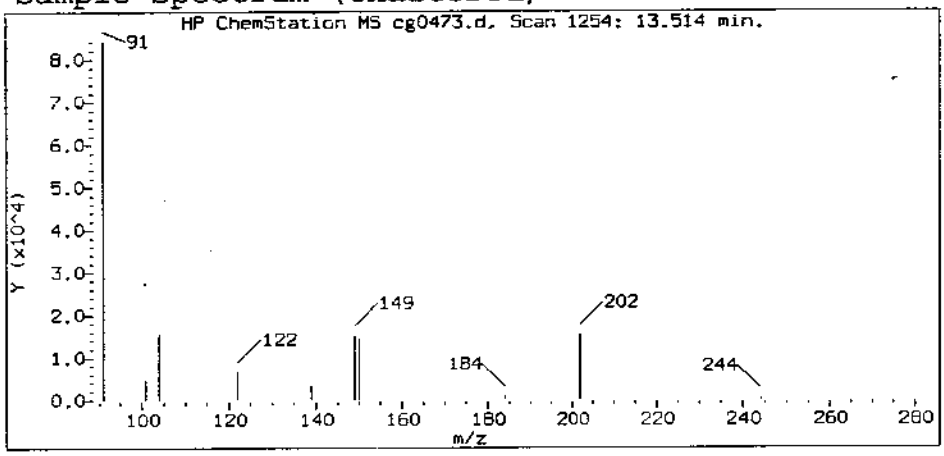
Sample Spectrum (Background Subtracted)

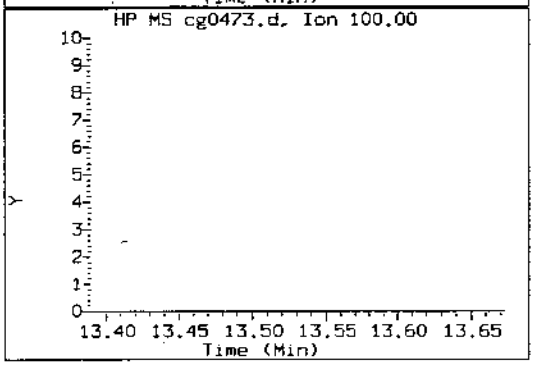






Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0473.d
Injection date and time: 15-JUL-2011 04:48

Instrument ID: HP10623.i
Analyst ID: gjd01970

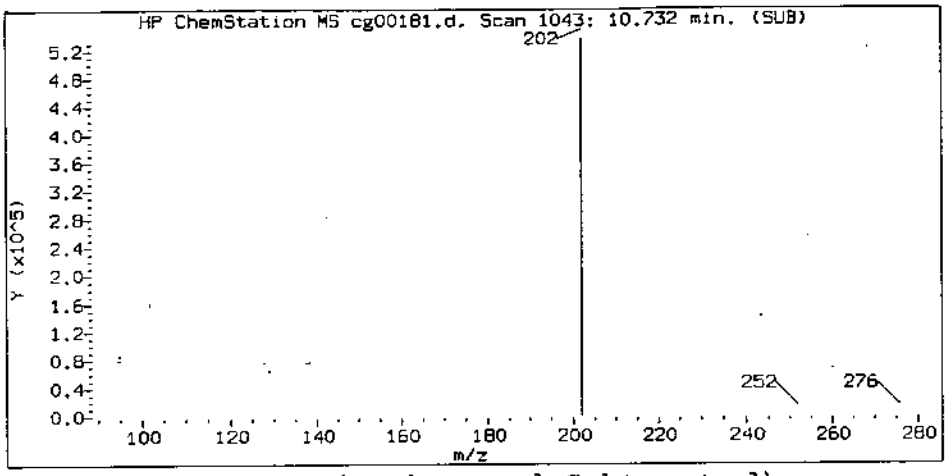
Method used: /chem/HP10623.i/11jul14a.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

Sample Name: XXXXX

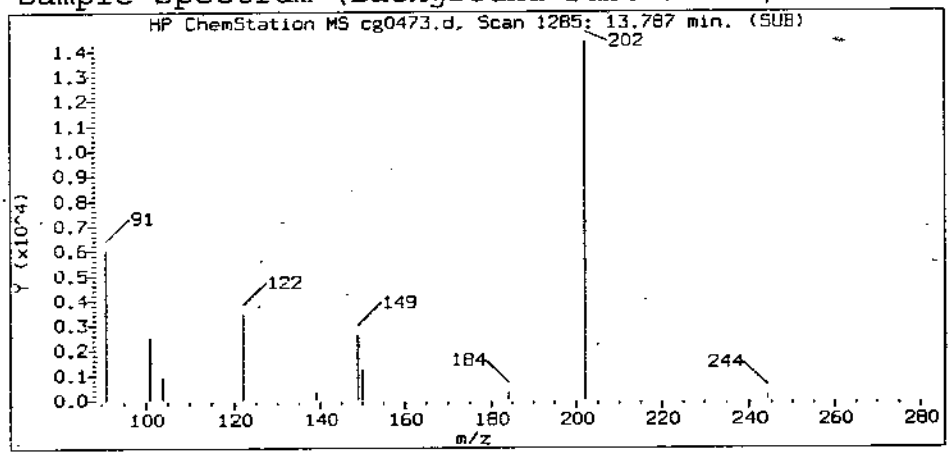
Lab Sample ID: 6339370

Compound Number	: 35
Compound Name	: Fluoranthene
Scan Number	: 1254
Retention Time (minutes)	: 13.514
Quant Ion	: 202.0
Area (flag)	: 19833
Concentration (ng/ul)	: 0.0322

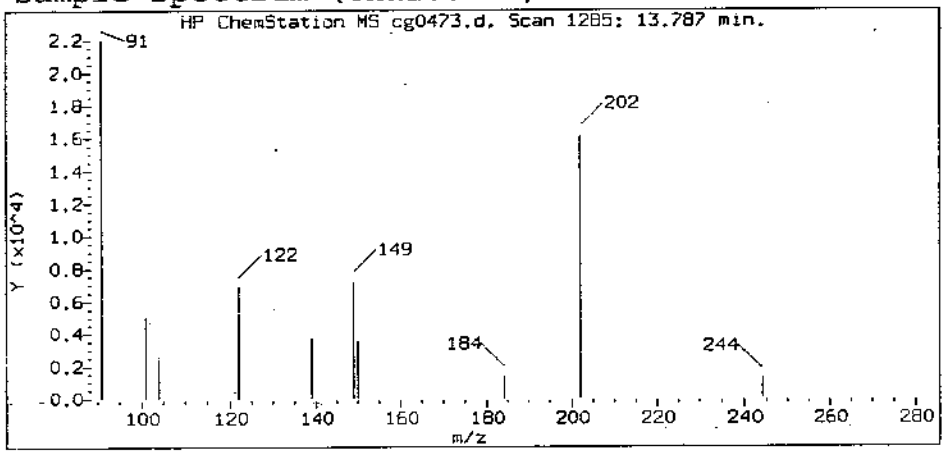
Reference Standard Spectrum for Pyrene

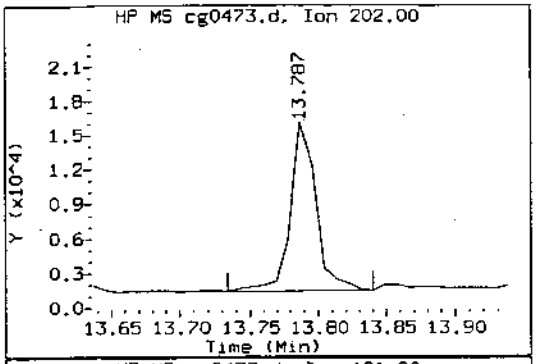


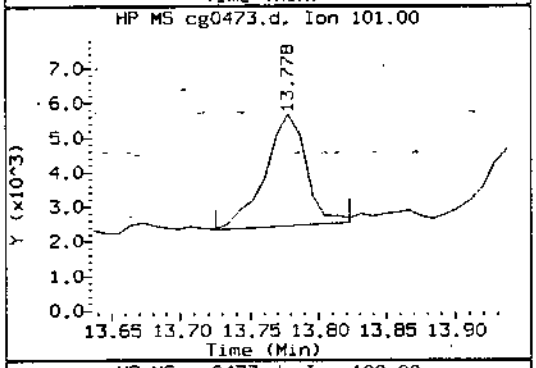
Sample Spectrum (Background Subtracted)

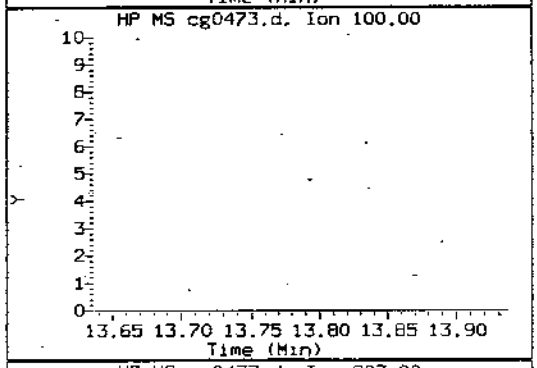


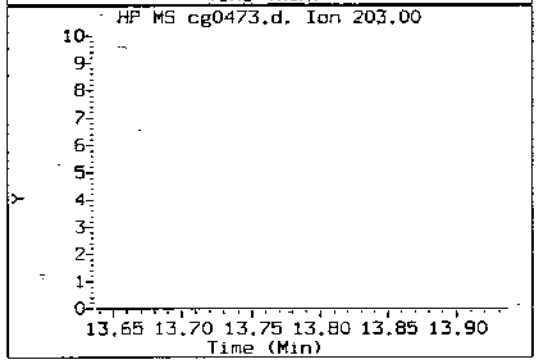
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

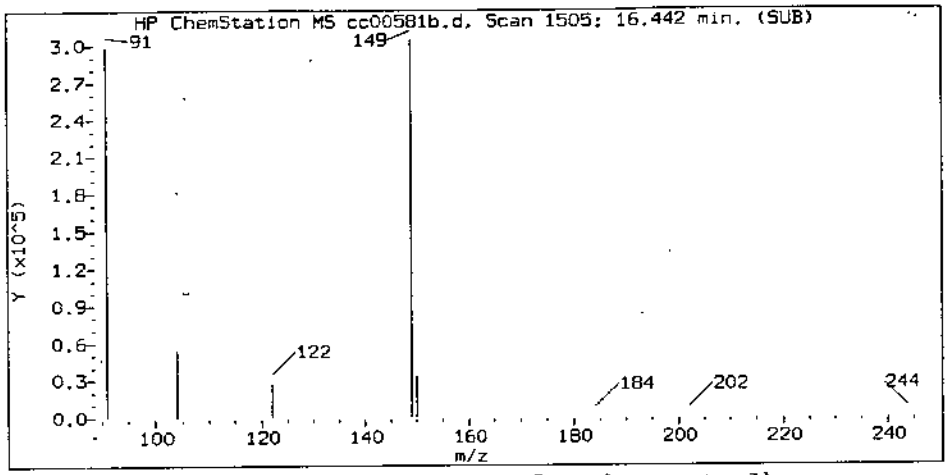
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

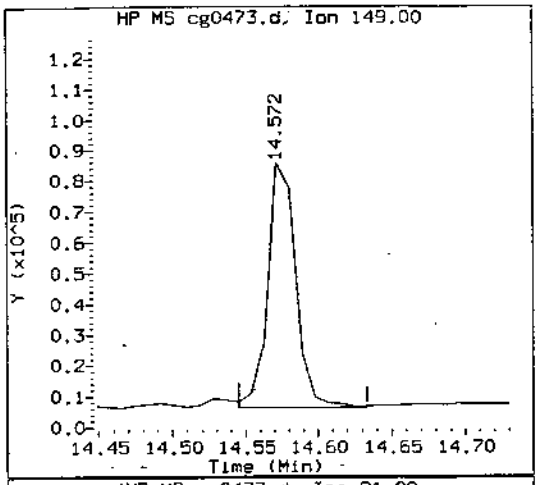
Sample Name: XXXXX Lab Sample ID: 6339370

Compound Number	: 37
Compound Name	: Pyrene
Scan Number	: 1285
Retention Time (minutes)	: 13.787
Quant Ion	: 202.0
Area (flag)	: 18803
Concentration (ng/ul)	: 0.0243

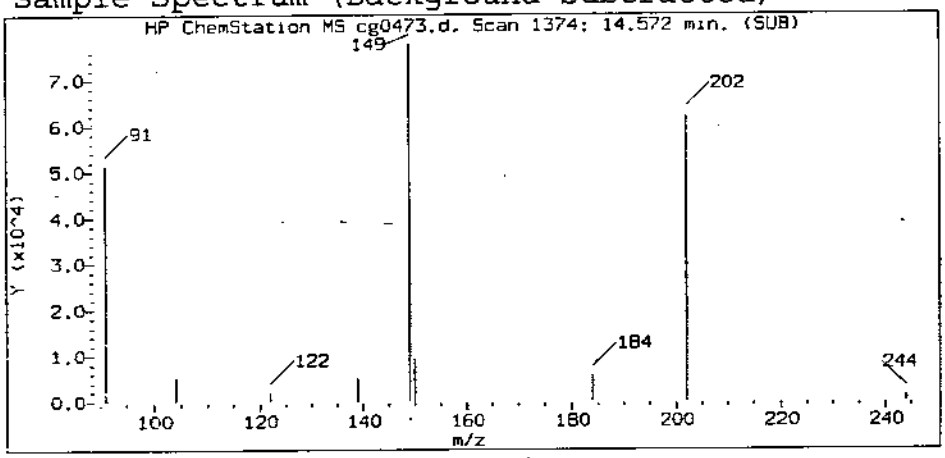
USF03 8679

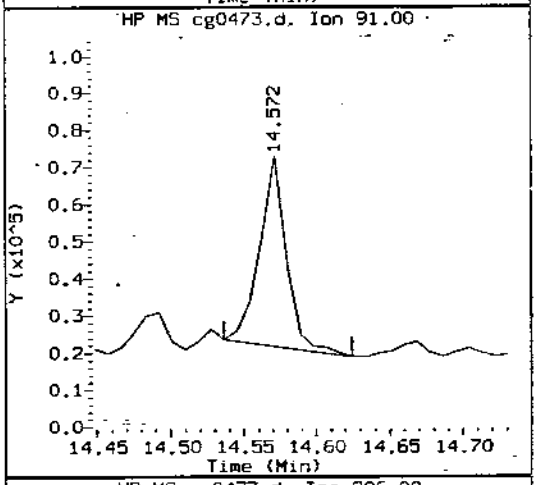
Reference Standard Spectrum for Butylbenzylphthalate



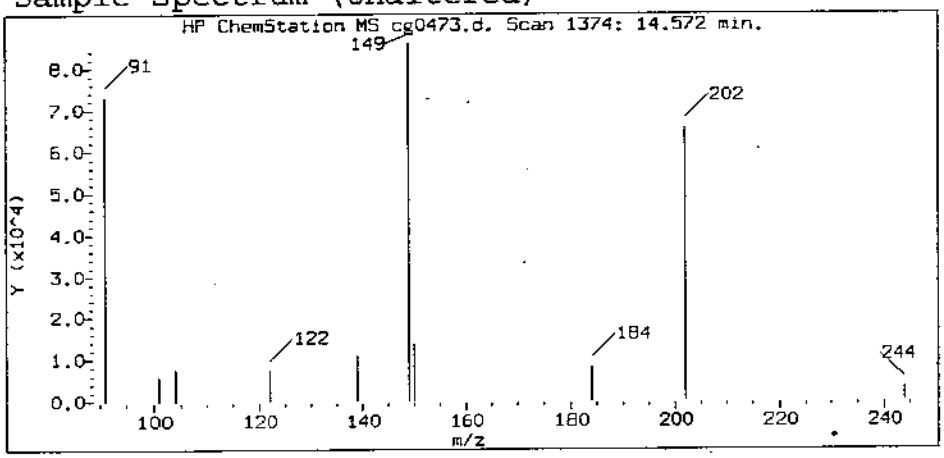


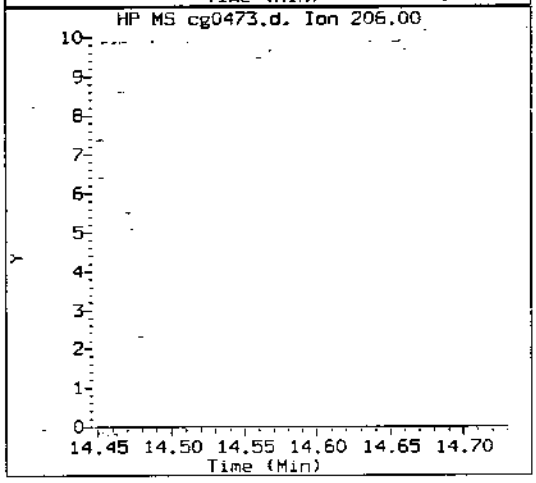
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0473.d
Injection date and time: 15-JUL-2011 04:48

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

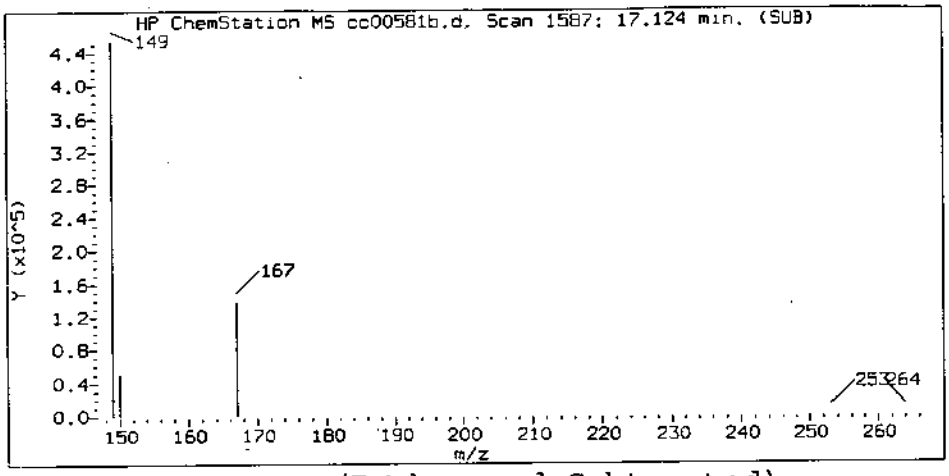
Sample Name: XXXXX

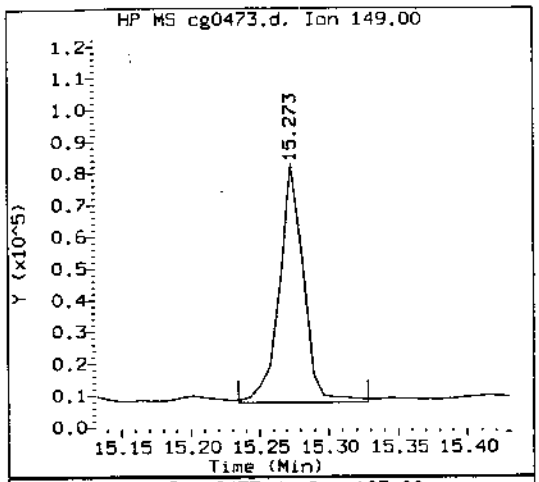
Lab Sample ID: 6339370

Compound Number	: 39
Compound Name	: Butylbenzylphthalate
Scan Number	: 1374
Retention Time (minutes)	: 14.572
Quant Ion	: 149.0
Area (flag)	: 106981
Concentration (ng/ul)	: 0.4199

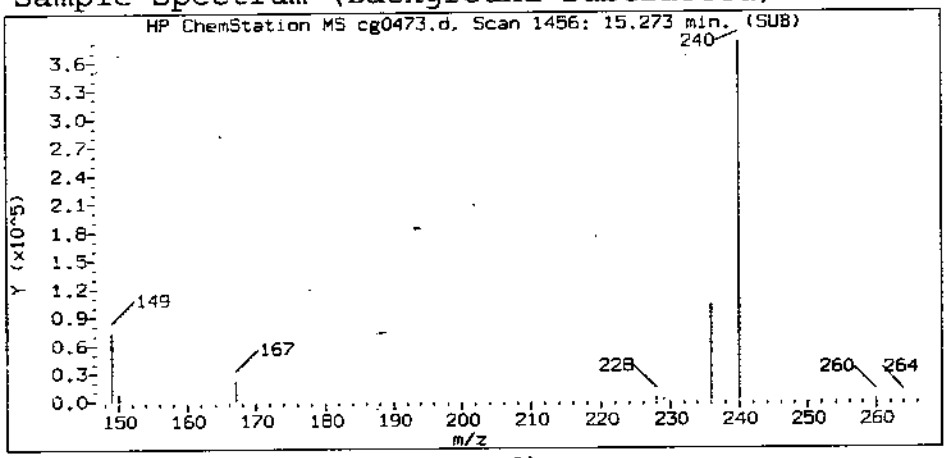
USF03 0571

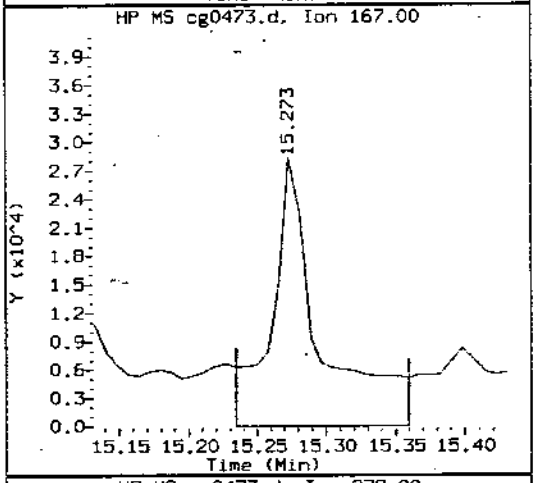
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



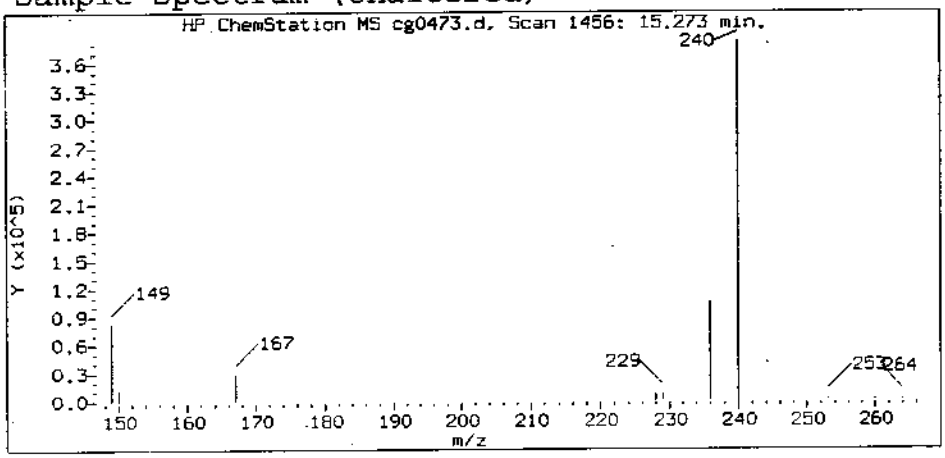


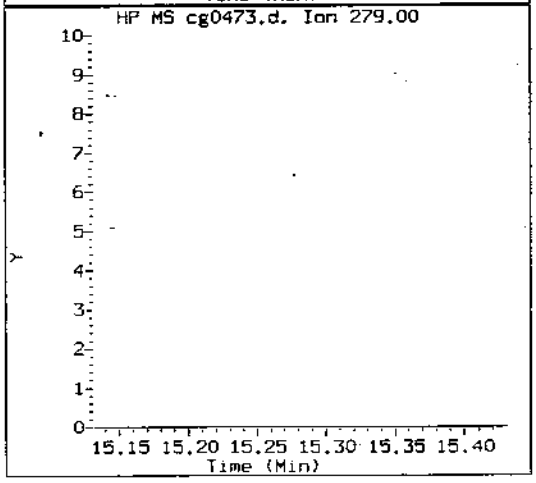
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0473.d
Injection date and time: 15-JUL-2011 04:48

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

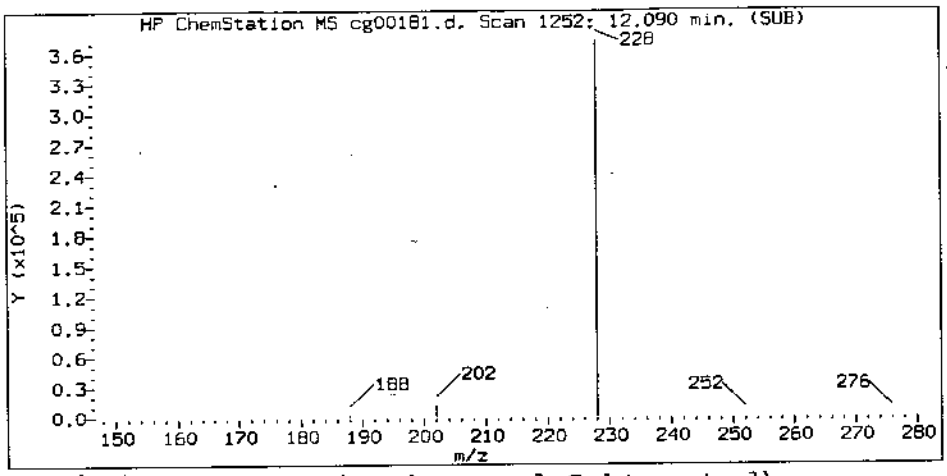
Sample Name: XXXXX

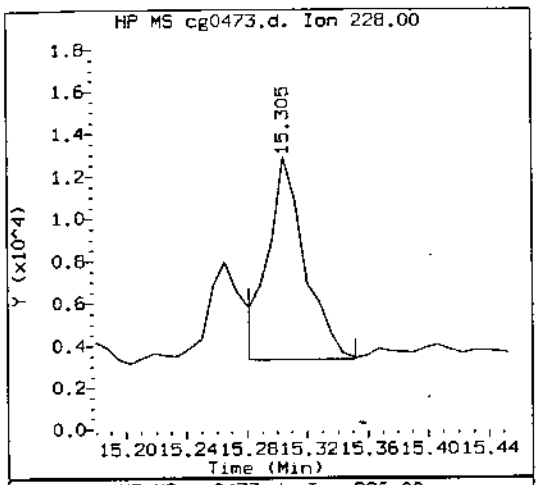
Lab Sample ID: 6339370

Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1456
Retention Time (minutes)	: 15.273
Quant Ion	: 149.0
Area (flag)	: 93591
Concentration (ng/ul)	: 0.3113

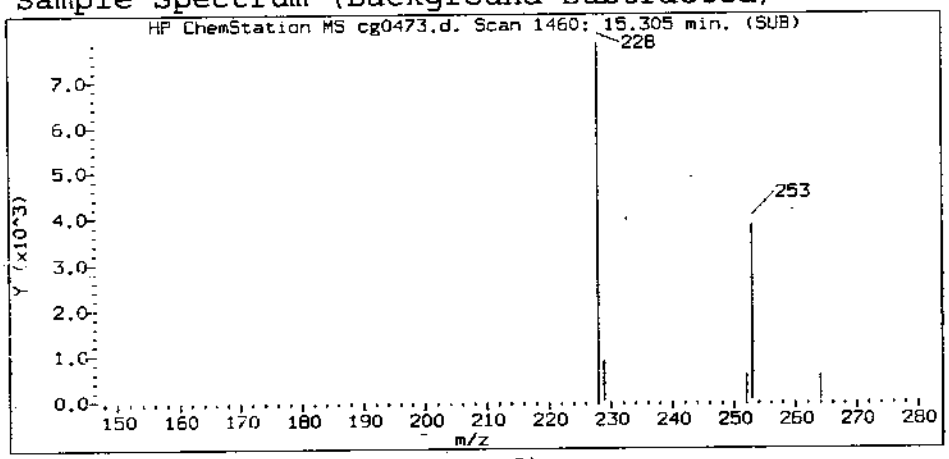
USF03 0672

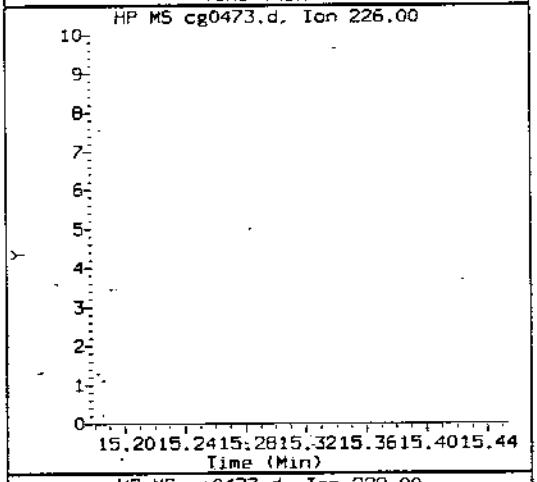
Reference Standard Spectrum for Chrysene



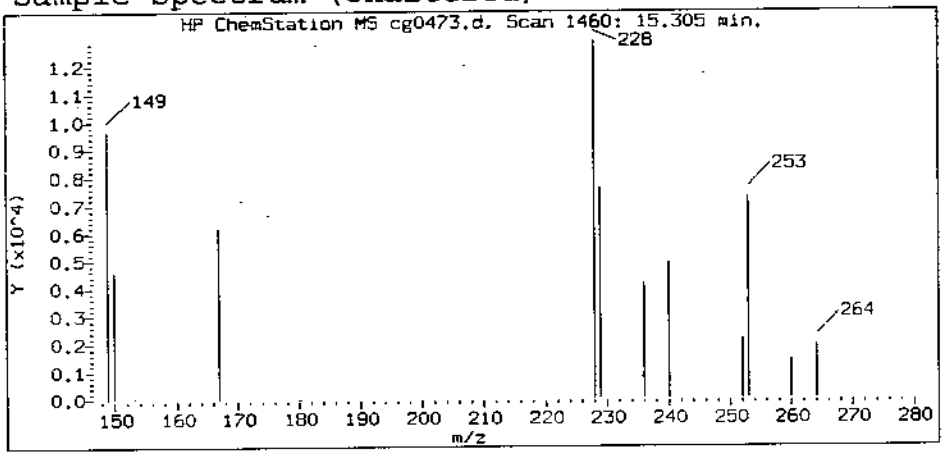


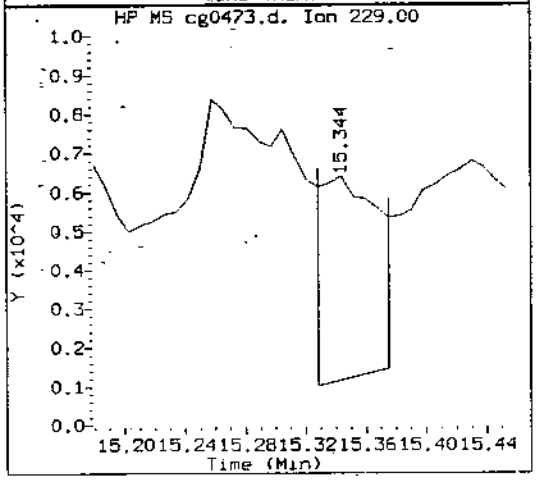
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

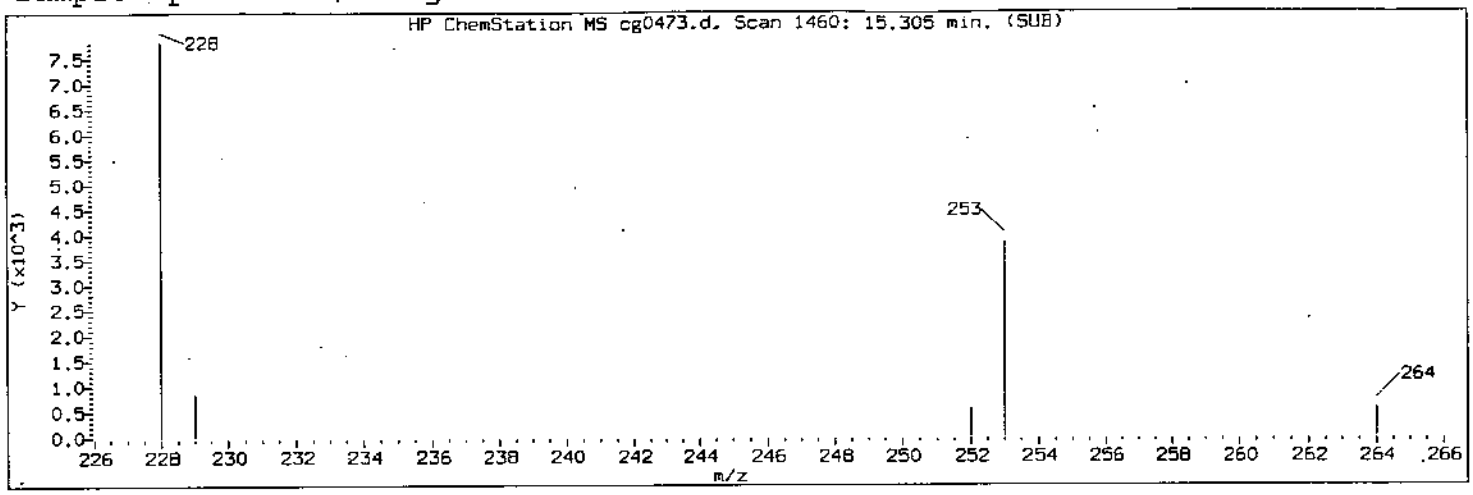
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339370

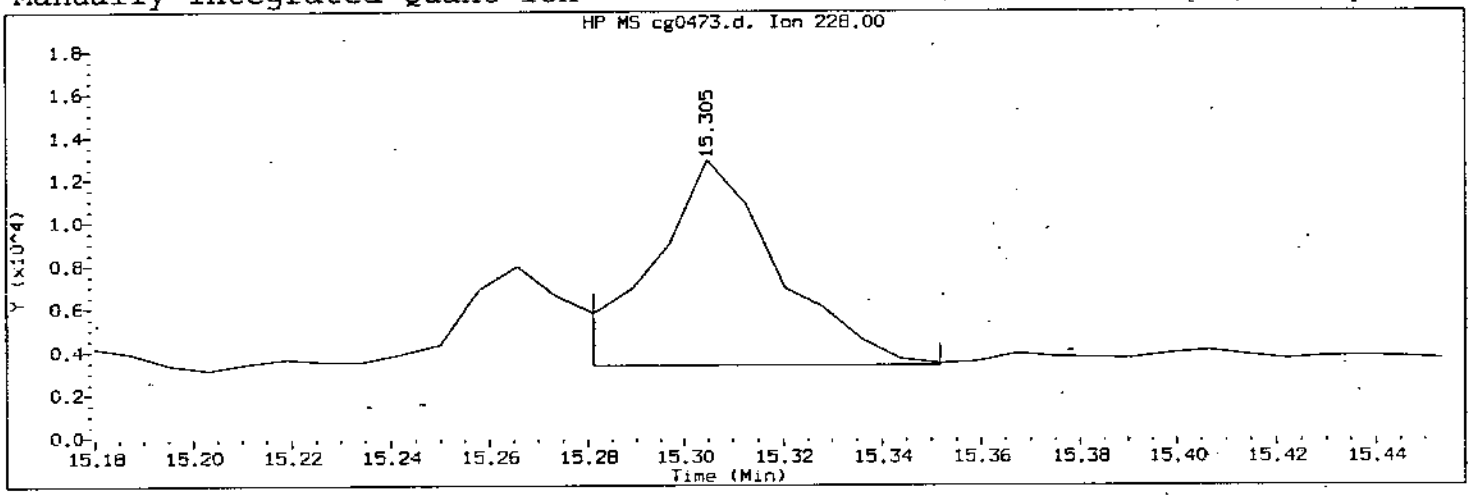
Compound Number	: 43
Compound Name	: Chrysene
Scan Number	: 1460
Retention Time (minutes)	: 15.305
Quant Ion	: 228.0
Area (flag)	: 17188 M
Concentration (ng/ul)	: 0.0257

USF03 0673

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339370

Compound Number	:	43
Compound Name	:	Chrysene
Scan Number	:	1460
Retention Time (minutes)	:	15.305
Quant Ion	:	228
Area (flag)	:	17188 M
Concentration (ng/ul)	:	0.0257
Integration start scan	:	1456 Integration stop scan: 1465
Y at integration start	:	3346 Y at integration end: 3346

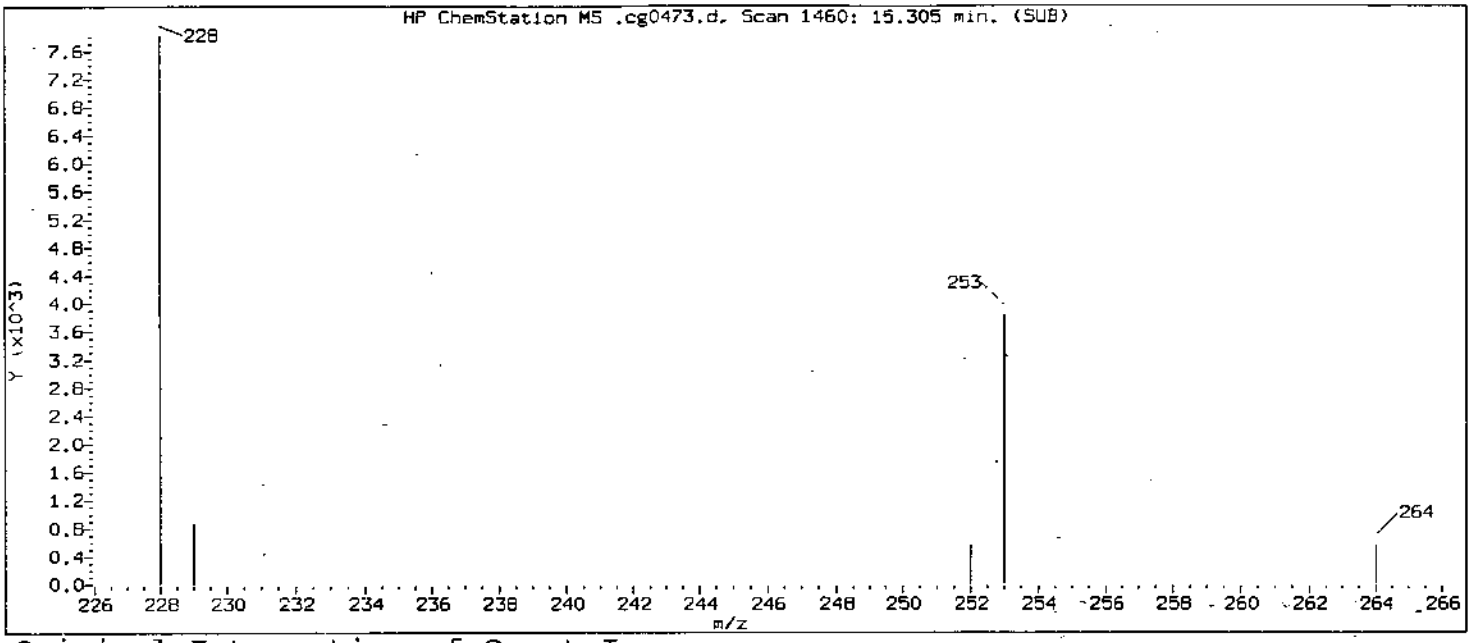
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Joe Gambler Senior Chemist JUL 15 2011

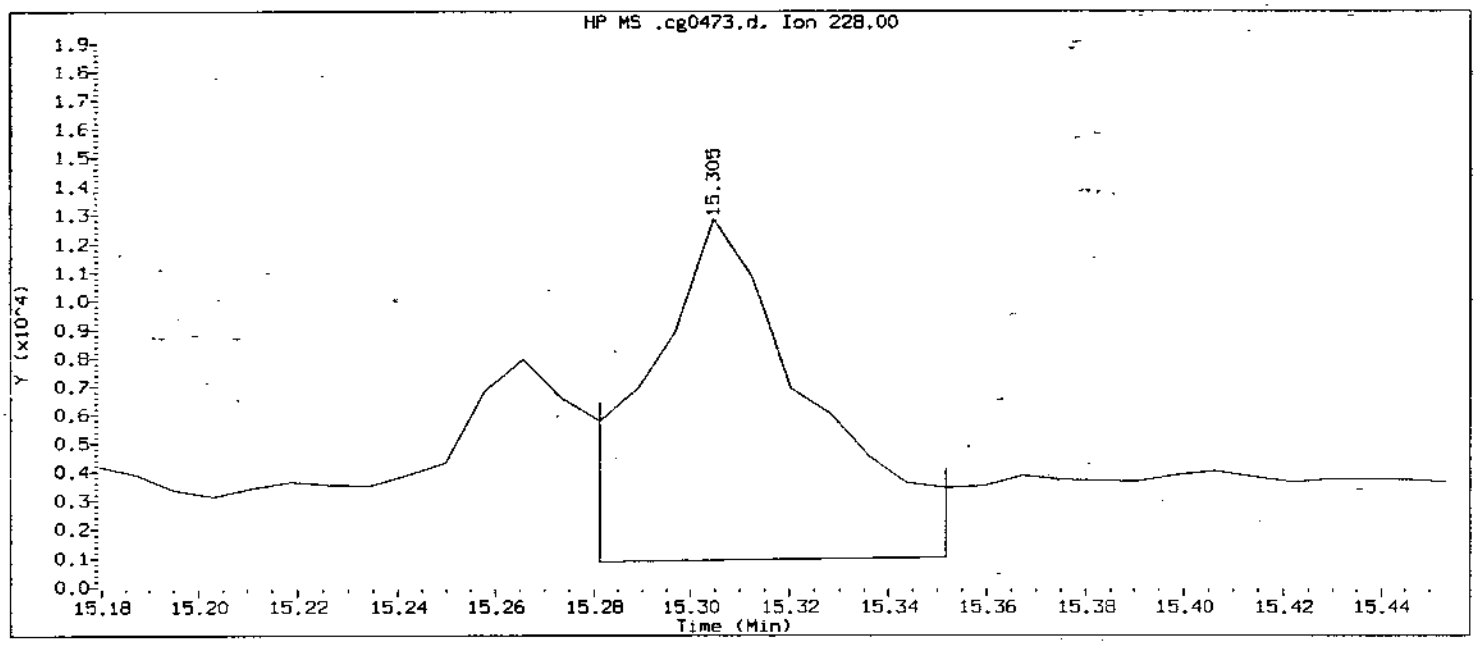
GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

USF03 8674

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 05:13 Automation

Sample Name: XXXXX Lab Sample ID: 633937

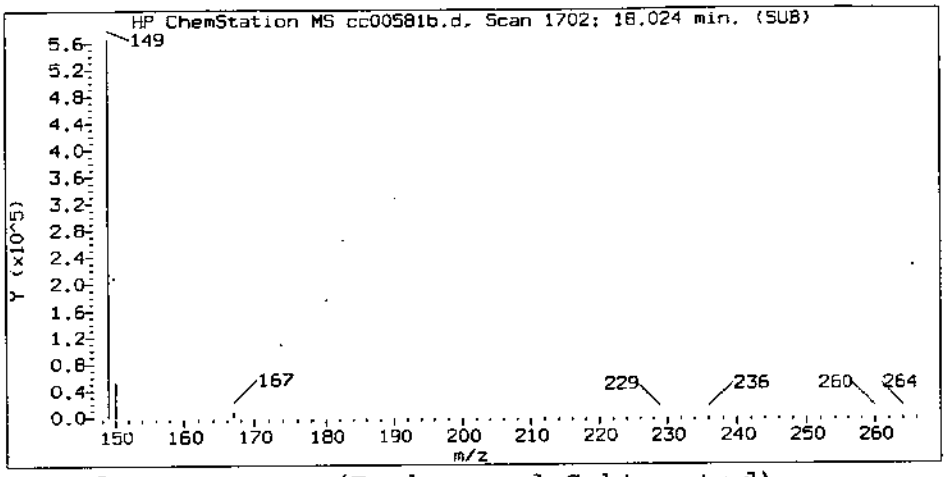
Compound Number	:	43
Compound Name	:	Chrysene
Scan Number	:	1460
Retention Time (minutes)	:	15.305
Quant Ion	:	228
Area	:	27774
Concentration (ng/ul)	:	0.0415
Integration start scan	:	1456 Integration stop scan: 1465
Y at integration start	:	892 Y at integration end: 1034

JUL 15 2011

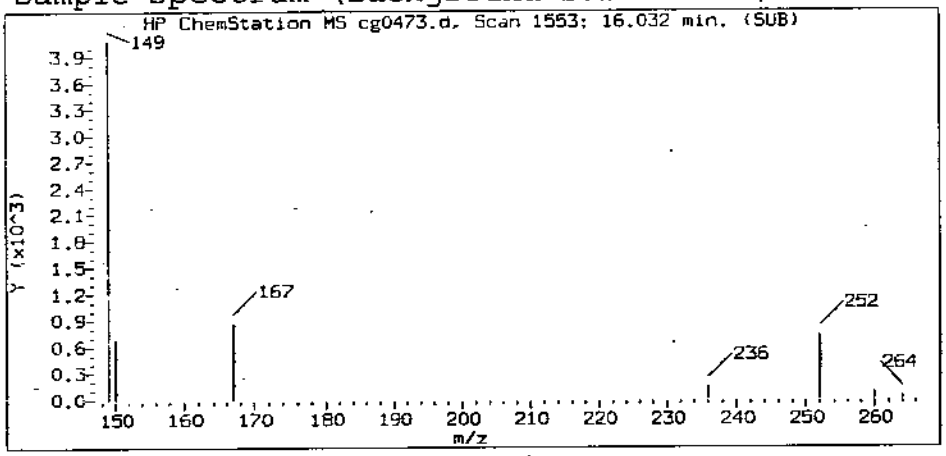
Joe Gambler
Senior Chemist

Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0473.d, generated on 07/15/2011 at 06:07

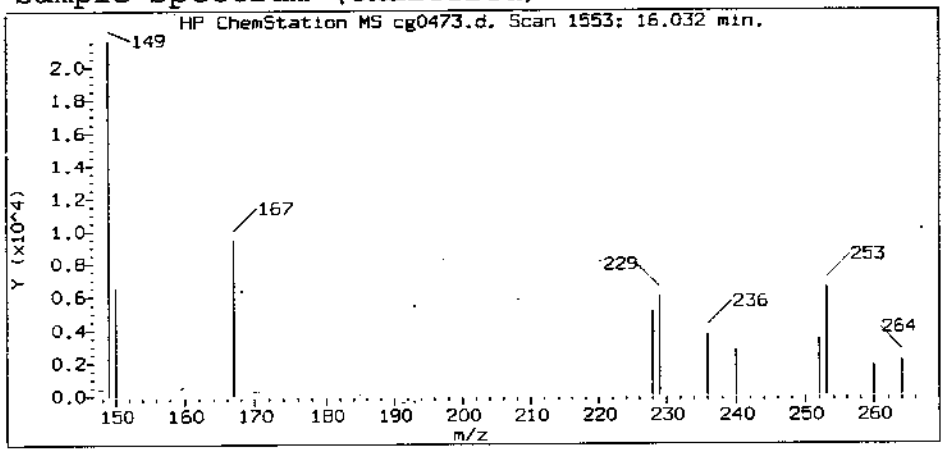
Reference Standard Spectrum for Di-n-octylphthalate

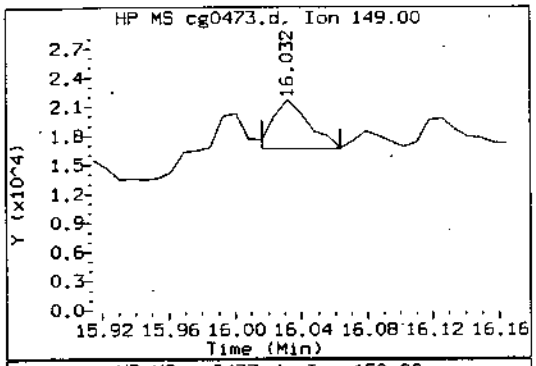


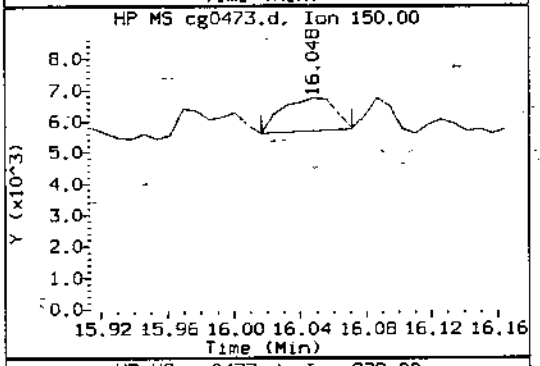
Sample Spectrum (Background Subtracted)

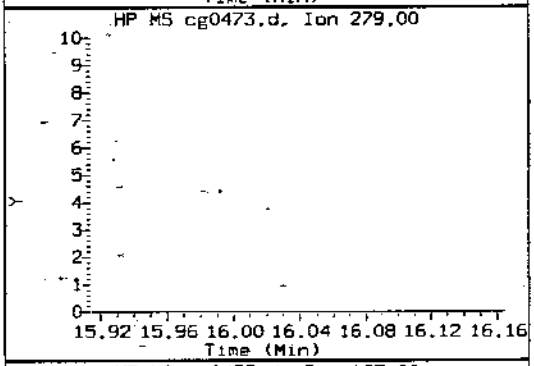


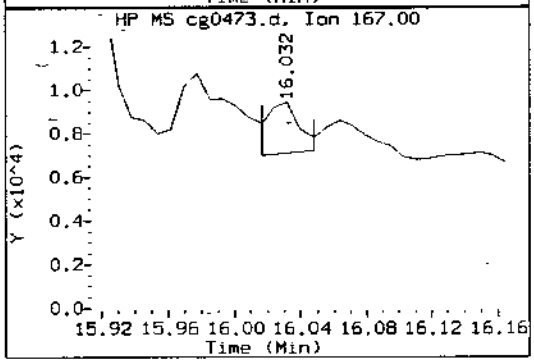
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul14a.b/cg0473.d
Injection date and time: 15-JUL-2011 04:48

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

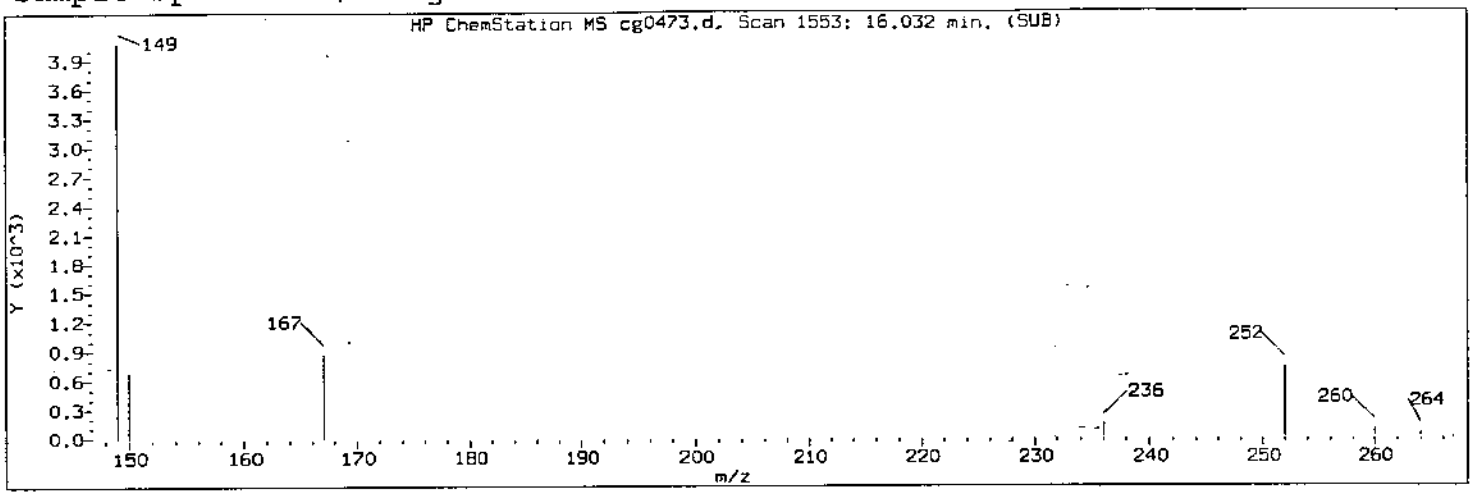
Sample Name: XXXXX

Lab Sample ID: 6339370

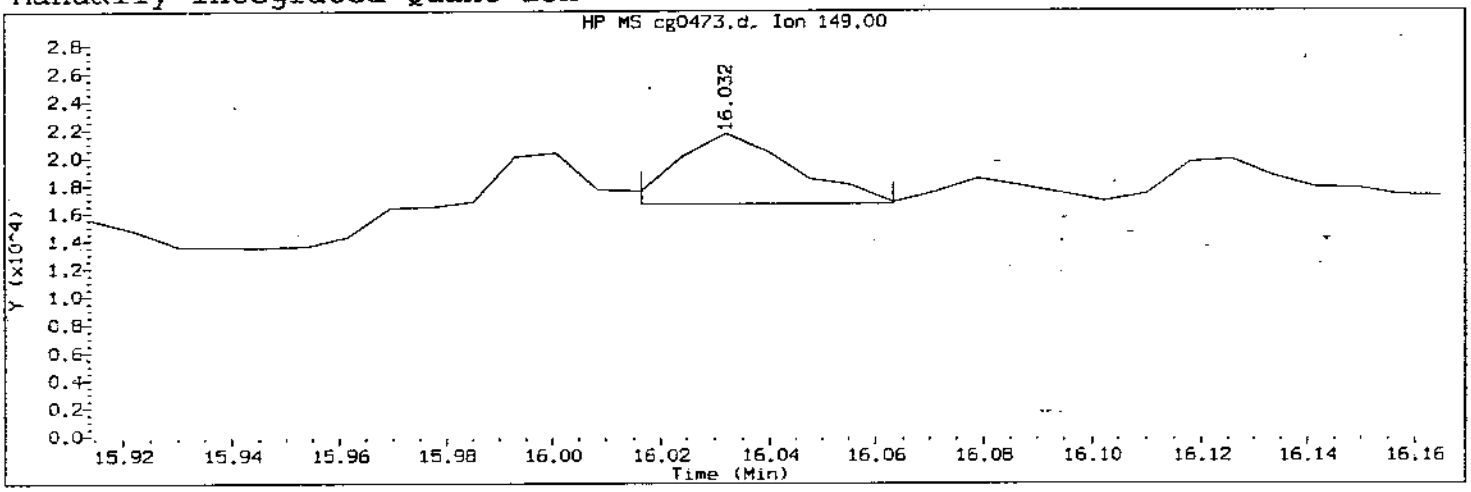
Compound Number	: 44
Compound Name	: Di-n-octylphthalate
Scan Number	: 1553
Retention Time (minutes)	: 16.032
Quant Ion	: 149.0
Area (flag)	: 7605 M
Concentration (ng/ul)	: 0.1811

USP03 8676

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339370

Compound Number	: 44
Compound Name	: Di-n-octylphthalate
Scan Number	: 1553
Retention Time (minutes)	: 16.032
Quant Ion	: 149
Area (flag)	: 7605 M
Concentration (ng/ul)	: 0.1811
Integration start scan	: 1550 Integration stop scan: 1556
Y at integration start	: 16648 Y at integration end: 16648

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Joe Gambler JUL 15 2011

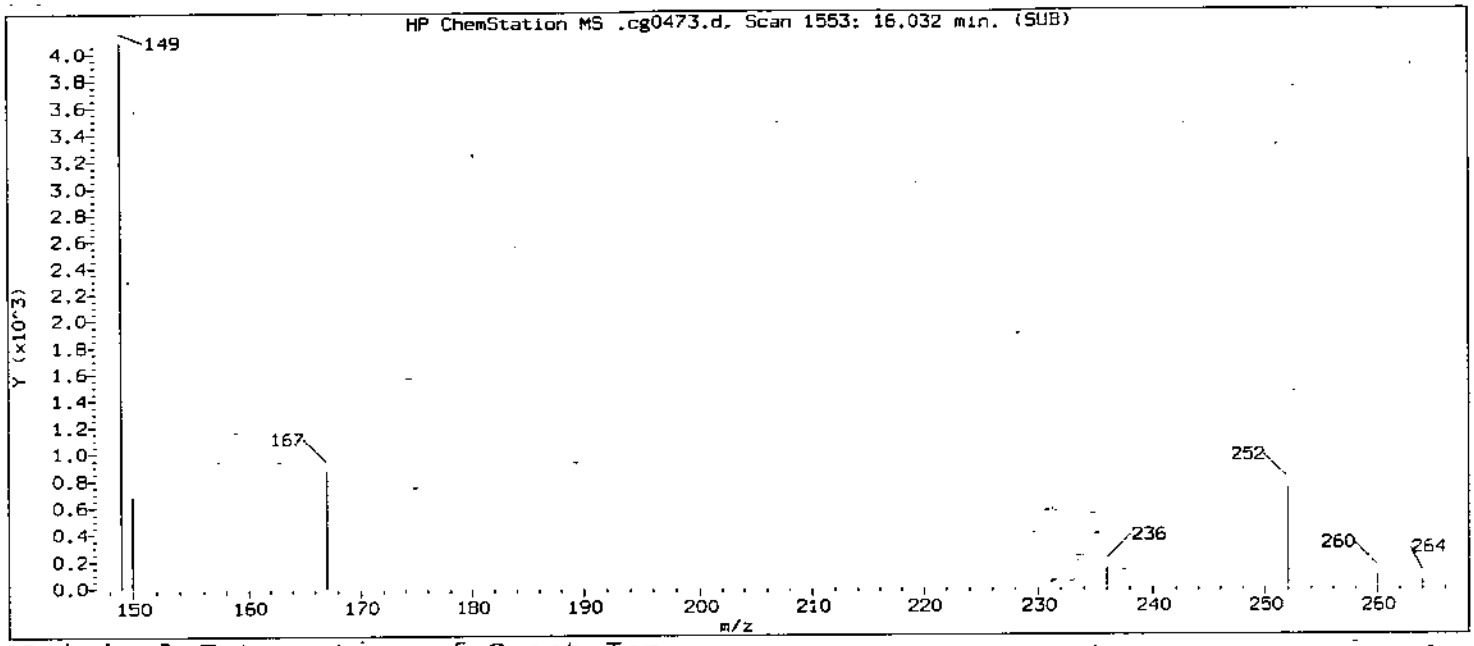
GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

USPB3 8677

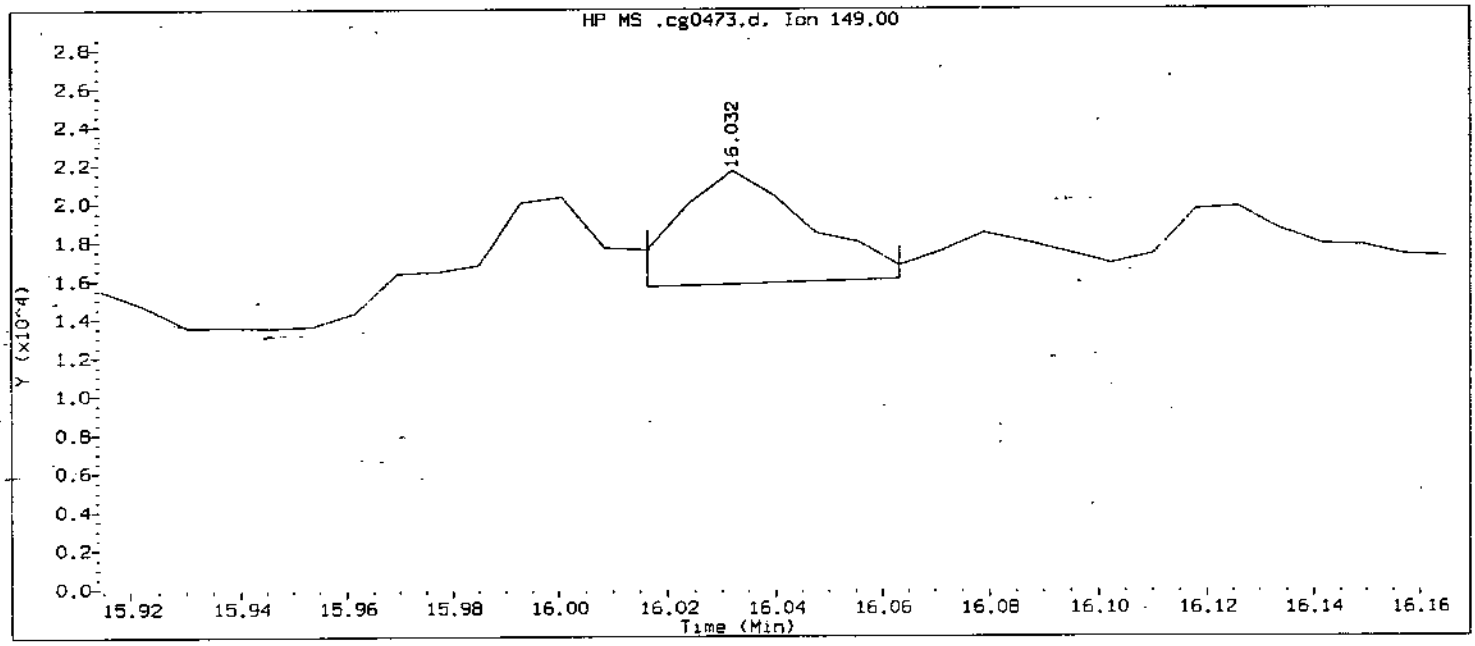
Joe Gambler
Senior Chemist

Manual Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0473.d, generated on 07/15/2011 at 06:07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 05:13 Automation

Sample Name: XXXXX Lab Sample ID: 633937

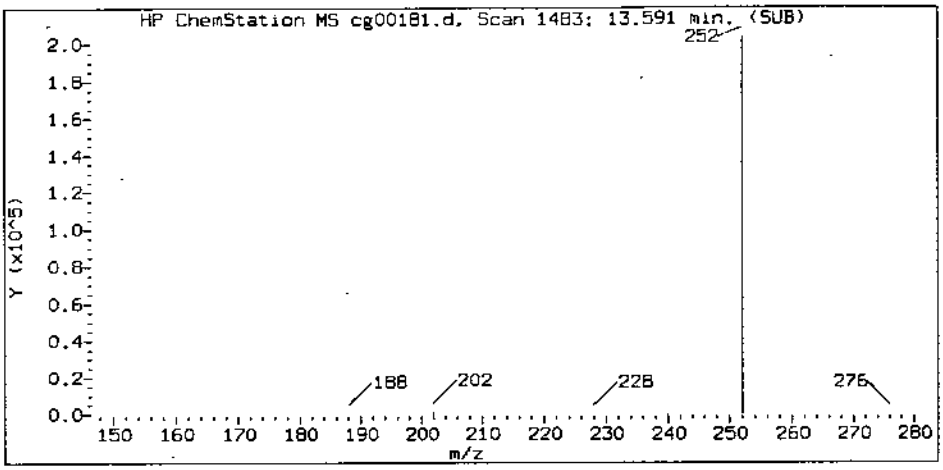
JUL 15 2011

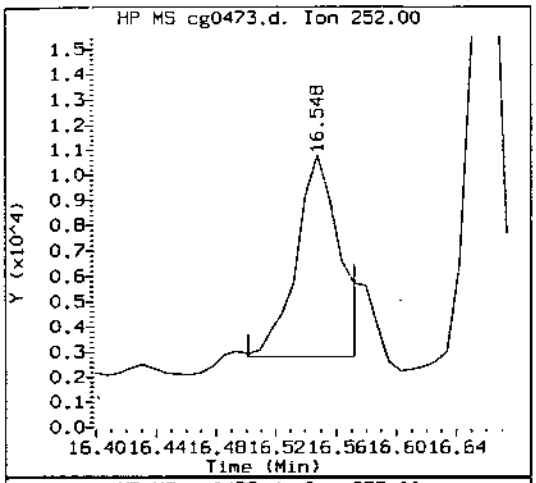
Joe Gambler
Senior Chemist

Compound Number	:	44
Compound Name	:	Di-n-octylphthalate
Scan Number	:	1553
Retention Time (minutes)	:	16.032
Quant Ion	:	149
Area	:	9598
Concentration (ng/ul)	:	0.1832
Integration start scan	:	1550
Integration stop scan	:	1556
Y at integration start	:	15666
Y at integration end	:	16043

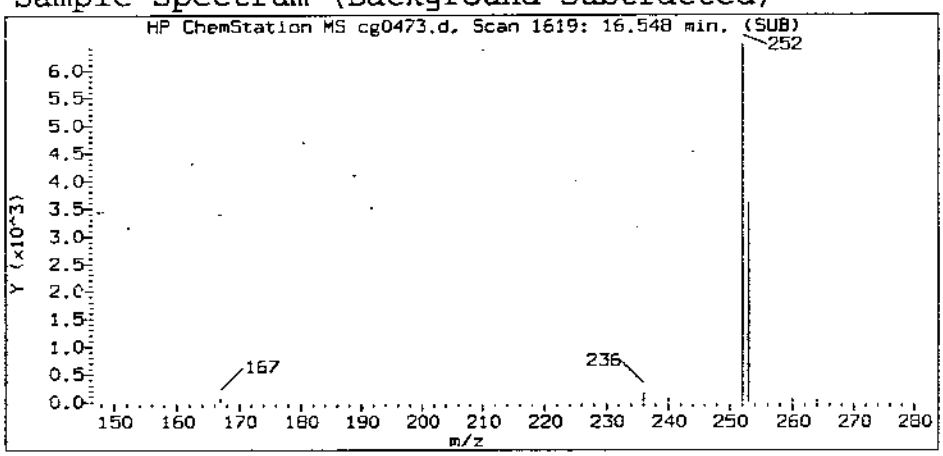
Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0473.d, generated on 07/15/2011 at 06:07

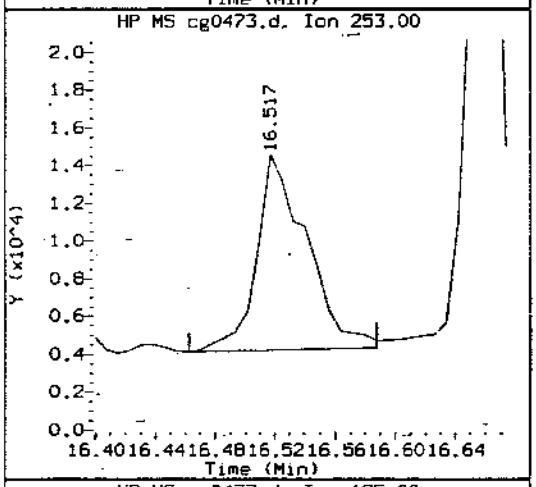
Reference Standard Spectrum for Benzo(b)fluoranthene



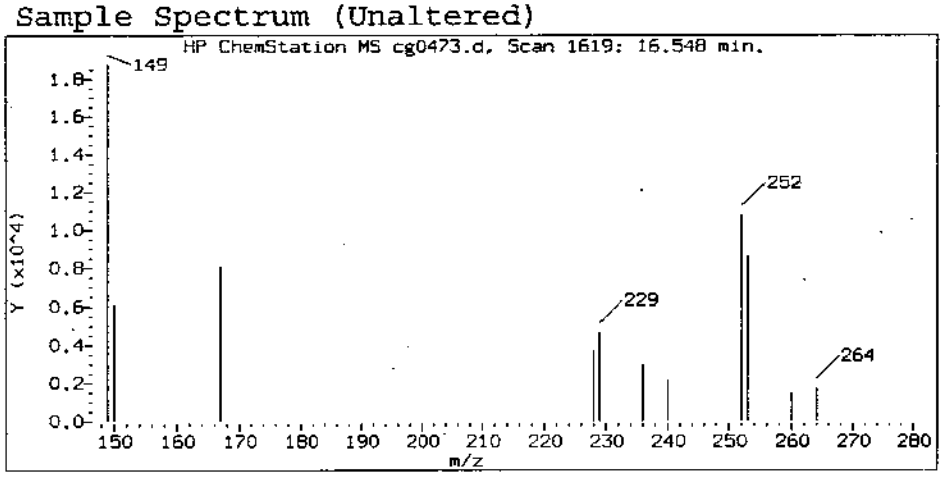


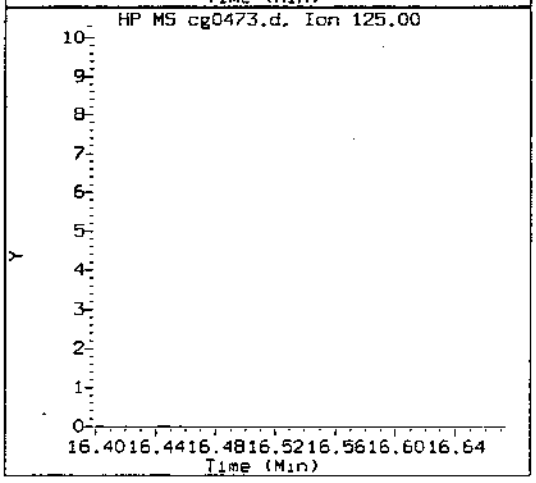
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0473.d
Injection date and time: 15-JUL-2011 04:48

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

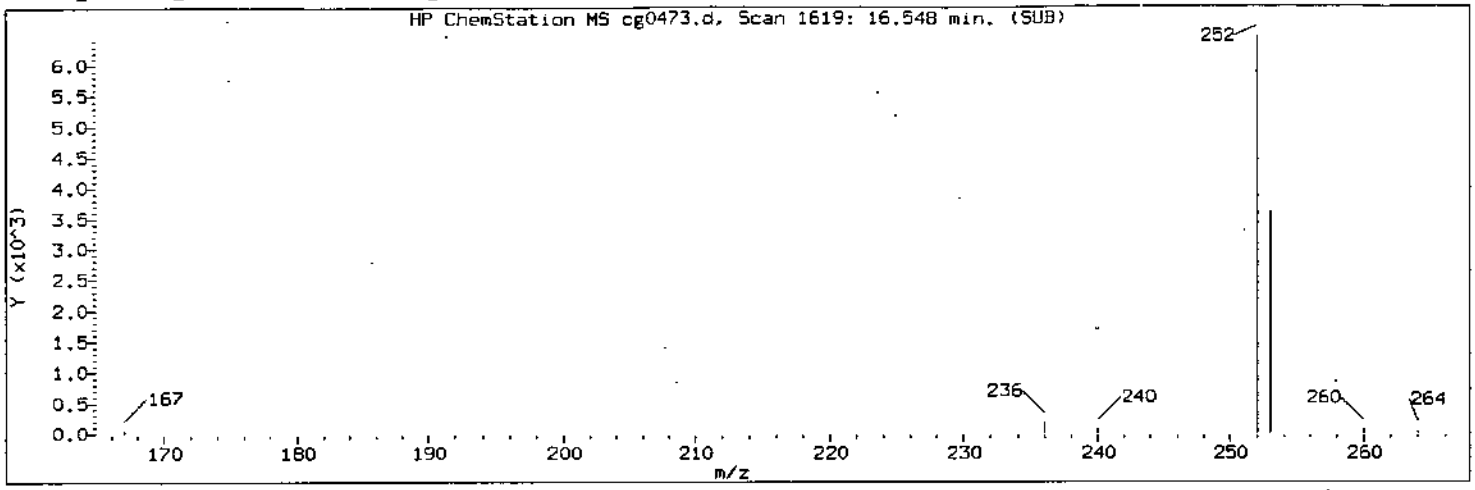
Sample Name: XXXXX

Lab Sample ID: 6339370

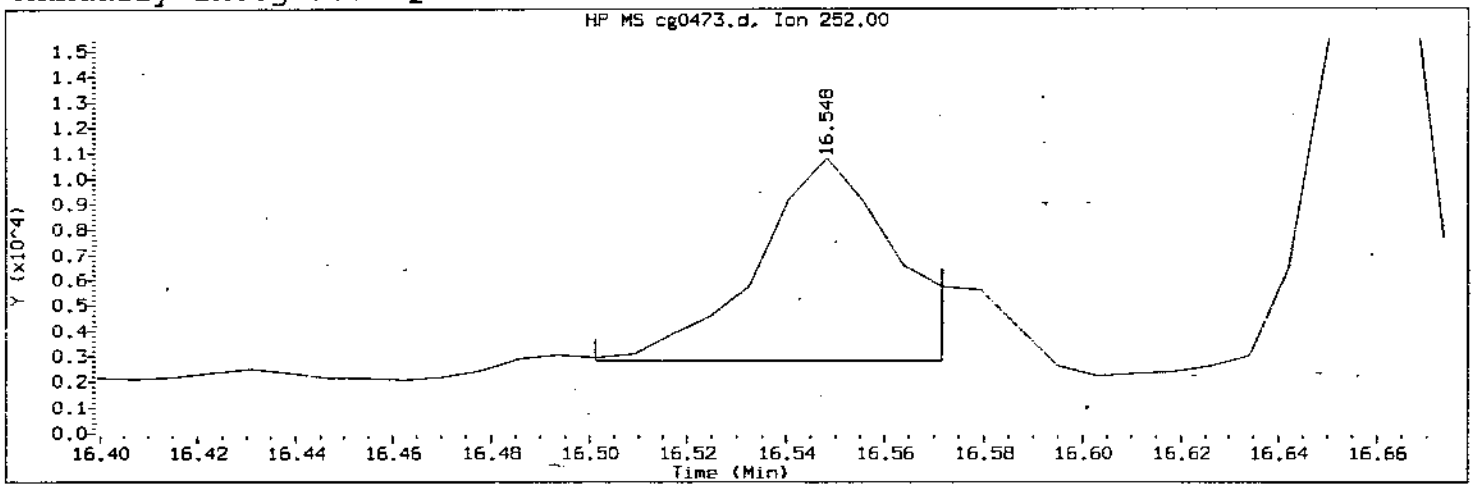
Compound Number	: 45
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1619
Retention Time (minutes)	: 16.548
Quant Ion	: 252.0
Area (flag)	: 15622 M
Concentration (ng/ul)	: 0.0280

USF03 8679

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 06:07 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339370

Compound Number	:	45
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1619
Retention Time (minutes)	:	16.548
Quant Ion	:	252
Area (flag)	:	15622 M
Concentration (ng/ul)	:	0.0280
Integration start scan	:	1612 Integration stop scan: 1621
Y at integration start	:	2825 Y at integration end: 2825

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Joe Gambler JUL 15 2011

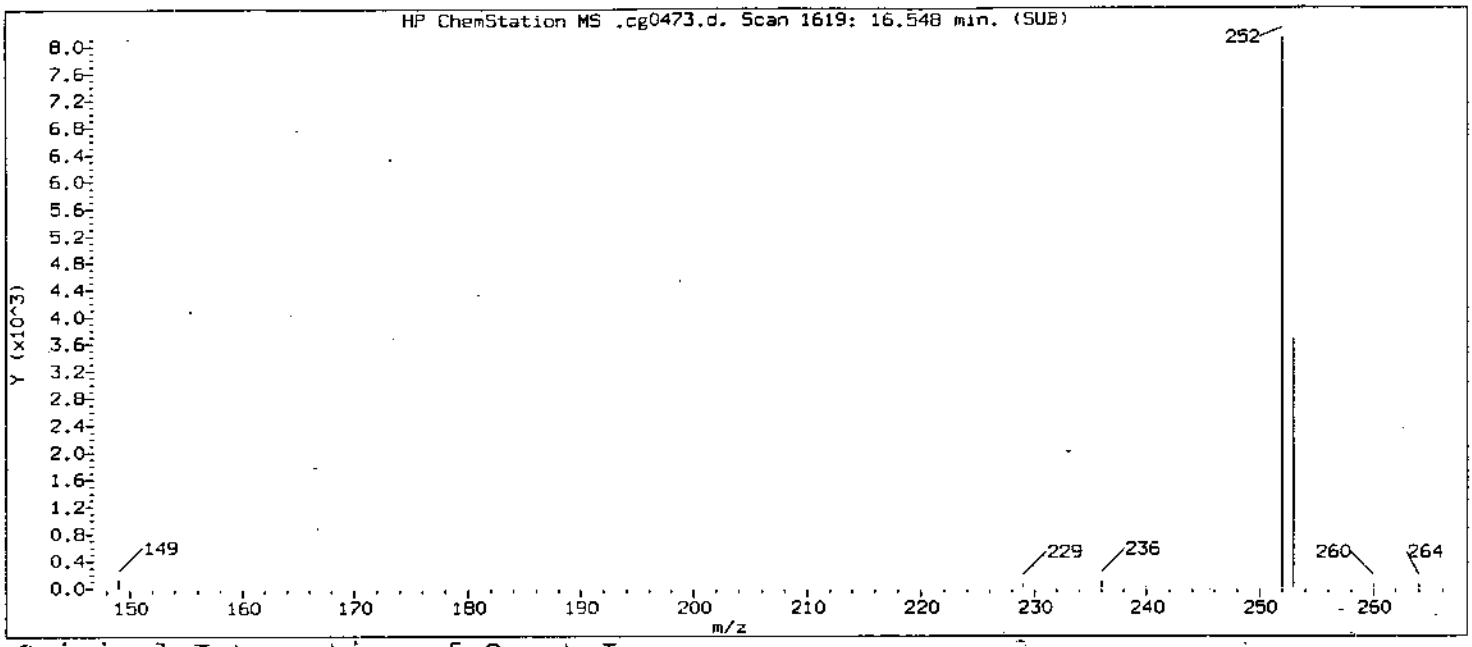
Mark A. Ratcliff
Senior Specialist

GC/MS audit/management approval: Joe Gambler
Senior Chemist JUL 19 2011

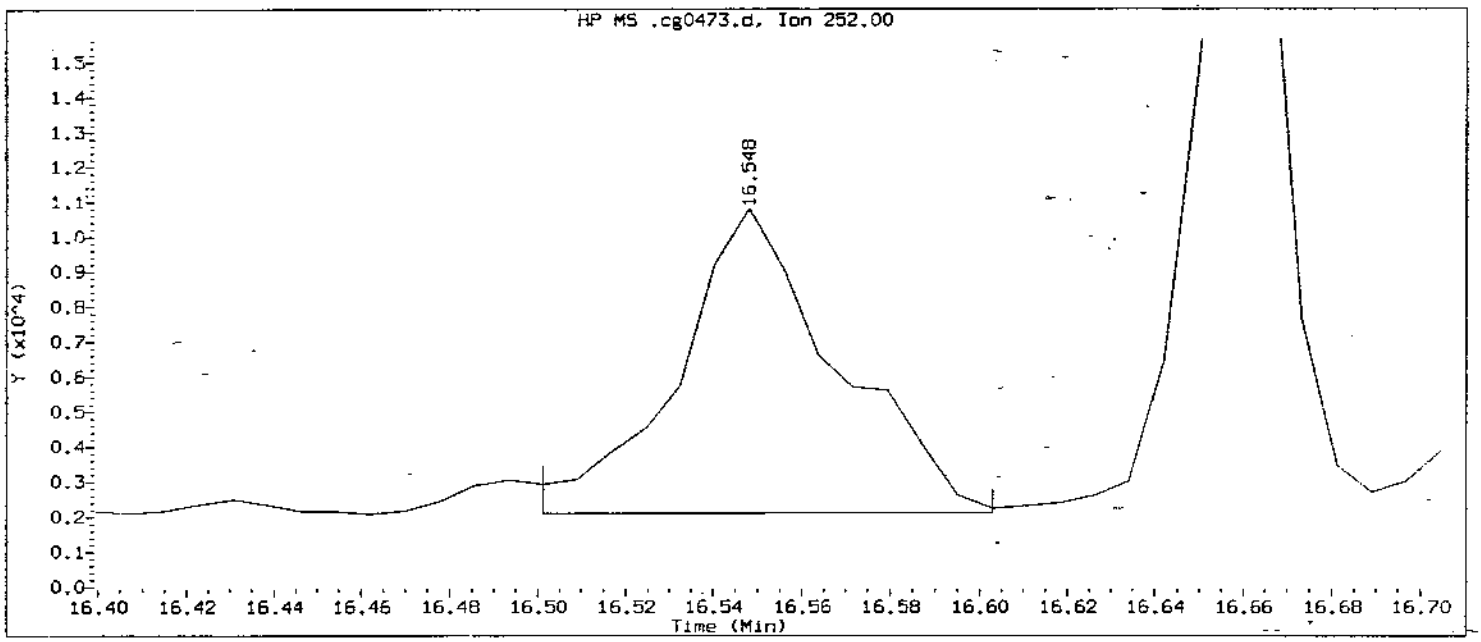
USTR3 #588

Manual Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0473.d, generated on 07/15/2011 at 06:07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14a.b/cg0473.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 04:48 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 05:13 Automation

Sample Name: XXXXX Lab Sample ID: 63393

JUL 15 2011

Joe Gambler
Senior Chemist

USRB3 0601

Compound Number	: 45	
Compound Name	: Benzo(b)fluoranthene	
Scan Number	: 1619	
Retention Time (minutes)	: 16.548	
Quant Ion	: 252	
Area	: 21575	
Concentration (ng/ul)	: 0.0387	
Integration start scan	: 1612	Integration stop scan: 1625
Y at integration start	: 2107	Y at integration end: 2125

Original Integration Report for data file /chem/HP10623.i/11jul14a.b/cg0473.d, generated on 07/15/2011 at 06:07

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339372

Data file: /chem/HP10623.i/11jul15.b/cg0486.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 09:30 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: **Slist6454**
Calibration date and time (Last Method Edit): 15-JUL-2011 12:06
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul15.b/cg0481.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.537(0.000)	545	152.0	140477(2)	1.00	
12) Naphthalene-d8	8.051(0.000)	710	136.0	560408(2)	1.00	
19) Acenaphthene-d10	10.200(0.000)	911	164.0	299098(2)	1.00	
30) Phenanthrene-d10	12.034(0.000)	1097	188.0	463984(-1)	1.00	
42) Chrysene-d12	15.305(0.000)	1460	240.0	382132(-2)	1.00	
49) Perylene-d12	17.072(0.000)	1686	264.0	370998(10)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.179(0.000)	82	219951	1.102	110%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.372(0.000)	172	351195	0.961	96%		63 - 129
38) Terphenyl-d14	(5)	14.007(0.000)	244	255925	0.963	96%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)			Below MDL, Do not report					0.02
14) 2-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
16) 1-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
18) Acenaphthylene	(3)			Below MDL, Do not report					0.01
20) Dimethylphthalate	(3)			Below MDL, Do not report					0.18
21) Acenaphthene	(3)			Below MDL, Do not report					0.02
22) Diethylphthalate	(3)			Below MDL, Do not report					0.18
23) Fluorene	(3)			Below MDL, Do not report					0.02
31) Phenanthrene	(4)	12.062(0.000)	178	12030	0.022	0.73			0.02
32) Anthracene	(4)			Below MDL, Do not report					0.01
33) Di-n-butylphthalate	(4)	12.744(0.000)	149	30581	0.236	7.85			0.18
35) Fluoranthene	(4)	13.540(0.000)	202	44590	0.082	2.73			0.02
37) Pyrene	(5)	13.822(-0.001)	202	49362	0.083	2.74			0.02
39) Butylbenzylphthalate	(5)	14.607(0.000)	149	21043	0.201	6.69			0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.305(0.000)	149	69274	0.304	10.09			0.18
41) Benzo(a)anthracene	(5)	15.289(0.000)	228	26270	0.056	1.85			0.02
43) Chrysene	(5)	15.336(0.000)	228	29294	0.056	1.88			0.01
44) Di-n-octylphthalate	(6)				ND	ND			0.18
45) Benzo(b)fluoranthene	(6)	16.579(0.000)	252	29336	0.061	2.02			0.02
46) Benzo(k)fluoranthene	(6)	16.595(0.001)	252	13818	0.027	0.89			0.02
48) Benzo(a)pyrene	(6)	16.994(0.000)	252	23881	0.053	1.75			0.02
51) Indeno(1,2,3-cd)pyrene	(6)	18.635(0.000)	276	13112	0.027	0.90			0.02
52) Dibenz(a,h)anthracene	(6)				ND	ND			0.02
53) Benzo(g,h,i)perylene	(6)	19.066(0.000)	276	15008	0.035	1.17			0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 8682

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339372

Data file: /chem/HP10623.i/11jul15.b/cg0486.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 09:30 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 15-JUL-2011 12:06
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul15.b/cg0481.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.1 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

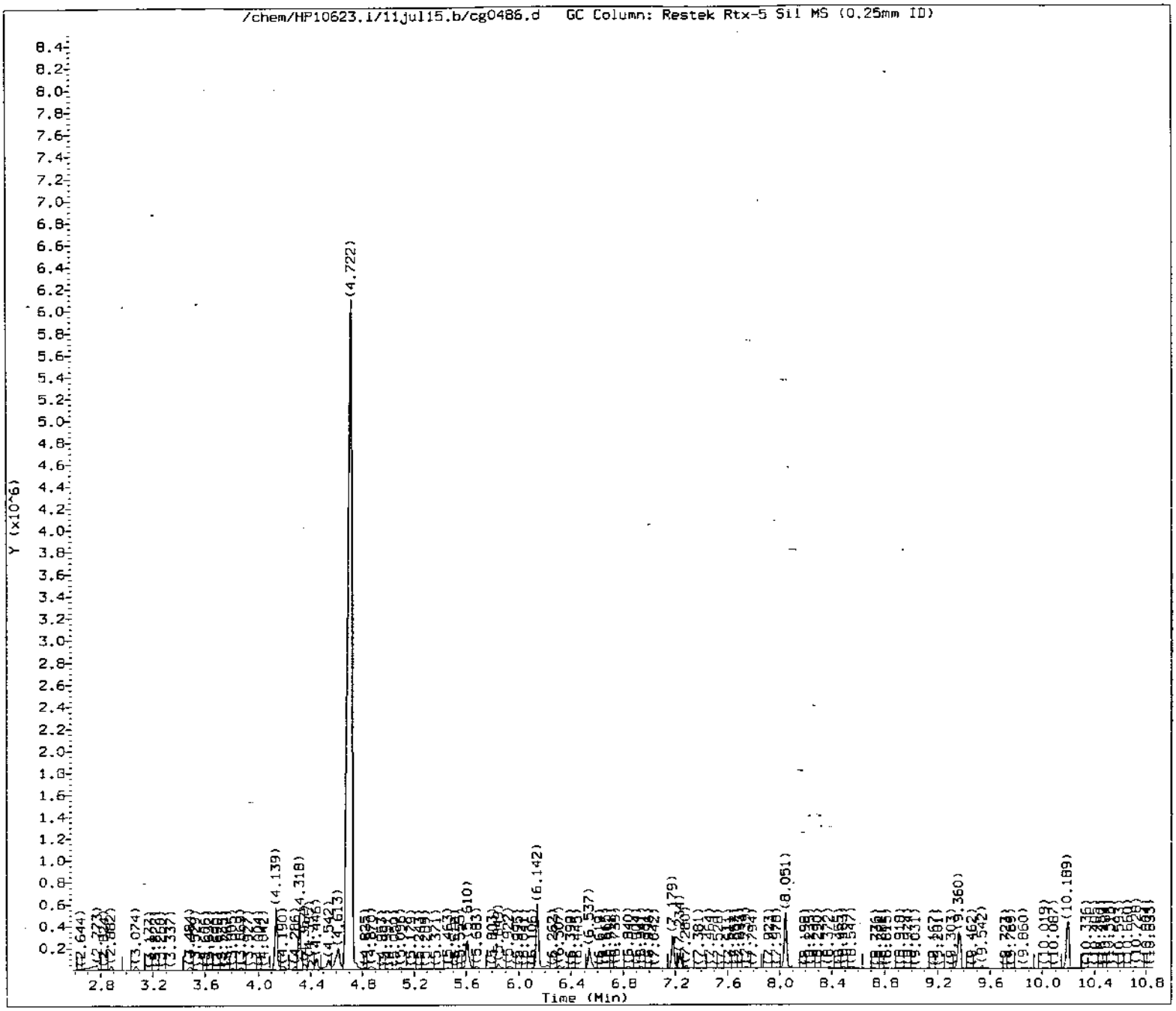
Comments:

Analyst: Date: Greg Drahovsky Senior Chemist JUL 15 2011
Auditor: Date:

Mark A. Ratcliff
Senior Specialist

JUL 19 2011

USF03 8683



Quant Report

Target Revision 3.5

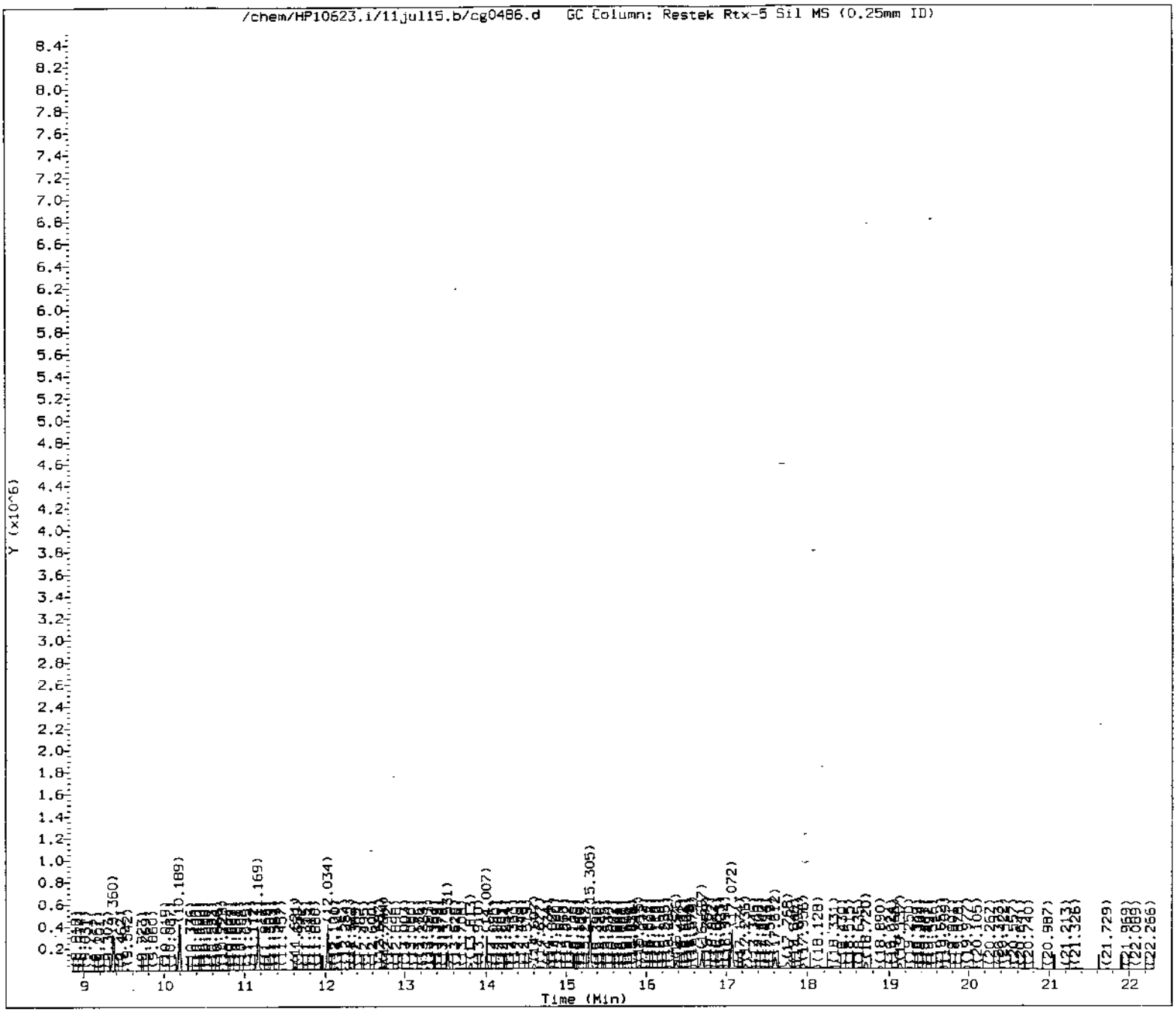
Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339372

Greg Drahovsky
Senior Chemist

JUL 15 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339372

Greg Drahovsky
Senior Chemist

USP83 8685

JUL 15 2011

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

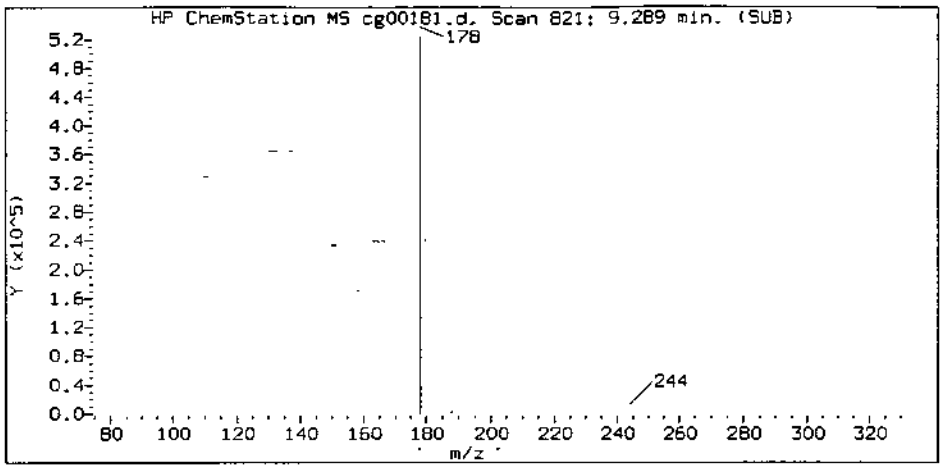
Sample Name: XXXXX Lab Sample ID: 6339372

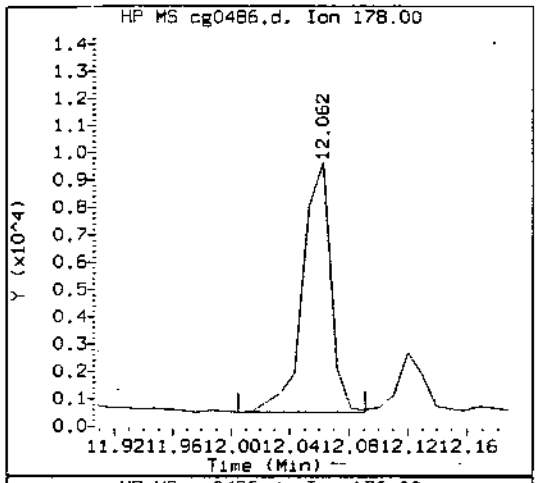
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.537	152	140477	1.0000
12) Naphthalene-d8	(2)	8.051	136	560408	1.0000
19) Acenaphthene-d10	(3)	10.200	164	299098	1.0000
30) Phenanthrene-d10	(4)	12.034	188	463984	1.0000
31) Phenanthrene	(4)	12.062	178	12030	0.0221
33) Di-n-butylphthalate	(4)	12.744	149	30581	0.2363
35) Fluoranthene	(4)	13.540	202	44590	0.0822
37) Pyrene	(5)	13.822	202	49362	0.0825
39) Butylbenzylphthalate	(5)	14.607	149	21043	0.2015
40) bis(2-Ethylhexyl)phthalate	(5)	15.305	149	69274	0.3037
41) Benzo(a)anthracene	(5)	15.289	228	26270M	0.0556
42) Chrysene-d12	(5)	15.305	240	382132	1.0000
43) Chrysene	(5)	15.336	228	29294M	0.0565
45) Benzo(b)fluoranthene	(6)	16.579	252	29336M	0.0607
46) Benzo(k)fluoranthene	(6)	16.595	252	13818M	0.0267
48) Benzo(a)pyrene	(6)	16.994	252	23881	0.0525
49) Perylene-d12	(6)	17.072	264	370998	1.0000
51) Indeno(1,2,3-cd)pyrene	(6)	18.635	276	13112M	0.0271
53) Benzo(g,h,i)perylene	(6)	19.066	276	15008	0.0353
10) Nitrobenzene-d5	(2)	7.179	82	219951	1.1015
17) 2-Fluorobiphenyl	(3)	9.372	172	351195	0.9612
38) Terphenyl-d14	(5)	14.007	244	255925	0.9632

M = Compound was manually integrated. A = User selected an alternate hit

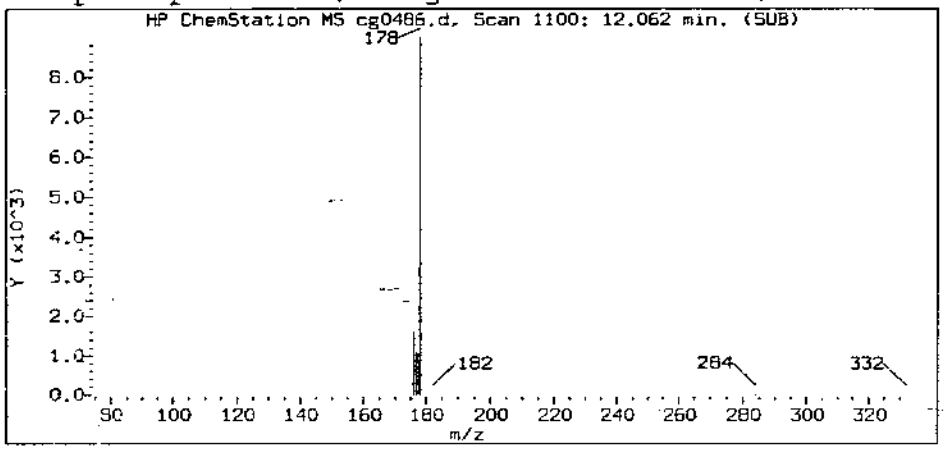
USF03 8686

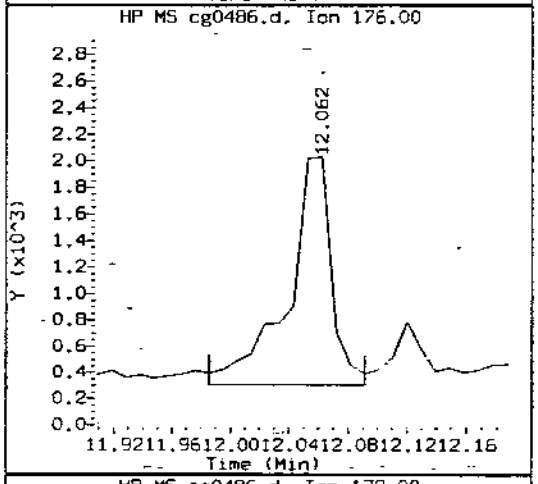
Reference Standard Spectrum for Phenanthrene



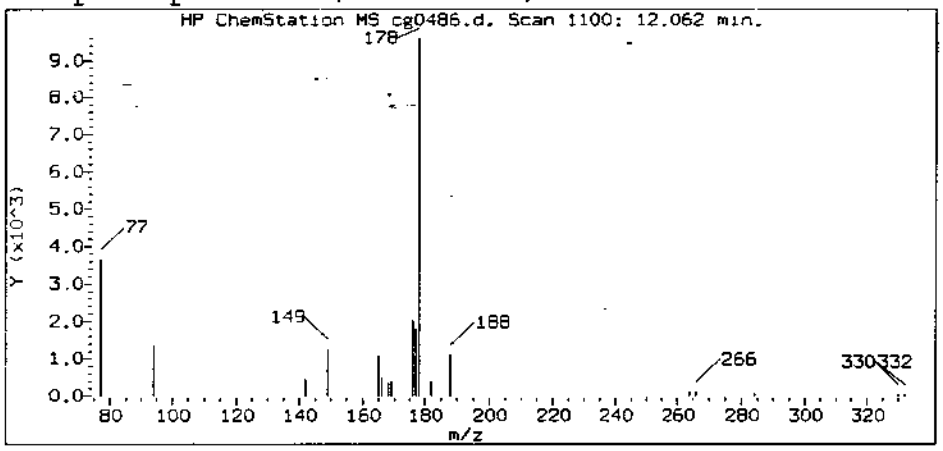


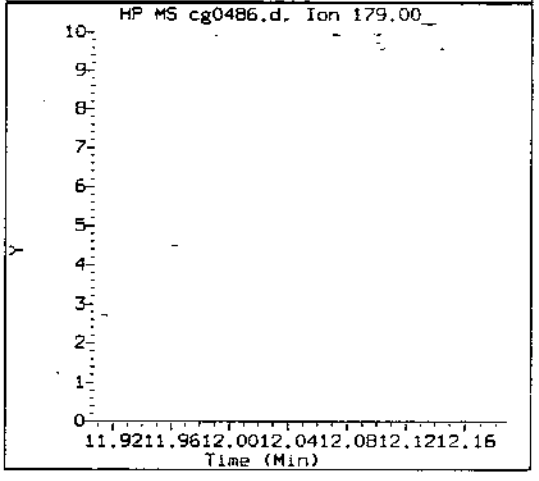
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

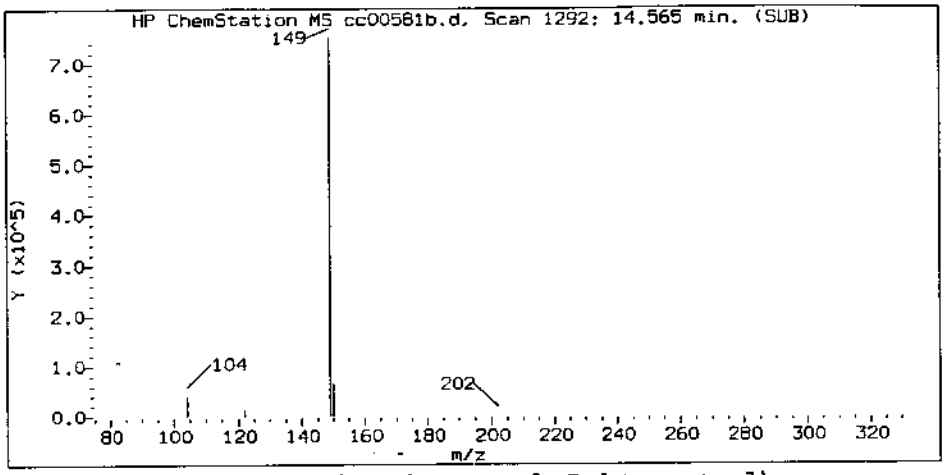
Sample Name: XXXXX

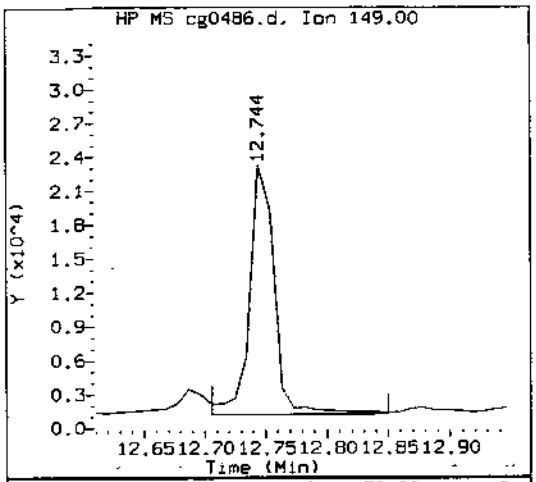
Lab Sample ID: 6339372

Compound Number	: 31
Compound Name	: Phenanthrene
Scan Number	: 1100
Retention Time (minutes)	: 12.062
Quant Ion	: 178.0
Area (flag)	: 12030
Concentration (ng/ul)	: 0.0221

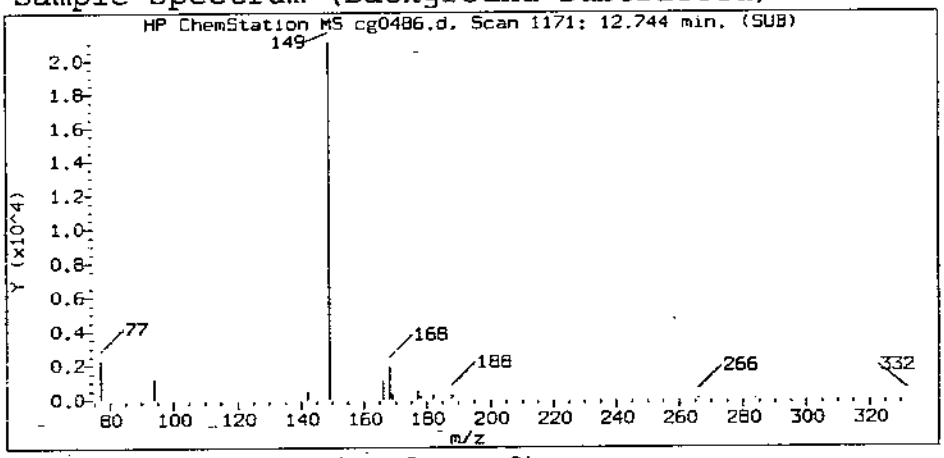
USF03 8687

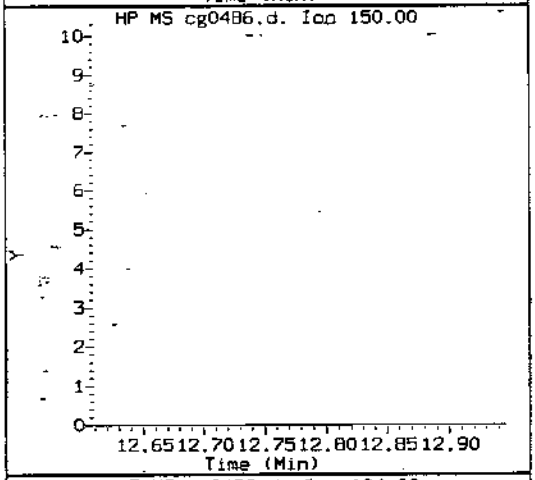
Reference Standard Spectrum for Di-n-butylphthalate



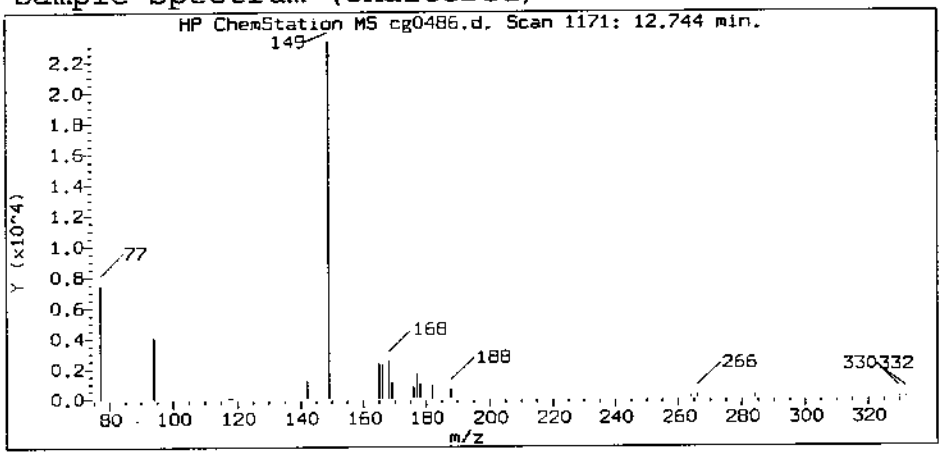


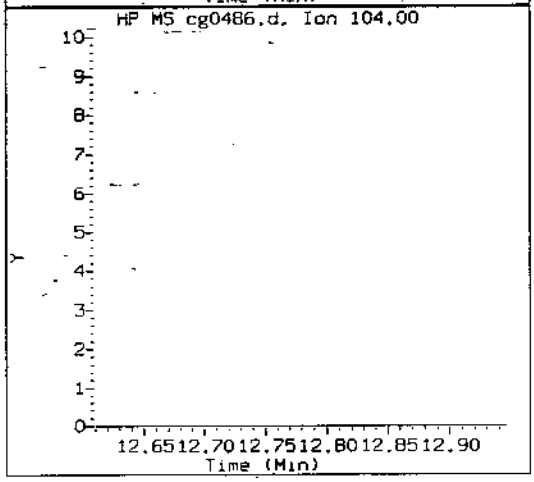
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

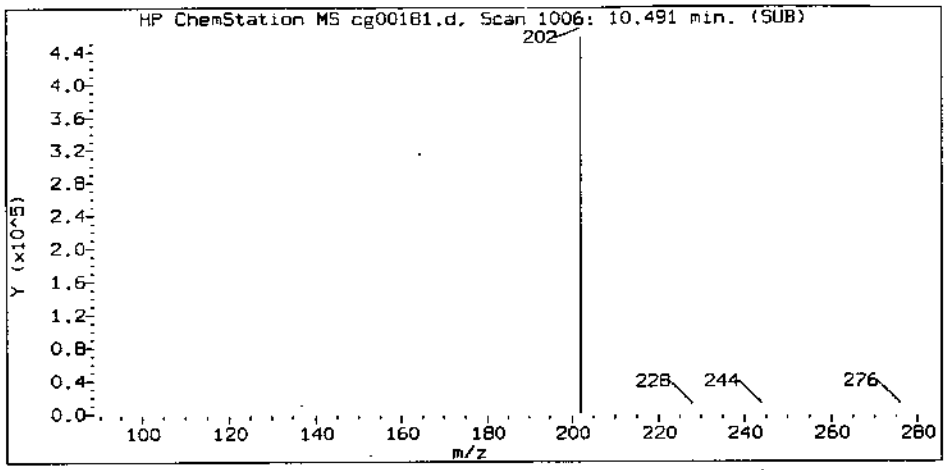
Sample Name: XXXXX

Lab Sample ID: 6339372

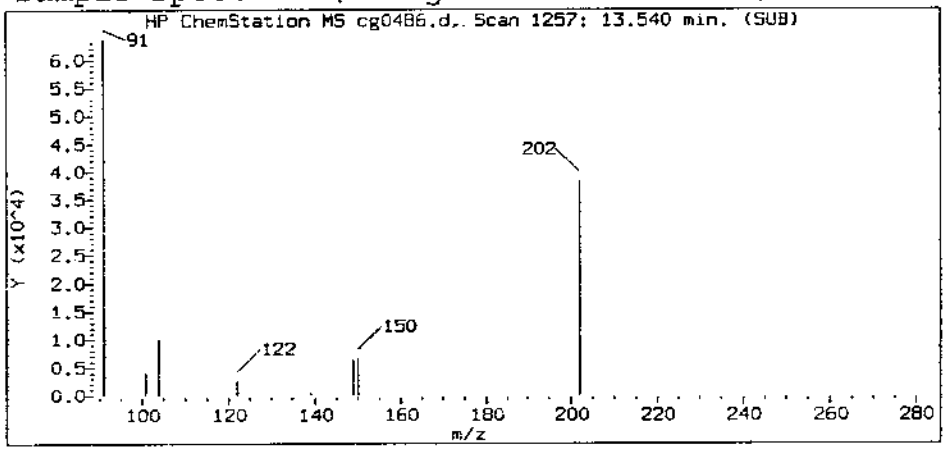
Compound Number	: 33
Compound Name	: Di-n-butylphthalate
Scan Number	: 1171
Retention Time (minutes)	: 12.744
Quant Ion	: 149.0
Area (flag)	: 30581
Concentration (ng/ul)	: 0.2363

USF83 0688

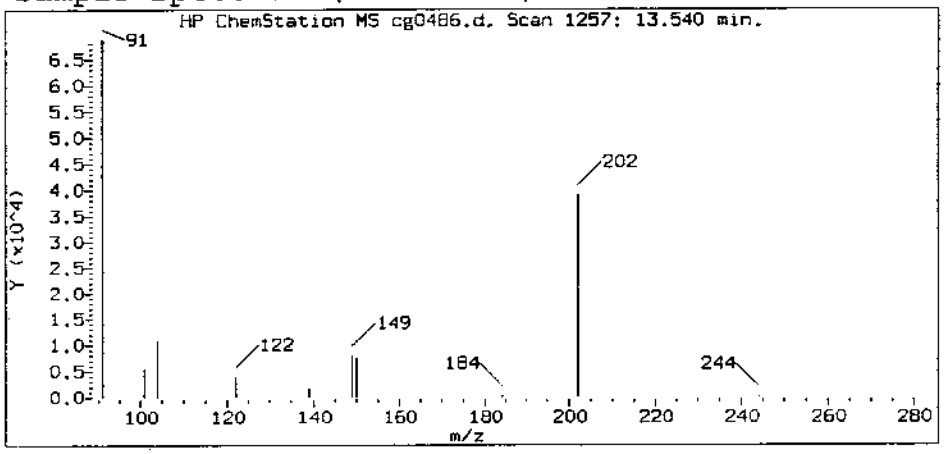
Reference Standard Spectrum for Fluoranthene

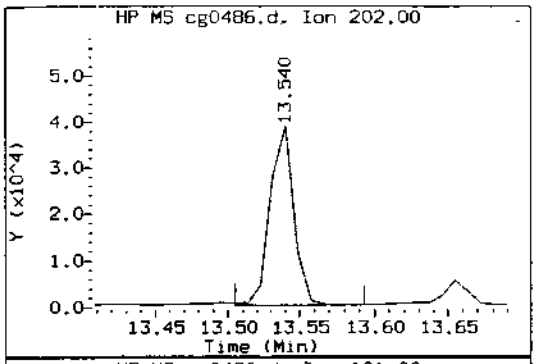


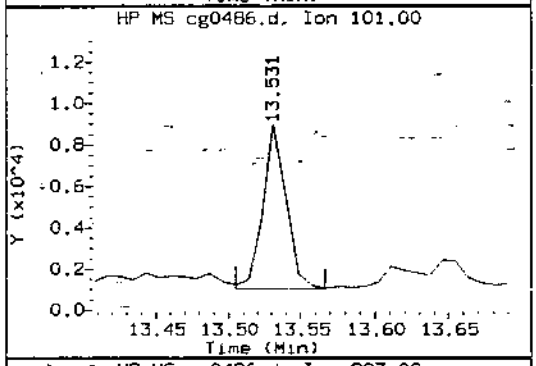
Sample Spectrum (Background Subtracted)

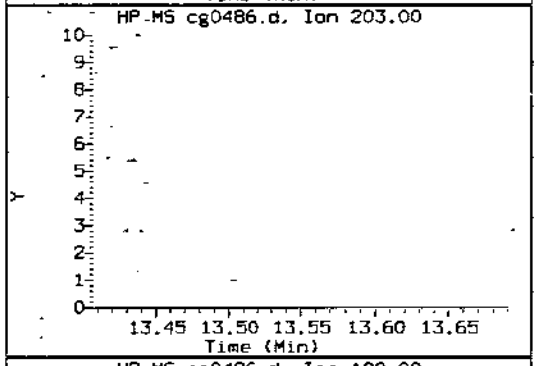


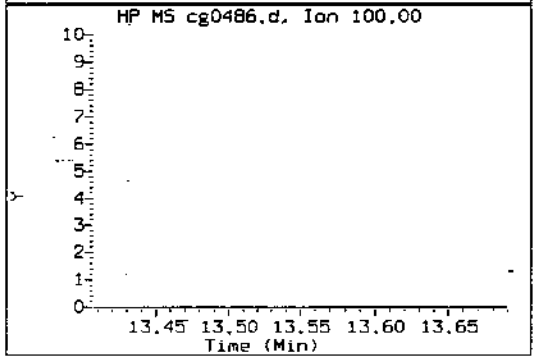
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

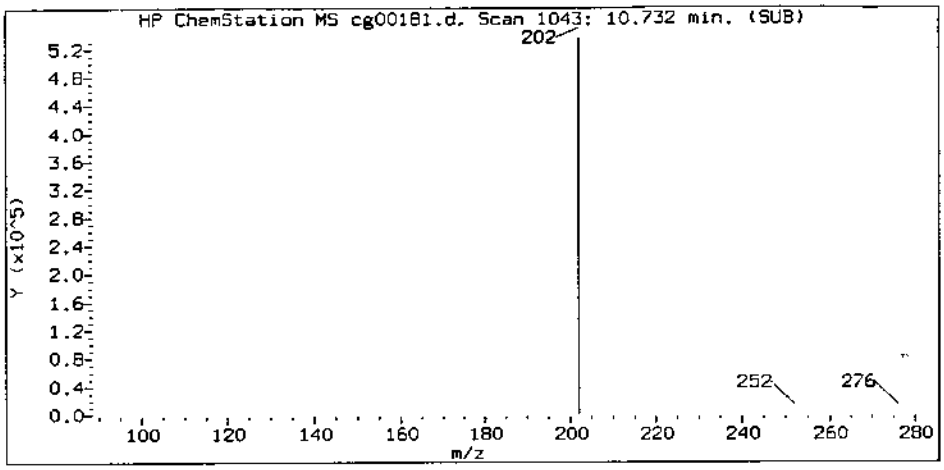
Sample Name: XXXXX

Lab Sample ID: 6339372

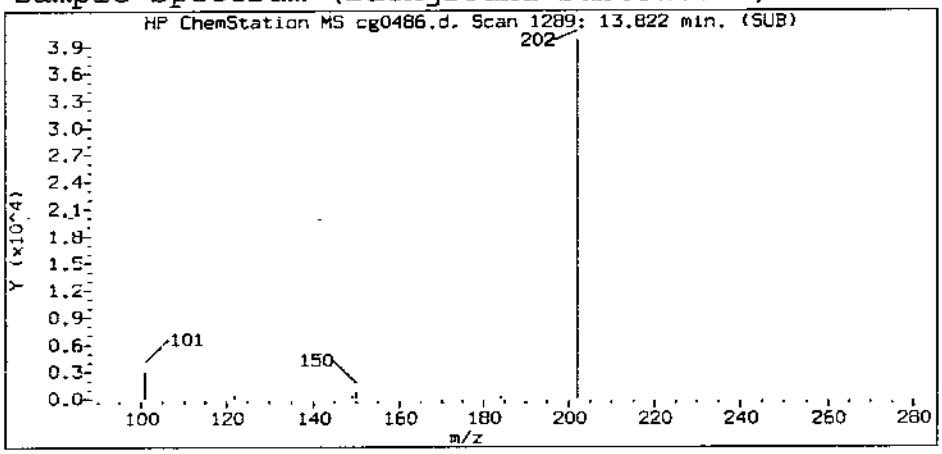
Compound Number	: 35
Compound Name	: Fluoranthene
Scan Number	: 1257
Retention Time (minutes)	: 13.540
Quant Ion	: 202.0
Area (flag)	: 44590
Concentration (ng/ul)	: 0.0822

USP83 8689

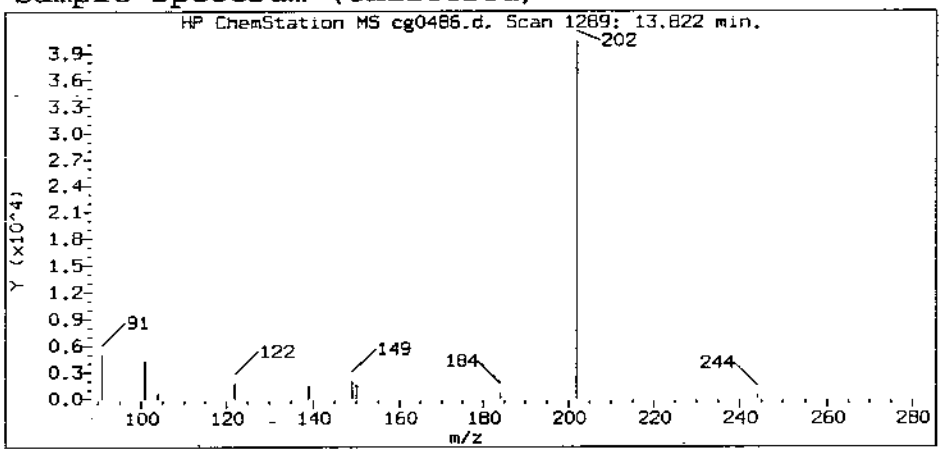
Reference Standard Spectrum for Pyrene

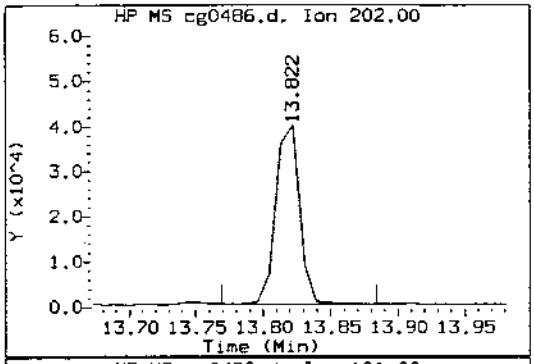


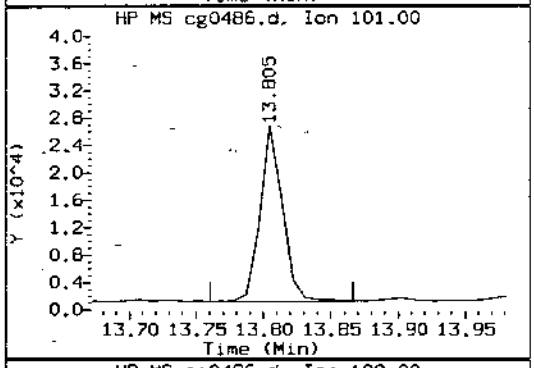
Sample Spectrum (Background Subtracted)

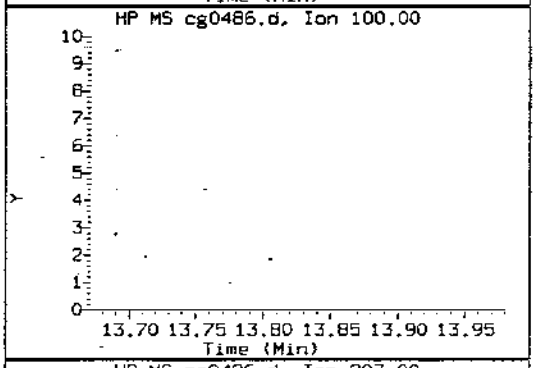


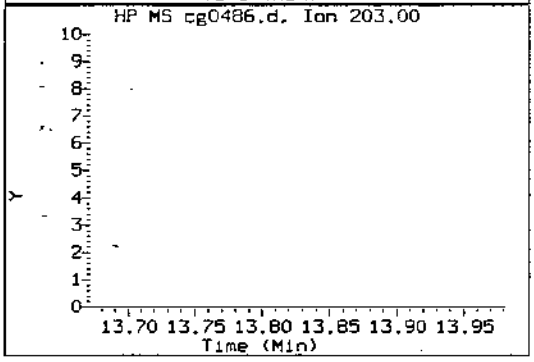
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

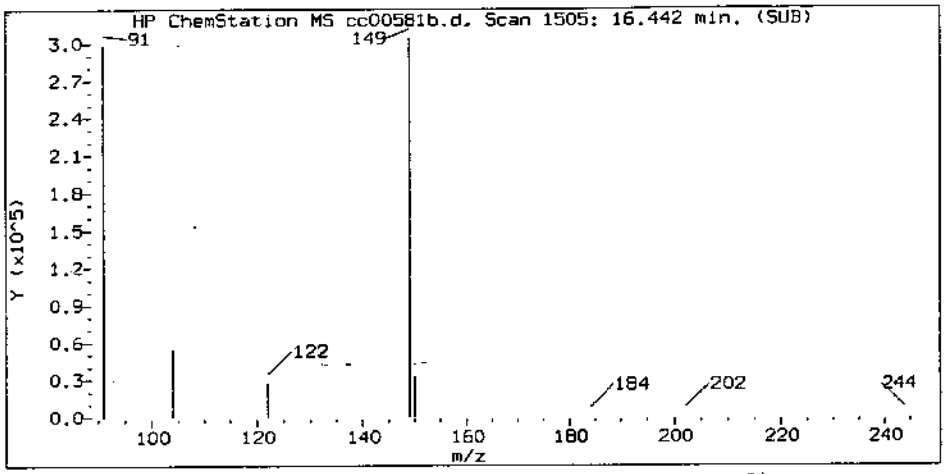
Sample Name: XXXXX

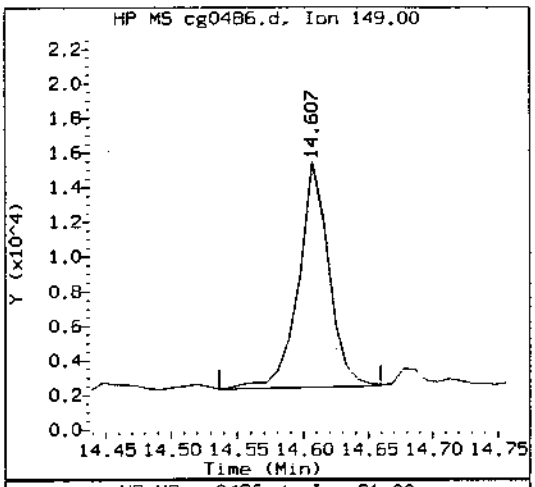
Lab Sample ID: 6339372

Compound Number	:	37
Compound Name	:	Pyrene
Scan Number	:	1289
Retention Time (minutes)	:	13.822
Quant Ion	:	202.0
Area (flag)	:	49362
Concentration (ng/ul)	:	0.0825

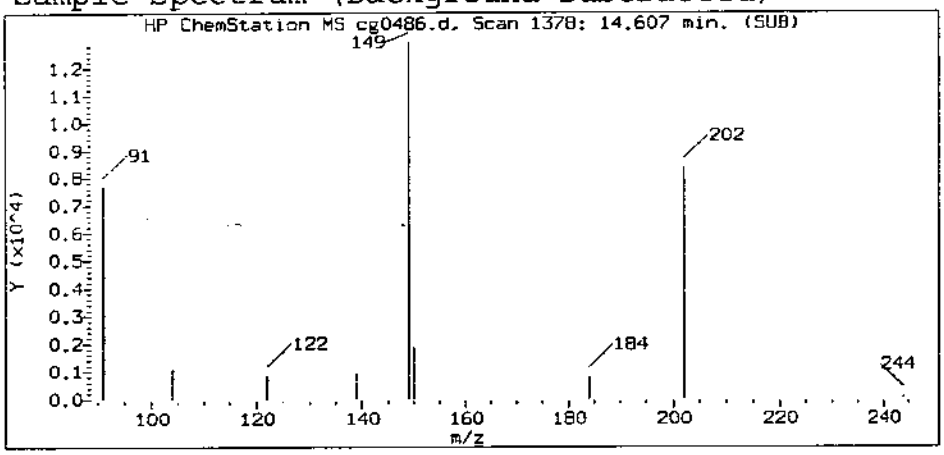
USF83 #698

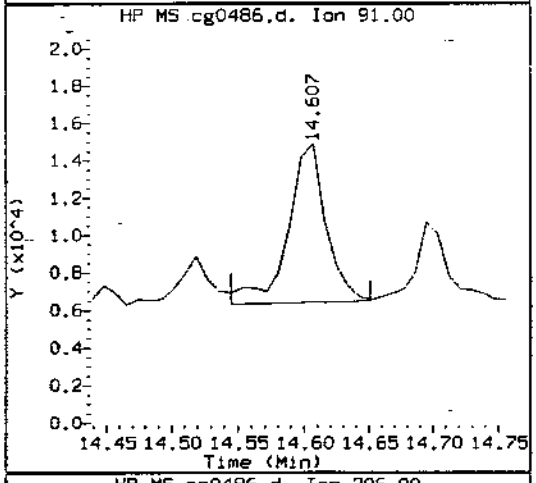
Reference Standard Spectrum for Butylbenzylphthalate



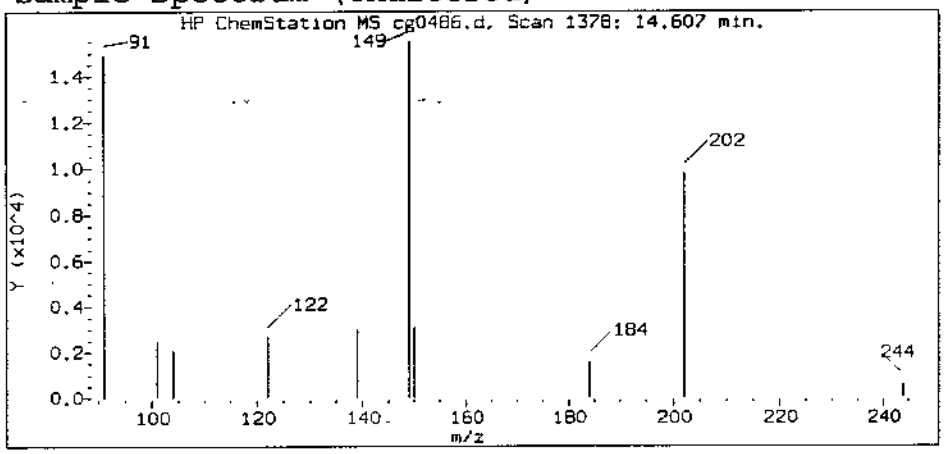


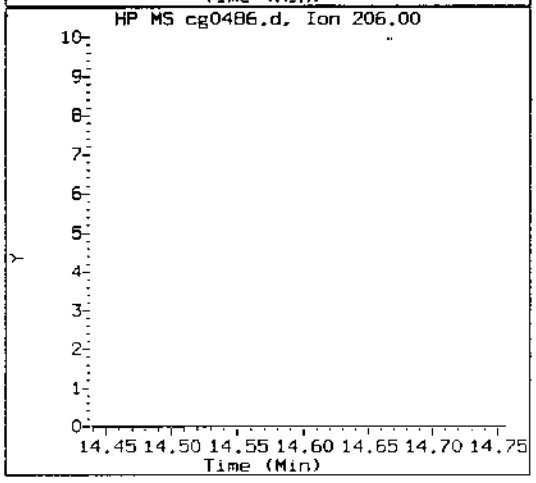
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX

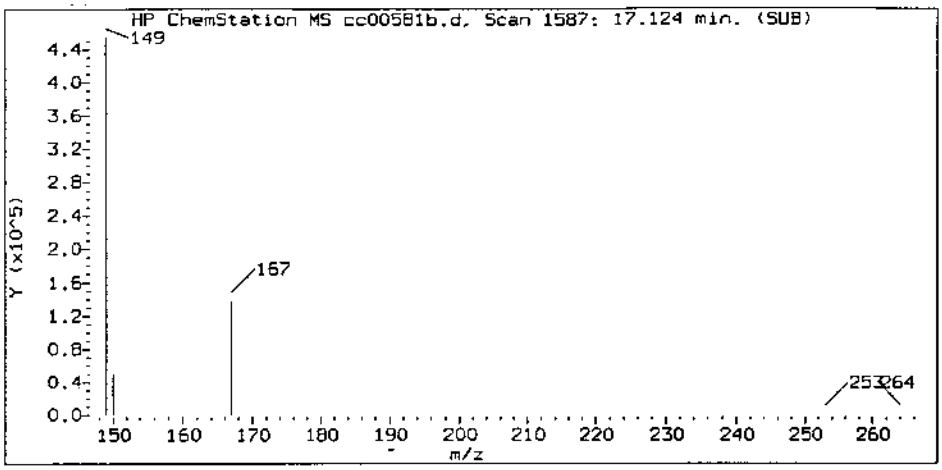
Lab Sample ID: 6339372

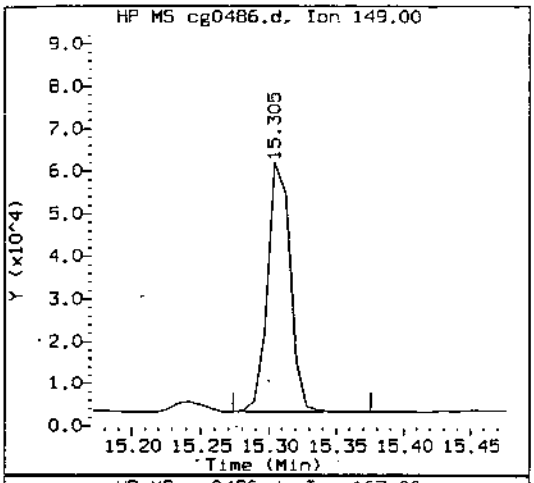
Compound Number	: 39
Compound Name	: Butylbenzylphthalate
Scan Number	: 1378
Retention Time (minutes)	: 14.607
Quant Ion	: 149.0
Area (flag)	: 21043
Concentration (ng/ul)	: 0.2015

USF03 8691

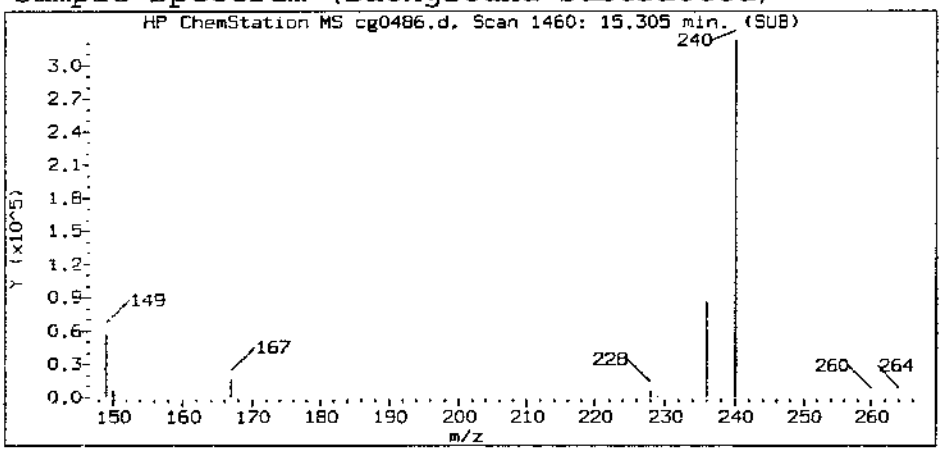
Hit Data Report for data file /chem/HP10623.i/11jul15.b/cg0486.d, generated on 07/15/2011 at 14:11

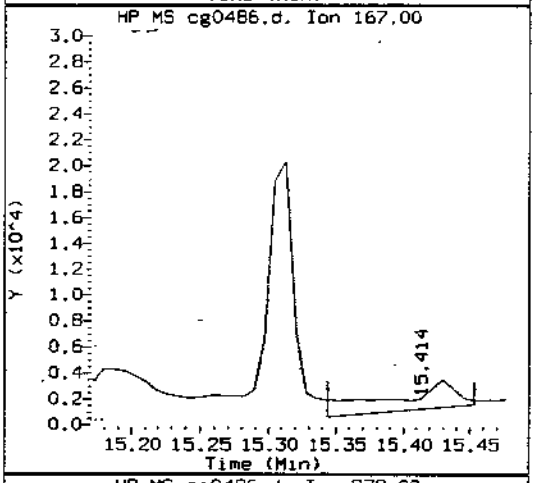
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



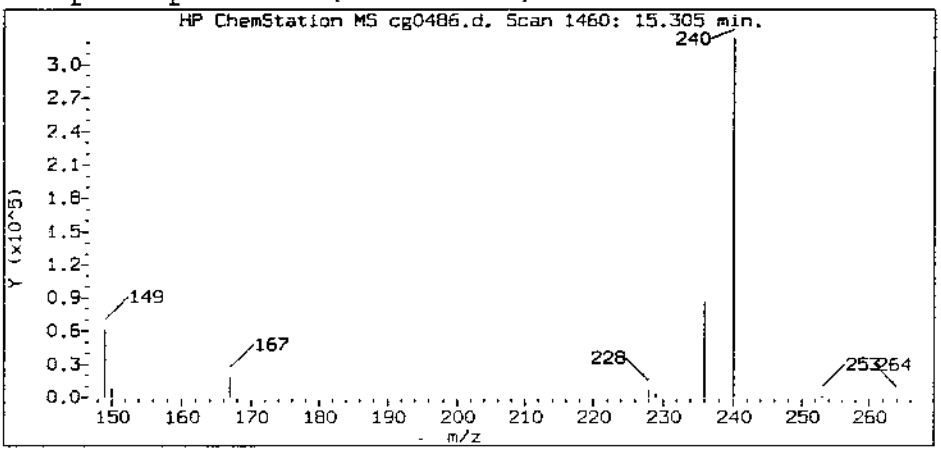


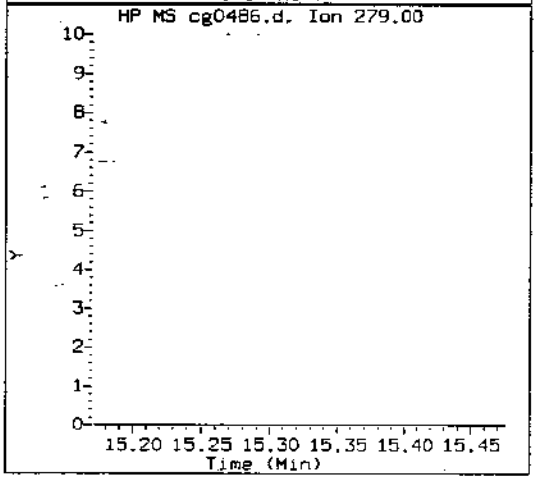
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

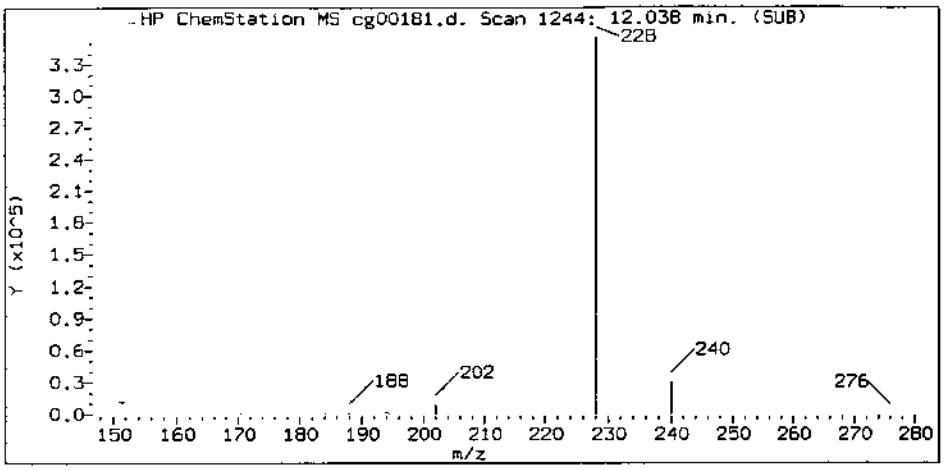
Sample Name: XXXXX

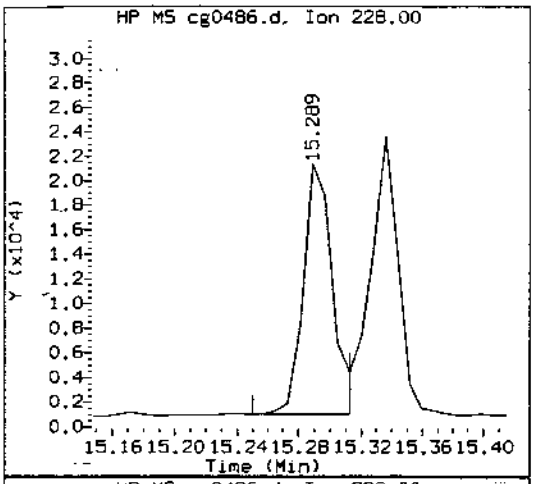
Lab Sample ID: 6339372

Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1460
Retention Time (minutes)	: 15.305
Quant Ion	: 149.0
Area (flag)	: 69274
Concentration (ng/ul)	: 0.3037

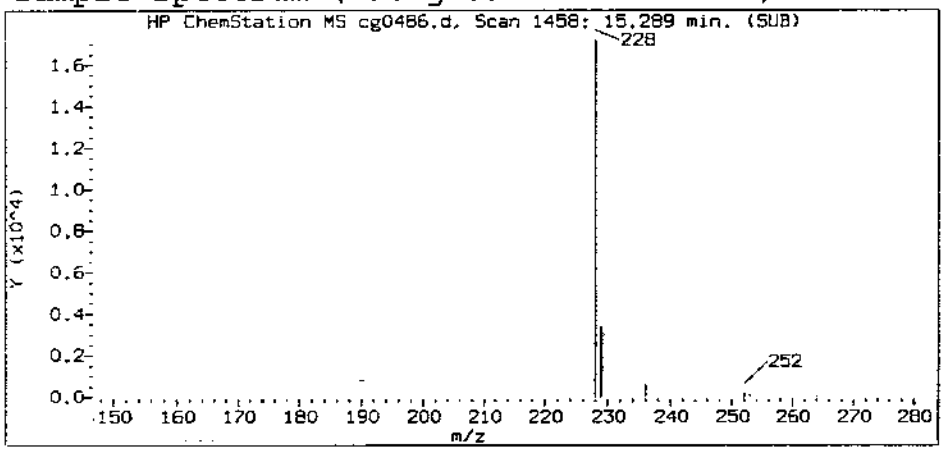
USF03 8692

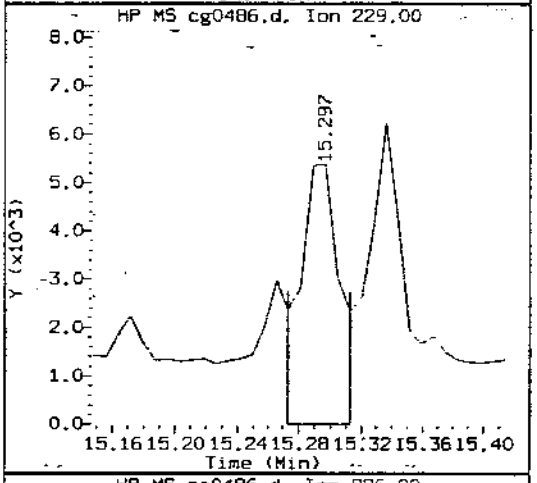
Reference Standard Spectrum for Benzo(a)anthracene



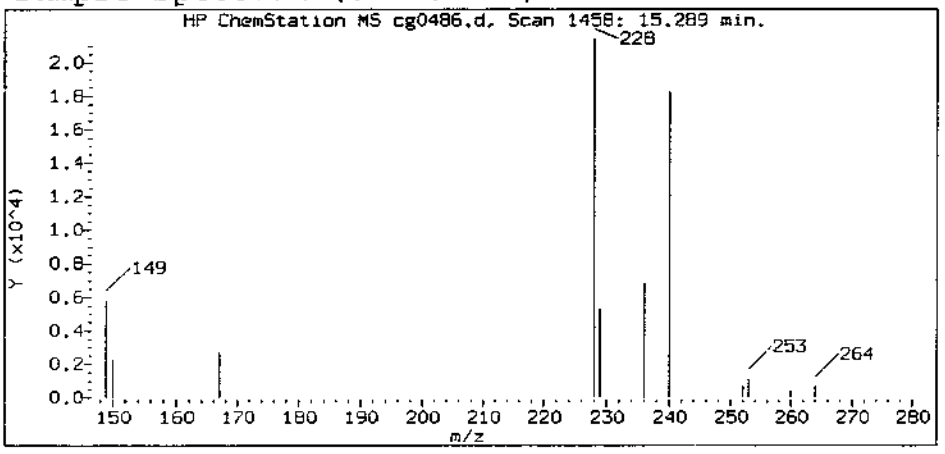


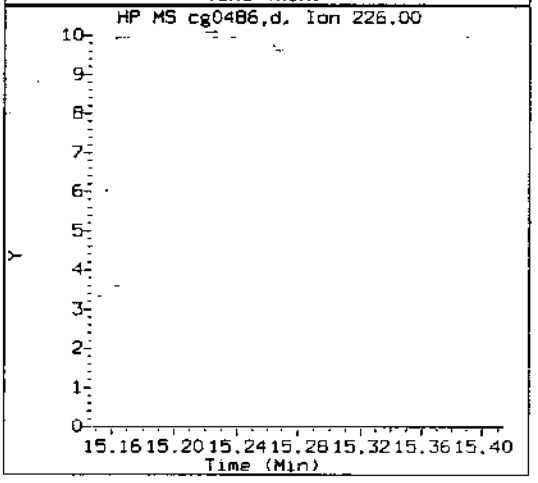
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

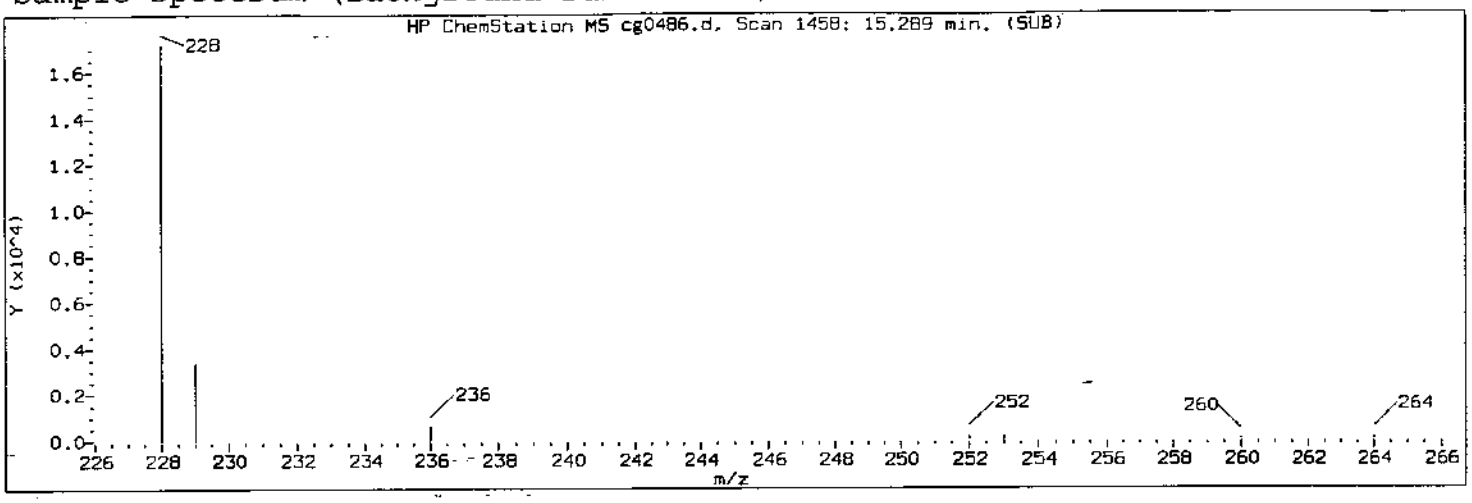
Sample Name: XXXXX

Lab Sample ID: 6339372

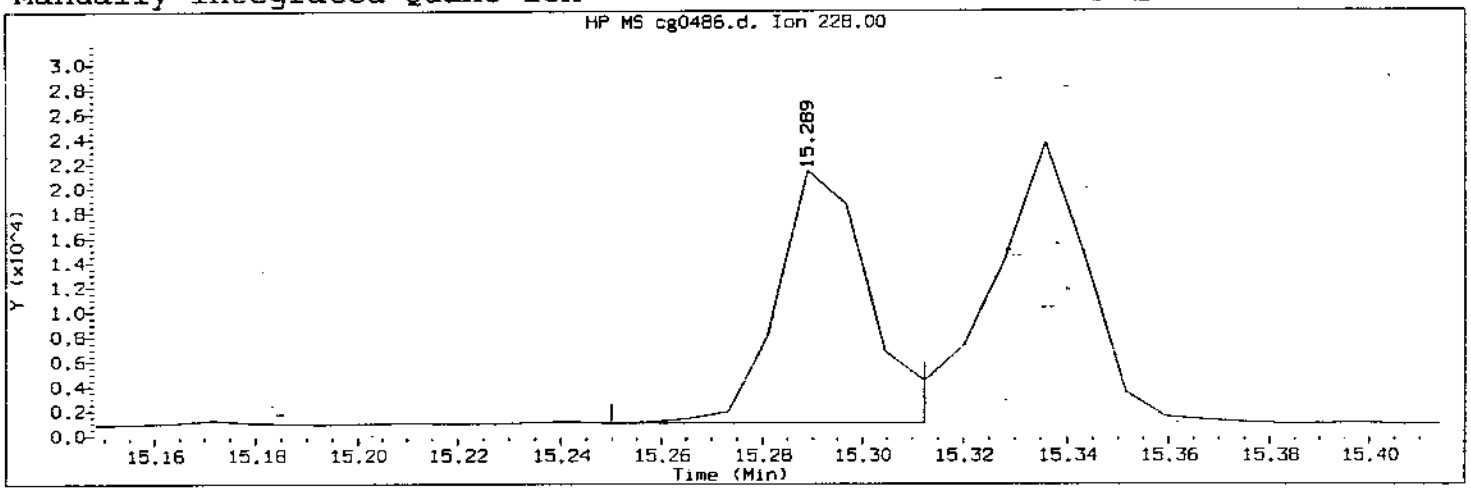
Compound Number	: 41
Compound Name	: Benzo(a)anthracene
Scan Number	: 1458
Retention Time (minutes)	: 15.289
Quant Ion	: 228.0
Area (flag)	: 26270 M
Concentration (ng/ul)	: 0.0556

USF03 8693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339372

Compound Number	:	41
Compound Name	:	Benzo(a)anthracene
Scan Number	:	1458
Retention Time (minutes)	:	15.289
Quant Ion	:	228
Area (flag)	:	26270 M
Concentration (ng/ul)	:	0.0556
Integration start scan	:	1452 Integration stop scan: 1460
Y at integration start	:	1036 Y at integration end: 1036

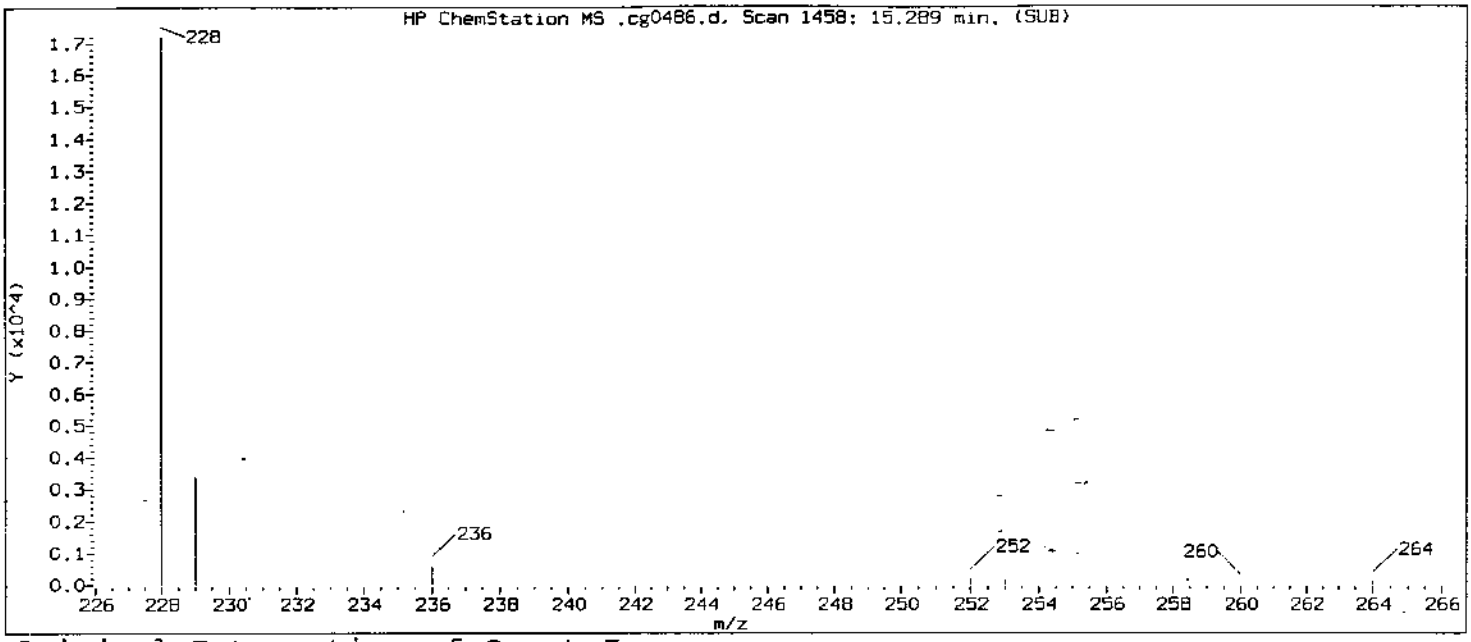
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Greg J. Drahovsky Senior Chemist JUL 15 2011

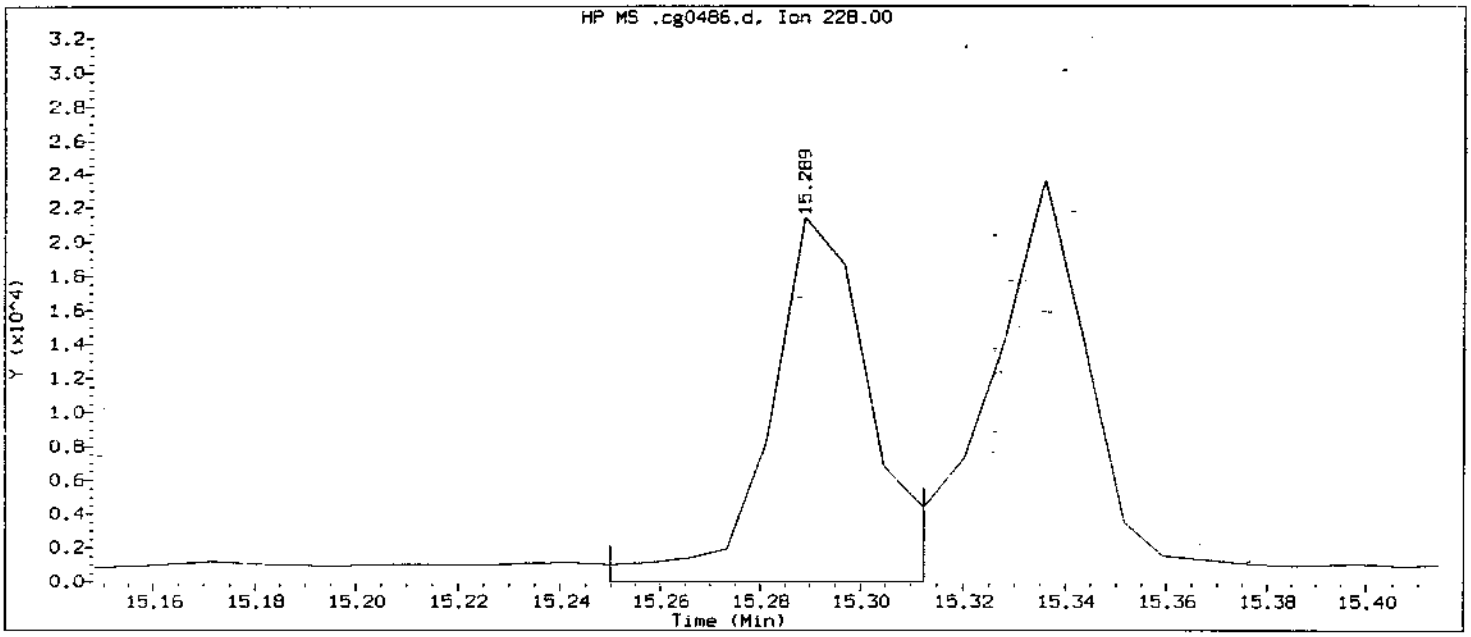
GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

Manual Integration Report for data file /chem/HP10623.i/11jul15.b/cg0486.d, generated on 07/15/2011 at 14:11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 09:55 Automation

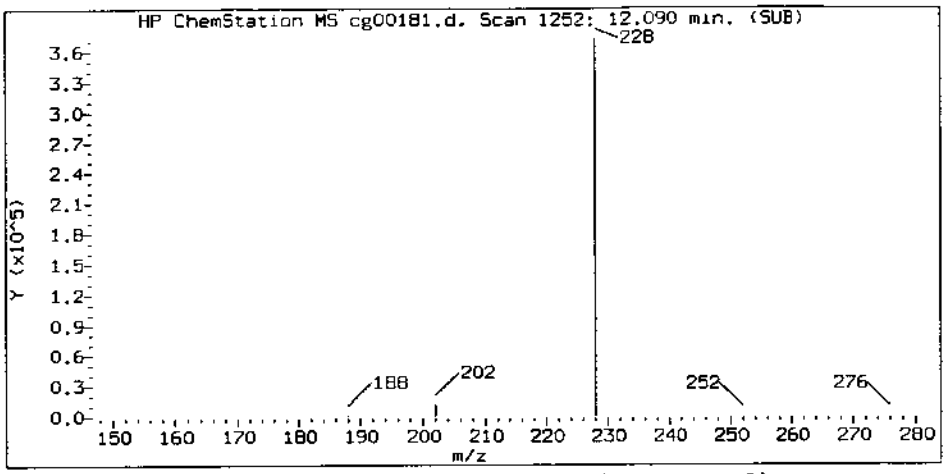
Sample Name: XXXXX Lab Sample ID: 6339372

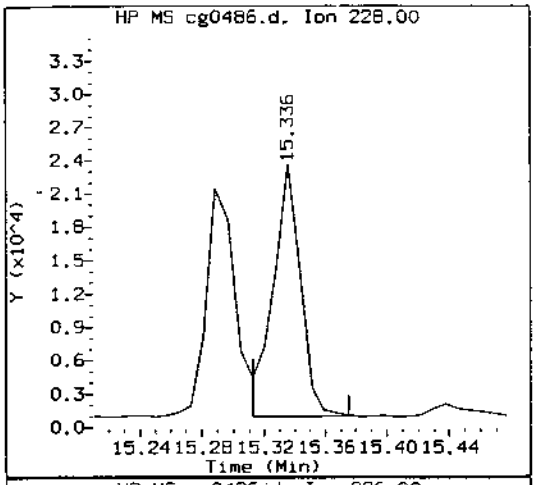
Compound Number	:	41
Compound Name	:	Benzo(a)anthracene
Scan Number	:	1458
Retention Time (minutes)	:	15.289
Quant Ion	:	228
Area	:	29476
Concentration (ng/ul)	:	0.0623
Integration start scan	:	1452 Integration stop scan: 1460
Y at integration start	:	0 Y at integration end: 0

USF03 8695

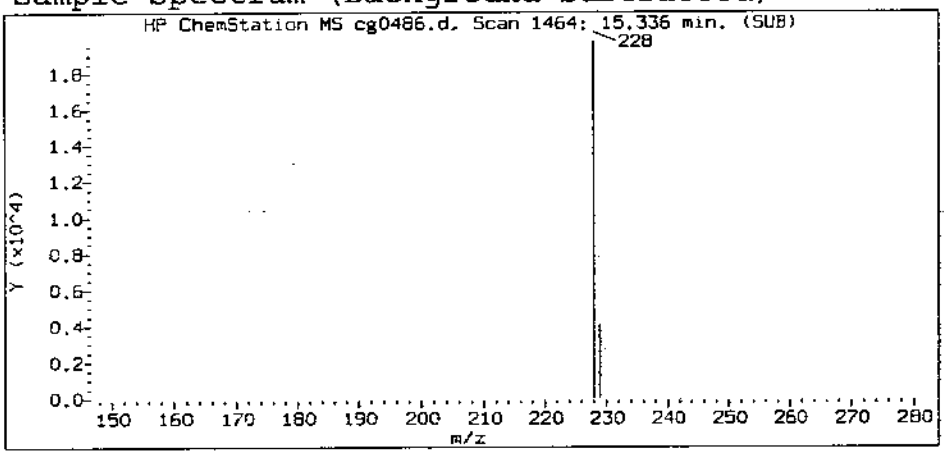
Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0486.d, generated on 07/15/2011 at 14:11

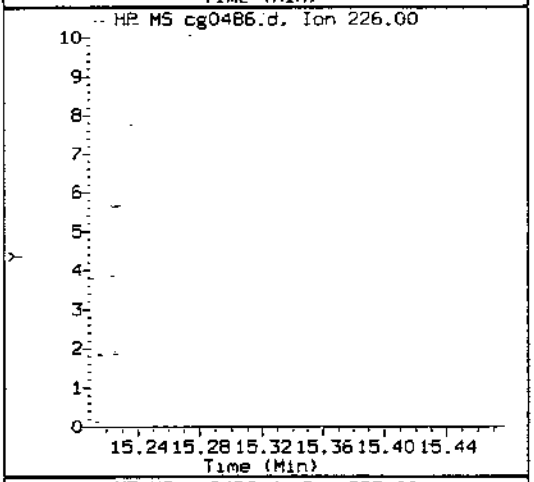
Reference Standard Spectrum for Chrysene



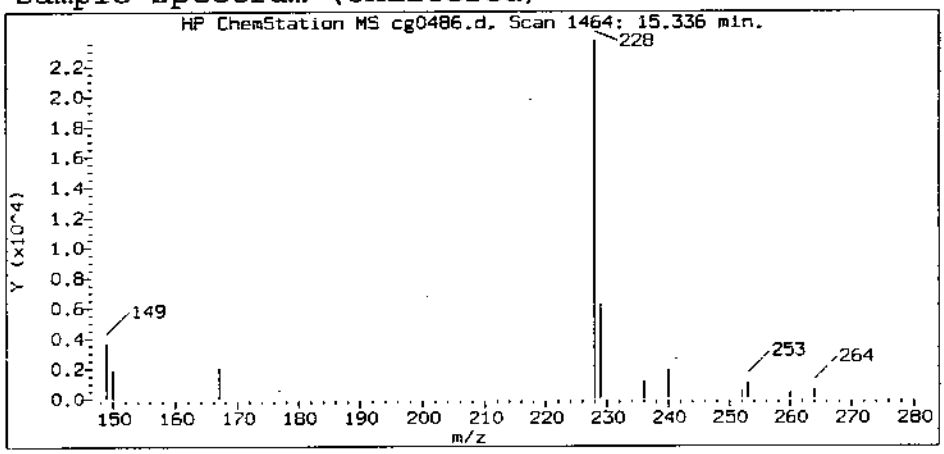


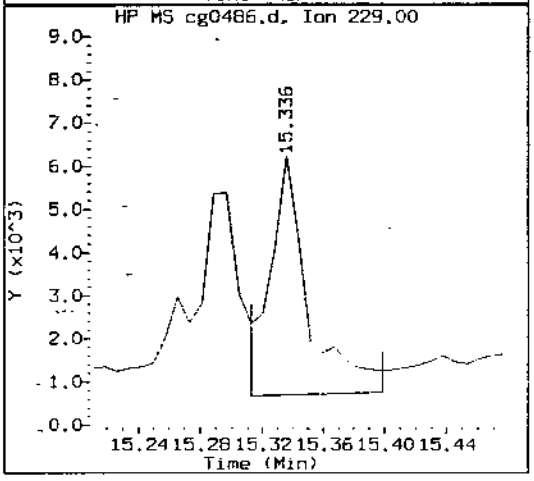
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

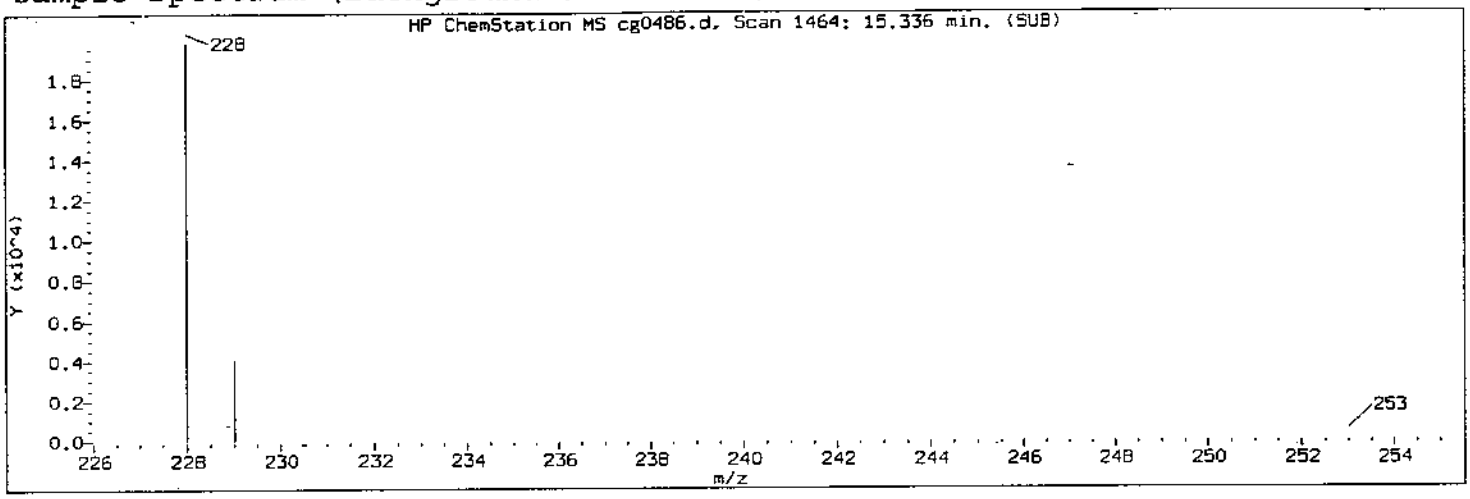
Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX

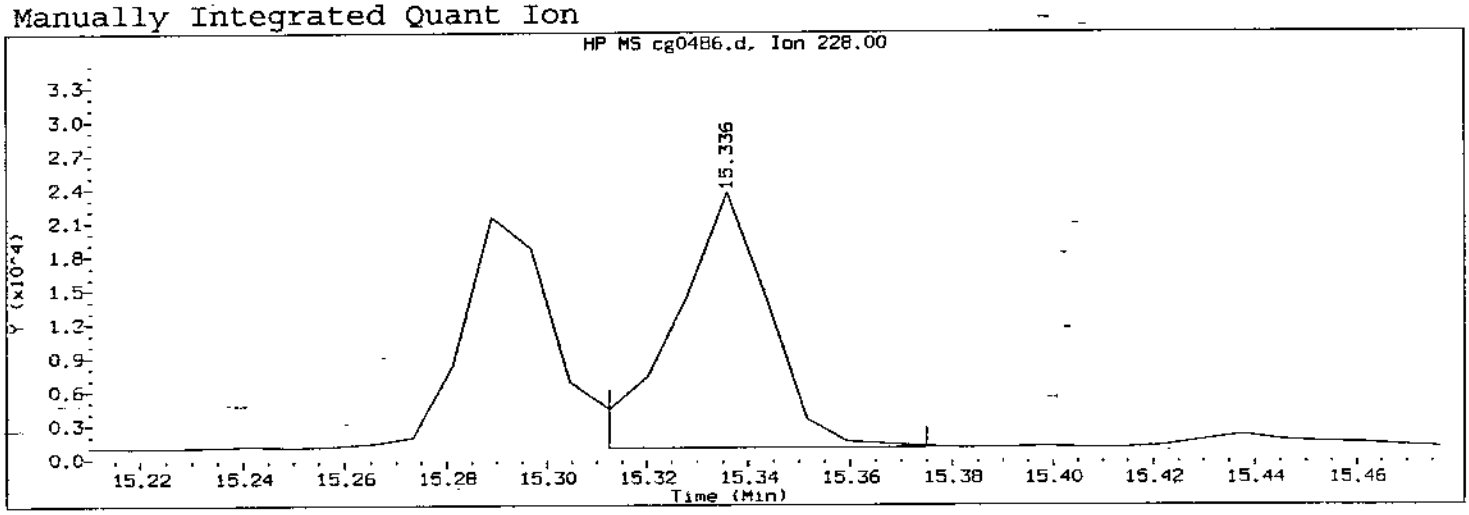
Lab Sample ID: 6339372

Compound Number	: 43
Compound Name	: Chrysene
Scan Number	: 1464
Retention Time (minutes)	: 15.336
Quant Ion	: 228.0
Area (flag)	: 29294 M
Concentration (ng/ul)	: 0.0565

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339372

Compound Number	:	43
Compound Name	:	Chrysene
Scan Number	:	1464
Retention Time (minutes)	:	15.336
Quant Ion	:	228
Area (flag)	:	29294 M
Concentration (ng/ul)	:	0.0565
Integration start scan	:	1460 Integration stop scan: 1468
Y at integration start	:	981 Y at integration end: 981

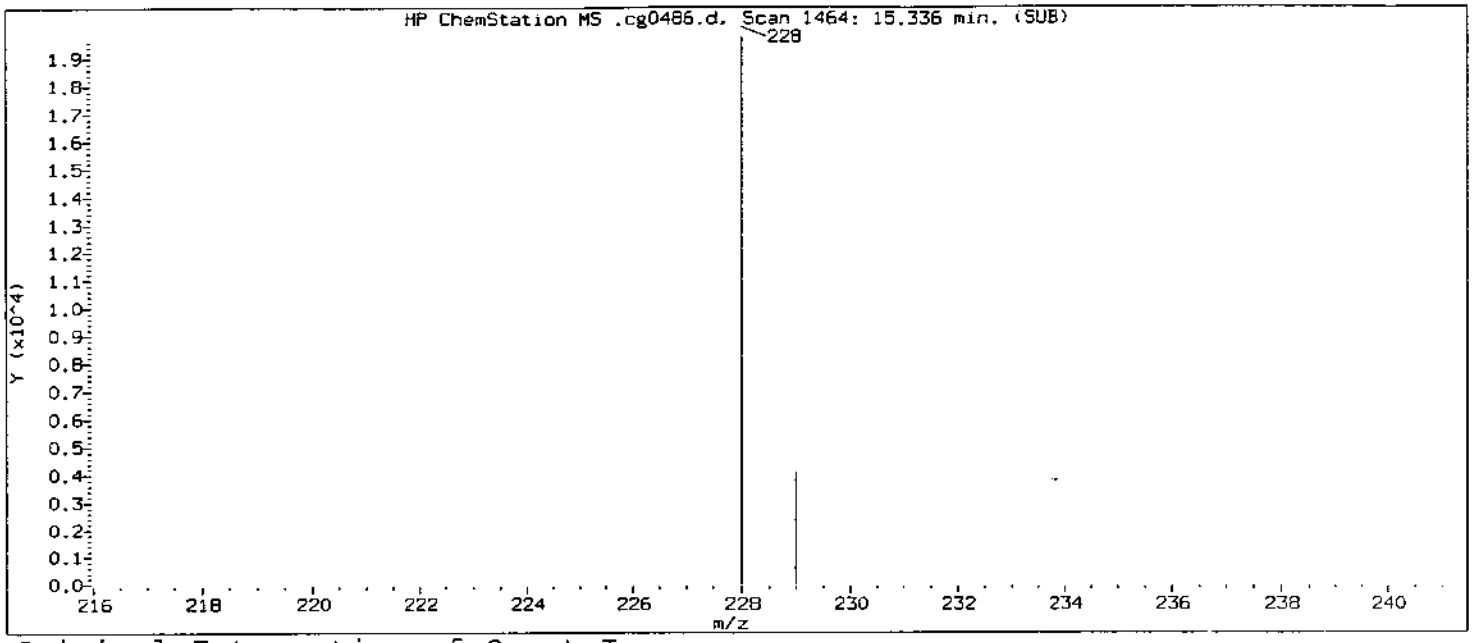
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Greg Drahovsky Senior Chemist JUL 15 2011

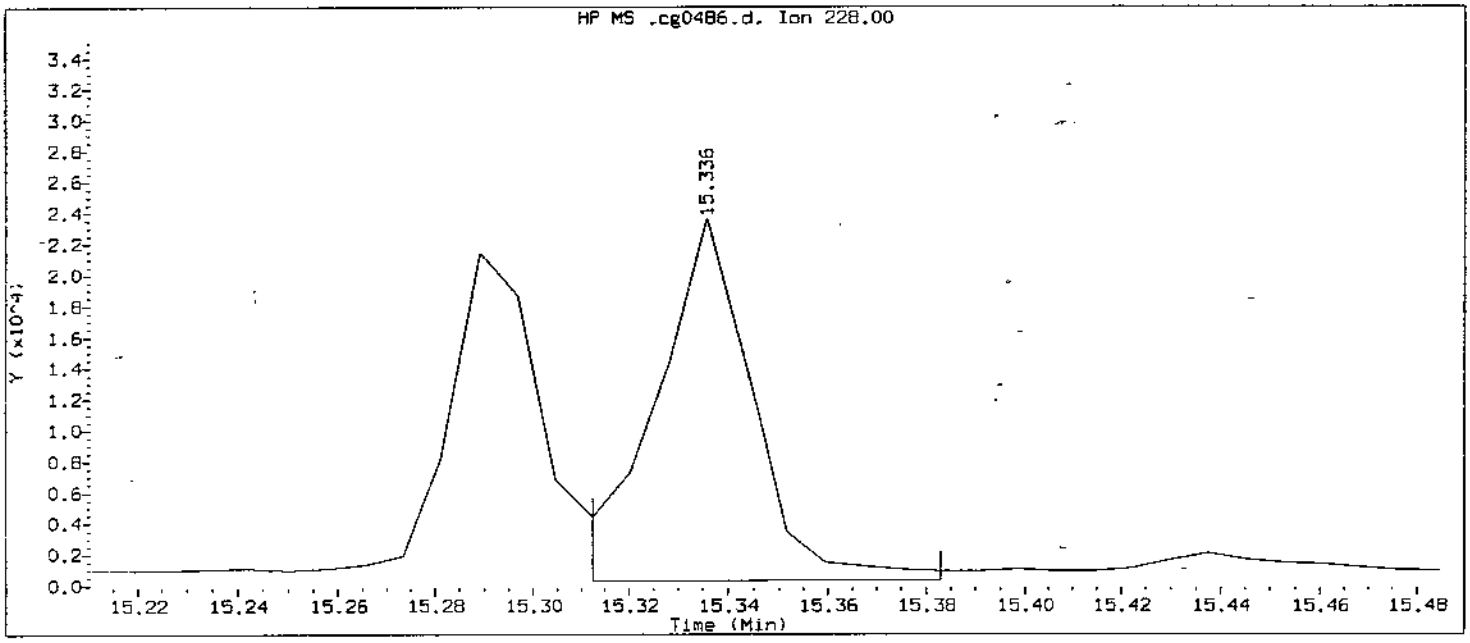
GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

USF03 8697

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 09:55 Automation

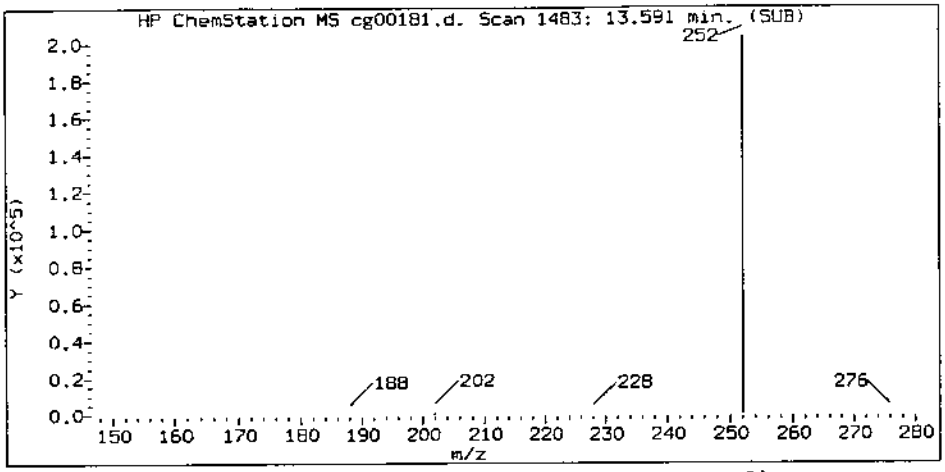
Sample Name: XXXXX Lab Sample ID: 6339372

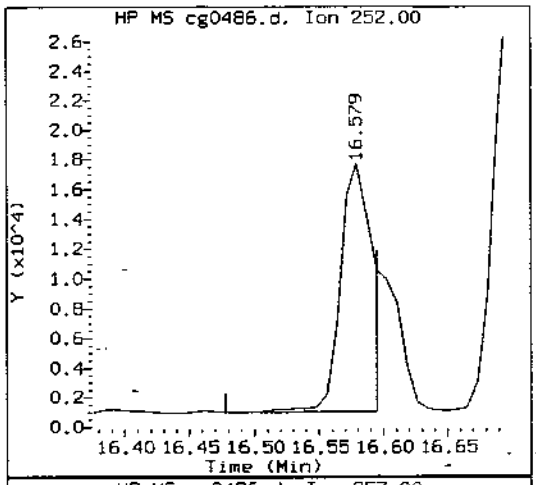
Compound Number	: 43
Compound Name	: Chrysene
Scan Number	: 1464
Retention Time (minutes)	: 15.336
Quant Ion	: 228
Area	: 32484
Concentration (ng/ul)	: 0.0627
Integration start scan	: 1460 Integration stop scan: 1469
Y at integration start	: 309 Y at integration end: 359

USF83 8698

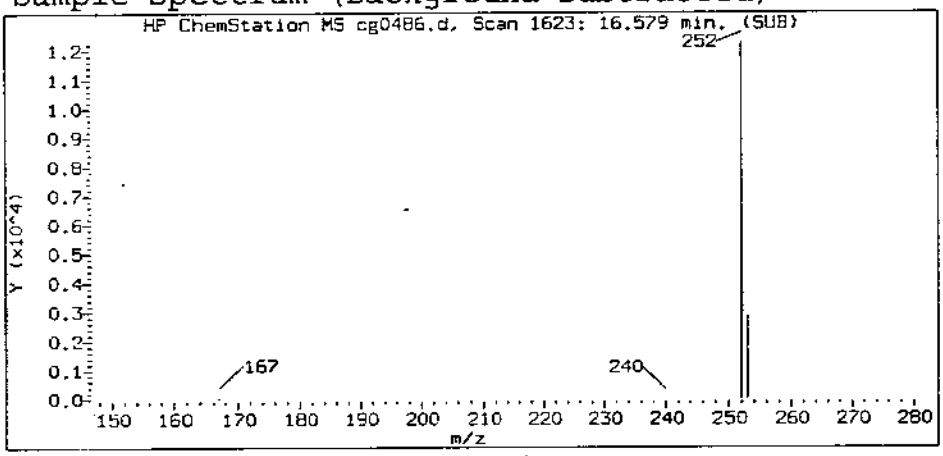
Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0486.d, generated on 07/15/2011 at 14:11

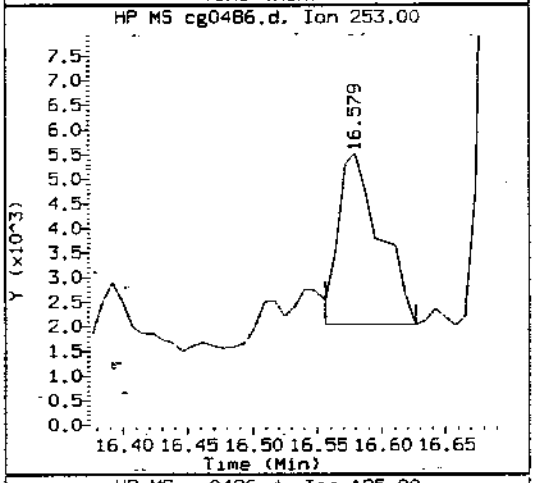
Reference Standard Spectrum for Benzo(b)fluoranthene



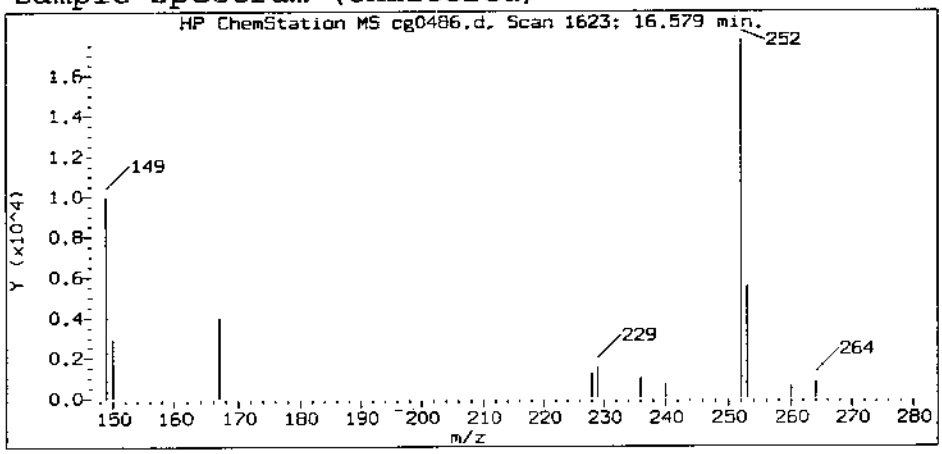


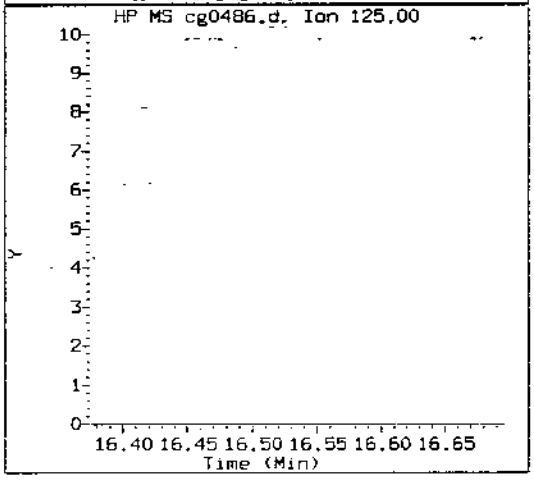
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX

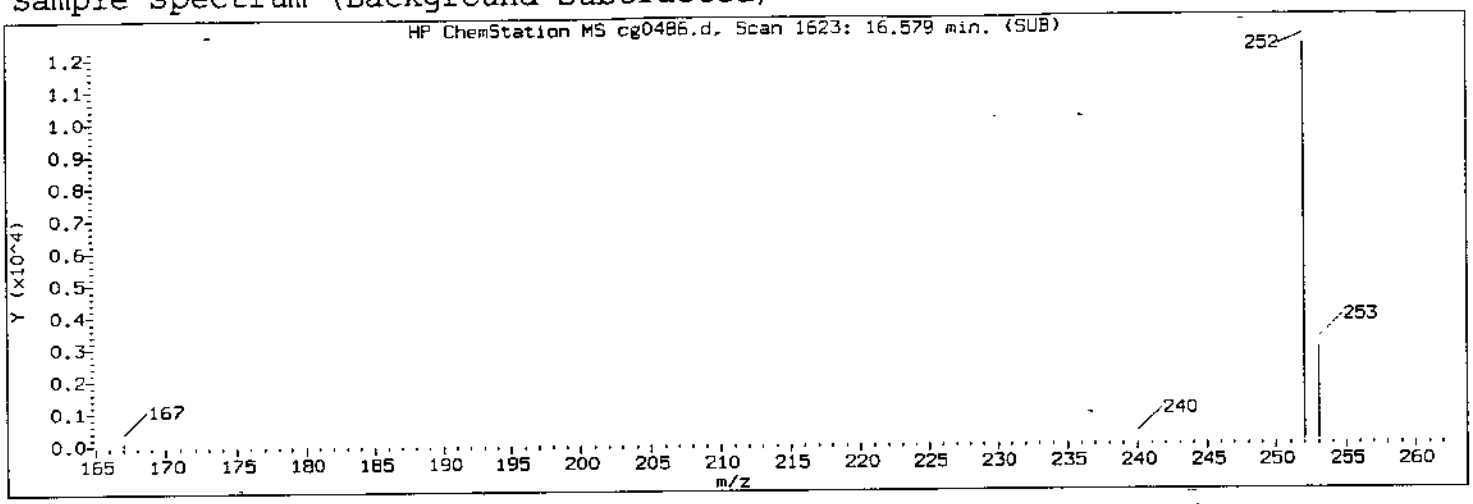
Lab Sample ID: 6339372

Compound Number	: 45
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1623
Retention Time (minutes)	: 16.579
Quant Ion	: 252.0
Area (flag)	: 29336 M
Concentration (ng/ul)	: 0.0607

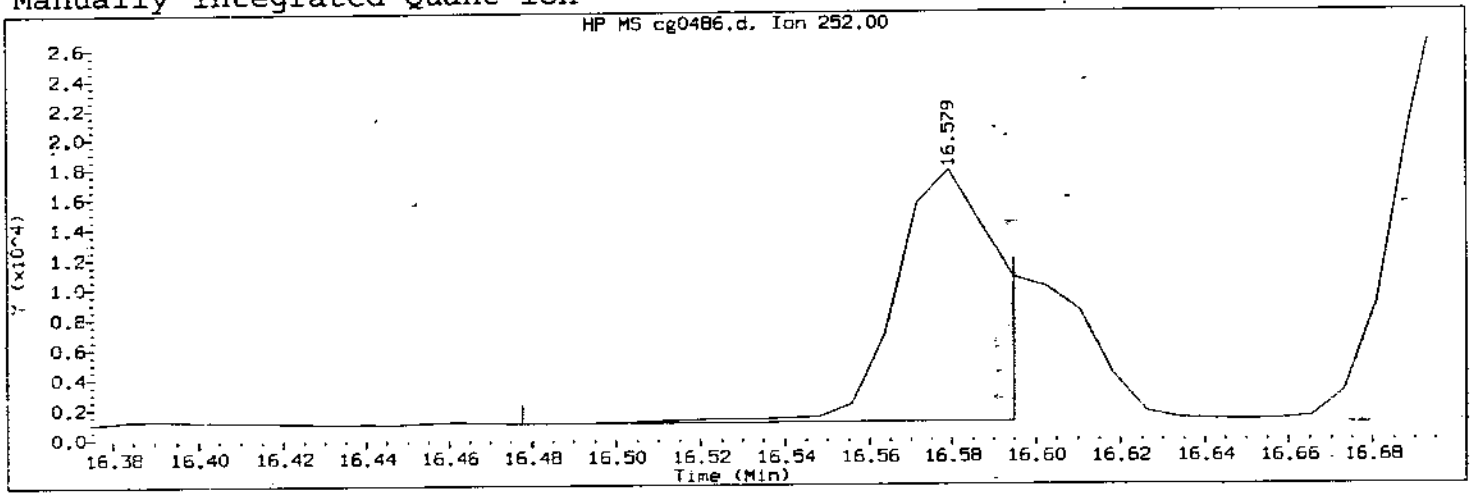
USP03 8699

Hit Data Report for data file /chem/HP10623.i/11jul15.b/cg0486.d, generated on 07/15/2011 at 14:11

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339372

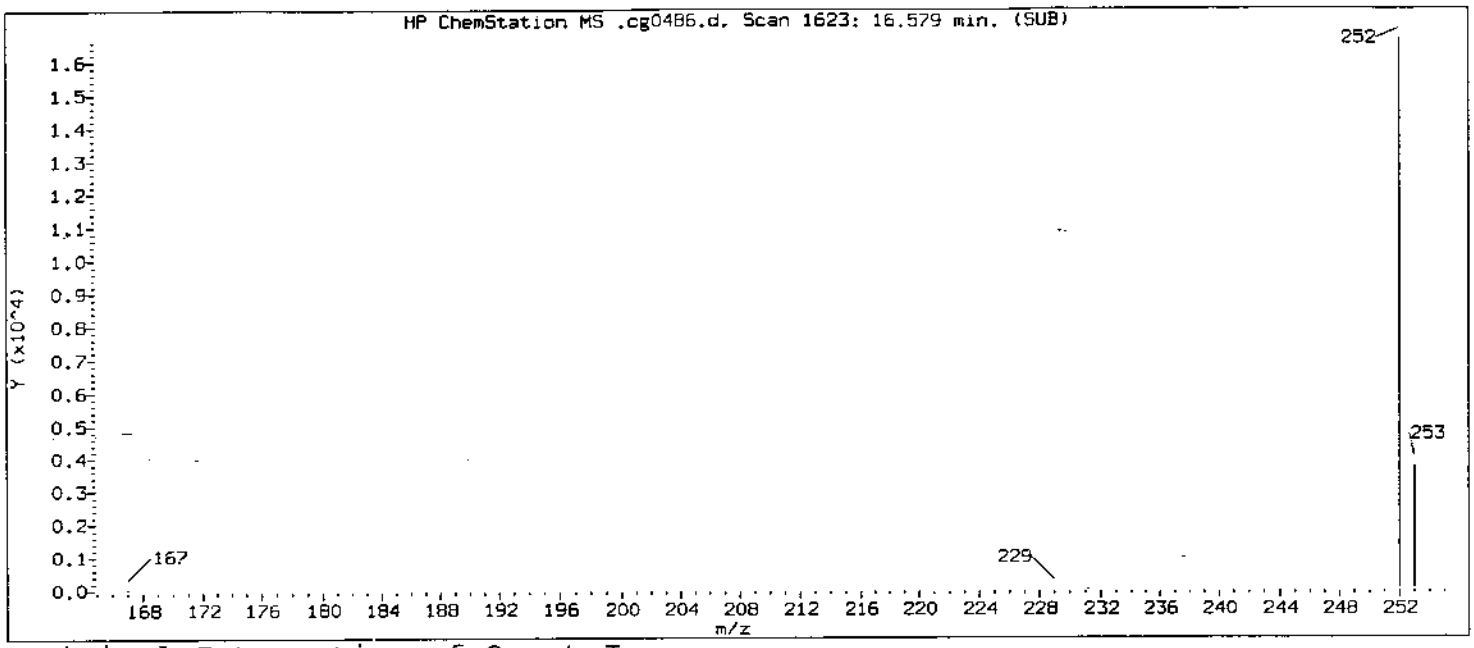
Compound Number	:	45
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1623
Retention Time (minutes)	:	16.579
Quant Ion	:	252
Area (flag)	:	29336 M
Concentration (ng/ul)	:	0.0607
Integration start scan	:	1609 Integration stop scan: 1624
Y at integration start	:	968 Y at integration end: 1012

Reason for manual integration (circle one): missed peak improper integration

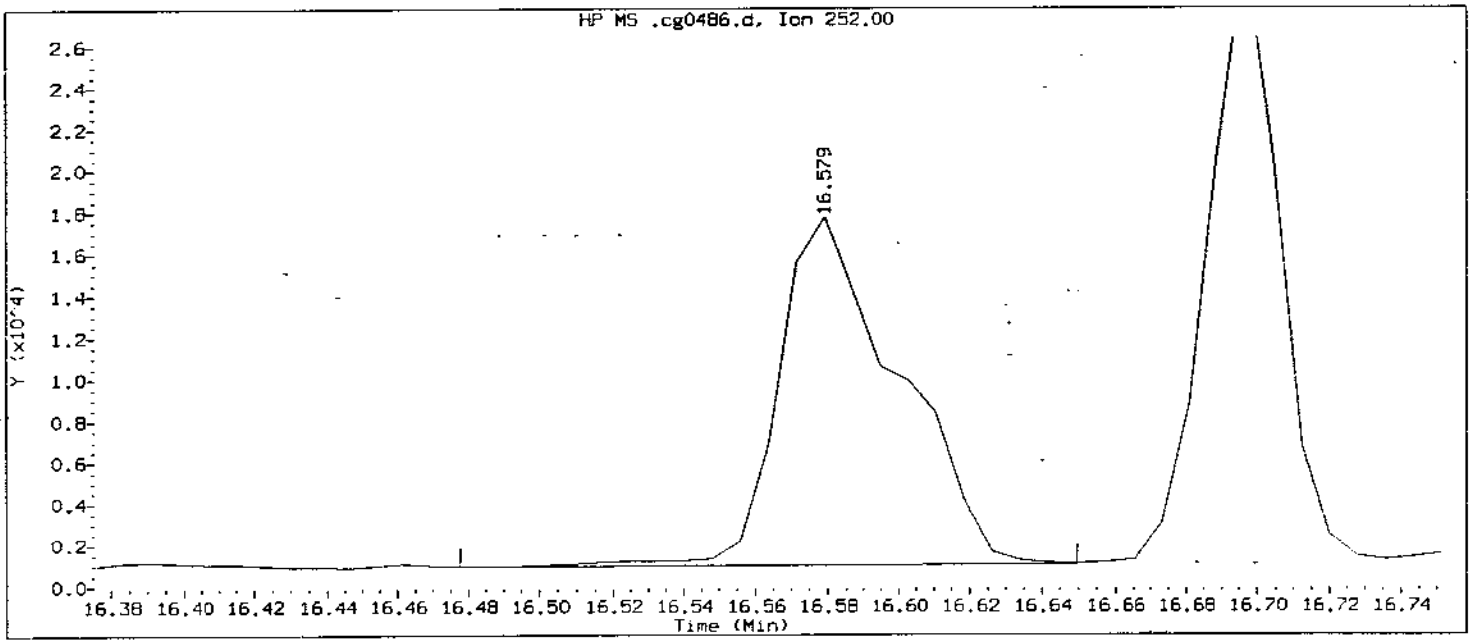
Analyst responsible for change: _____ Greg Grahovsky Senior Chemist JUL 15 2011

GC/MS audit/management approval: _____ Mark A. Ratcliff Senior Specialist JUL 19 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 09:55 Automation

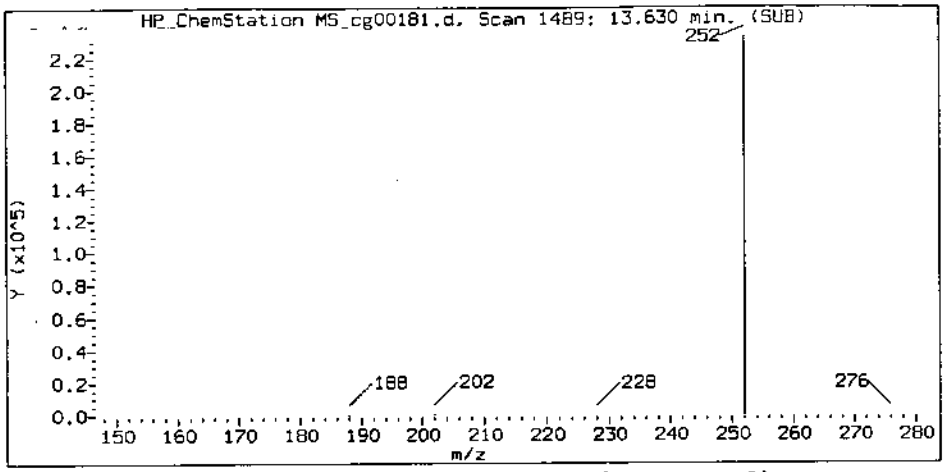
Sample Name: XXXXX Lab Sample ID: 6339372

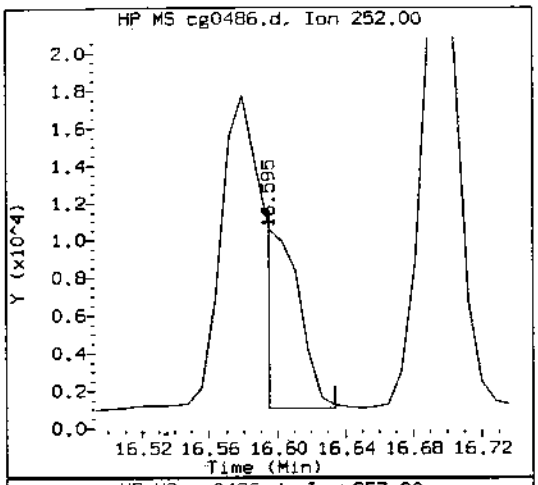
Compound Number : 45
Compound Name : Benzo(b)fluoranthene
Scan Number : 1623
Retention Time (minutes): 16.579
Quant Ion : 252
Area : 38890
Concentration (ng/ul) : 0.0805
Integration start scan : 1609 Integration stop scan: 1631
Y at integration start : 968 Y at integration end: 1033

USF03 #781

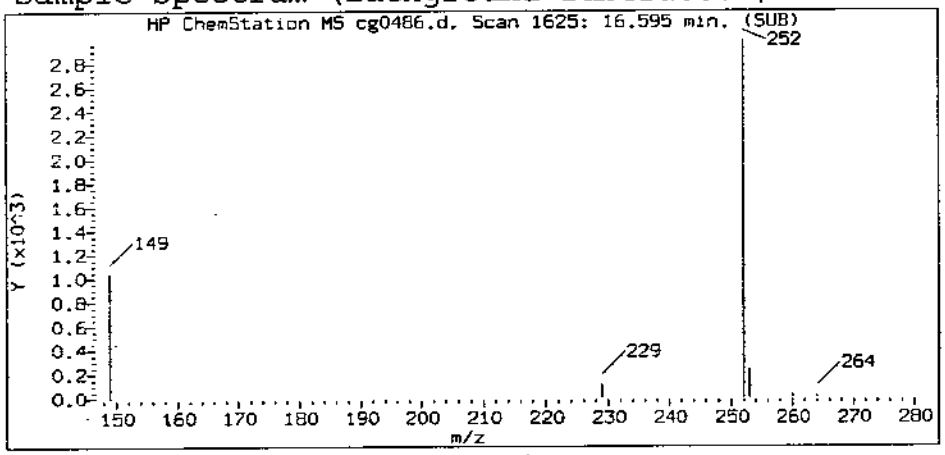
Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0486.d, generated on 07/15/2011 at 14:11

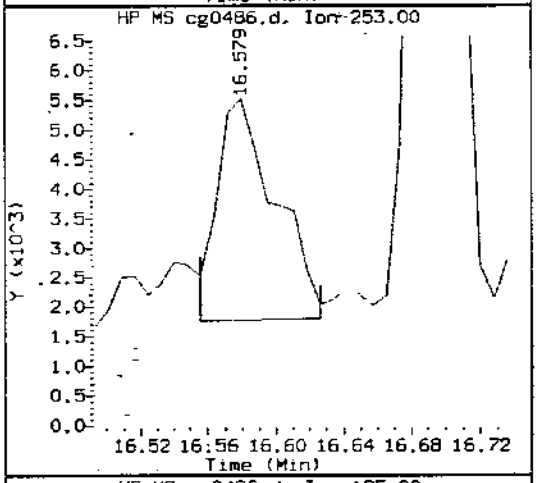
Reference Standard Spectrum for Benzo(k)fluoranthene



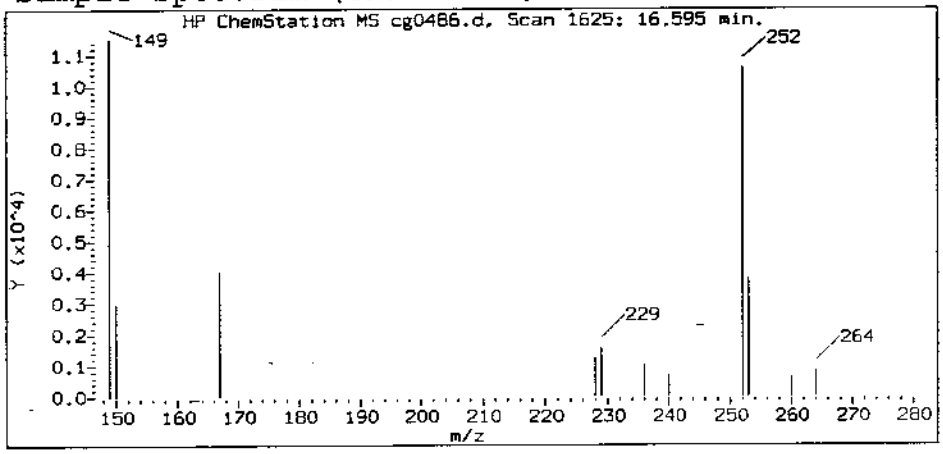


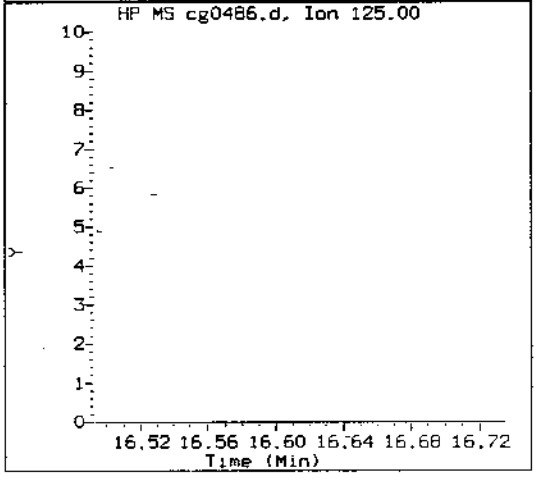
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

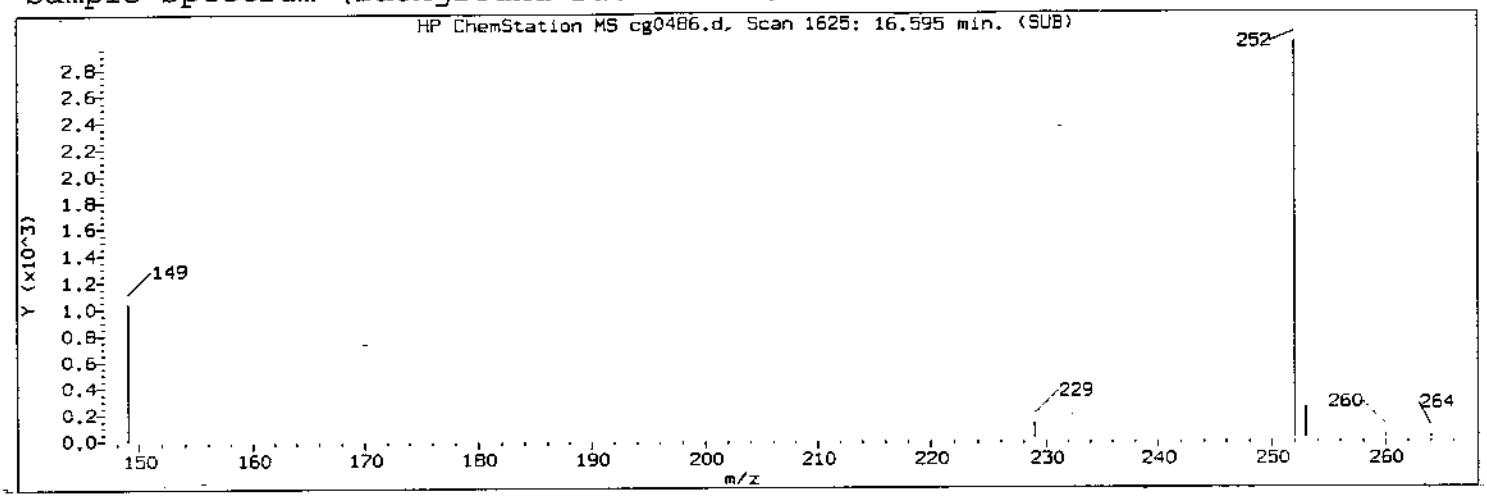
Sample Name: XXXXX

Lab Sample ID: 6339372

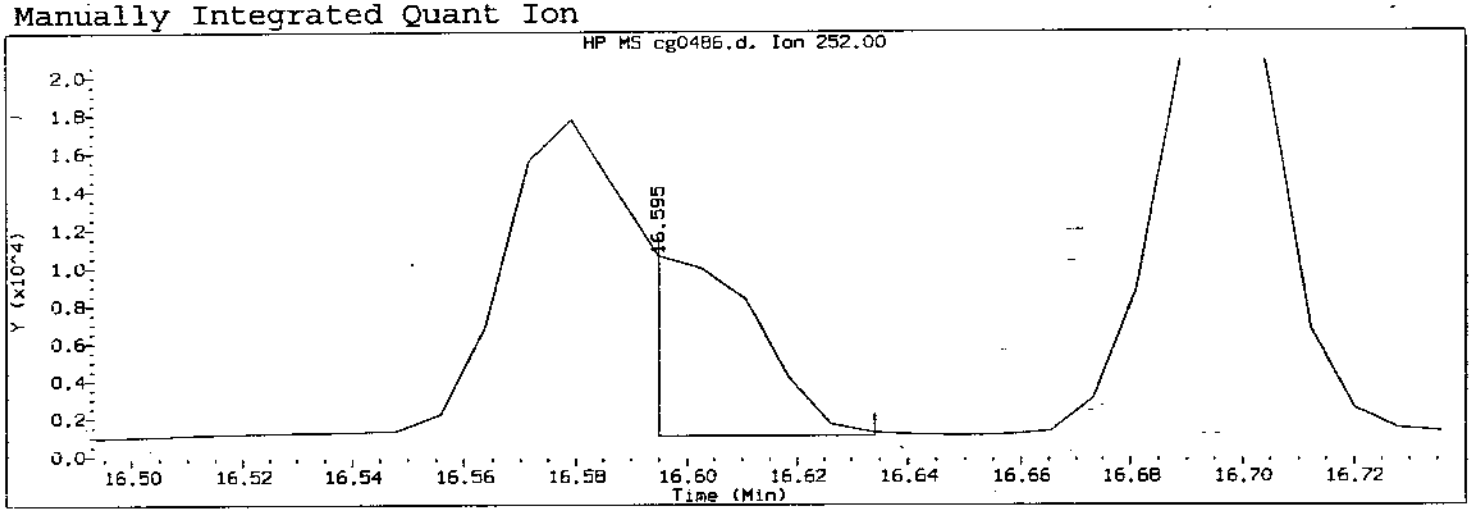
Compound Number	: 46
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1625
Retention Time (minutes)	: 16.595
Quant Ion	: 252.0
Area (flag)	: 13818 M
Concentration (ng/ul)	: 0.0267

USF03 0762

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339372

Compound Number	: 46		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1625		
Retention Time (minutes)	: 16.595		
Quant Ion	: 252		
Area (flag)	: 13818	M	
Concentration (ng/ul)	: 0.0267		
Integration start scan	: 1624	Integration stop scan:	1629
Y at integration start	: 1080	Y at integration end:	1080

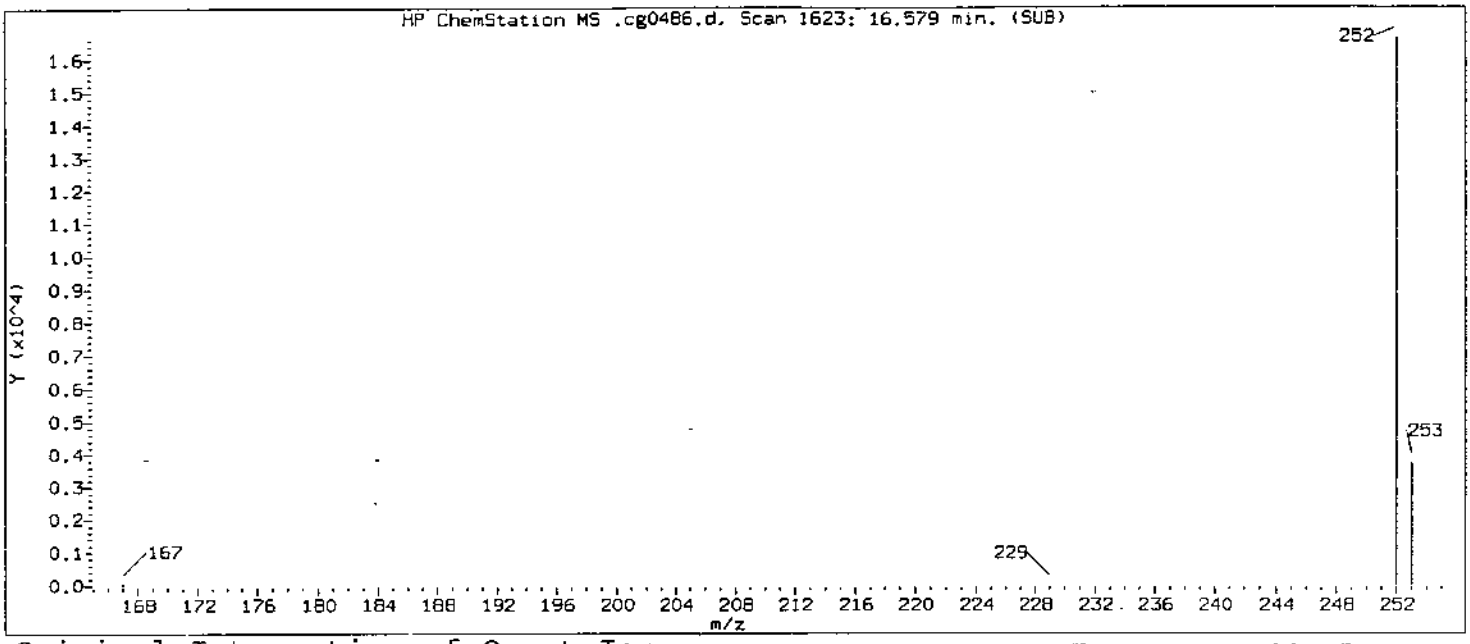
Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: Greg J. Grabovsky Senior Chemist JUL 15 2011

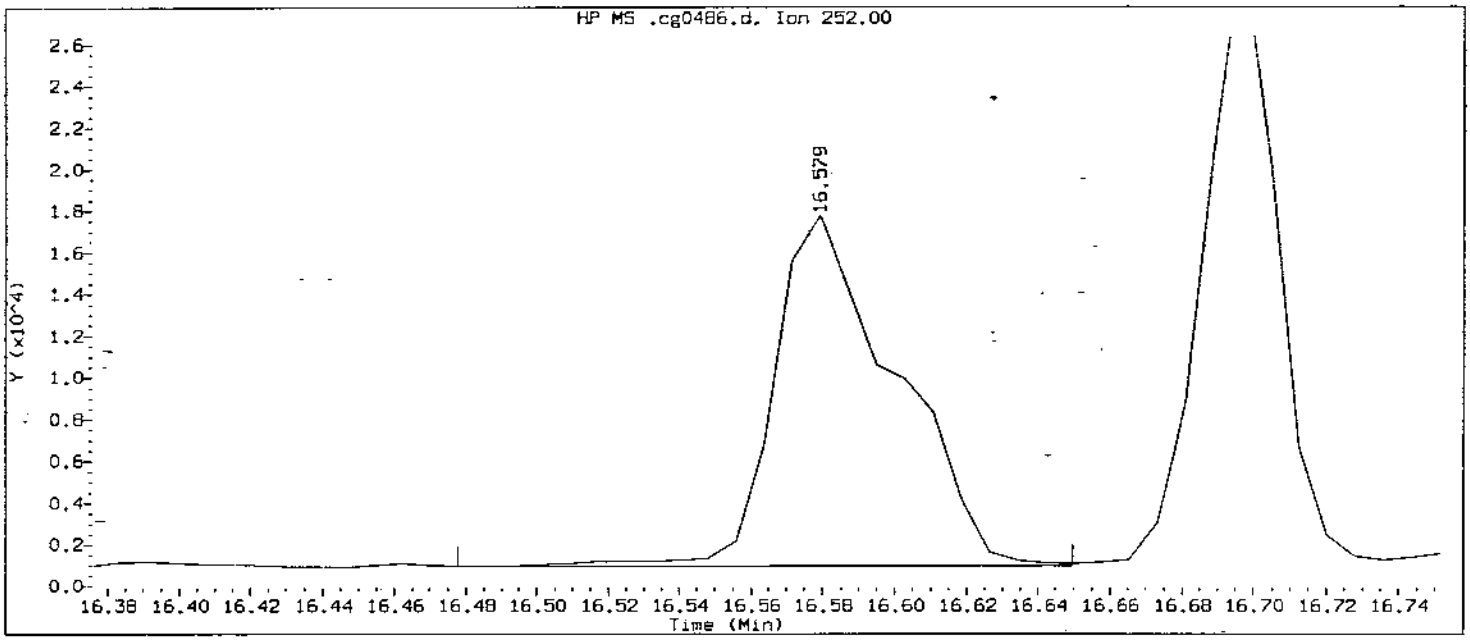
GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

USEPA 0293

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 09:55 Automation

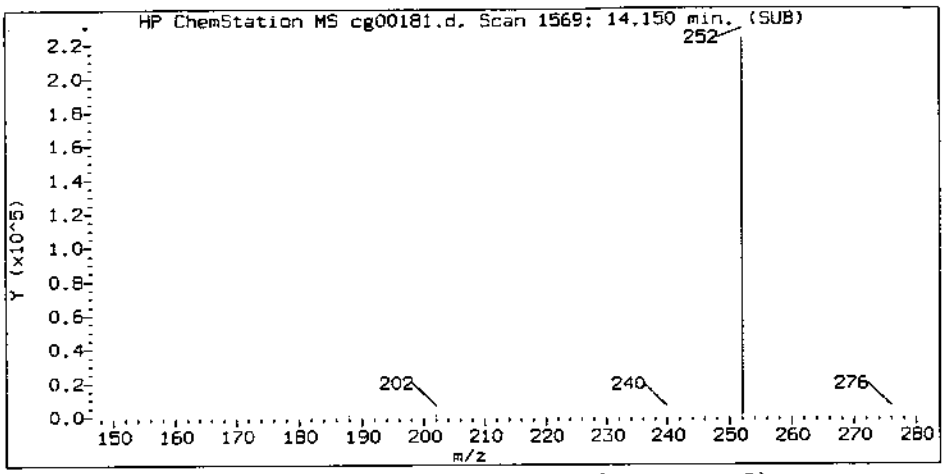
Sample Name: XXXXX Lab Sample ID: 6339372

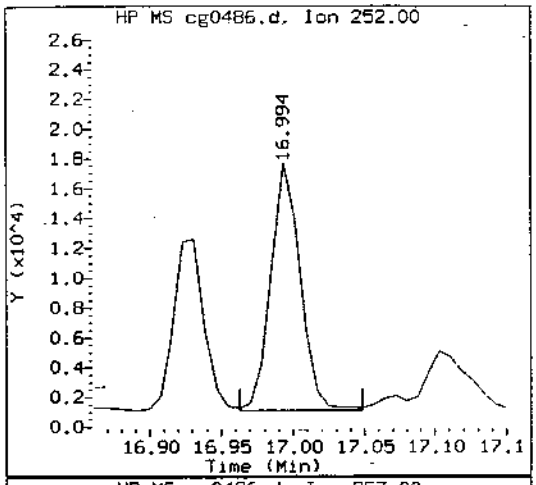
Compound Number	:	46
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1623
Retention Time (minutes)	:	16.579
Quant Ion	:	252
Area	:	39287
Concentration (ng/ul)	:	0.0759
Integration start scan	:	1609 Integration stop scan: 1631
Y at integration start	:	933 Y at integration end: 991

USF03 6784

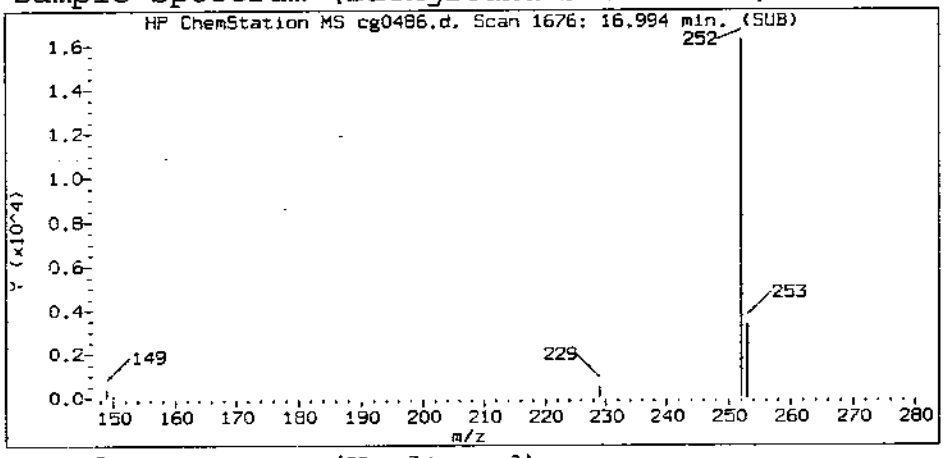
Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0486.d, generated on 07/15/2011 at 14:11

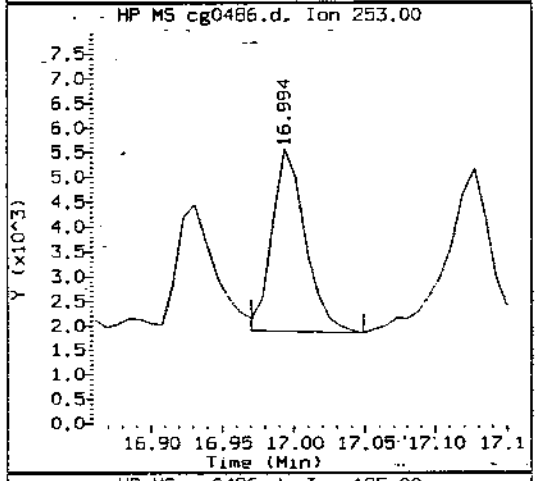
Reference Standard Spectrum for Benzo(a)pyrene



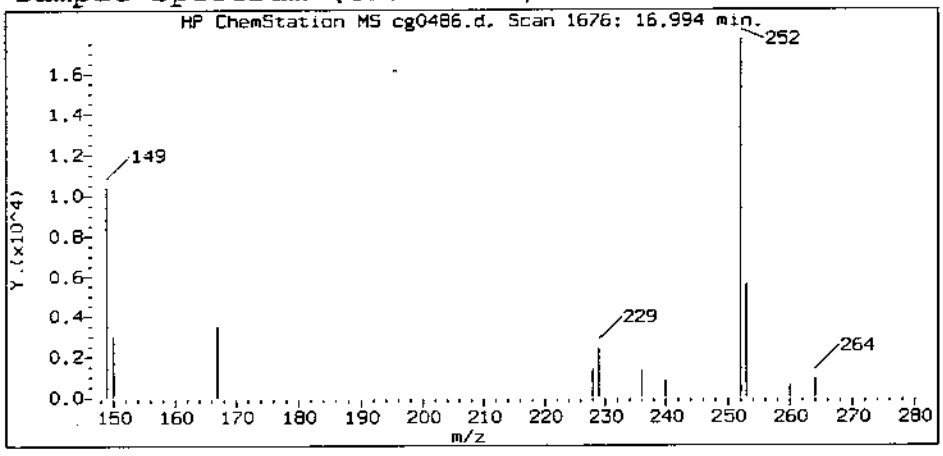


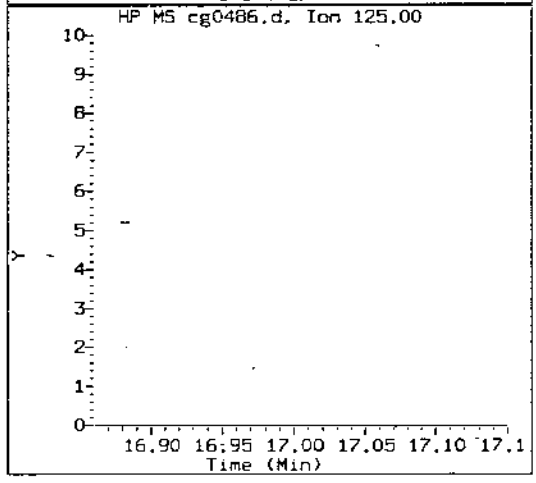
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

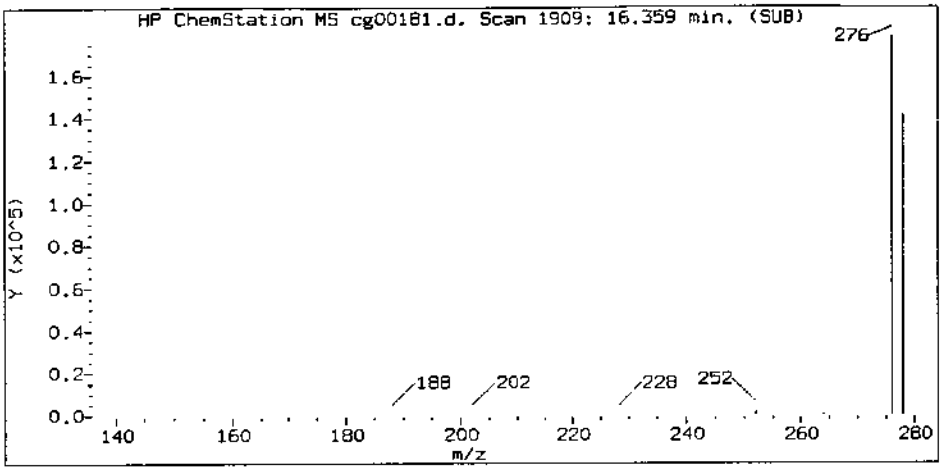
Sample Name: XXXXX

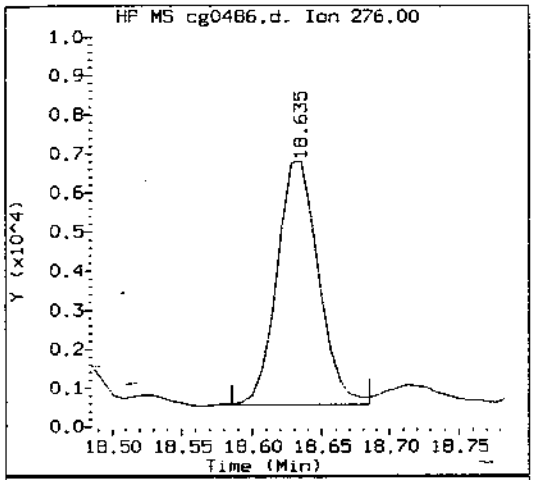
Lab Sample ID: 6339372

Compound Number	: 48
Compound Name	: Benzo(a)pyrene
Scan Number	: 1676
Retention Time (minutes)	: 16.994
Quant Ion	: 252.0
Area (flag)	: 23881
Concentration (ng/ul)	: 0.0525

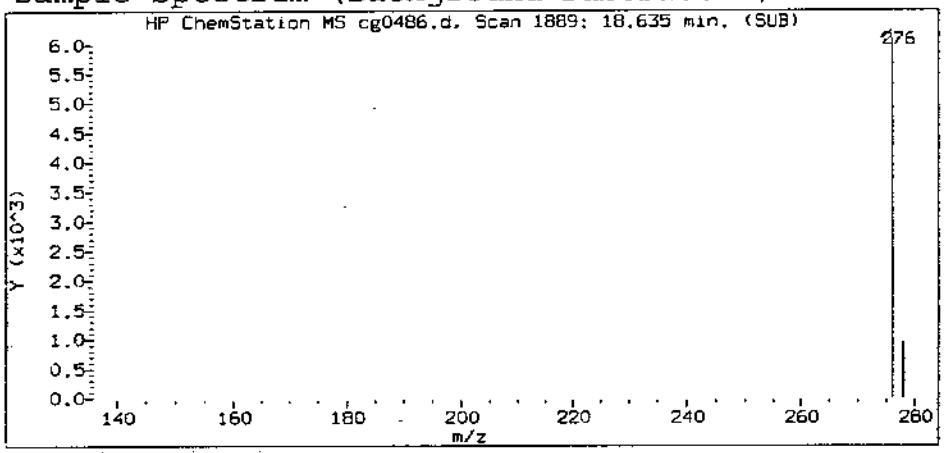
USF03 8785

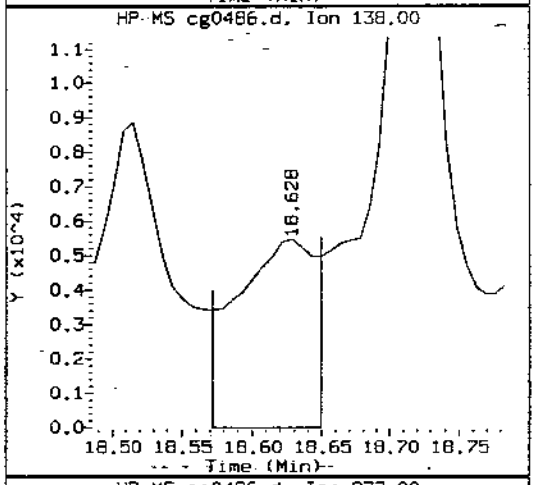
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



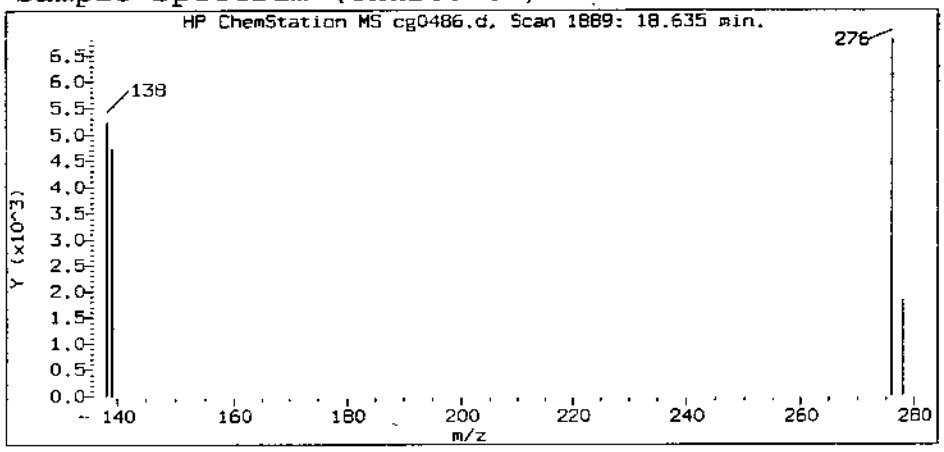


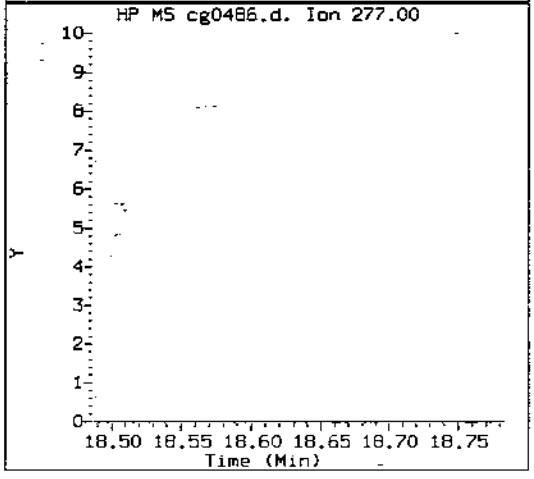
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

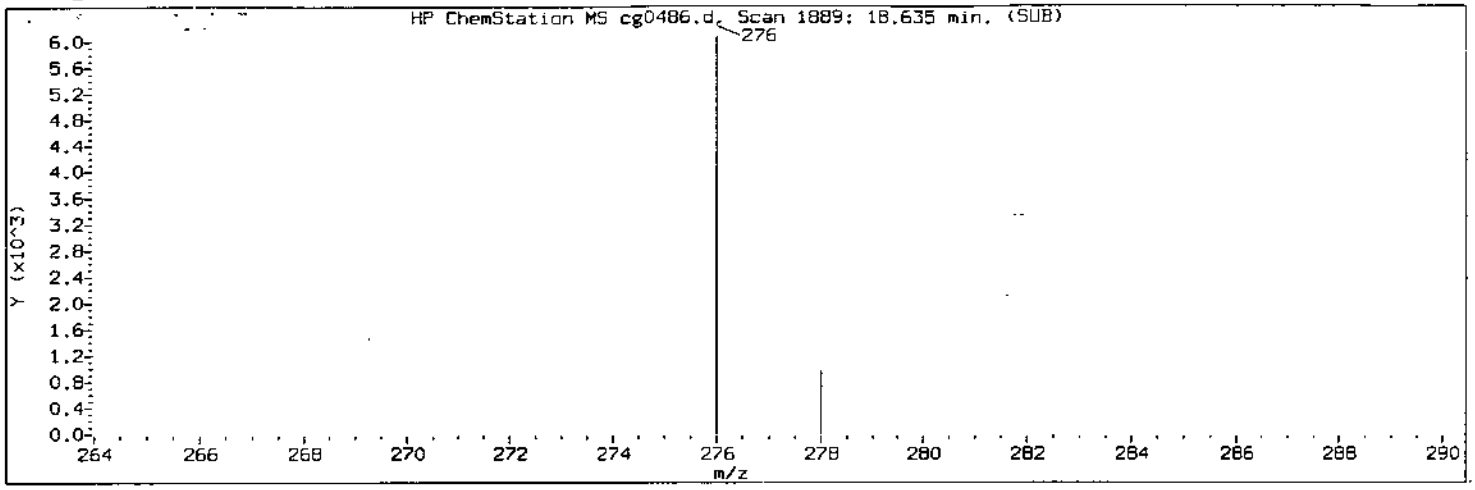
Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX

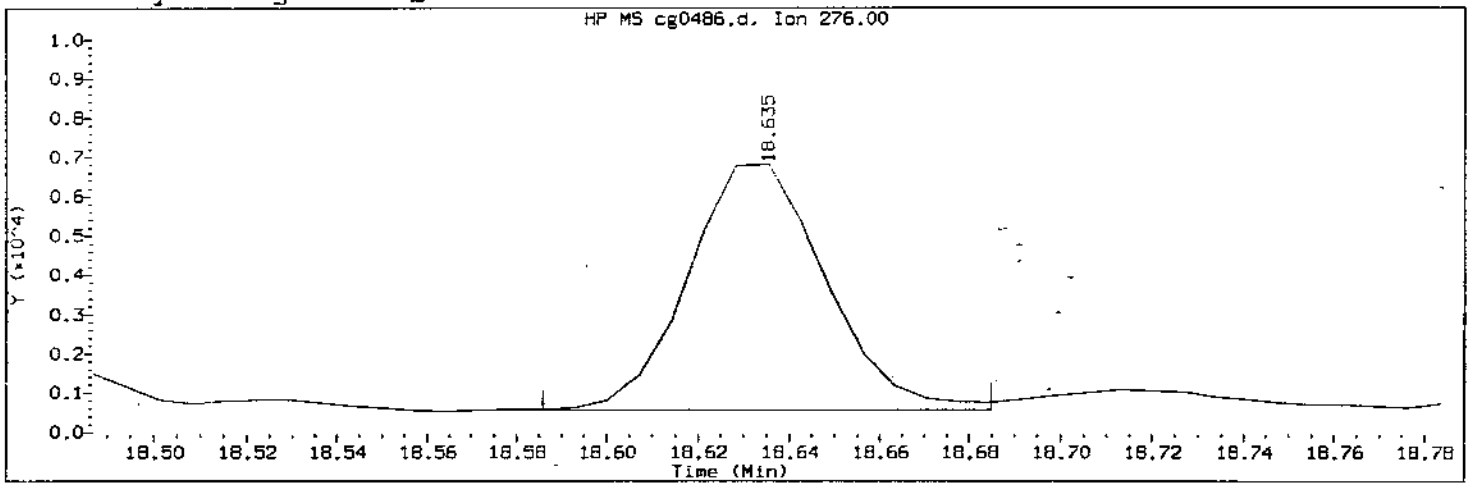
Lab Sample ID: 6339372

Compound Number	:	51
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	1889
Retention Time (minutes)	:	18.635
Quant Ion	:	276.0
Area (flag)	:	13112 M
Concentration (ng/ul)	:	0.0271

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339372

Compound Number	:	51
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	1889
Retention Time (minutes)	:	18.635
Quant Ion	:	276
Area (flag)	:	13112 M
Concentration (ng/ul)	:	0.0271
Integration start scan	:	1881 Integration stop scan: 1895
Y at integration start	:	566 Y at integration end: 566

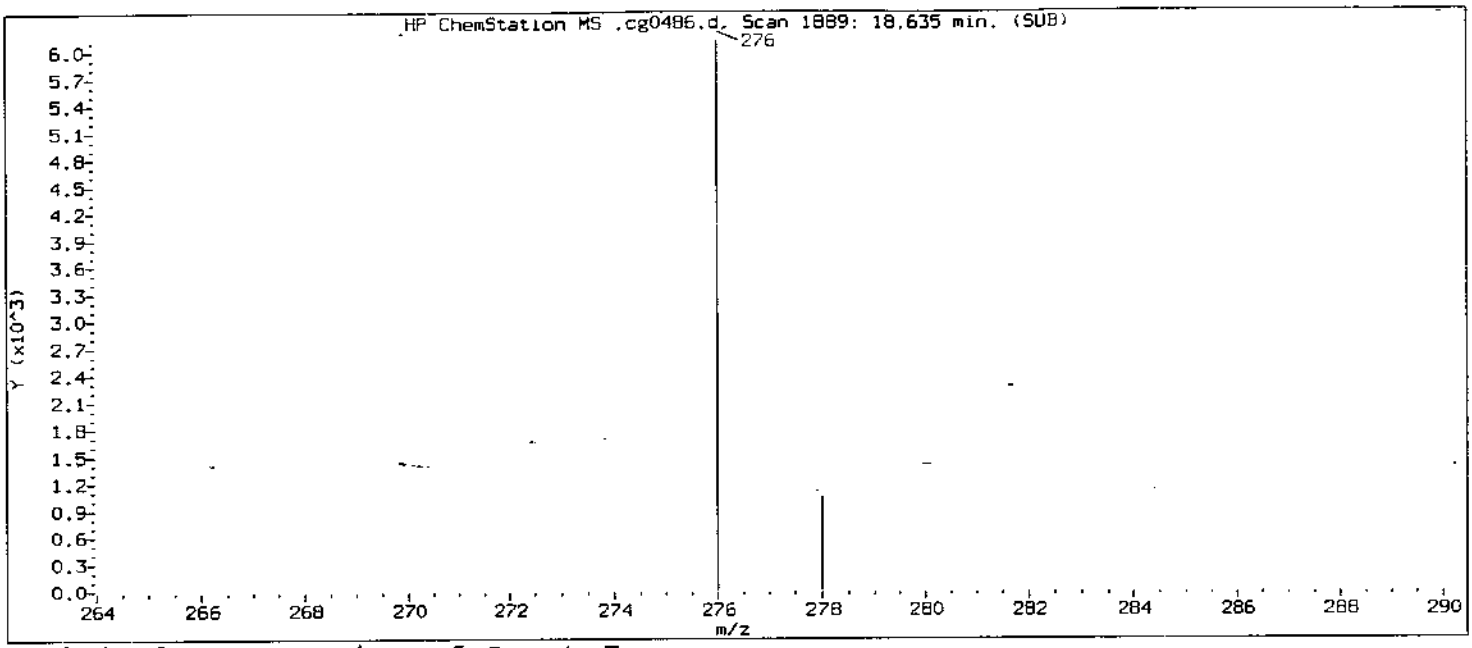
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Greg Drabovsky Senior Chemist JUL 15 2011

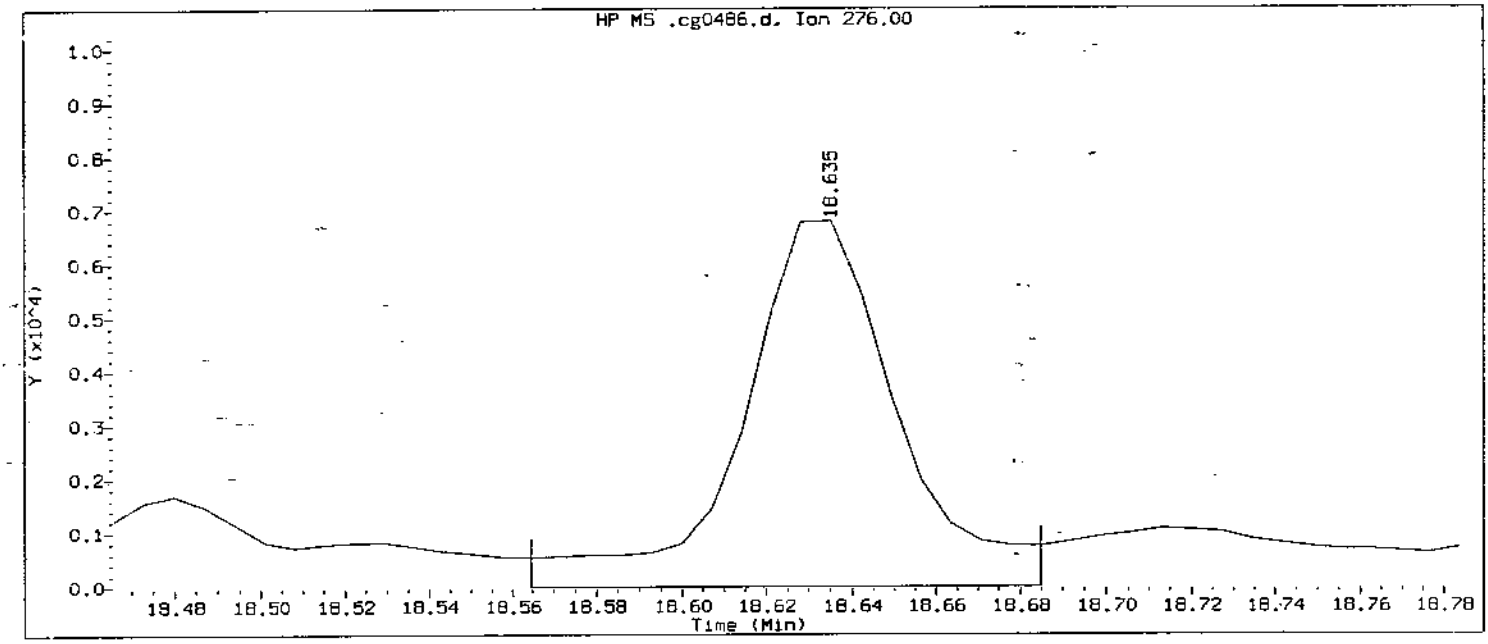
GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

USF03 9787

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0486.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 09:30 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: all1
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 09:55 Automation

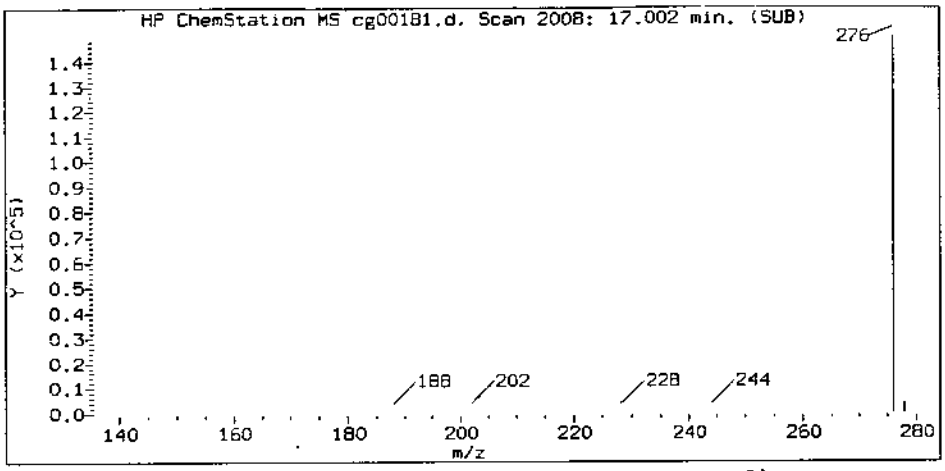
Sample Name: XXXXX Lab Sample ID: 6339372

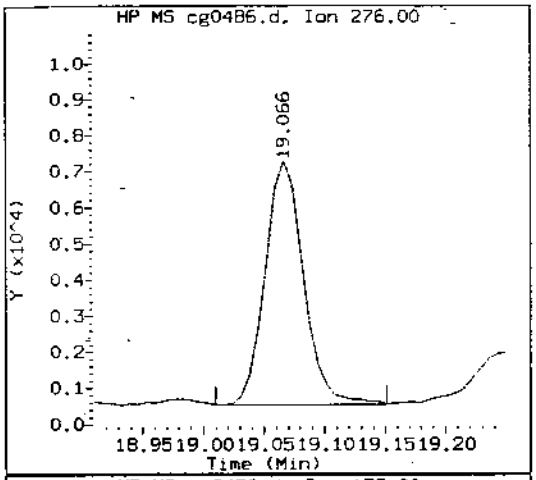
Compound Number	:	51
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	1889
Retention Time (minutes)	:	18.635
Quant Ion	:	276
Area	:	17228
Concentration (ng/ul)	:	0.0356
Integration start scan	:	1878 Integration stop scan: 1895
Y at integration start	:	0 Y at integration end: 0

USF003 0769

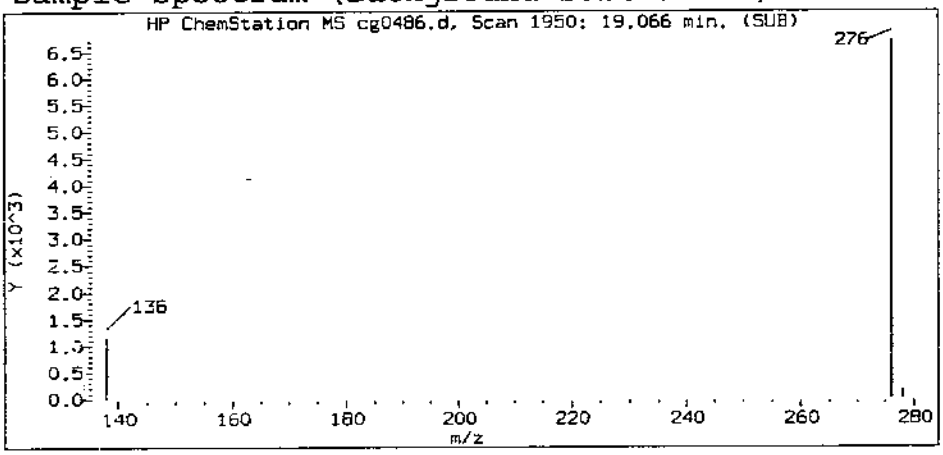
Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0486.d, generated on 07/15/2011 at 14:11

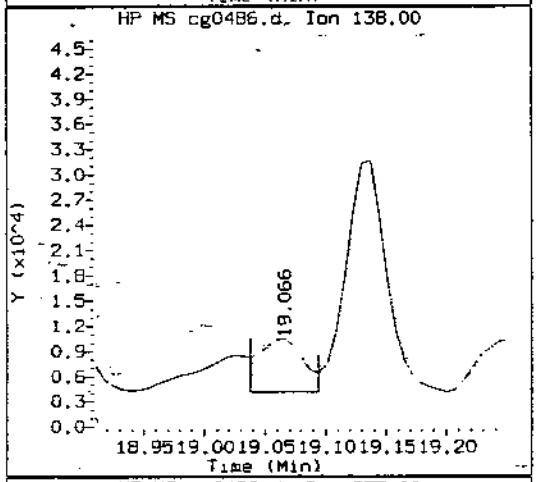
Reference Standard Spectrum for Benzo(g,h,i)perylene



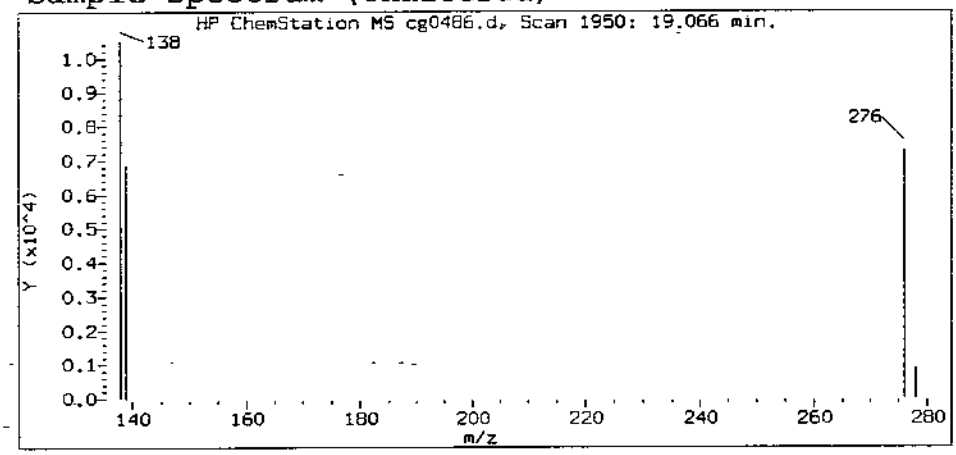


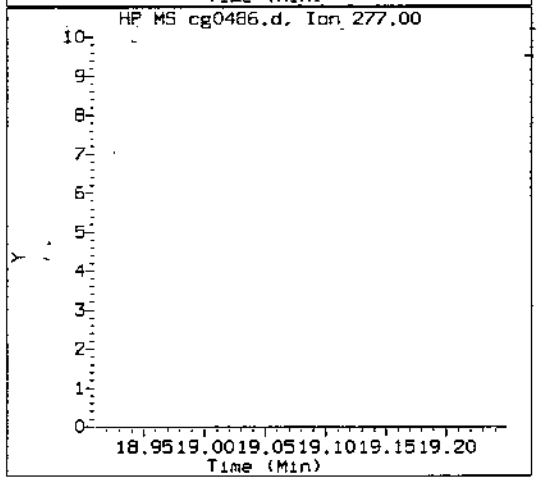
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0486.d
Injection date and time: 15-JUL-2011 09:30

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:10 gjd01970

Sample Name: XXXXX

Lab Sample ID: 6339372

Compound Number	:	53
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	1950
Retention Time (minutes)	:	19.066
Quant Ion	:	276.0
Area (flag)	:	15008
Concentration (ng/ul)	:	0.0353

USF03 0789

Hit Data Report for data file /chem/HP10623.i/11jul15.b/cg0486.d, generated on 07/15/2011 at 14:11

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339374

Data file: /chem/HP10623.i/11jul15.b/cg0487.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 10:01 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 15-JUL-2011 12:06
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul15.b/cg0481.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.5 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.537(0.000)	545	152.0	146228(6)	1.00	
12) Naphthalene-d8	8.051(0.000)	710	136.0	591181(8)	1.00	
19) Acenaphthene-d10	10.200(0.000)	911	164.0	318184(9)	1.00	
30) Phenanthrene-d10	12.034(0.000)	1097	188.0	495990(6)	1.00	
42) Chrysene-d12	15.305(0.000)	1460	240.0	476077(22)	1.00	
49) Perylene-d12	17.072(0.000)	1686	264.0	437212(29)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.179(0.000)	82	227800	1.081	108%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.360(0.001)	172	352813	0.908	91%		63 - 129
38) Terphenyl-d14	(5)	14.007(0.000)	244	257433	0.778	78%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)				Below MDL, Do not report				0.02
14) 2-Methylnaphthalene	(2)				Below MDL, Do not report				0.02
16) 1-Methylnaphthalene	(2)				Below MDL, Do not report				0.02
18) Acenaphthylene	(3)				Below MDL, Do not report				0.01
20) Dimethylphthalate	(3)				Below MDL, Do not report				0.18
21) Acenaphthene	(3)				Below MDL, Do not report				0.02
22) Diethylphthalate	(3)				Below MDL, Do not report				0.18
23) Fluorene	(3)				Below MDL, Do not report				0.02
31) Phenanthrene	(4)				Below MDL, Do not report				0.02
32) Anthracene	(4)				ND	ND			0.01
33) Di-n-butylphthalate	(4)	12.744(0.000)	149	98078	0.326	10.69			0.18
35) Fluoranthene	(4)	13.540(0.000)	202	20655	0.036	1.17			0.02
37) Pyrene	(5)	13.813(0.000)	202	16510	0.022	0.73			0.02
39) Butylbenzylphthalate	(5)	14.607(0.000)	149	125834	0.484	15.87			0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.313(0.000)	149	113132	0.355	11.64			0.18
41) Benzo(a)anthracene	(5)				ND	ND			0.02
43) Chrysene	(5)				ND	ND			0.01
44) Di-n-octylphthalate	(6)				ND	ND			0.18
45) Benzo(b)fluoranthene	(6)	16.579(0.000)	252	17074	0.030	0.98			0.02
46) Benzo(k)fluoranthene	(6)				ND	ND			0.02
48) Benzo(a)pyrene	(6)				Below MDL, Do not report				0.02
51) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			0.02
52) Dibenz(a,h)anthracene	(6)				ND	ND			0.02
53) Benzo(g,h,i)perylene	(6)				Below MDL, Do not report				0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF93 8718

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339374

Data file: /chem/HP10623.i/11jul15.b/cg0487.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 10:01 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 15-JUL-2011 12:06
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul15.b/cg0481.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.5 g Final Extract Volume (Vt): 1000 ul

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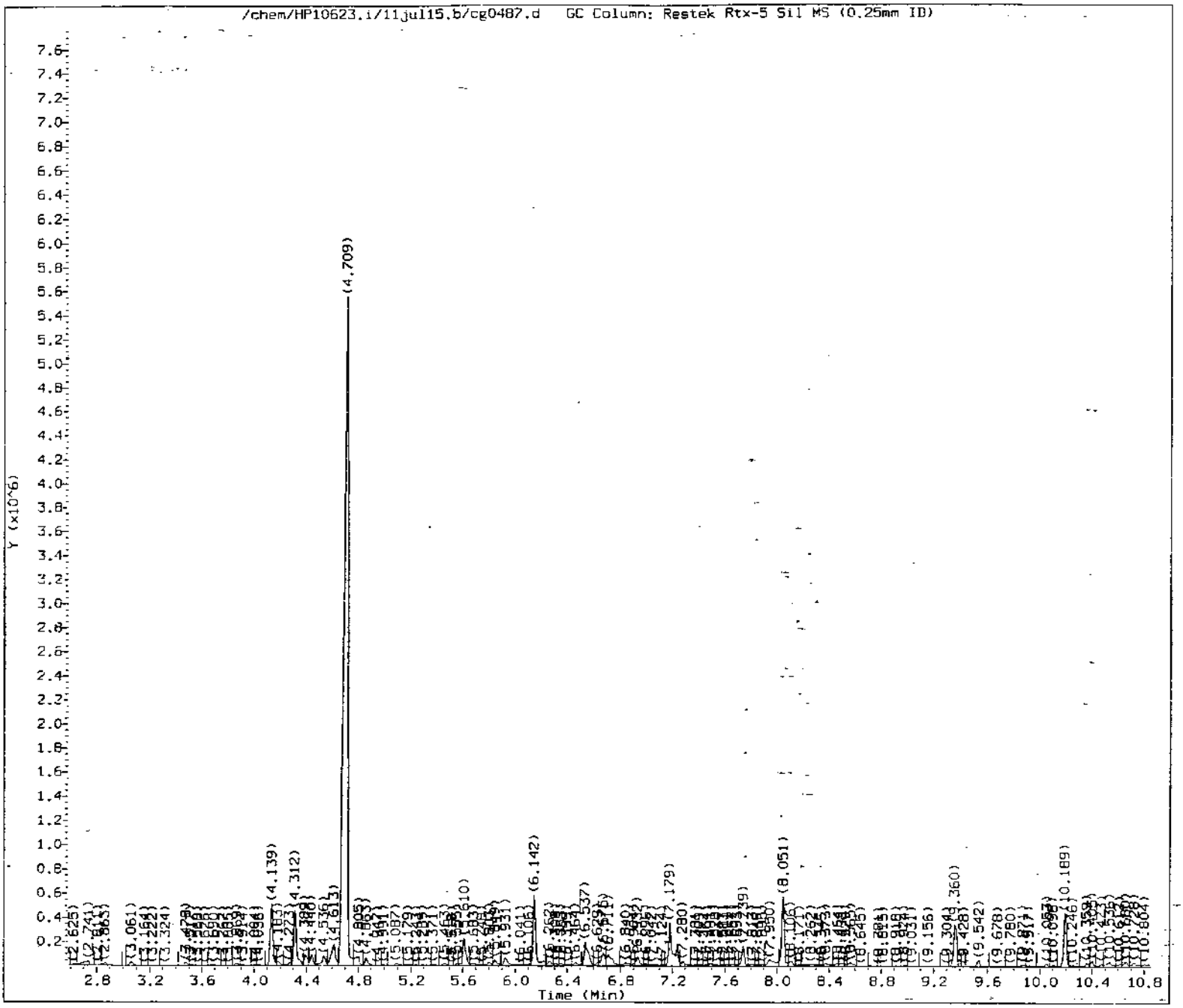
Total number of targets = 24

Comments:

Analyst: Greg Drahovsky Senior Chemist Date: JUL 15 2011
Auditor: Mark A. Ratcliff Senior Specialist Date: JUL 19 2011

USF03 #711



Quant Report

Target Revision 3.5

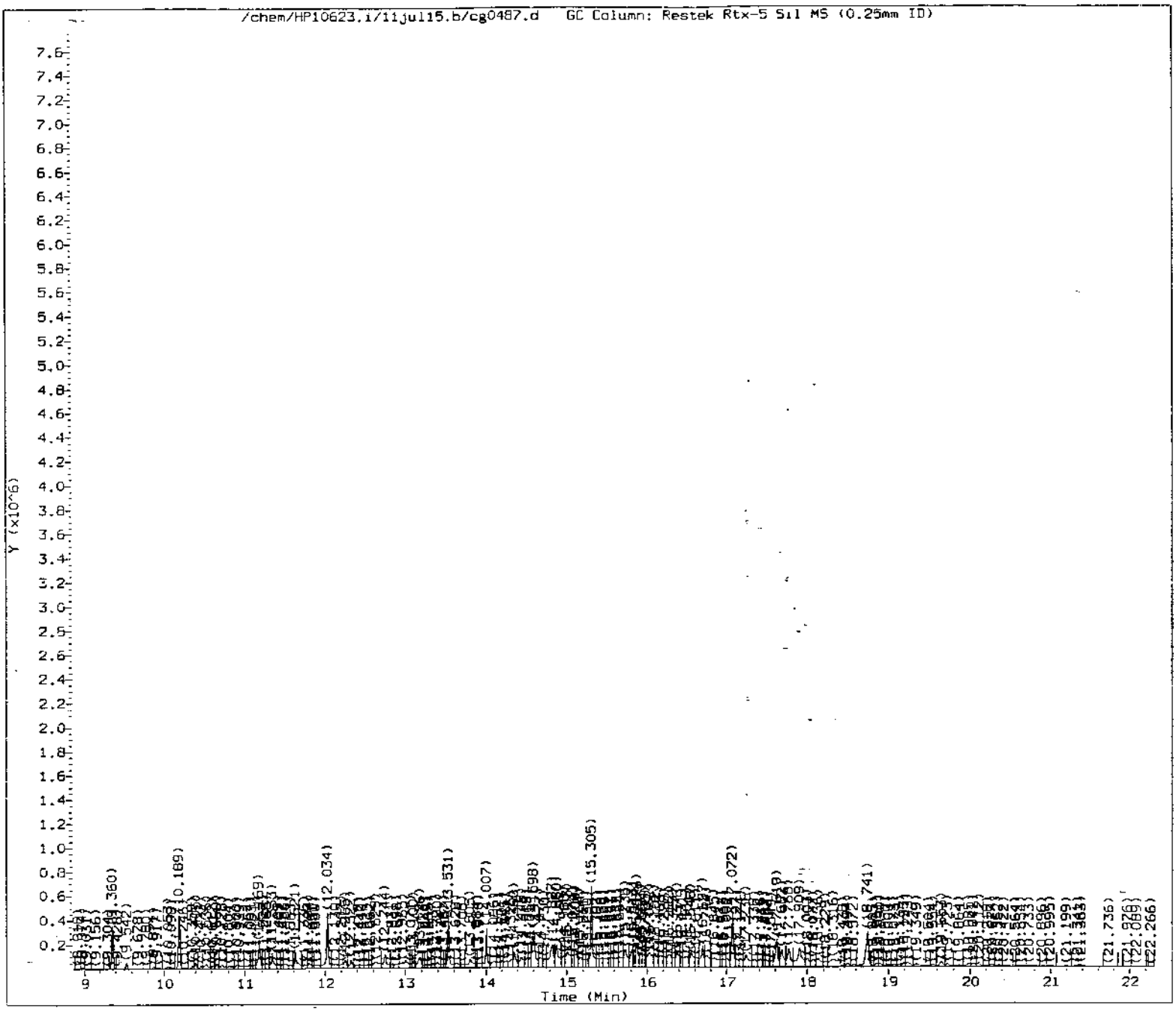
Data File: /chem/HP10623.i/11jul15.b/cg0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339374

Greg Drahovsky
Senior Chemist

JUL 15 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339374

Greg Drahovsky
Senior Chemist

USF83 8743

JUL 15 2011

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cq0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

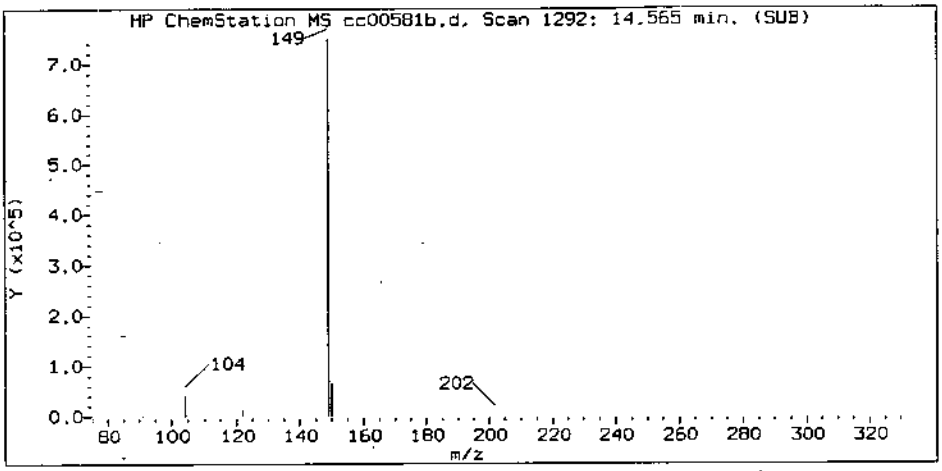
Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

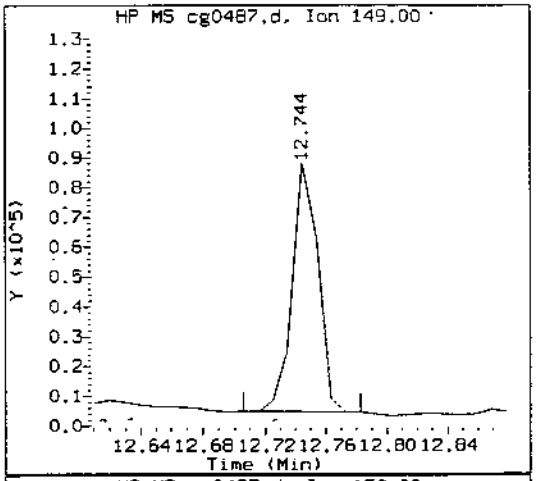
Sample Name: XXXXX Lab Sample ID: 6339374

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.537	152	146228	1.0000
12) Naphthalene-d8	(2)	8.051	136	591181	1.0000
19) Acenaphthene-d10	(3)	10.200	164	318184	1.0000
30) Phenanthrene-d10	(4)	12.034	188	495990	1.0000
33) Di-n-butylphthalate	(4)	12.744	149	98078M	0.3259
35) Fluoranthene	(4)	13.540	202	20655	0.0356
37) Pyrene	(5)	13.813	202	16510M	0.0221
39) Butylbenzylphthalate	(5)	14.607	149	125834	0.4842
40) bis(2-Ethylhexyl)phthalate	(5)	15.313	149	113132	0.3551
42) Chrysene-d12	(5)	15.305	240	476077	1.0000
45) Benzo(b)fluoranthene	(6)	16.579	252	17074M	0.0300
49) Perylene-d12	(6)	17.072	264	437212	1.0000
10) Nitrobenzene-d5	(2)	7.179	82	227800	1.0814
17) 2-Fluorobiphenyl	(3)	9.360	172	352813	0.9077
38) Terphenyl-d14	(5)	14.007	244	257433	0.7777

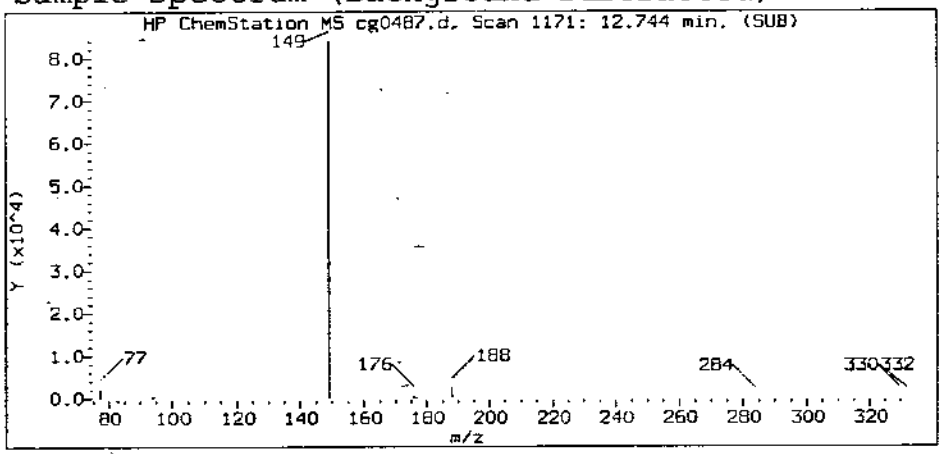
M = Compound was manually integrated. A = User selected an alternate hit

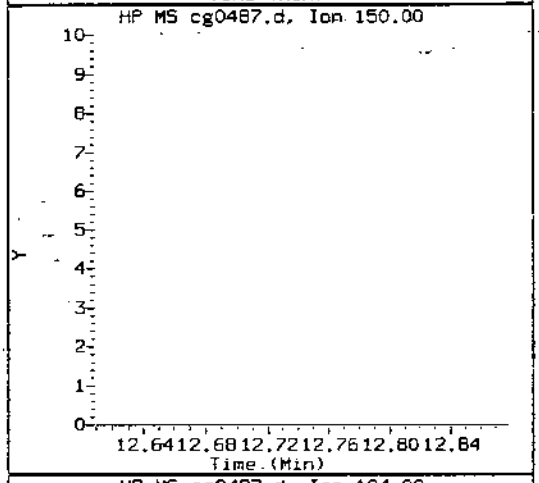
Reference Standard Spectrum for Di-n-butylphthalate



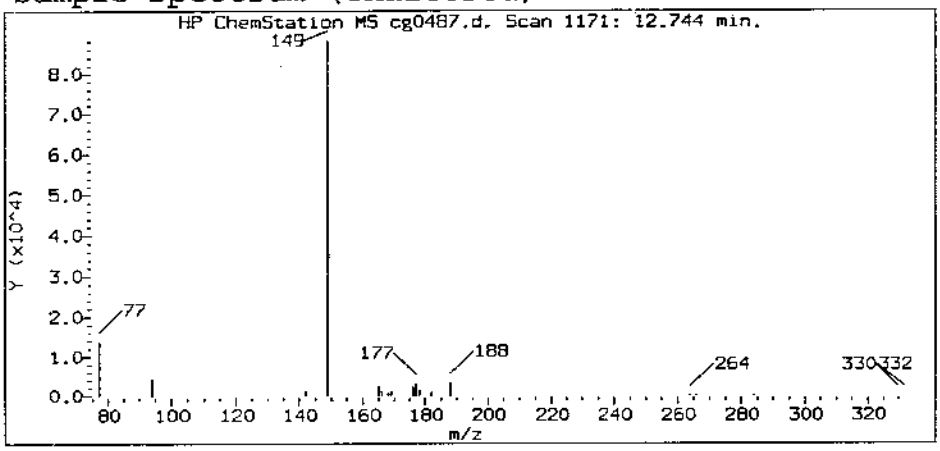


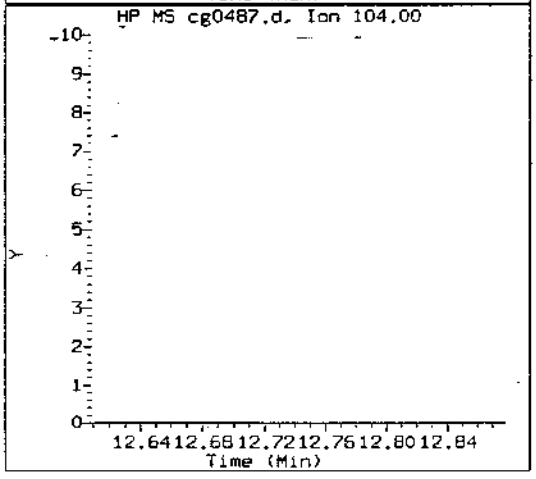
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0487.d
Injection date and time: 15-JUL-2011 10:01

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

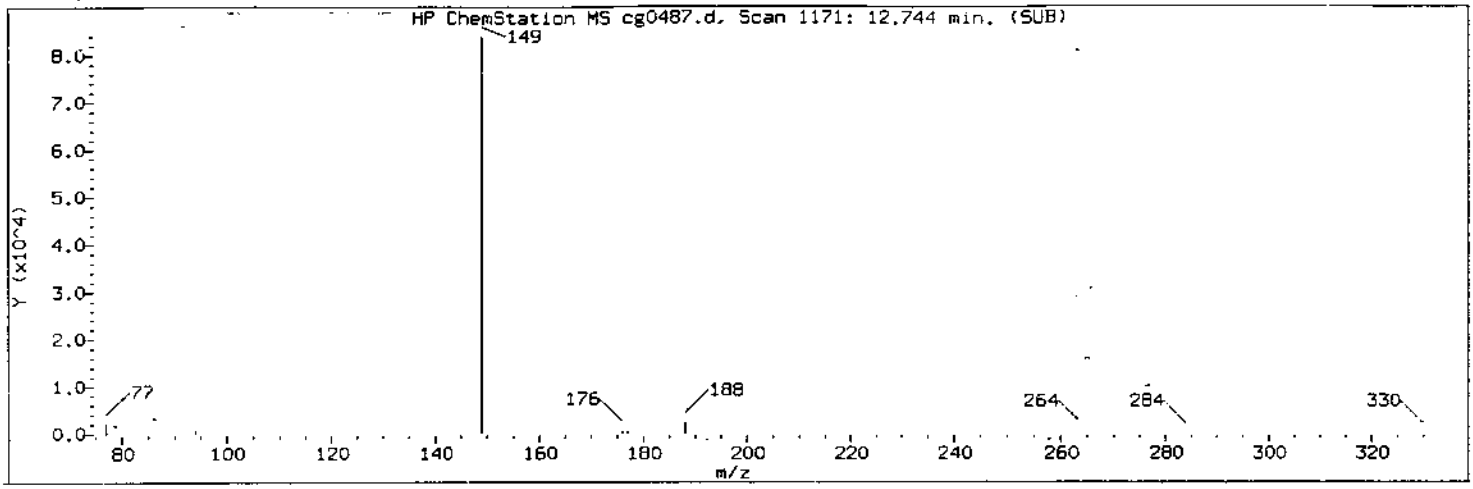
Sample Name: XXXXX

Lab Sample ID: 6339374

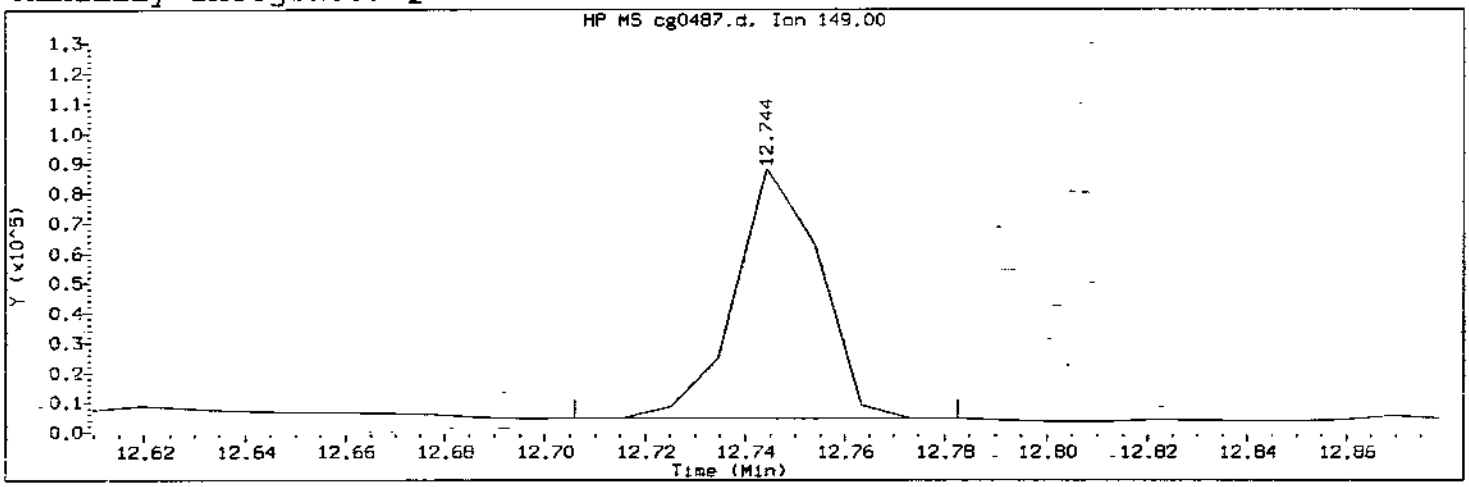
Compound Number	:	33
Compound Name	:	Di-n-butylphthalate
Scan Number	:	1171
Retention Time (minutes)	:	12.744
Quant Ion	:	149.0
Area (flag)	:	98078 M
Concentration (ng/ul)	:	0.3259

USF03 0715

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970.

Sample Name: XXXXX Lab Sample ID: 6339374

Compound Number	:	33
Compound Name	:	Di-n-butylphthalate
Scan Number	:	1171
Retention Time (minutes)	:	12.744
Quant Ion	:	149
Area (flag)	:	98078 M
Concentration (ng/ul)	:	0.3259
Integration start scan	:	1166 Integration stop scan: 1174
Y at integration start	:	4911 Y at integration end: 4613

Reason for manual integration (circle one): missed peak improper integration

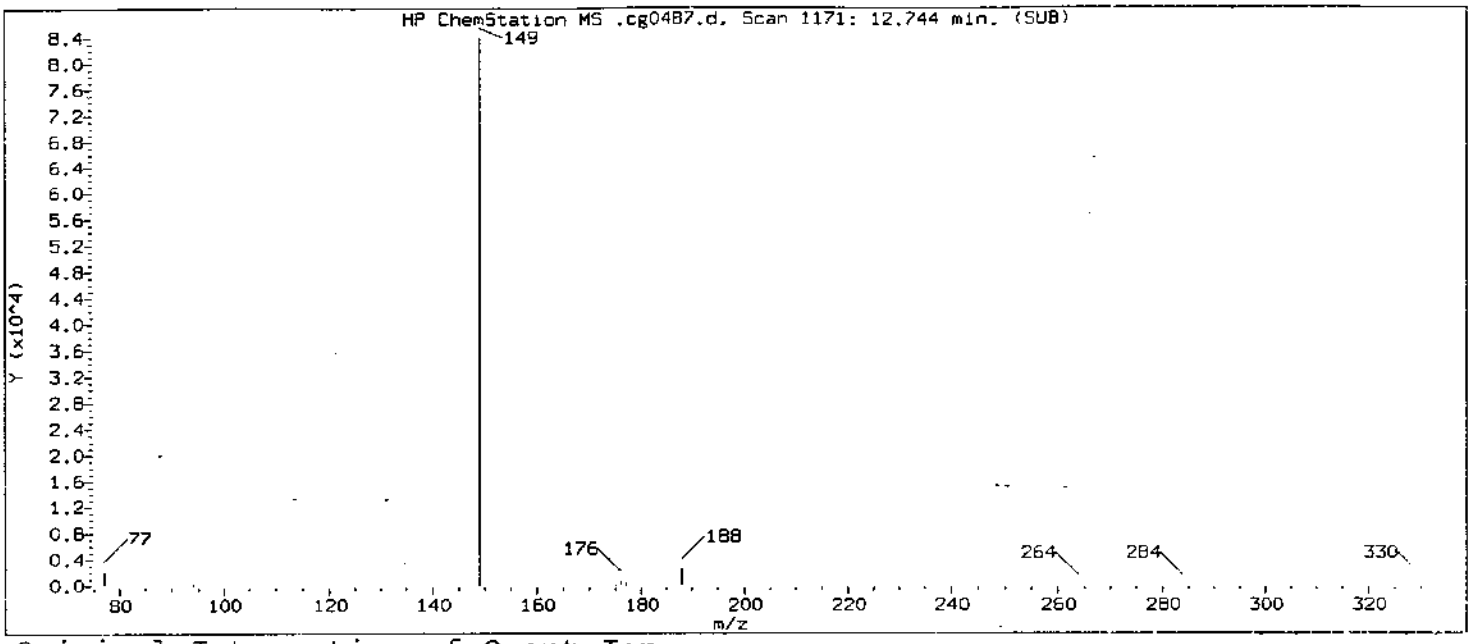
Analyst responsible for change: _____ Greg Drahovsky Senior Chemist JUL 15 2011

GC/MS audit/management approval: _____ Mark A. Ratcliff Senior Specialist JUL 19 2011

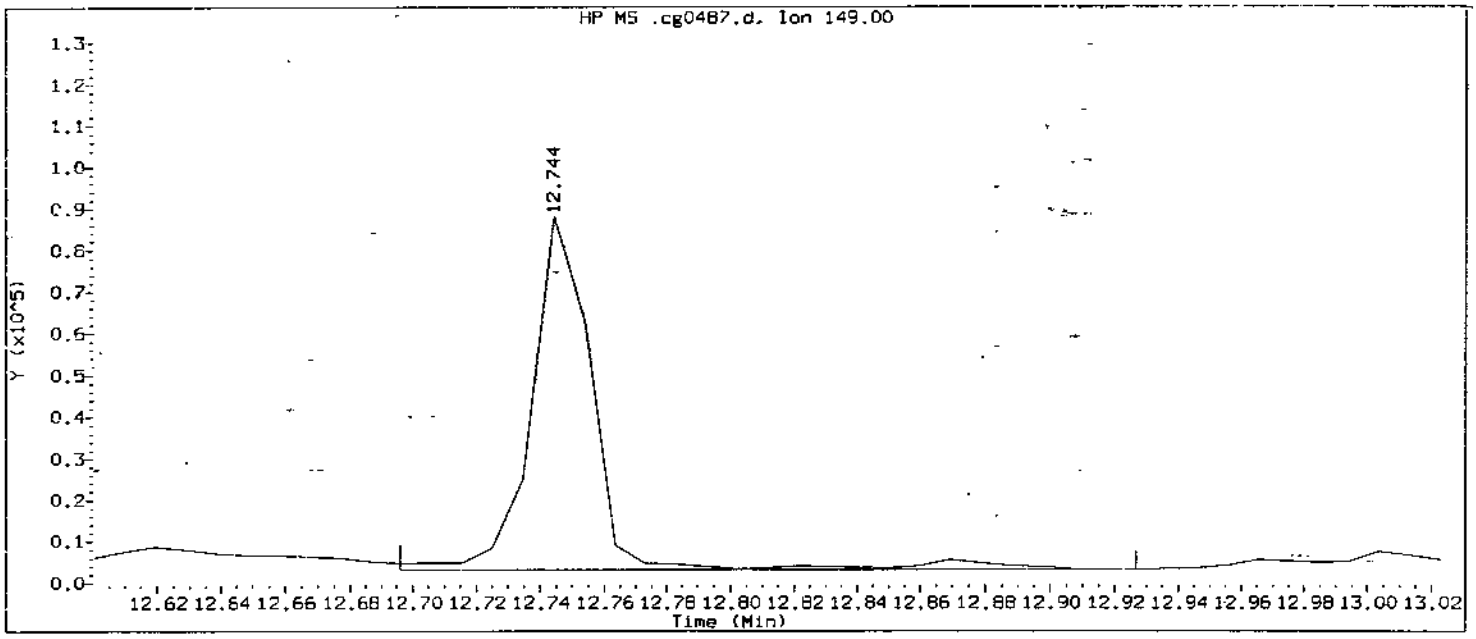
USP90 8716

Manual Integration Report for data file /chem/HP10623.i/11jul15.b/cg0487.d, generated on 07/15/2011 at 14:12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: all1
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 10:26 Automation

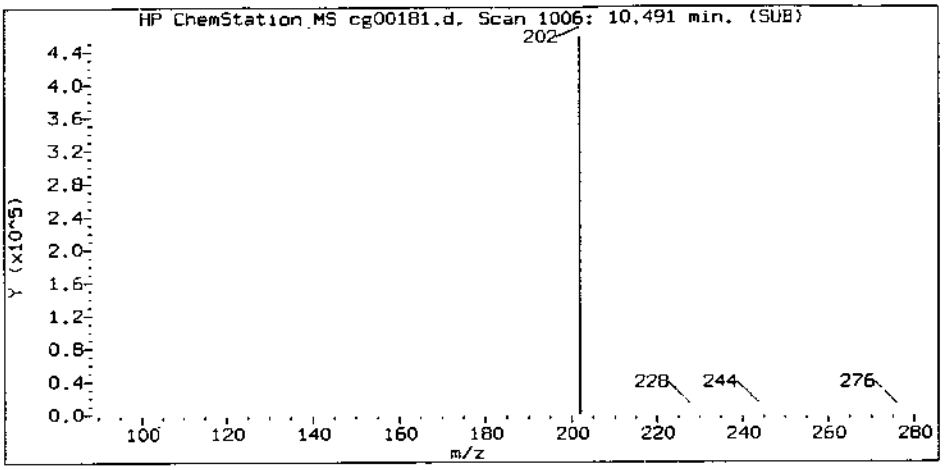
Sample Name: XXXXX Lab Sample ID: 6339374

Compound Number	: 33		
Compound Name	: Di-n-butylphthalate		
Scan Number	: 1171		
Retention Time (minutes)	: 12.744		
Quant Ion	: 149		
Area	: 112468		
Concentration (ng/ul)	: 0.3457		
Integration start scan	: 1165	Integration stop scan:	1189
Y at integration start	: 3247	Y at integration end:	3247

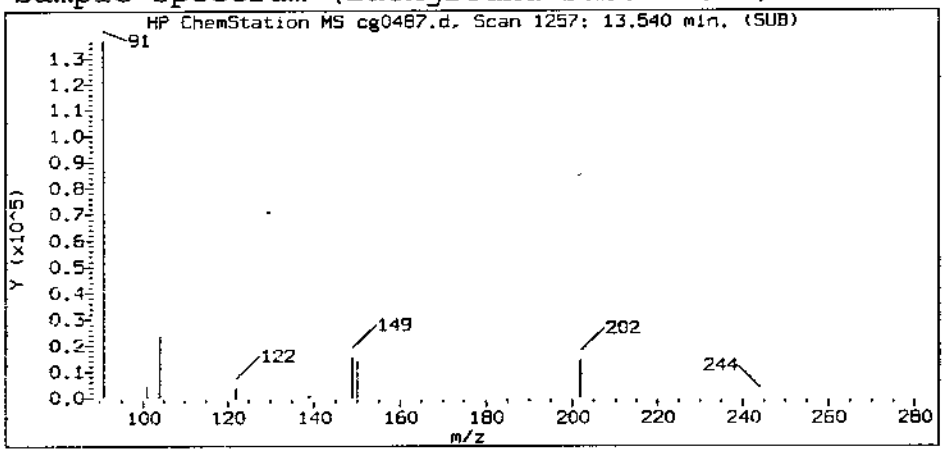
USF03 8717

Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0487.d, generated on 07/15/2011 at 14:12

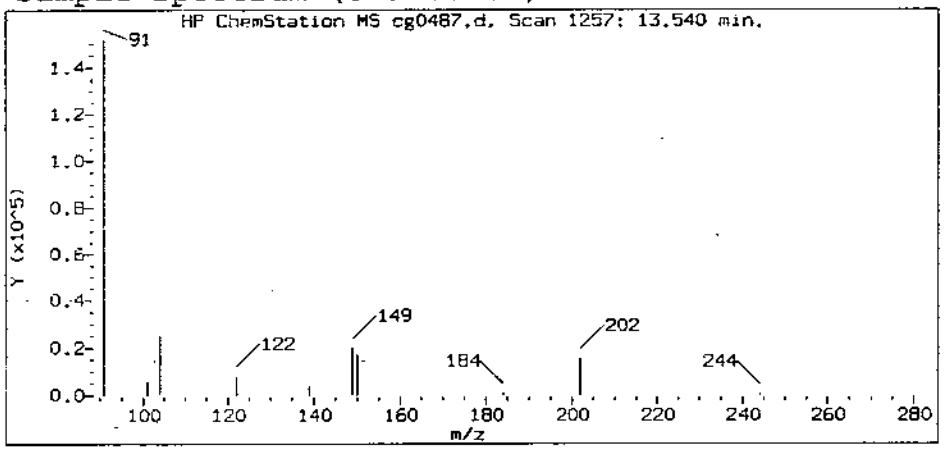
Reference Standard Spectrum for Fluoranthene

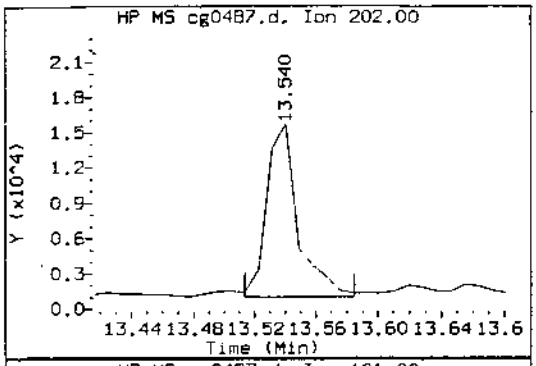


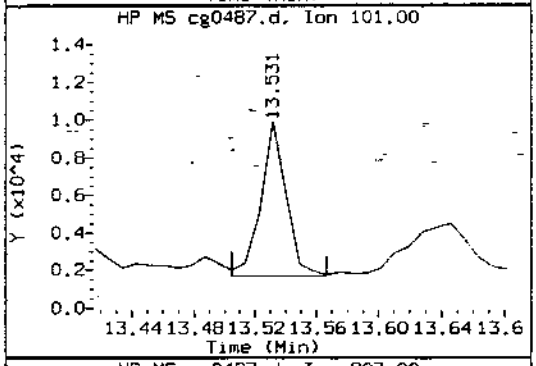
Sample Spectrum (Background Subtracted)

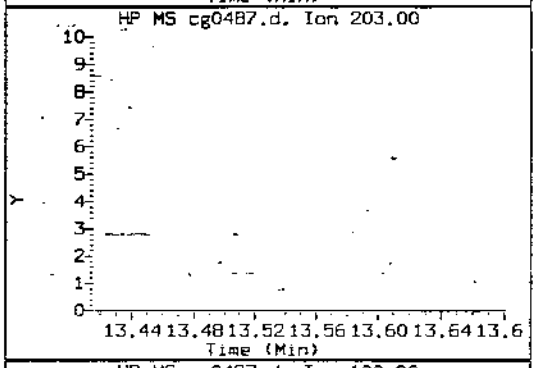


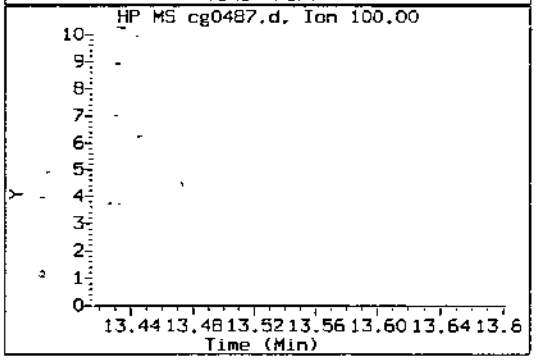
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul15.b/cg0487.d
Injection date and time: 15-JUL-2011 10:01

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

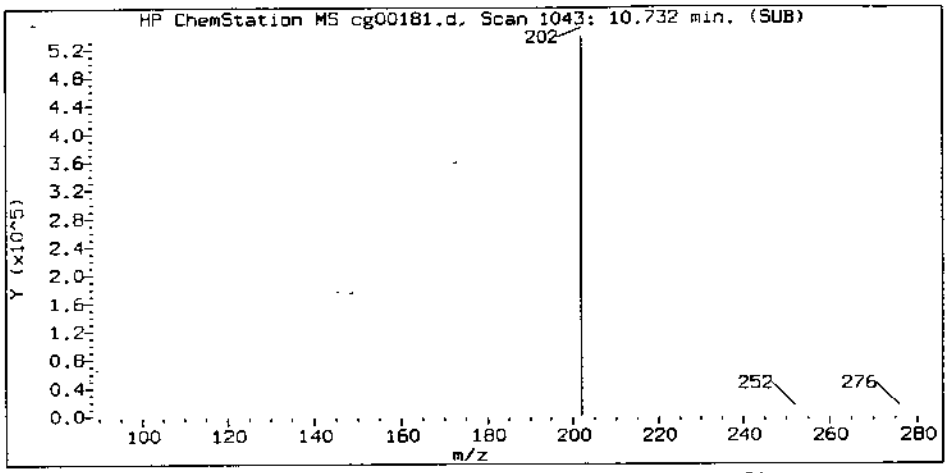
Sample Name: XXXXX

Lab Sample ID: 6339374

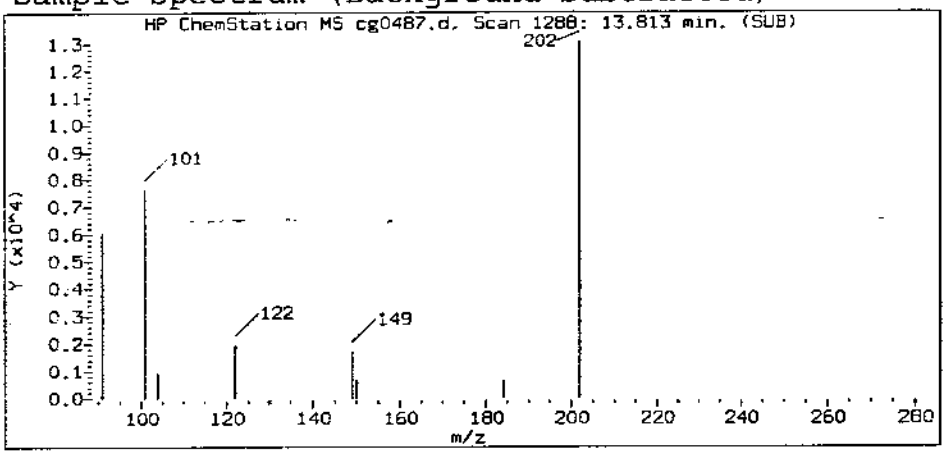
Compound Number	:	35
Compound Name	:	Fluoranthene
Scan Number	:	1257
Retention Time (minutes)	:	13.540
Quant Ion	:	202.0
Area (flag)	:	20655
Concentration (ng/ul)	:	0.0356

USF03 0718

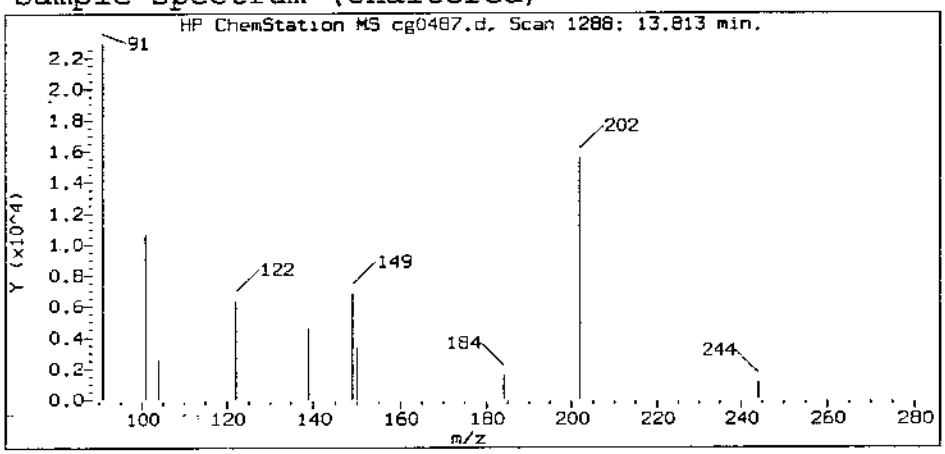
Reference Standard Spectrum for Pyrene

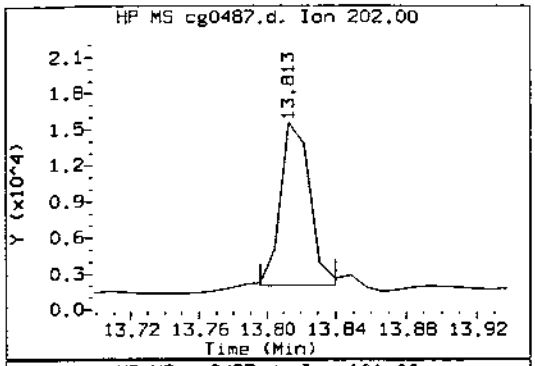


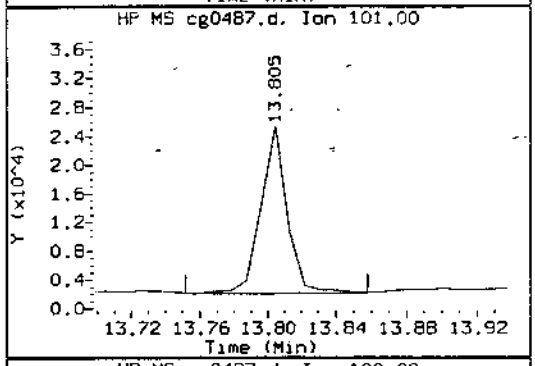
Sample Spectrum (Background Subtracted)

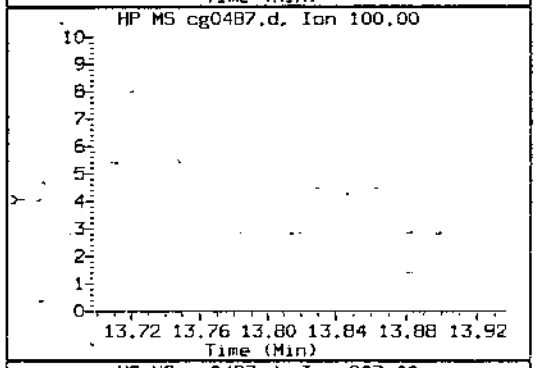


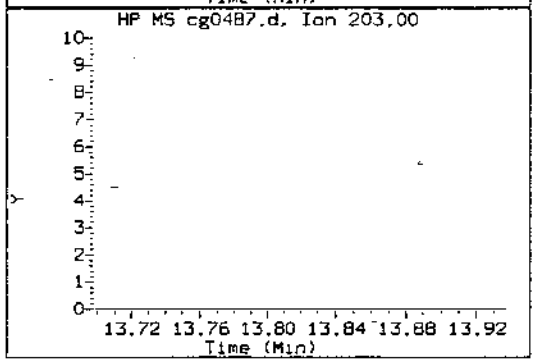
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul15.b/cg0487.d
Injection date and time: 15-JUL-2011 10:01

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

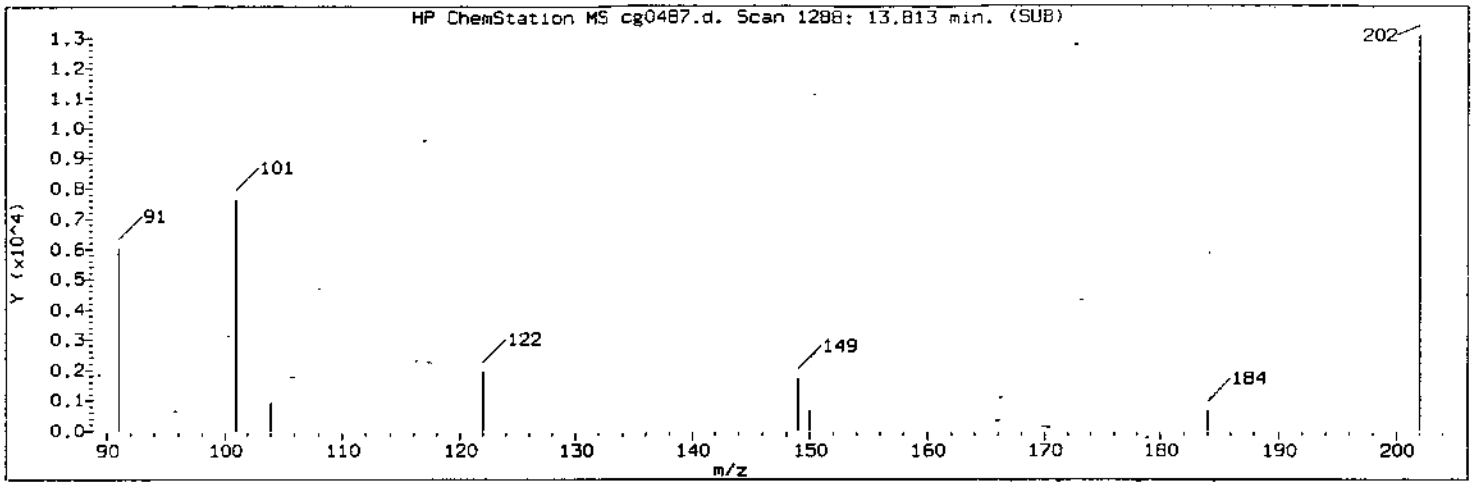
Sample Name: XXXXX

Lab Sample ID: 6339374

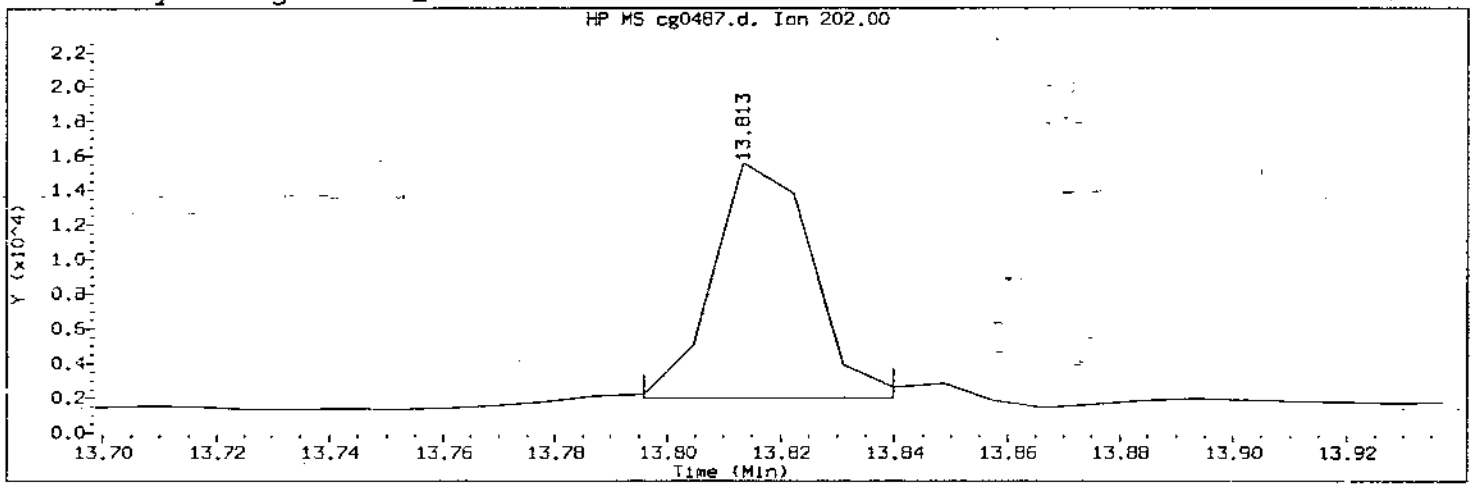
Compound Number	: 37
Compound Name	: Pyrene
Scan Number	: 1288
Retention Time (minutes)	: 13.813
Quant Ion	: 202.0
Area (flag)	: 16510 M
Concentration (ng/ul)	: 0.0221

USF03 8719

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339374

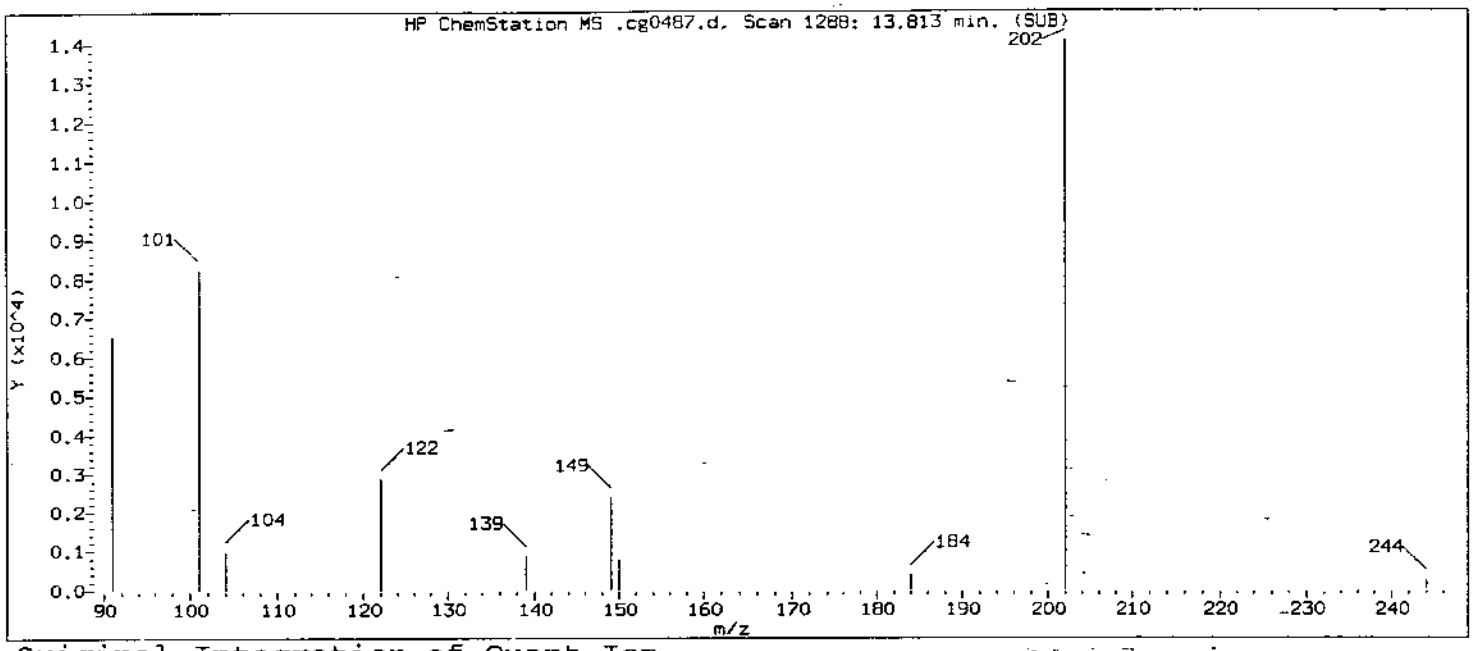
Compound Number	: 37		
Compound Name	: Pyrene		
Scan Number	: 1288		
Retention Time (minutes)	: 13.813		
Quant Ion	: 202		
Area (flag)	: 16510	M	
Concentration (ng/ul)	: 0.0221		
Integration start scan	: 1285	Integration stop scan: 1290	
Y at integration start	: 2000	Y at integration end: 2000	

Reason for manual integration (circle one): missed peak improper integration

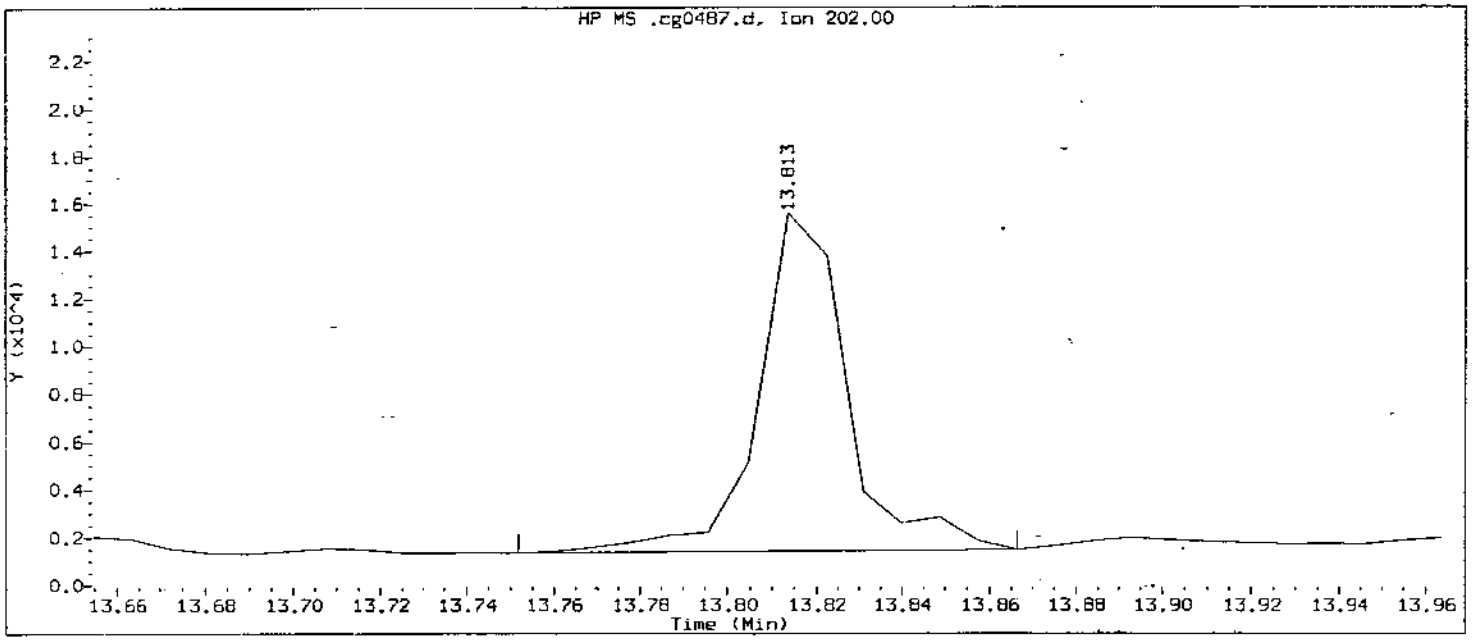
Analyst responsible for change: _____
Greg Drahovsky
Senior Chemist
JUL 15 2011

GC/MS audit/management approval: _____
Mark A. Ratcliff
Senior Specialist
JUL 19 2011

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: all1
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 10:26 Automation

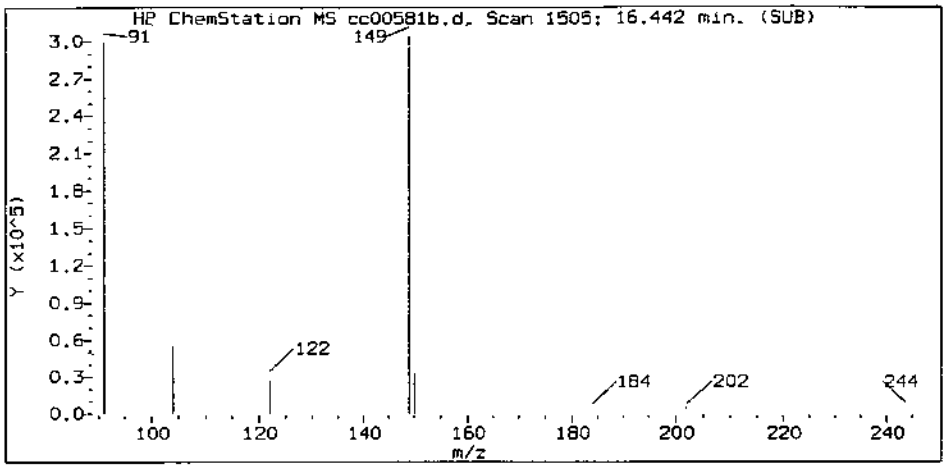
Sample Name: XXXXX Lab Sample ID: 6339374

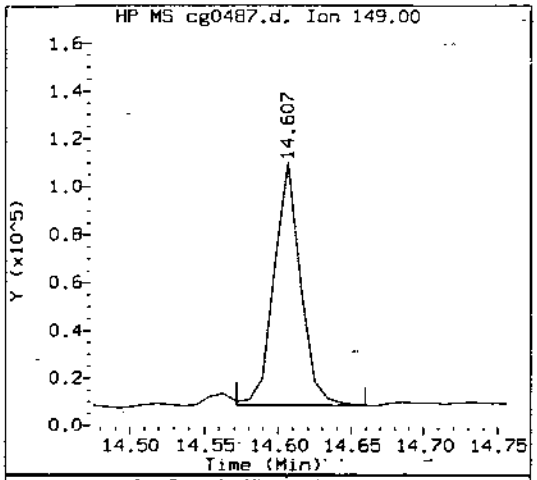
Compound Number	: 37		
Compound Name	: Pyrene		
Scan Number	: 1288		
Retention Time (minutes)	: 13.813		
Quant Ion	: 202		
Area	: 20012		
Concentration (ng/ul)	: 0.0268		
Integration start scan	: 1280	Integration stop scan:	1293
Y at integration start	: 1362	Y at integration end:	1478

USF03 0721

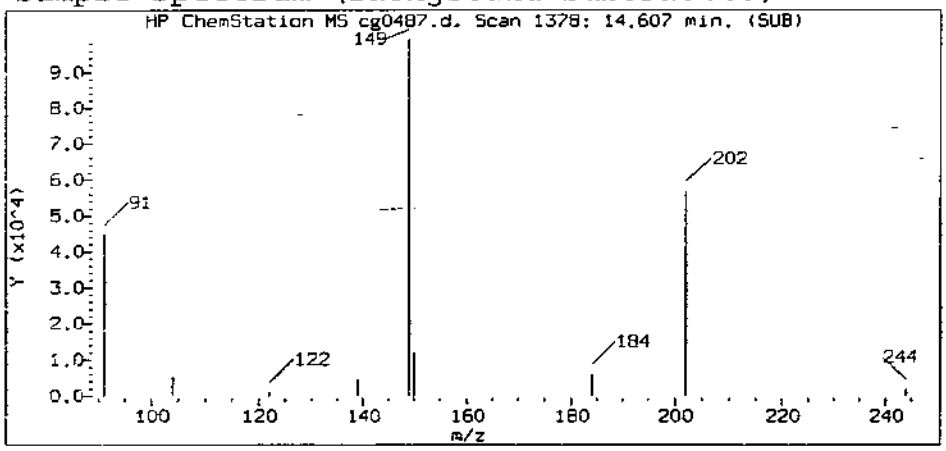
Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0487.d, generated on 07/15/2011 at 14:12

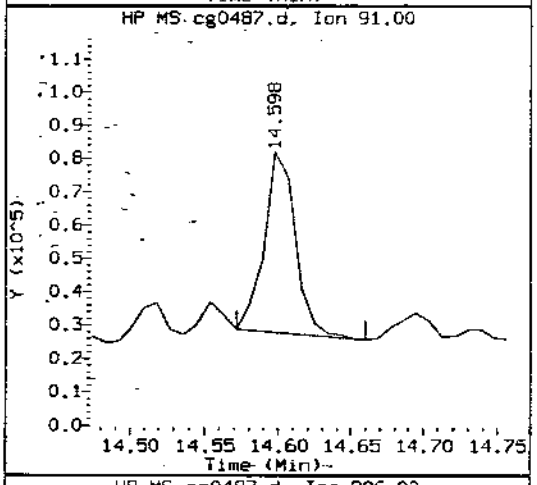
Reference Standard Spectrum for Butylbenzylphthalate



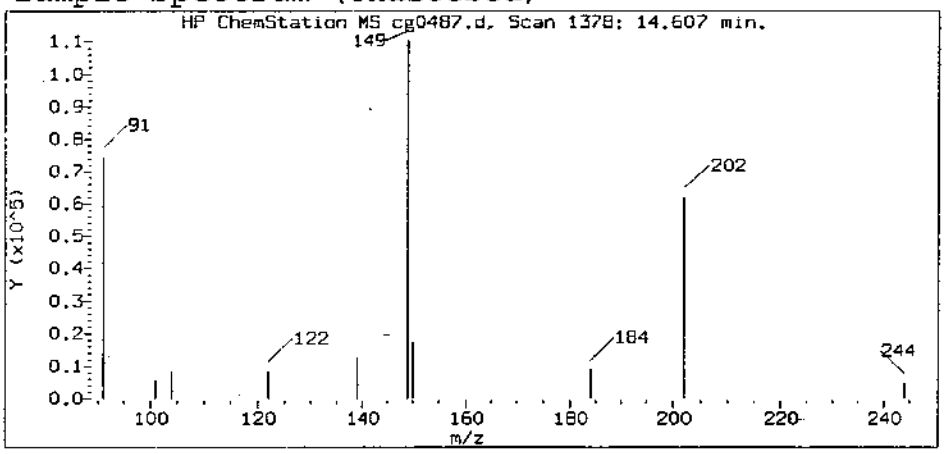


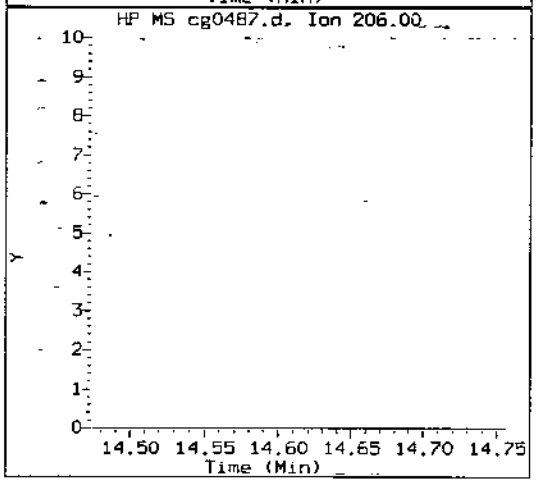
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0487.d
Injection date and time: 15-JUL-2011 10:01

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

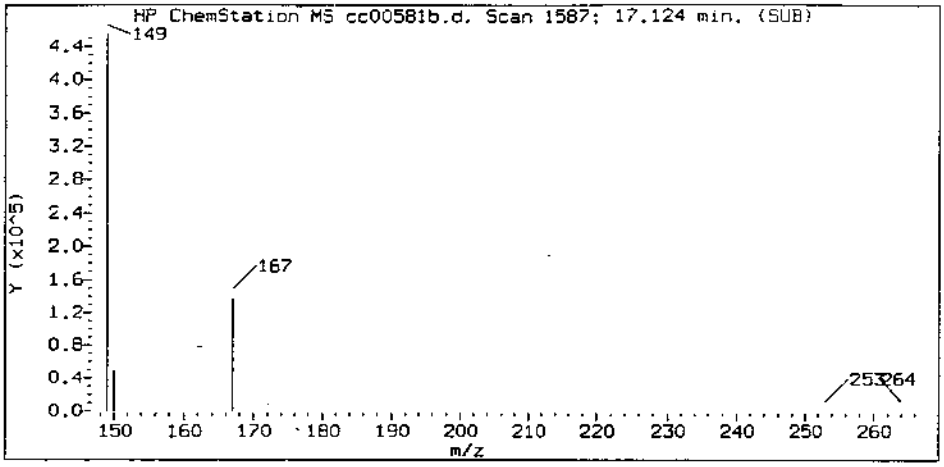
Sample Name: XXXXX

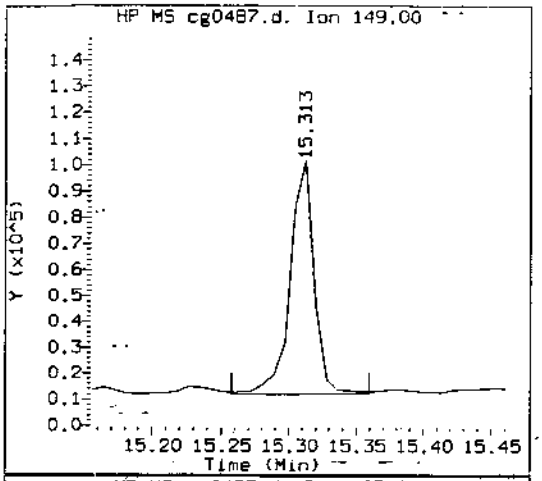
Lab Sample ID: 6339374

Compound Number	:	39
Compound Name	:	Butylbenzylphthalate
Scan Number	:	1378
Retention Time (minutes)	:	14.607
Quant Ion	:	149.0
Area (flag)	:	125834
Concentration (ng/ul)	:	0.4842

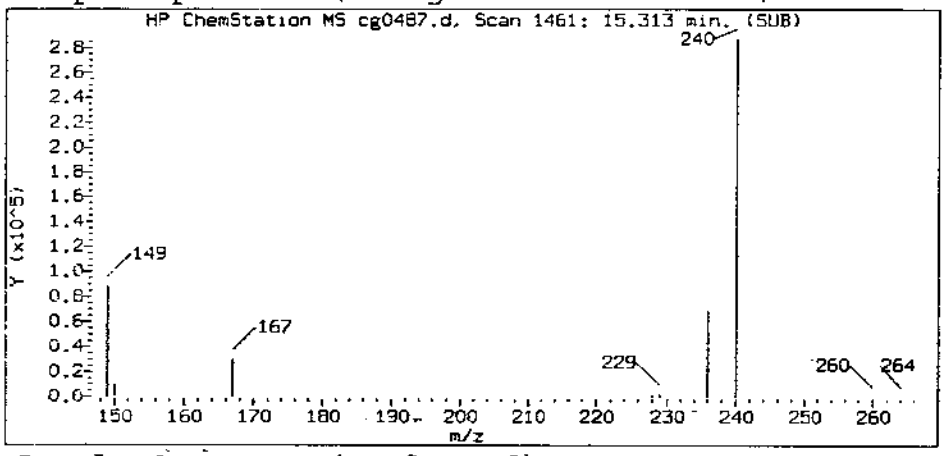
USF03 0722

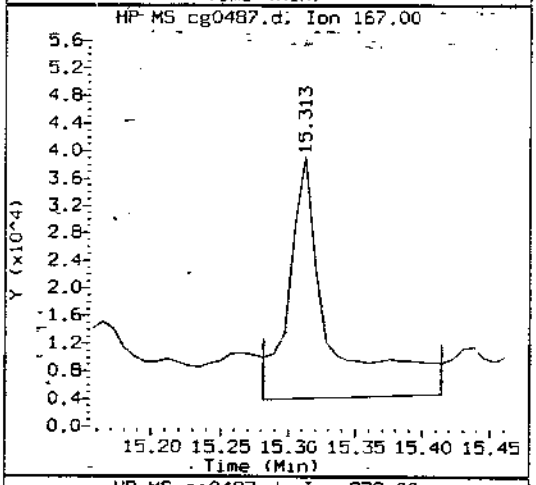
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



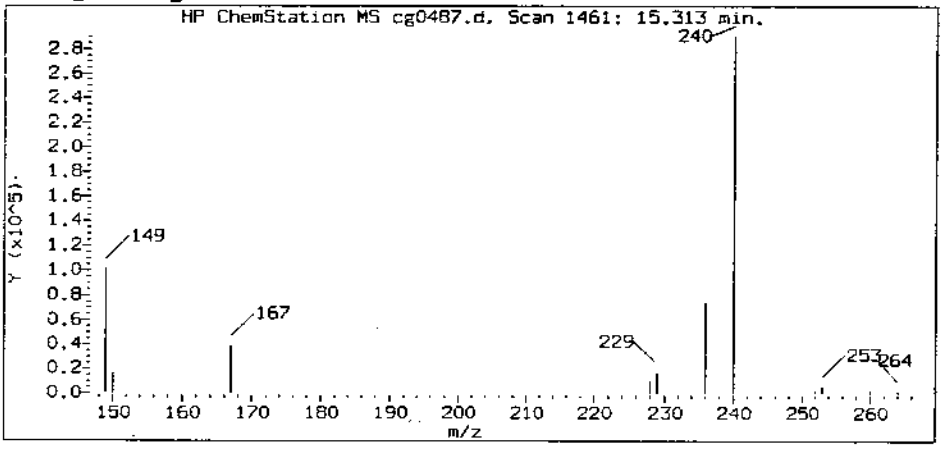


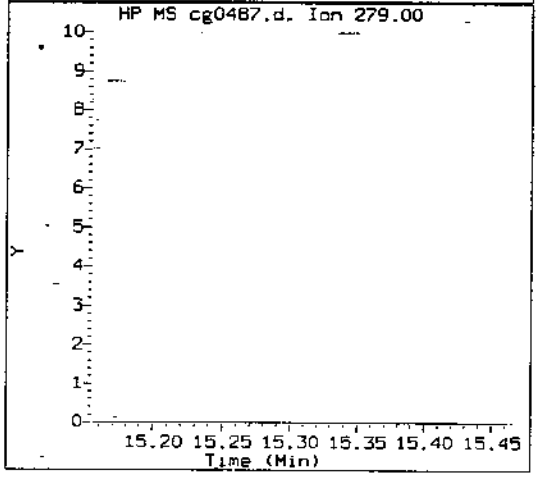
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0487.d
Injection date and time: 15-JUL-2011 10:01

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

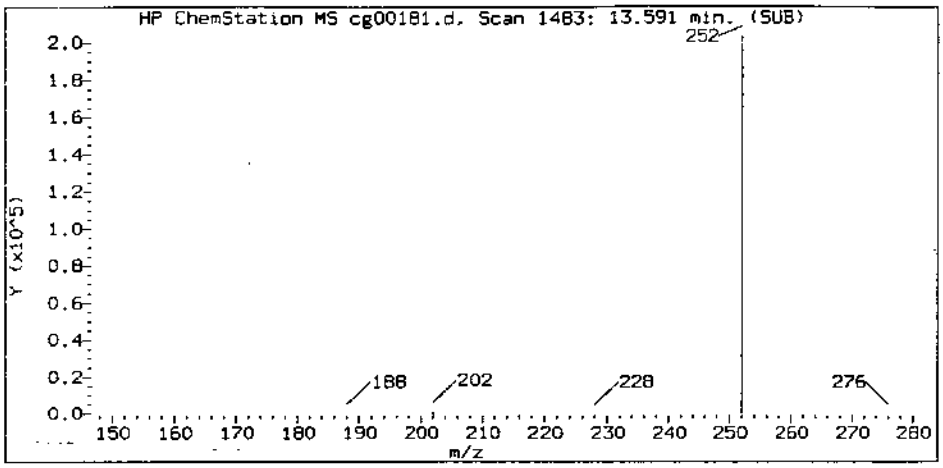
Sample Name: XXXXX

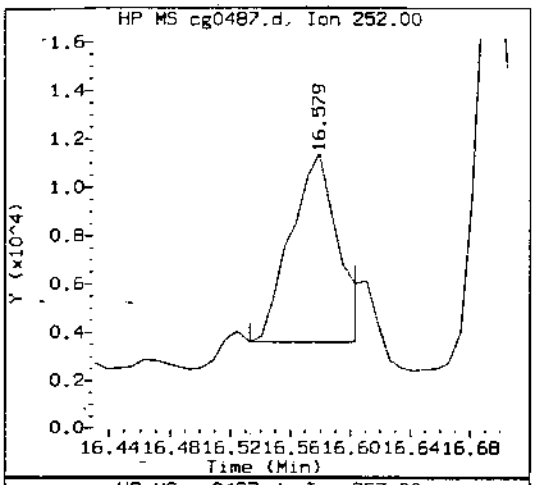
Lab Sample ID: 6339374

Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1461
Retention Time (minutes)	: 15.313
Quant Ion	: 149.0
Area (flag)	: 113132
Concentration (ng/ul)	: 0.3551

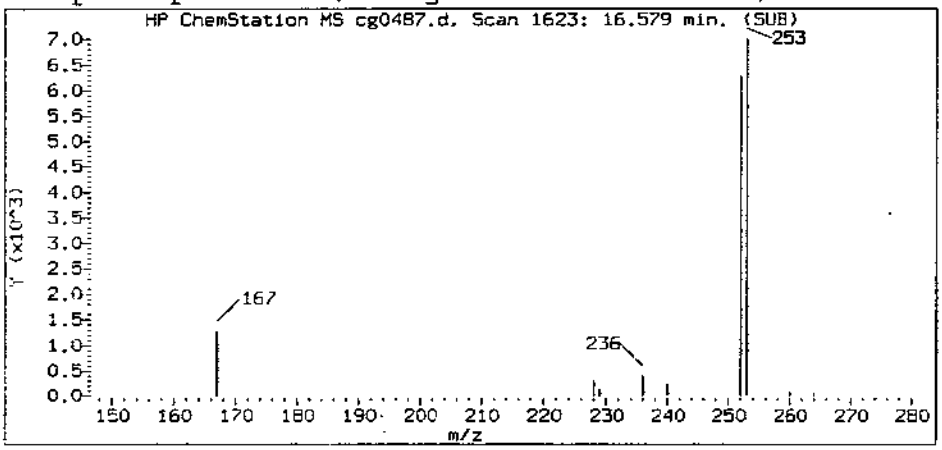
USF03 8723

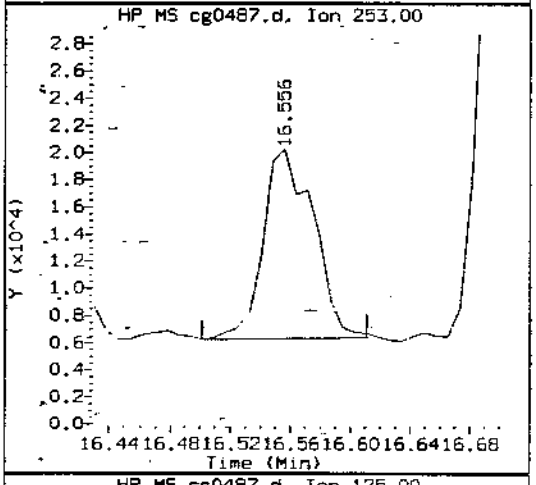
Reference Standard Spectrum for Benzo(b)fluoranthene



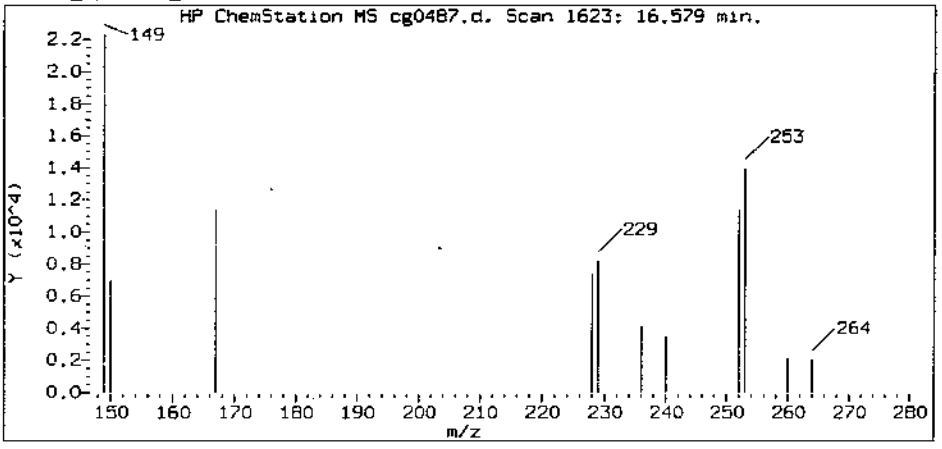


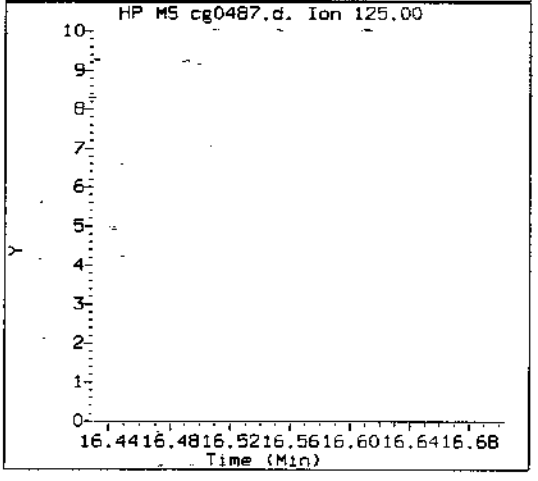
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

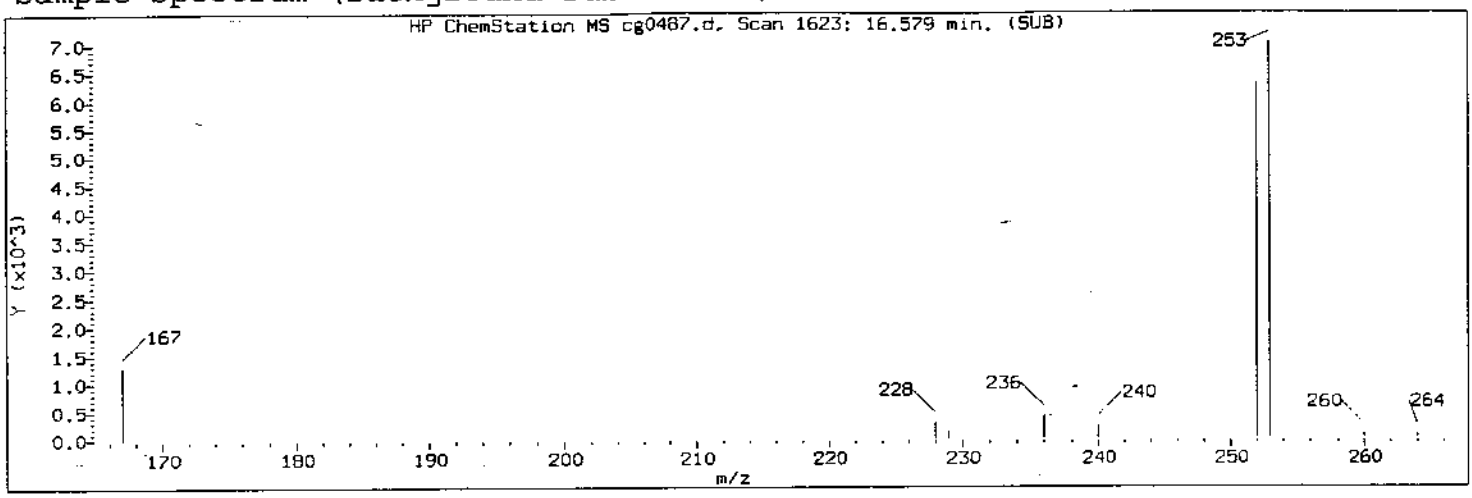
Sample Name: XXXXX Lab Sample ID: 6339374

Compound Number	:	45
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1623
Retention Time (minutes)	:	16.579
Quant Ion	:	252.0
Area (flag)	:	17074 M
Concentration (ng/ul)	:	0.0300

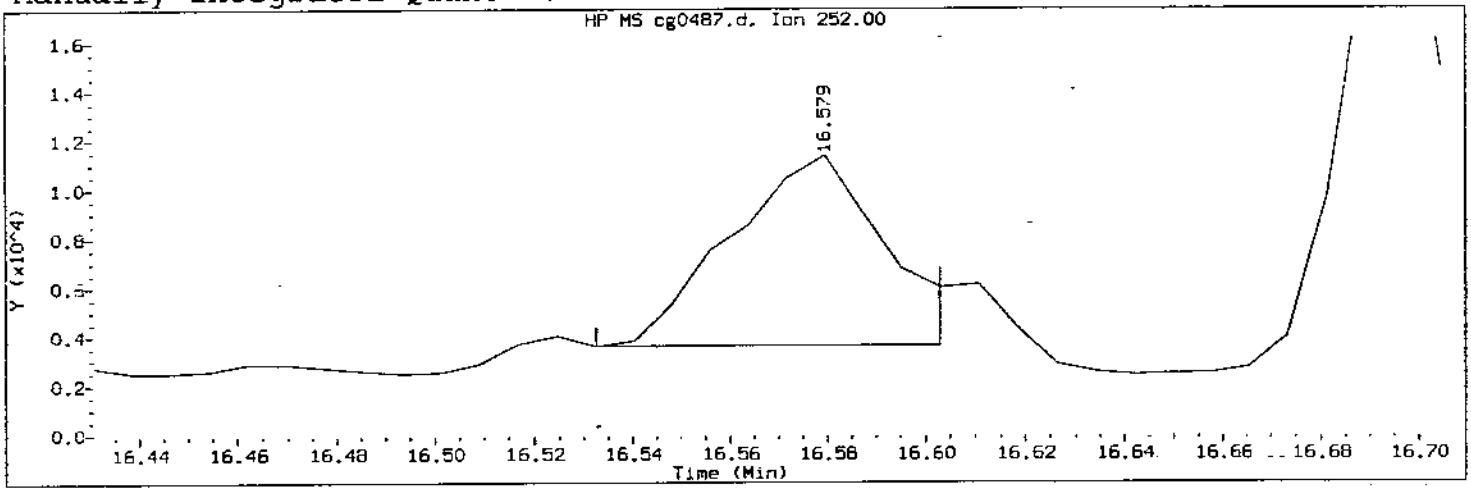
USF63 0724

Hit Data Report for data file /chem/HP10623.i/11jul15.b/cg0487.d, generated on 07/15/2011 at 14:12

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339374

Compound Number	:	45
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1623
Retention Time (minutes)	:	16.579
Quant Ion	:	252
Area (flag)	:	17074 M
Concentration (ng/ul)	:	0.0300
Integration start scan	:	1616 Integration stop scan: 1625
Y at integration start	:	3613 Y at integration end: 3613

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Greg Drahovsky Senior Chemist

JUL 15 2011

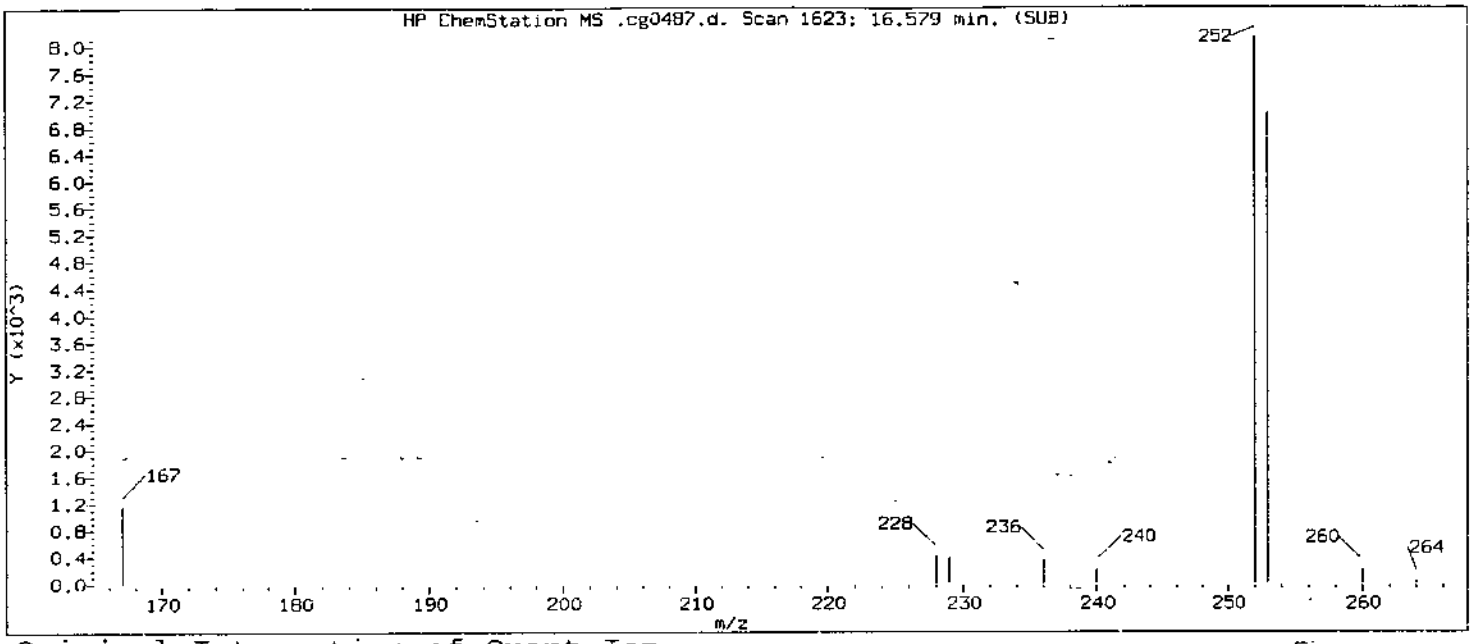
USPS 8725

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist

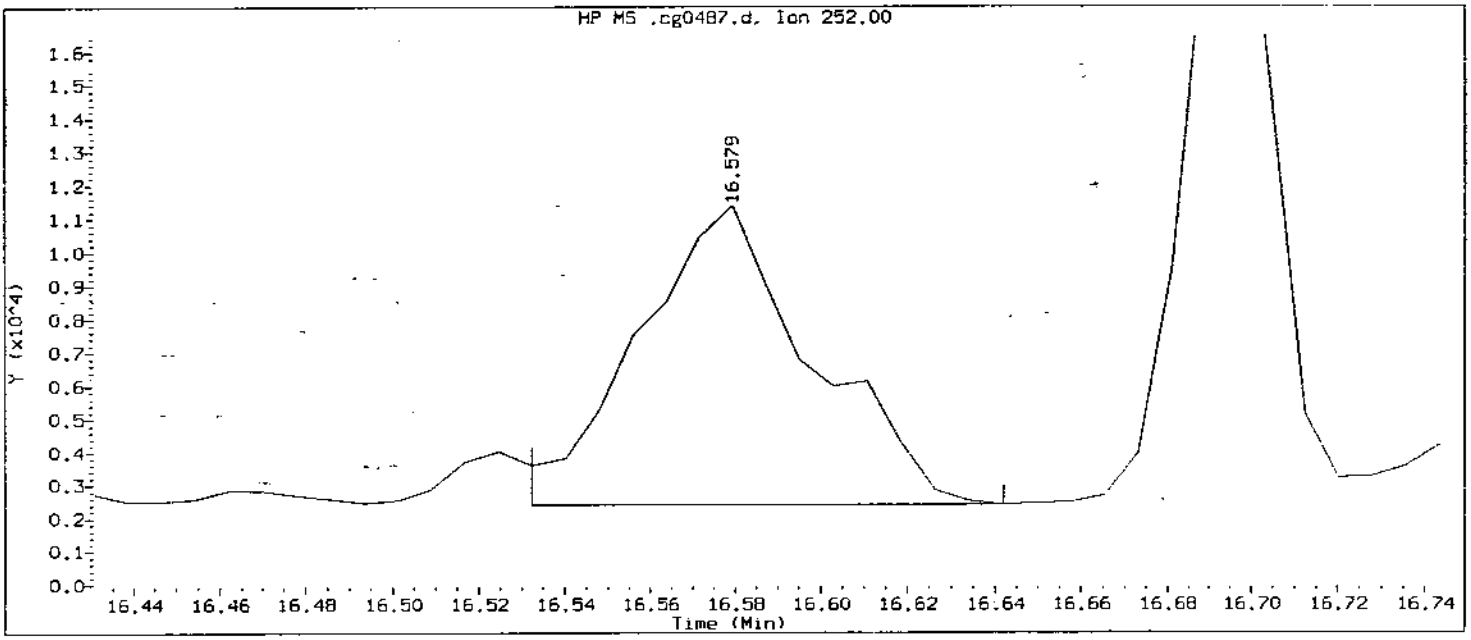
JUL 19 2011

Manual Integration Report for data file /chem/HP10623.i/11jul15.b/cg0487.d, generated on 07/15/2011 at 14:12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0487.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 10:26 Automation

Sample Name: XXXXX Lab Sample ID: 6339374

Compound Number	: 45		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1623		
Retention Time (minutes)	: 16.579		
Quant Ion	: 252		
Area	: 25291		
Concentration (ng/ul)	: 0.0444		
Integration start scan	: 1616	Integration stop scan:	1630
Y at integration start	: 2425	Y at integration end:	2418

USF03 8726

Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0487.d, generated on 07/15/2011 at 14:12

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339375

Data file: /chem/HP10623.i/11jul15.b/cg0488.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 10:33 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Method used: /chem/HP10623.i/11jul15.b/milpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 15-JUL-2011 12:06
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul15.b/cg0481.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.536(0.000)	545	152.0	145171(5)	1.00	
12) Naphthalene-d8	8.051(0.000)	710	136.0	582109(6)	1.00	
19) Acenaphthene-d10	10.200(0.000)	911	164.0	307103(5)	1.00	
30) Phenanthrene-d10	12.033(0.000)	1097	188.0	478791(2)	1.00	
42) Chrysene-d12	15.304(0.000)	1460	240.0	393021(1)	1.00	
49) Perylene-d12	17.072(0.000)	1686	264.0	386112(14)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.179(0.000)	82	219248	1.057	106%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.371(0.000)	172	347720	0.927	93%		63 - 129
38) Terphenyl-d14	(5)	14.007(0.000)	244	253047	0.926	93%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)			Below MDL, Do not report					0.02
14) 2-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
16) 1-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
18) Acenaphthylene	(3)			Below MDL, Do not report					0.01
20) Dimethylphthalate	(3)			Below MDL, Do not report					0.18
21) Acenaphthene	(3)			Below MDL, Do not report					0.02
22) Diethylphthalate	(3)			Below MDL, Do not report					0.18
23) Fluorene	(3)			Below MDL, Do not report					0.02
31) Phenanthrene	(4)			Below MDL, Do not report					0.02
32) Anthracene	(4)			Below MDL, Do not report					0.01
33) Di-n-butylphthalate	(4)	12.753(-0.001)	149	45013	0.255	8.51			0.18
35) Fluoranthene	(4)			Below MDL, Do not report					0.02
37) Pyrene	(5)			Below MDL, Do not report					0.02
39) Butylbenzylphthalate	(5)			Below MDL, Do not report					0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.312(0.000)	149	91014	0.350	11.65			0.18
41) Benzo(a)anthracene	(5)			Below MDL, Do not report					0.02
43) Chrysene	(5)	15.336(0.000)	228	7391	0.014	0.46			0.01
44) Di-n-octylphthalate	(6)				ND	ND			0.18
45) Benzo(b)fluoranthene	(6)			Below MDL, Do not report					0.02
46) Benzo(k)fluoranthene	(6)			Below MDL, Do not report					0.02
48) Benzo(a)pyrene	(6)			Below MDL, Do not report					0.02
51) Indeno(1,2,3-cd)pyrene	(6)			Below MDL, Do not report					0.02
52) Dibenz(a,h)anthracene	(6)			Below MDL, Do not report					0.02
53) Benzo(g,h,i)perylene	(6)			Below MDL, Do not report					0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF83 9722

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339375

Data file: /chem/HP10623.i/11jul15.b/cg0488.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 10:33 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 15-JUL-2011 12:06
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul15.b/cg0481.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

THIS SPACE WAS LEFT BLANK INTENTIONALLY

Total number of targets = 24

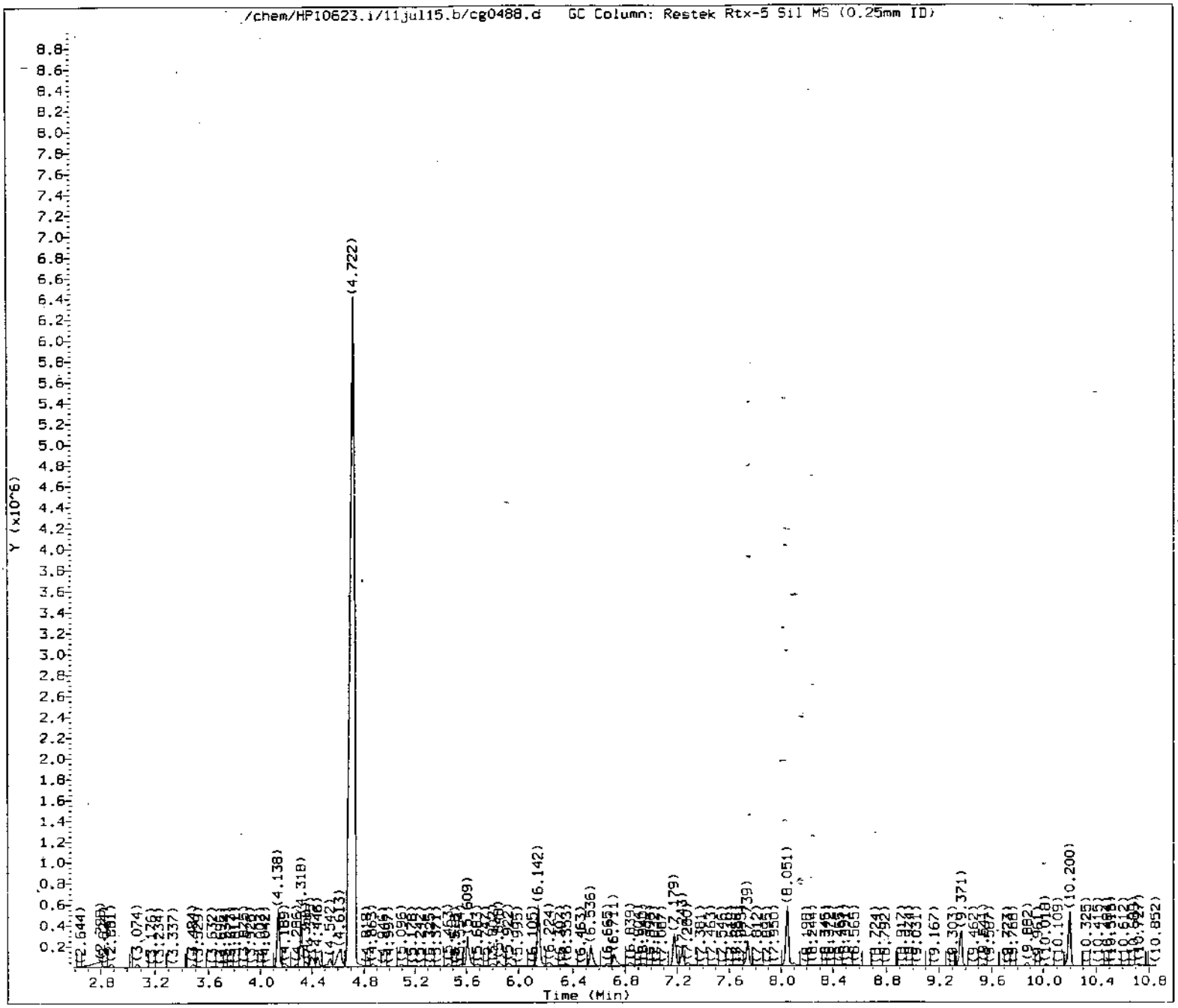
Comments: _____

Analyst: _____ Date: Greg Grahovsky Senior Chemist JUL 15 2011
Auditor: _____ Date: _____

Mark A. Ratcliff
Senior Specialist

JUL 19 2011

USF83 8729



Quant Report

Target Revision 3.5

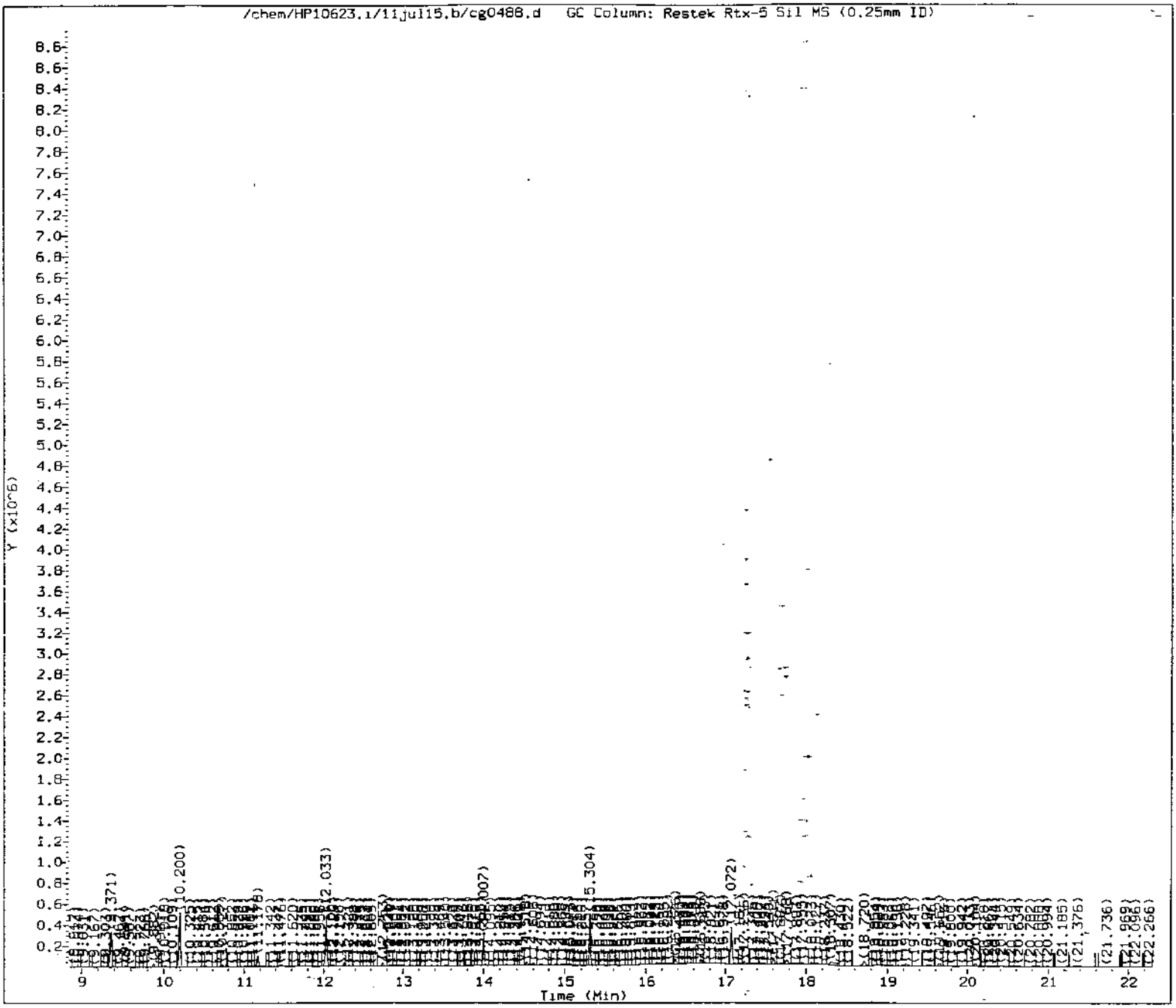
Data File: /chem/HP10623.i/11jul15.b/cg0488.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:33 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339375

Greg Grabovsky
Senior Chemist

JUL 15 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0488.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:33 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339375

USF03 8738

Greg Drahovsky
Senior Chemist

JUL 15 2011

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0488.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:33 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

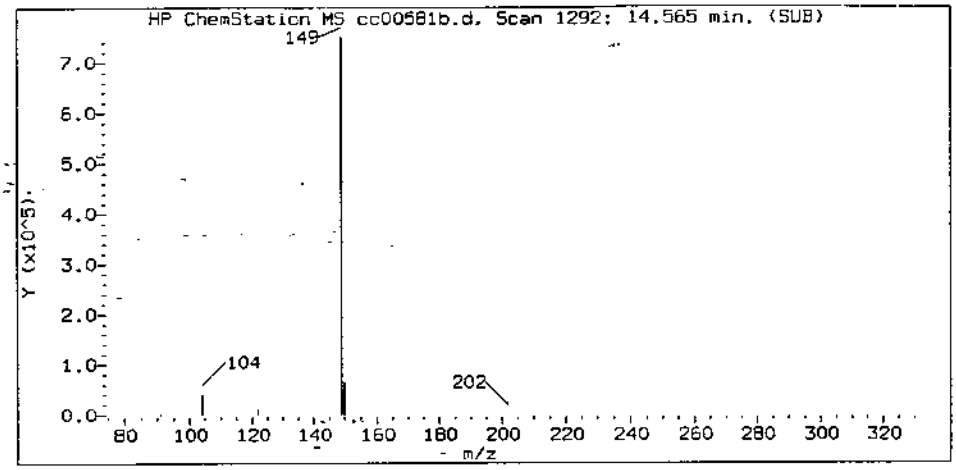
Sample Name: XXXXX Lab Sample ID: 6339375

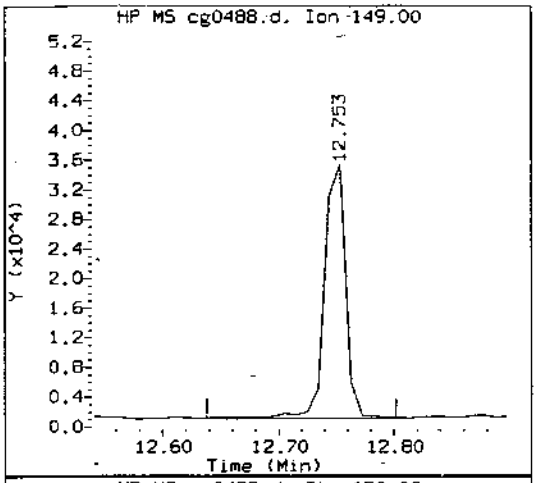
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.536	152	145171	1.0000
12) Naphthalene-d8	(2)	8.051	136	582109	1.0000
19) Acenaphthene-d10	(3)	10.200	164	307103	1.0000
30) Phenanthrene-d10	(4)	12.033	188	478791	1.0000
33) Di-n-butylphthalate	(4)	12.753	149	45013	0.2554
40) bis(2-Ethylhexyl)phthalate	(5)	15.312	149	91014	0.3496
42) Chrysene-d12	(5)	15.304	240	393021	1.0000
43) Chrysene	(5)	15.336	228	7391M	0.0139
49) Perylene-d12	(6)	17.072	264	386112	1.0000
10) Nitrobenzene-d5	(2)	7.179	82	219248	1.0571
17) 2-Fluorobiphenyl	(3)	9.371	172	347720	0.9268
38) Terphenyl-d14	(5)	14.007	244	253047	0.9260

M = Compound was manually integrated. A = User selected an alternate hit

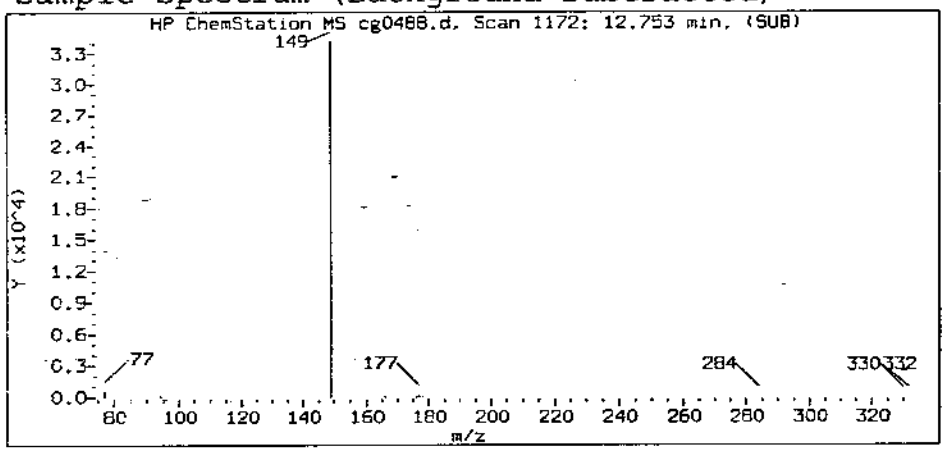
USF03 0731

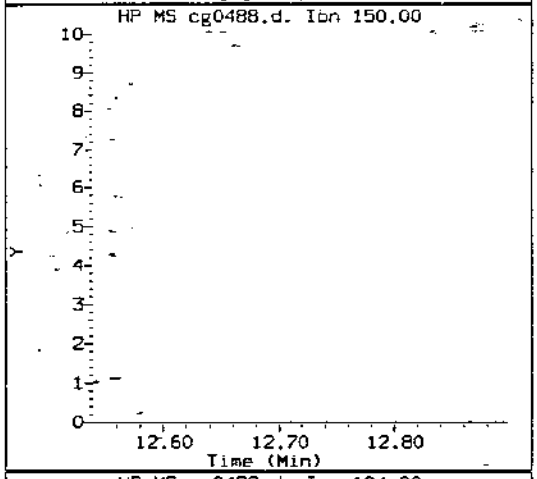
Reference Standard Spectrum for Di-n-butylphthalate



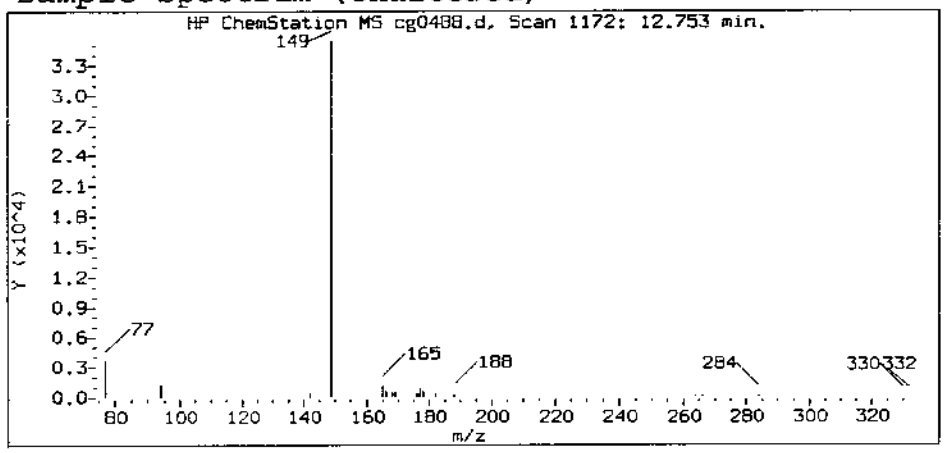


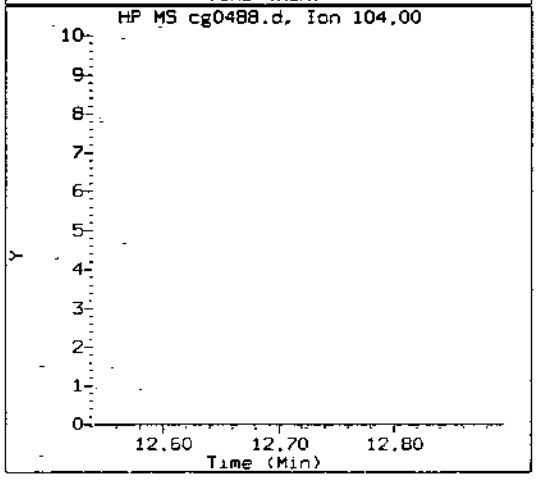
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0488.d
Injection date and time: 15-JUL-2011 10:33

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Sample Name: XXXXX

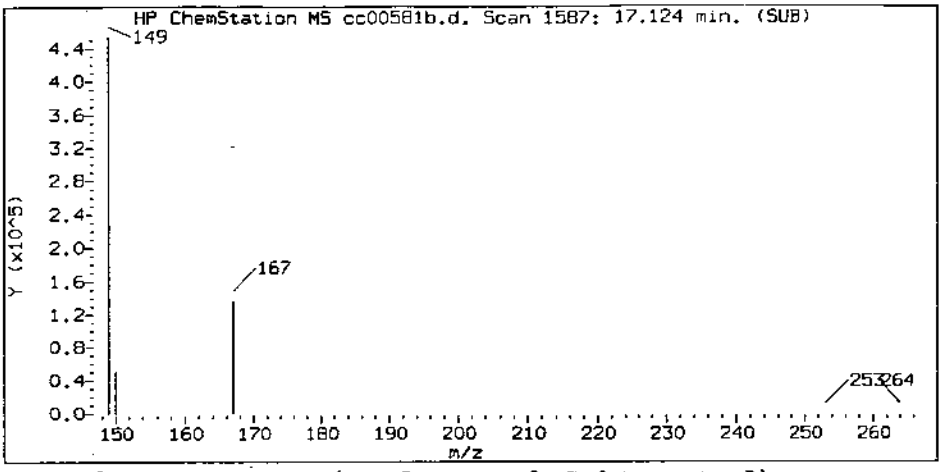
Lab Sample ID: 6339375

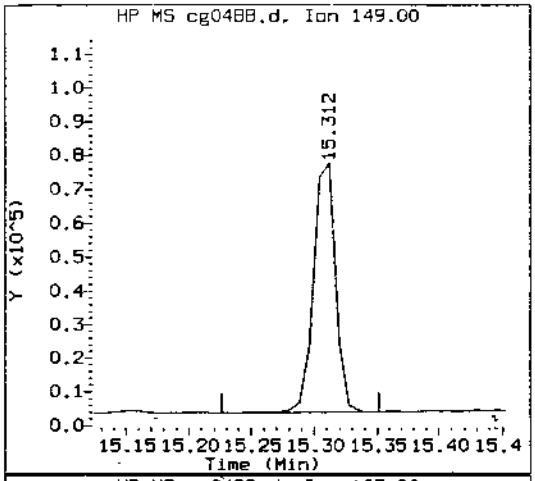
Compound Number	: 33
Compound Name	: Di-n-butylphthalate
Scan Number	: 1172
Retention Time (minutes)	: 12.753
Quant Ion	: 149.0
Area (flag)	: 45013
Concentration (ng/ul)	: 0.2554

USF03 0732

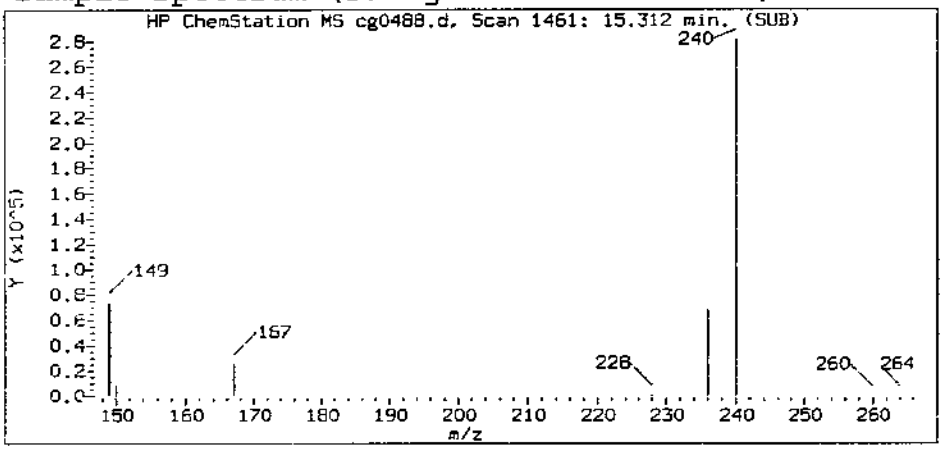
Hit Data Report for data file /chem/HP10623.i/11jul15.b/cg0488.d, generated on 07/15/2011 at 14:12

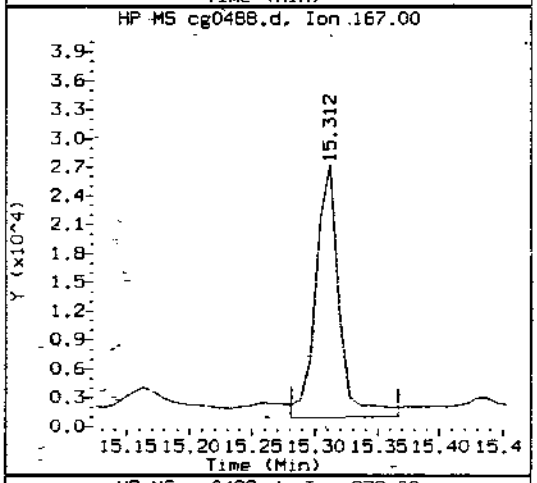
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



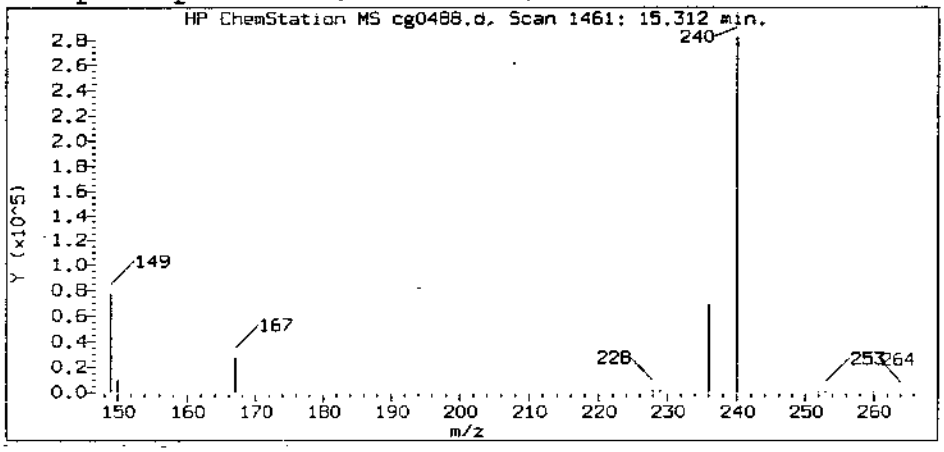


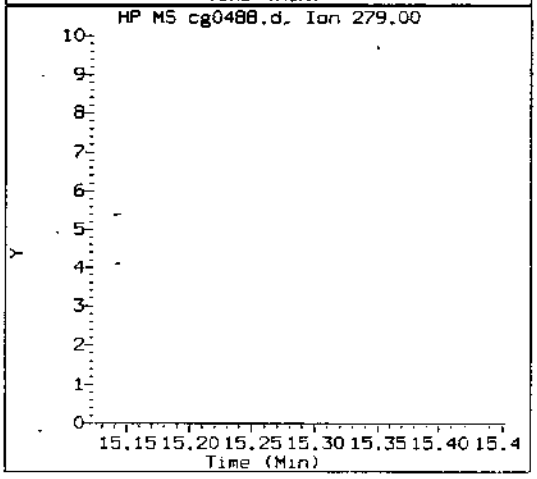
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0488.d
Injection date and time: 15-JUL-2011 10:33

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

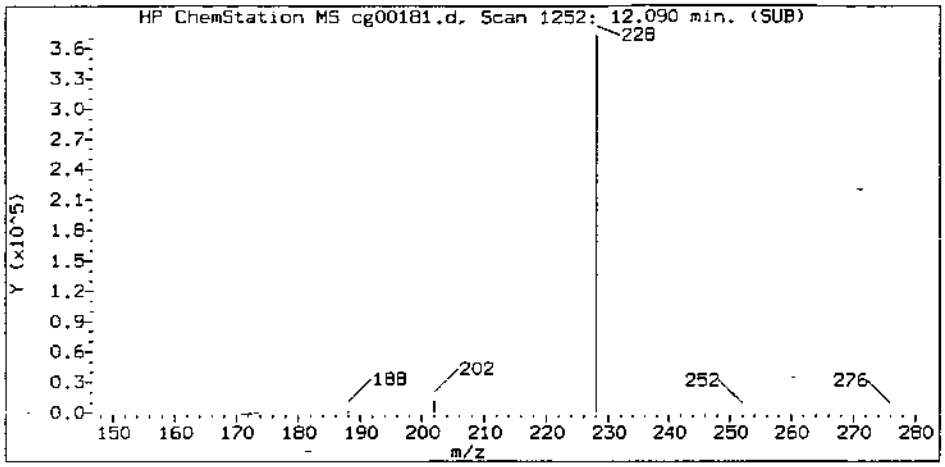
Sample Name: XXXXX

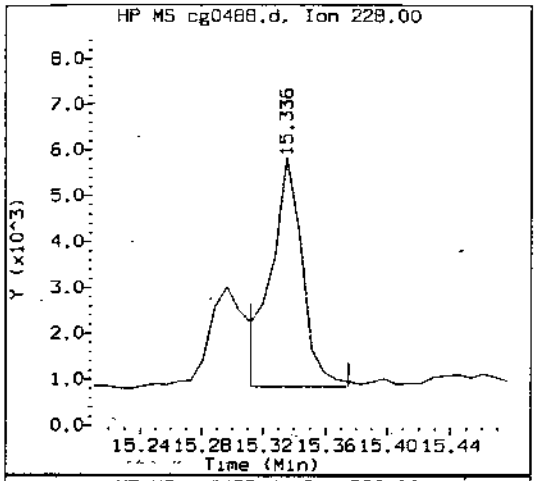
Lab Sample ID: 6339375

Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1461
Retention Time (minutes)	: 15.312
Quant Ion	: 149.0
Area (flag)	: 91014
Concentration (ng/ul)	: 0.3496

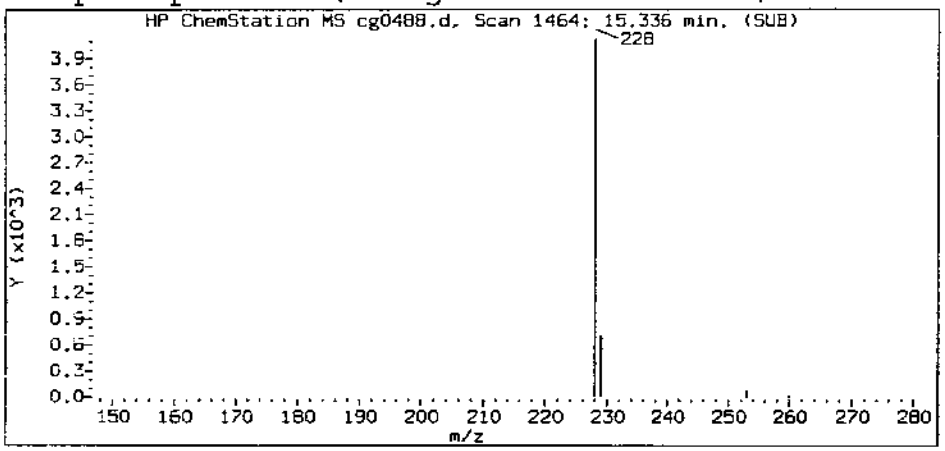
USF83 8733

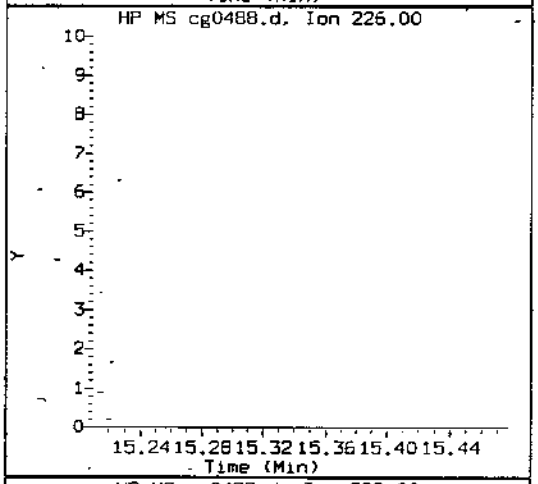
Reference Standard Spectrum for Chrysene



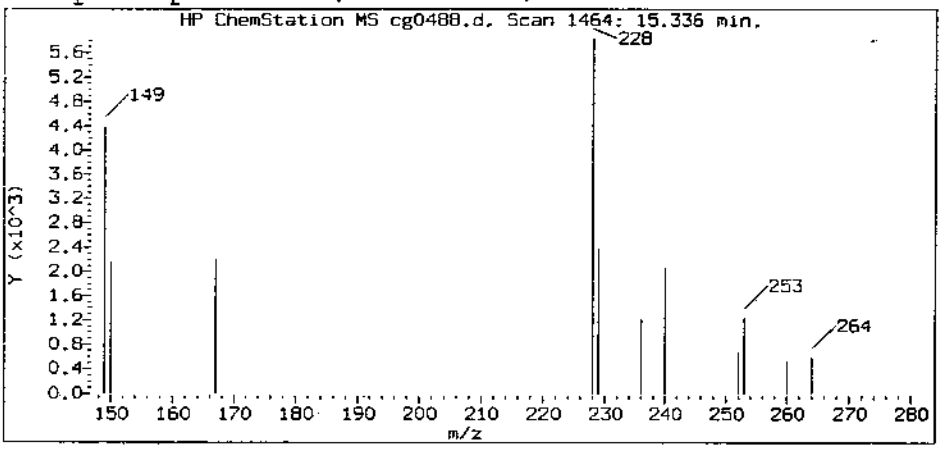


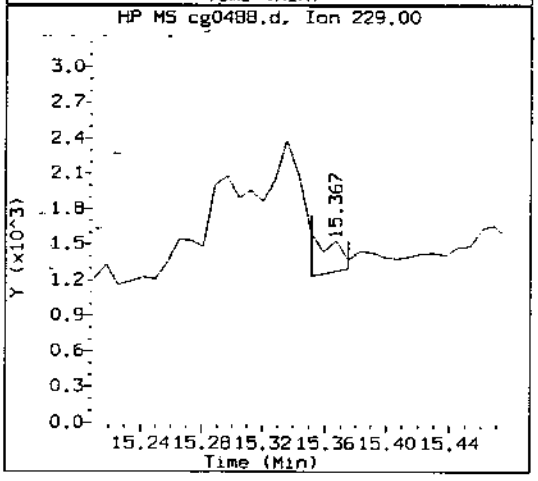
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0488.d
Injection date and time: 15-JUL-2011 10:33

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

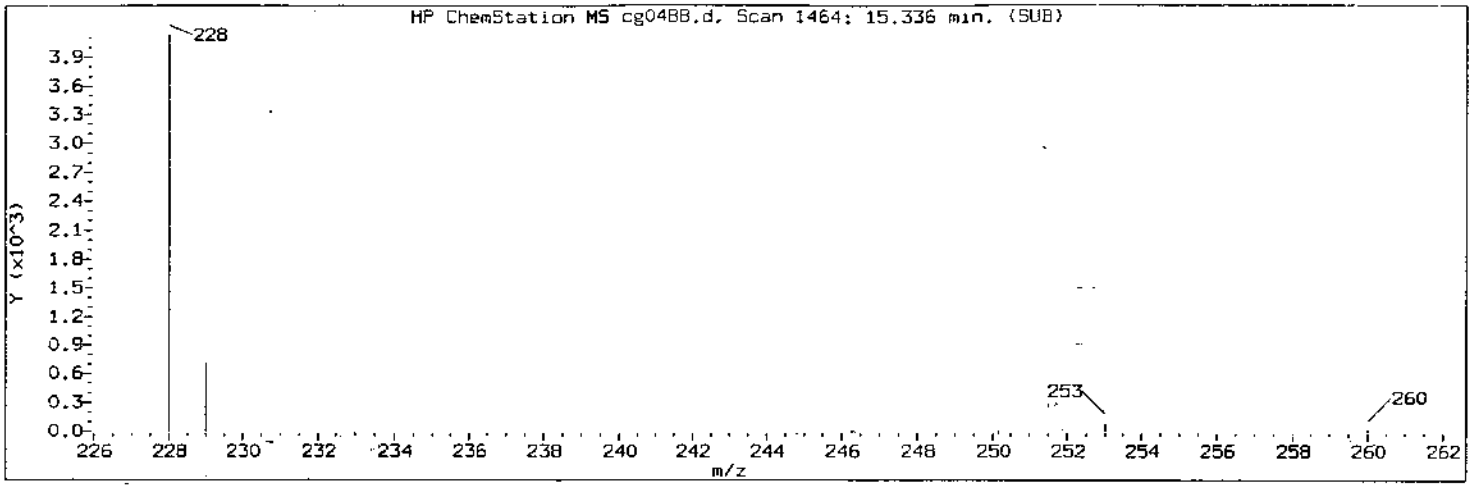
Sample Name: XXXXX

Lab Sample ID: 6339375

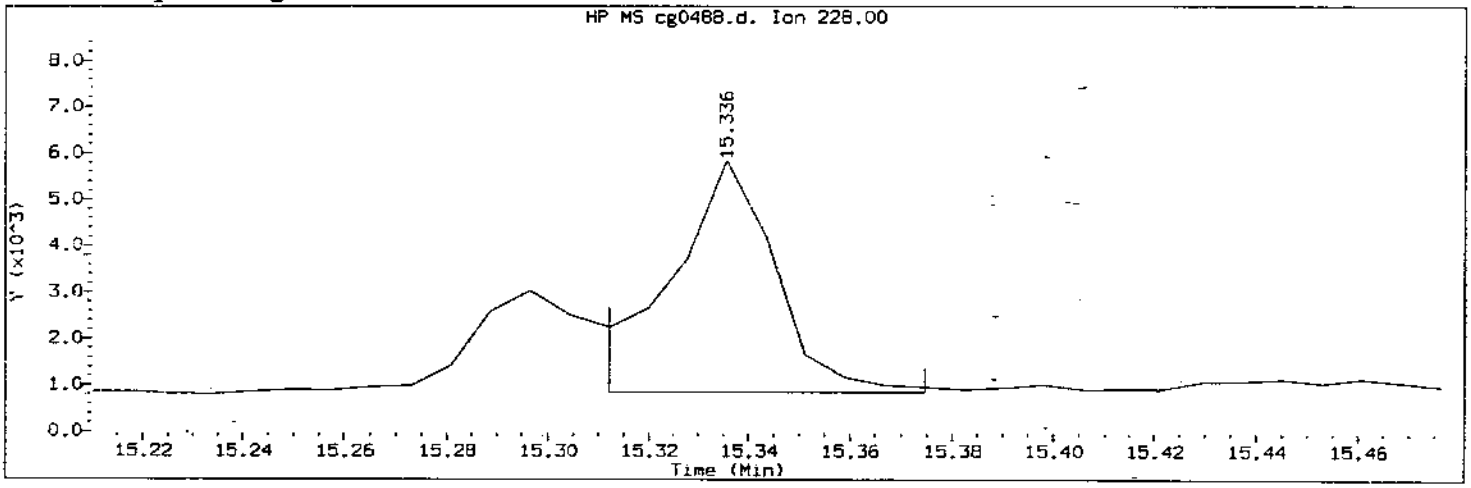
Compound Number	: 43
Compound Name	: Chrysene
Scan Number	: 1464
Retention Time (minutes)	: 15.336
Quant Ion	: 228.0
Area (flag)	: 7391 M
Concentration (ng/ul)	: 0.0139

USF83 8734

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0488.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:33 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:12 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339375

Compound Number	:	43
Compound Name	:	Chrysene
Scan Number	:	1464
Retention Time (minutes)	:	15.336
Quant Ion	:	228
Area (flag)	:	7391 M
Concentration (ng/ul)	:	0.0139
Integration start scan	:	1460 Integration stop scan: 1468
Y at integration start	:	852 Y at integration end: 852

Reason for manual integration (circle one): missed peak improper integration

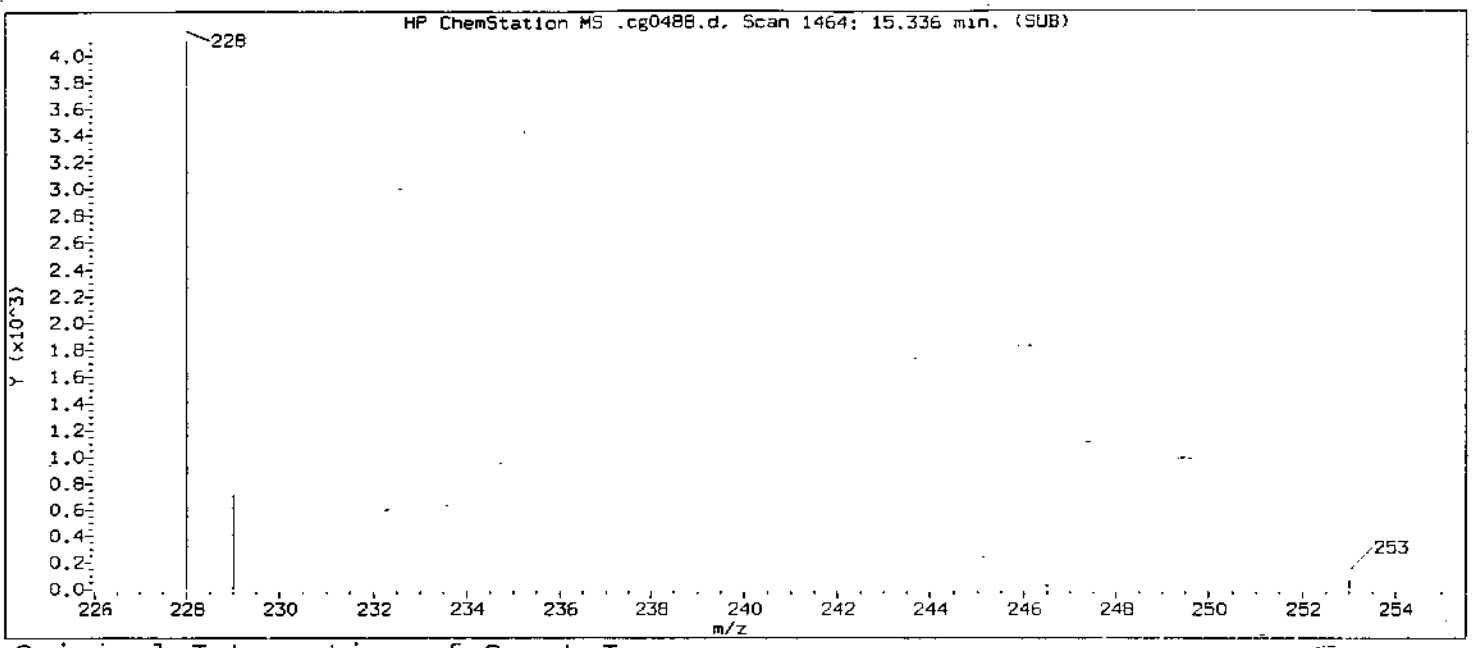
Analyst responsible for change: Greg Drahovsky Senior Chemist JUL 15 2011

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

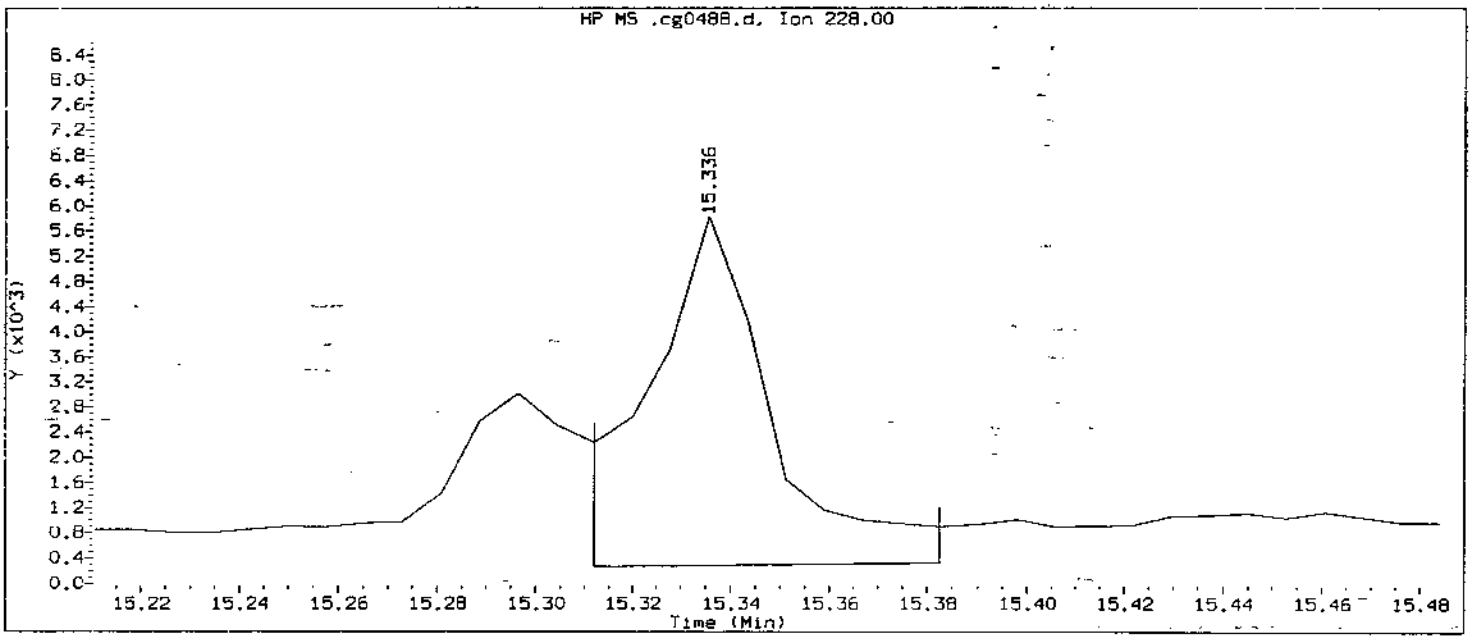
USF03 8735

Manual Integration Report for data file /chem/HP10623.i/11jul15.b/cg0488.d, generated on 07/15/2011 at 14:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0488.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 10:33 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: all
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 10:59 Automation

Sample Name: XXXXX Lab Sample ID: 6339375

Compound Number	: 43
Compound Name	: Chrysene
Scan Number	: 1464
Retention Time (minutes)	: 15.336
Quant Ion	: 228
Area	: 9782
Concentration (ng/ul)	: 0.0183
Integration start scan	: 1460 Integration stop scan: 1469
Y at integration start	: 275 Y at integration end: 330

USF03 8736

Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0488.d, generated on 07/15/2011 at 14:13

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

6339377

Data file: /chem/HP10623.i/11jul14a.b/cg0458.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 20:59 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.4 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.519(0.000)	543	152.0	148593(-2)	1.00	
12) Naphthalene-d8	8.024(0.000)	707	136.0	598652(-1)	1.00	
19) Acenaphthene-d10	10.166(0.000)	908	164.0	313677(-3)	1.00	
30) Phenanthrene-d10	12.005(0.000)	1094	188.0	490846(-2)	1.00	
42) Chrysene-d12	15.273(0.000)	1456	240.0	387861(-3)	1.00	
49) Perylene-d12	17.033(0.000)	1681	264.0	351620(5)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.161(0.000)	82	227007	1.064	106%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.338(0.000)	172	359908	0.939	94%		63 - 129
38) Terphenyl-d14	(5)	13.972(0.000)	244	257066	0.953	95%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)			Below MDL, Do not report					0.02
14) 2-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
16) 1-Methylnaphthalene	(2)			Below MDL, Do not report					0.02
18) Acenaphthylene	(3)			Below MDL, Do not report					0.01
20) Dimethylphthalate	(3)			Below MDL, Do not report					0.18
21) Acenaphthene	(3)			Below MDL, Do not report					0.02
22) Diethylphthalate	(3)			Below MDL, Do not report					0.18
23) Fluorene	(3)			Below MDL, Do not report					0.02
31) Phenanthrene	(4)			Below MDL, Do not report					0.02
32) Anthracene	(4)			Below MDL, Do not report					0.01
33) Di-n-butylphthalate	(4)	12.715(0.000)	149	33679	0.238		7.83		0.18
35) Fluoranthene	(4)			Below MDL, Do not report					0.02
37) Pyrene	(5)			Below MDL, Do not report					0.02
39) Butylbenzylphthalate	(5)			Below MDL, Do not report					0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.266(0.001)	149	67012	0.296		9.73		0.18
41) Benzo(a)anthracene	(5)			Below MDL, Do not report					0.02
43) Chrysene	(5)			Below MDL, Do not report					0.01
44) Di-n-octylphthalate	(6)			Below MDL, Do not report					0.18
45) Benzo(b)fluoranthene	(6)			Below MDL, Do not report					0.02
46) Benzo(k)fluoranthene	(6)			Below MDL, Do not report					0.02
48) Benzo(a)pyrene	(6)			Below MDL, Do not report					0.02
51) Indeno(1,2,3-cd)pyrene	(6)			Below MDL, Do not report					0.02
52) Dibenz(a,h)anthracene	(6)			Below MDL, Do not report					0.02
53) Benzo(g,h,i)perylene	(6)			Below MDL, Do not report					0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF63 8737

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339377

Data file: /chem/HP10623.i/11jul14a.b/cg0458.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 20:59 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DP * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.4 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

Comments:

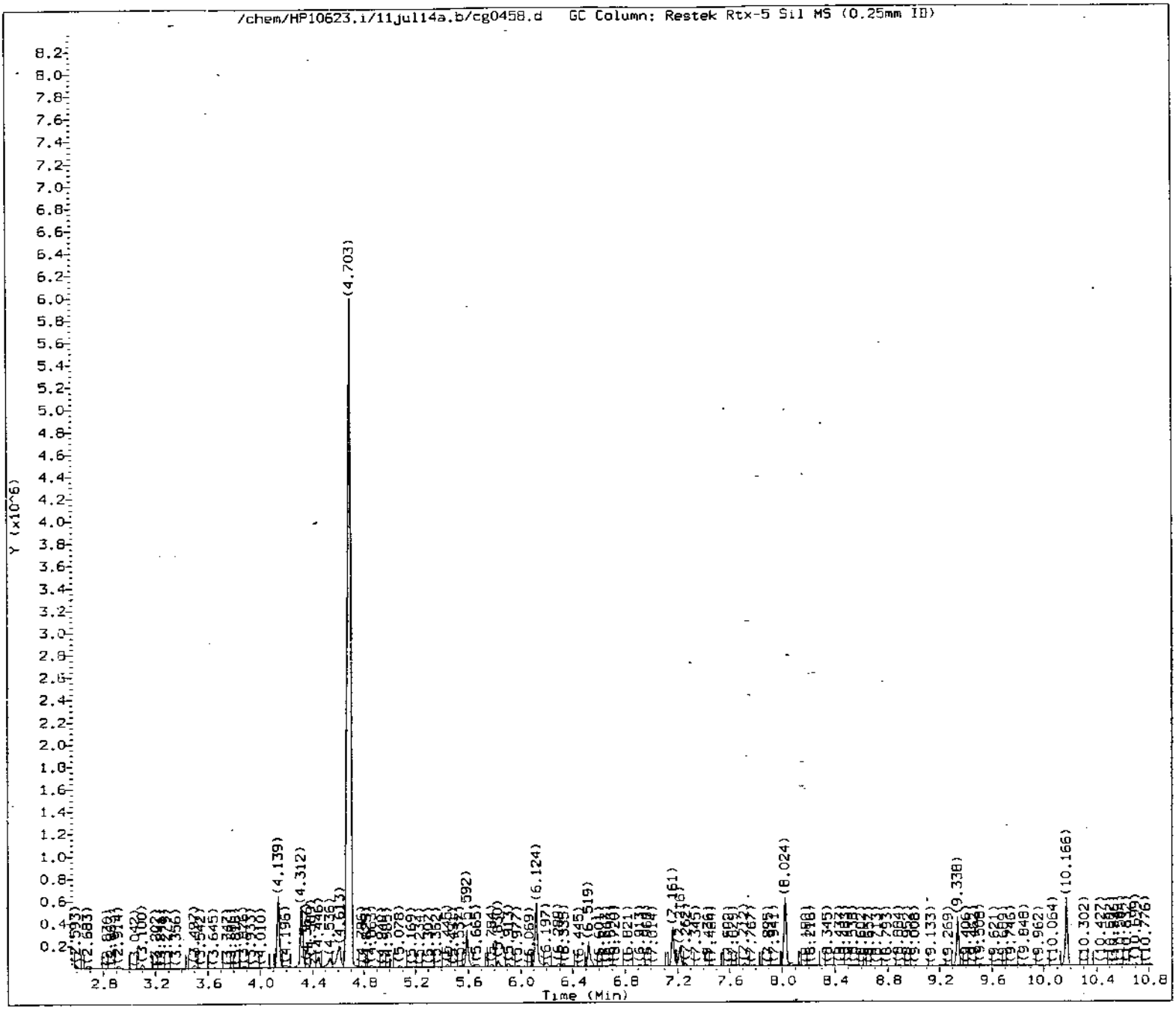
JUL 15 2011

Analyst: Joe Gambler Date:
Senior Chemist

Auditor: Mark A. Ratcliff Date:
Senior Specialist

JUL 19 2011

USF03 8738



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0458.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 20:59 Analyst ID: gjd01970

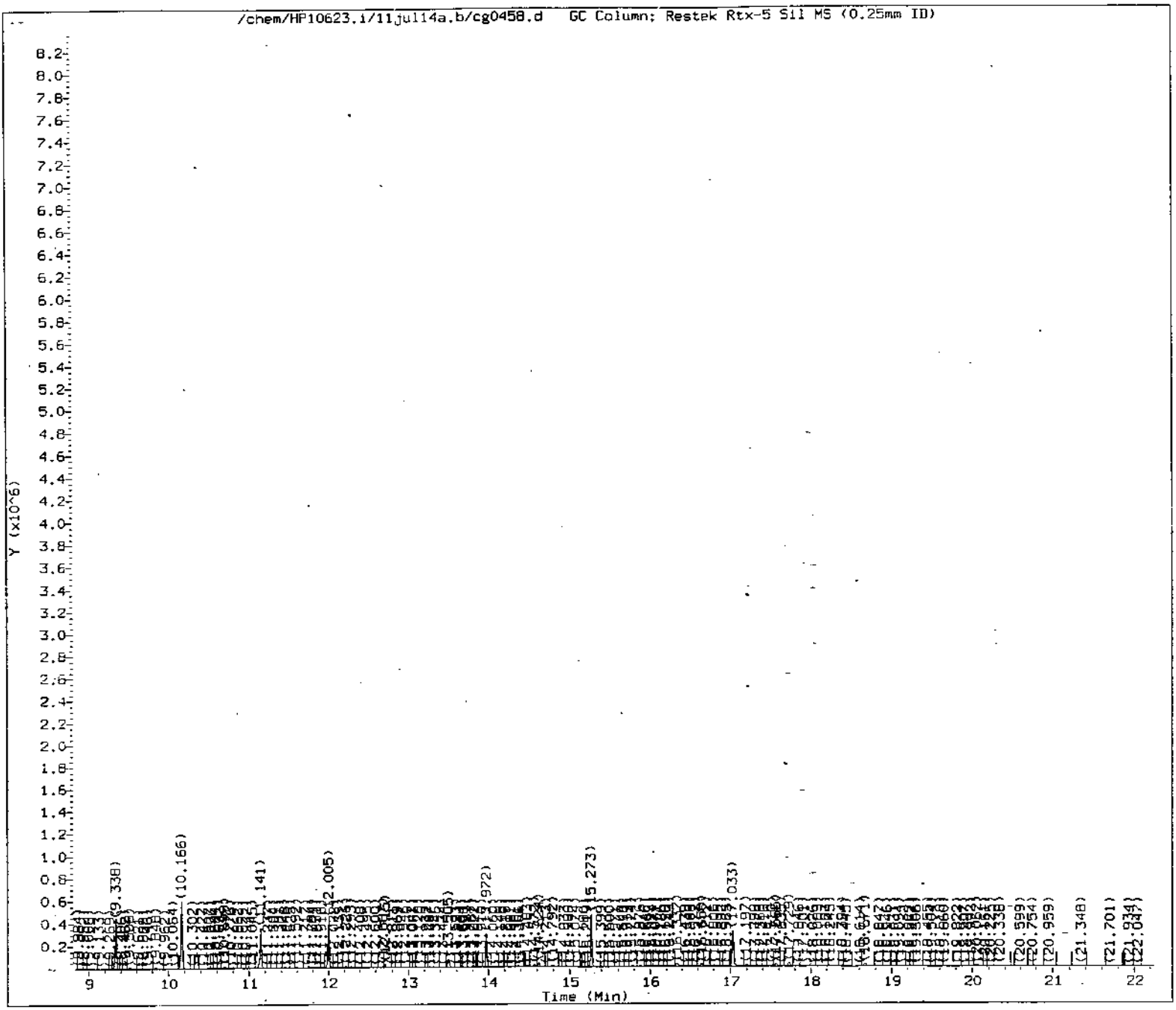
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339377

USF03 6739

JUL 15 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0458.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 20:59 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339377

USP83 8748

JUL 15 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0458.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 20:59 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 jmg00346

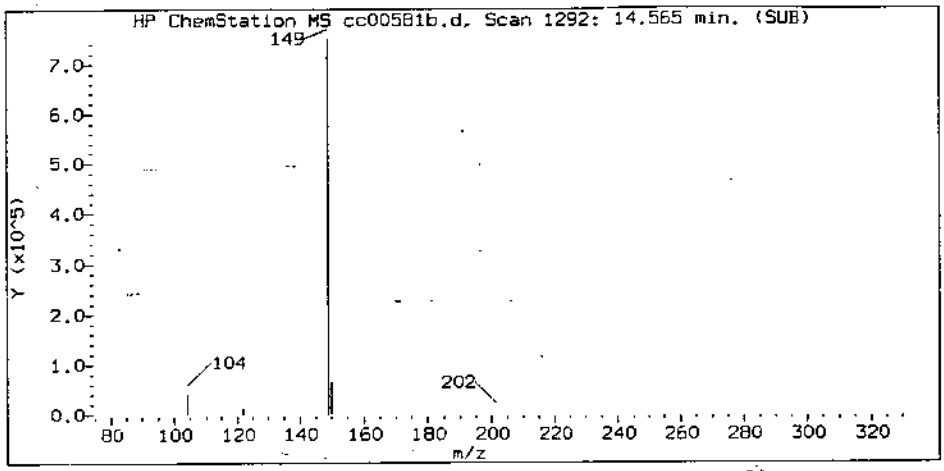
Sample Name: XXXXX Lab Sample ID: 6339377

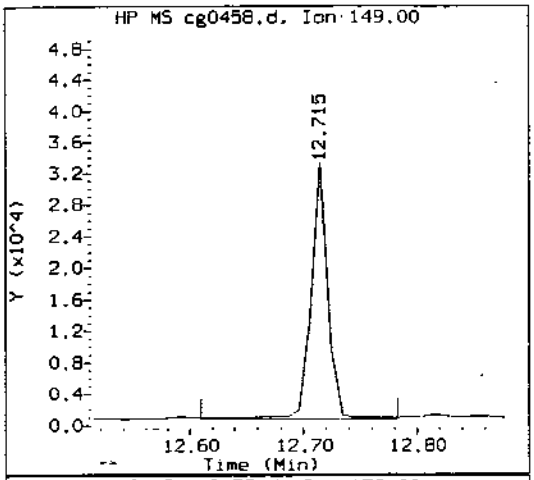
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.519	152	148593	1.0000
12) Naphthalene-d8	(2)	8.024	136	598652	1.0000
19) Acenaphthene-d10	(3)	10.166	164	313677	1.0000
30) Phenanthrene-d10	(4)	12.005	188	490846	1.0000
33) Di-n-butylphthalate	(4)	12.715	149	33679	0.2382
40) bis(2-Ethylhexyl)phthalate	(5)	15.266	149	67012	0.2959
42) Chrysene-d12	(5)	15.273	240	387861	1.0000
49) Perylene-d12	(6)	17.033	264	351620	1.0000
10) Nitrobenzene-d5	(2)	7.161	82	227007	1.0642
17) 2-Fluorobiphenyl	(3)	9.338	172	359908	0.9392
38) Terphenyl-d14	(5)	13.972	244	257066	0.9532

M = Compound was manually integrated. A = User selected an alternate hit

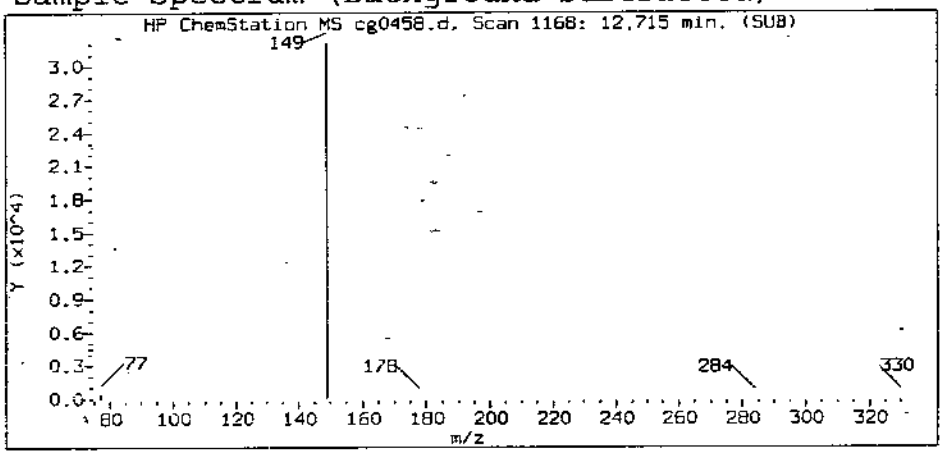
USF03 8741

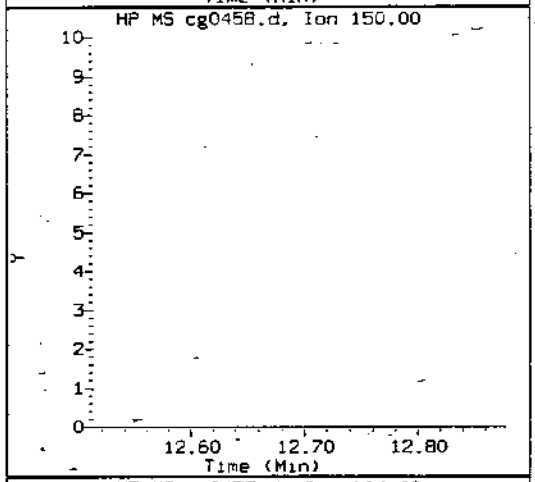
Reference Standard Spectrum for Di-n-butylphthalate



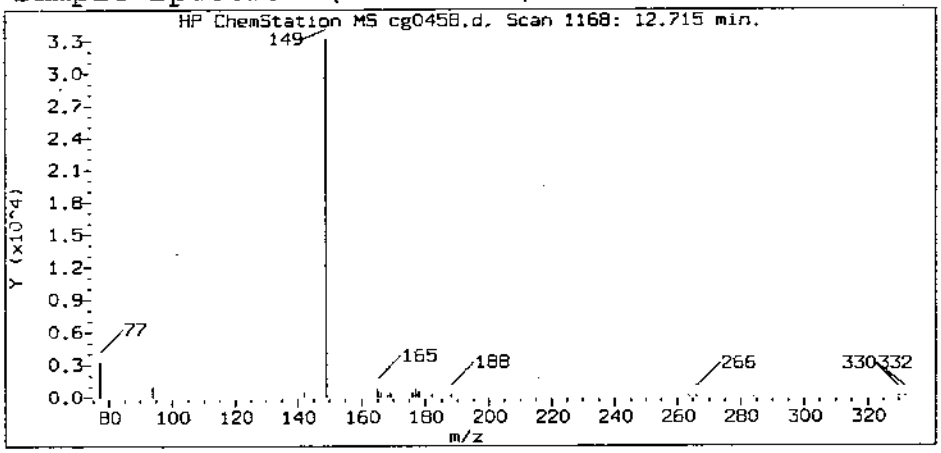


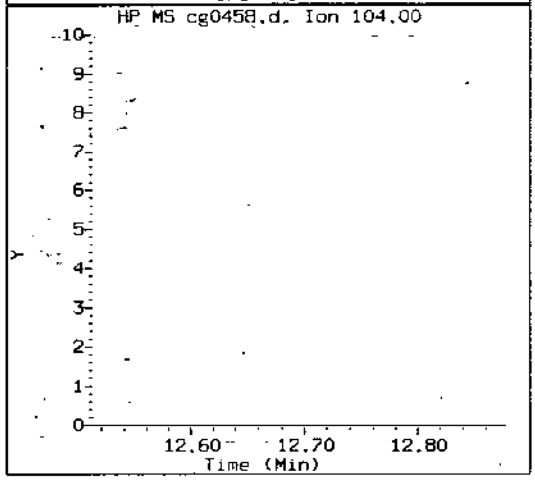
Sample Spectrum -(Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0458.d
Injection date and time: 14-JUL-2011 20:59

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 jmg00346

Sample Name: XXXXX

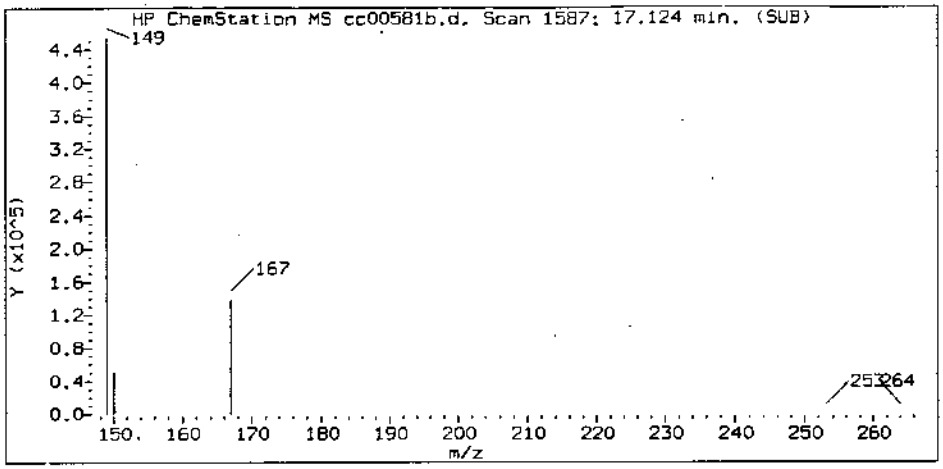
Lab Sample ID: 6339377

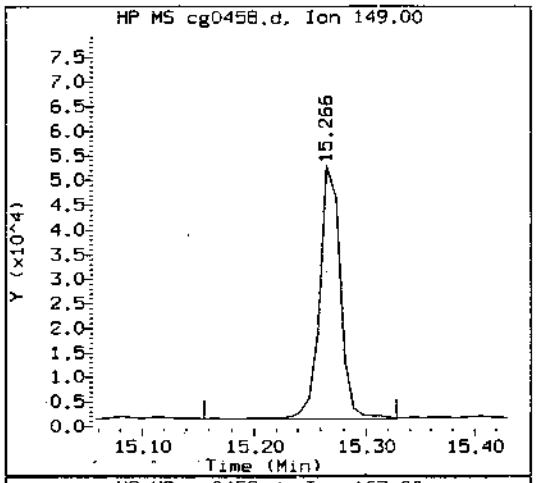
Compound Number	:	33
Compound Name	:	Di-n-butylphthalate
Scan Number	:	1168
Retention Time (minutes)	:	12.715
Quant Ion	:	149.0
Area (flag)	:	33679
Concentration (ng/ul)	:	0.2382

USF03 8742

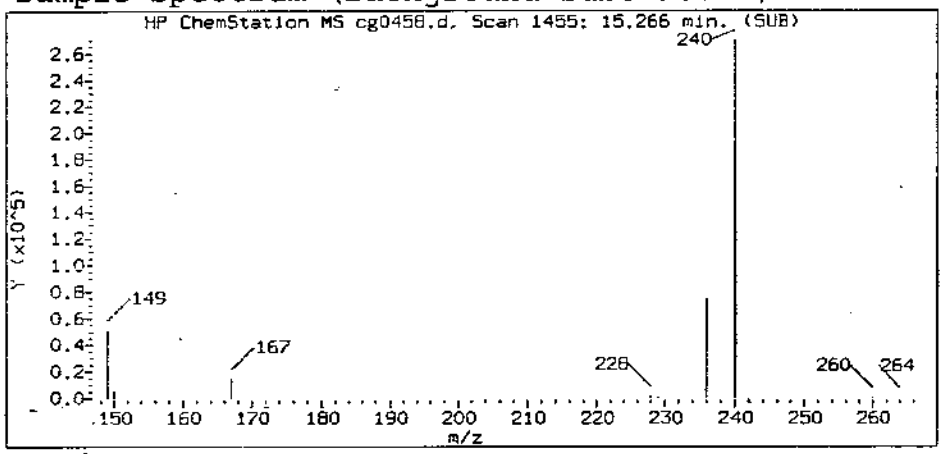
Hit Data Report for data file /chem/HP10623.i/11jul14a.b/cg0458.d, generated on 07/15/2011 at 04:42

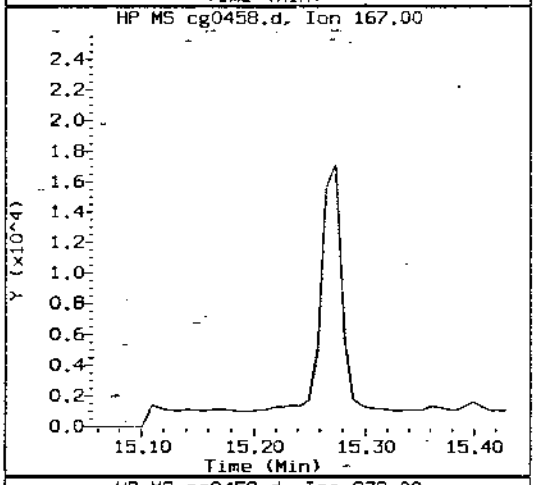
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



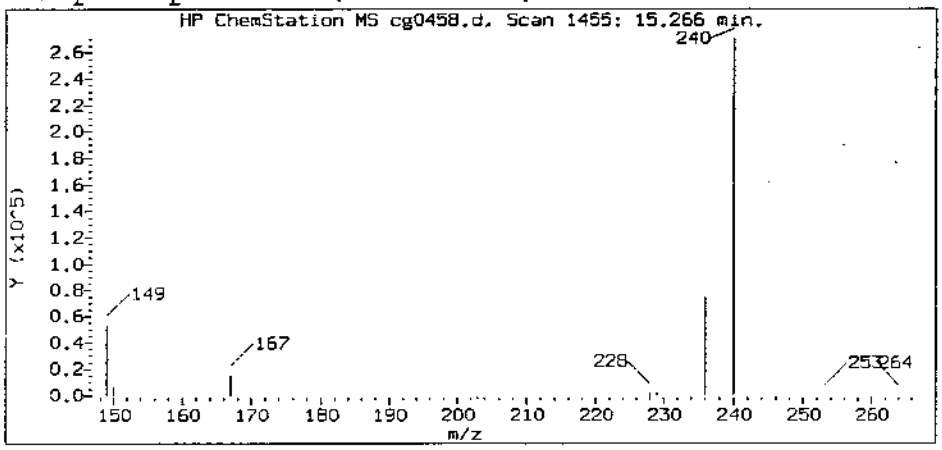


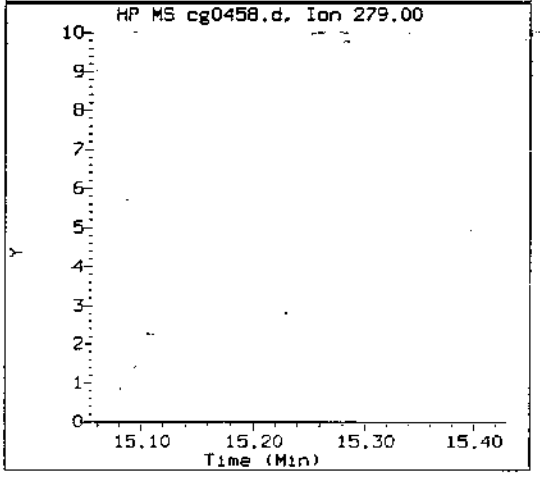
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0458.d
Injection date and time: 14-JUL-2011 20:59

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:42 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6339377

Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1455
Retention Time (minutes)	: 15.266
Quant Ion	: 149.0
Area (flag)	: 67012
Concentration (ng/ul)	: 0.2959

USF03 9243

XXXXXMS

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339378

Data file: /chem/HP10623.i/11jul14a.b/cg0459.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 21:31 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.5 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.518	(0.000)	543	152.0	158567	(4)	1.00	
12) Naphthalene-d8	8.023	(0.000)	707	136.0	641716	(-6)	1.00	
19) Acenaphthene-d10	10.166	(0.000)	908	164.0	336931	(5)	1.00	
30) Phenanthrene-d10	12.004	(0.000)	1094	188.0	529670	(6)	1.00	
42) Chrysene-d12	15.273	(0.000)	1456	240.0	427476	(6)	1.00	
49) Perylene-d12	17.033	(0.000)	1681	264.0	398021	(19)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.161	(0.000)	82	235572	1.030	103%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.337	(0.000)	172	380994	0.926	93%		63 - 129
38) Terphenyl-d14	(5)	13.972	(0.000)	244	267914	0.901	90%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)	8.051	(0.000)	128	583477	0.846	27.75			0.02
14) 2-Methylnaphthalene	(2)	8.883	(0.000)	142	378798	0.872	28.58			0.02
16) 1-Methylnaphthalene	(2)	9.008	(0.000)	142	350362	0.840	27.54			0.02
18) Acenaphthylene	(3)	9.995	(0.000)	152	537354	0.981	32.16			0.01
20) Dimethylphthalate	(3)	9.825	(0.000)	163	430919	1.054	34.56			0.18
21) Acenaphthene	(3)	10.211	(0.000)	154	377372	0.982	32.20			0.02
22) Diethylphthalate	(3)	10.698	(0.000)	149	458384	1.087	35.63			0.18
23) Fluorene	(3)	10.842	(0.000)	166	420622	1.011	33.14			0.02
31) Phenanthrene	(4)	12.033	(0.000)	178	584419	0.939	30.79			0.02
32) Anthracene	(4)	12.091	(0.000)	178	590213	1.007	33.03			0.01
33) Di-n-butylphthalate	(4)	12.715	(0.000)	149	694793	1.083	35.52			0.18
35) Fluoranthene	(4)	13.504	(0.000)	202	637519	1.029	33.75			0.02
37) Pyrene	(5)	13.787	(0.000)	202	659601	0.985	32.31			0.02
39) Butylbenzylphthalate	(5)	14.571	(0.000)	149	314732	1.122	36.78			0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.265	(0.001)	149	537142	1.286	42.15			0.18
41) Benzo(a)anthracene	(5)	15.257	(0.000)	228	559685	1.059	34.70			0.02
43) Chrysene	(5)	15.296	(0.000)	228	553574	0.954	31.29			0.01
44) Di-n-octylphthalate	(6)	16.024	(0.000)	149	788238	1.082	35.47			0.18
45) Benzo(b)fluoranthene	(6)	16.540	(0.000)	252	511697	0.987	32.36			0.02
46) Benzo(k)fluoranthene	(6)	16.571	(0.000)	252	501776	0.904	29.62			0.02
48) Benzo(a)pyrene	(6)	16.962	(0.000)	252	475188	0.974	31.94			0.02
51) Indeno(1,2,3-cd)pyrene	(6)	18.600	(0.000)	276	531178	1.023	33.53			0.02
52) Dibenz(a,h)anthracene	(6)	18.614	(0.000)	278	428923	1.035	33.92			0.02
53) Benzo(g,h,i)perylene	(6)	19.030	(0.000)	276	445987	0.978	32.06			0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USP93 6744

XXXXXMS

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339378

Data file: /chem/HP10623.i/11jul14a.b/cg0459.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 21:31 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.5 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

Comments:

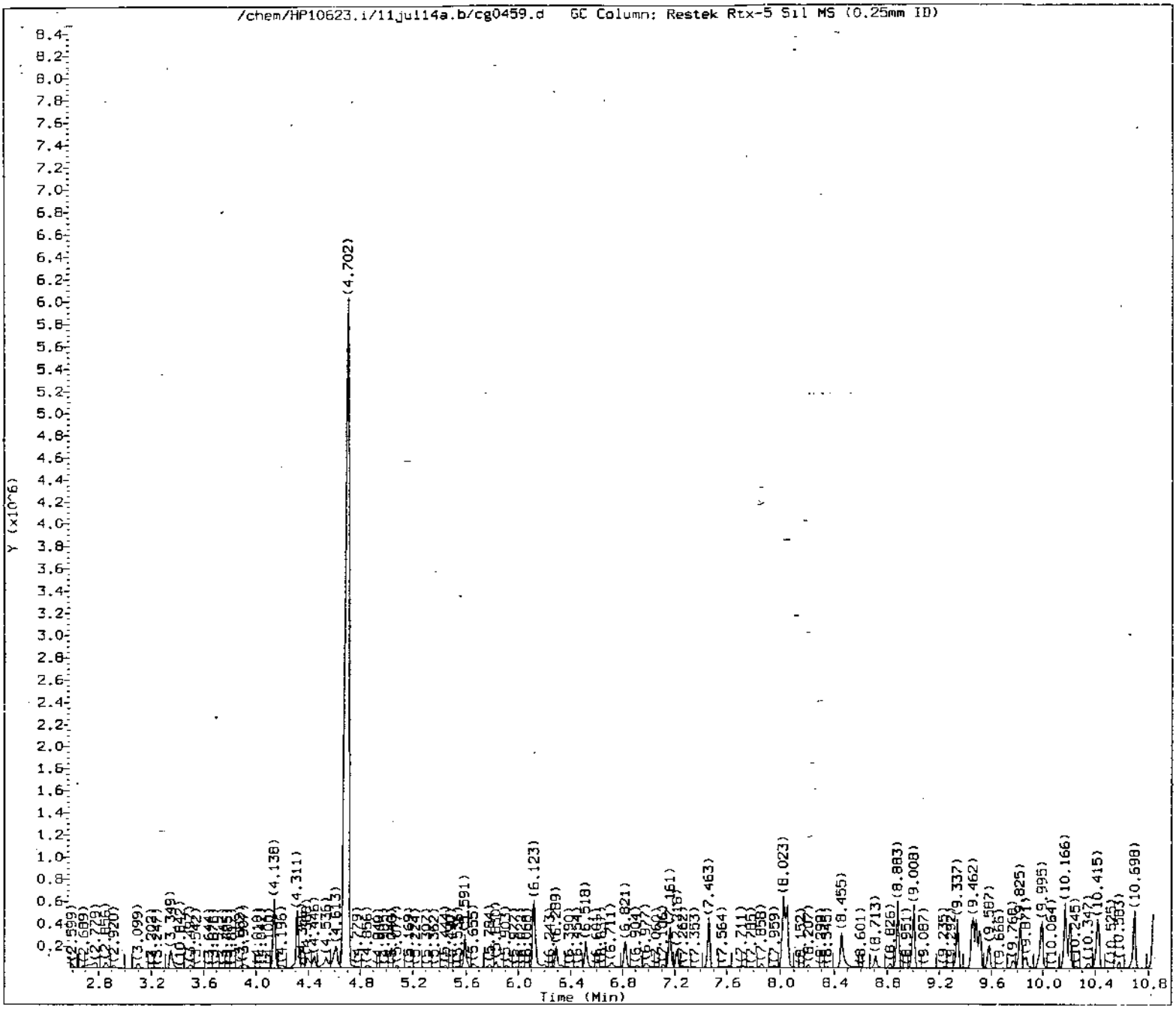
JUL 15 2011

Analyst: Joe Gambler Date:
Senior Chemist

Auditor: Date:
Mark A. Ratcliff
Senior Specialist

JUL 19 2011

USF83 8745



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0459.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 21:31 Analyst ID: gjd01970

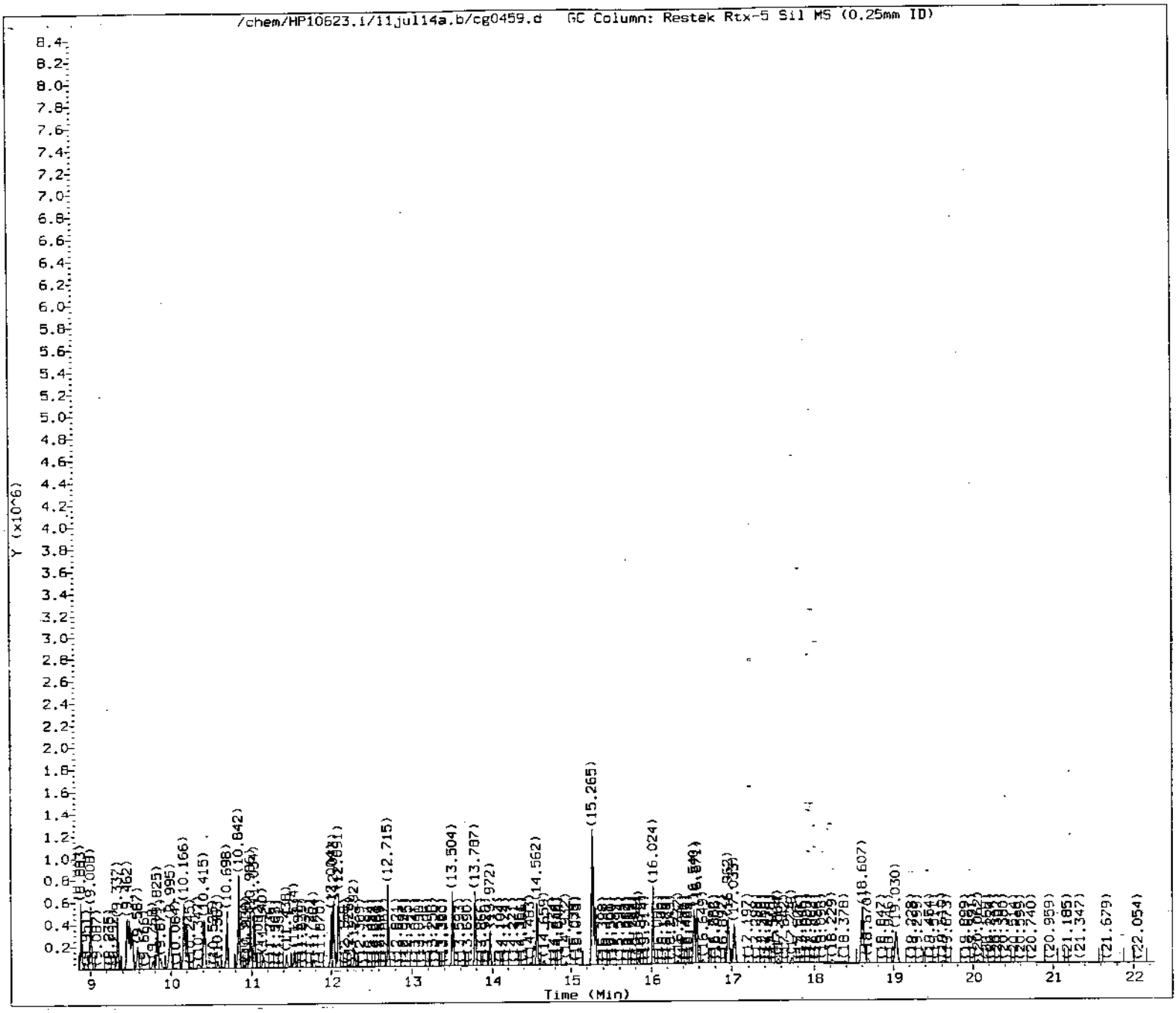
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Sample Name: XXXXXMS Lab Sample ID: 6339378

JUL 15 2011

Joe Gambler
Senior Chemist

USP83 0746



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0459.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 21:31 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Sample Name: XXXXXMS Lab Sample ID: 6339378

USF03 8747

JUL 15 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0459.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 21:31 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/m1lpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Sample Name: XXXXXMS Lab Sample ID: 6339378

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.518	152	158567	1.0000
12) Naphthalene-d8	(2)	8.023	136	641716	1.0000
13) Naphthalene	(2)	8.051	128	583477	0.8463
14) 2-Methylnaphthalene	(2)	8.883	142	378798	0.8716
16) 1-Methylnaphthalene	(2)	9.008	142	350362	0.8399
18) Acenaphthylene	(3)	9.995	152	537354	0.9807
19) Acenaphthene-d10	(3)	10.166	164	336931	1.0000
20) Dimethylphthalate	(3)	9.825	163	430919	1.0540
21) Acenaphthene	(3)	10.211	154	377372	0.9820
22) Diethylphthalate	(3)	10.698	149	458384	1.0867
23) Fluorene	(3)	10.842	166	420622	1.0109
30) Phenanthrene-d10	(4)	12.004	188	529670	1.0000
31) Phenanthrene	(4)	12.033	178	584419	0.9390
32) Anthracene	(4)	12.091	178	590213	1.0075
33) Di-n-butylphthalate	(4)	12.715	149	694793	1.0832
35) Fluoranthene	(4)	13.504	202	637519	1.0294
37) Pyrene	(5)	13.787	202	659601	0.9855
39) Butylbenzylphthalate	(5)	14.571	149	314732	1.1218
40) bis(2-Ethylhexyl)phthalate	(5)	15.265	149	537142	1.2855
41) Benzo(a)anthracene	(5)	15.257	228	559685	1.0582
42) Chrysene-d12	(5)	15.273	240	427476	1.0000
43) Chrysene	(5)	15.296	228	553574	0.9544
44) Di-n-octylphthalate	(6)	16.024	149	788238	1.0818
45) Benzo(b)fluoranthene	(6)	16.540	252	511697	0.9870
46) Benzo(k)fluoranthene	(6)	16.571	252	501776	0.9035
48) Benzo(a)pyrene	(6)	16.962	252	475188	0.9743
49) Perylene-d12	(6)	17.033	264	398021	1.0000
51) Indeno(1,2,3-cd)pyrene	(6)	18.600	276	531178	1.0225
52) Dibenz(a,h)anthracene	(6)	18.614	278	428923	1.0346
53) Benzo(g,h,i)perylene	(6)	19.030	276	445987	0.9779
10) Nitrobenzene-d5	(2)	7.161	82	235572	1.0303
17) 2-Fluorobiphenyl	(3)	9.337	172	380994	0.9256
38) Terphenyl-d14	(5)	13.972	244	267914	0.9014

M = Compound was manually integrated. A = User selected an alternate hit

USF03 #740

XXXXXMSD

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339379

Data file: /chem/HP10623.i/11jul14a.b/cg0460.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 22:02 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.518(0.000)	543	152.0	157488(3)	1.00	
12) Naphthalene-d8	8.024(0.000)	707	136.0	637451(5)	1.00	
19) Acenaphthene-d10	10.166(0.000)	908	164.0	338994(5)	1.00	
30) Phenanthrene-d10	12.005(0.000)	1094	188.0	522030(4)	1.00	
42) Chrysene-d12	15.273(0.000)	1456	240.0	431960(7)	1.00	
49) Perylene-d12	17.033(0.000)	1681	264.0	403324(20)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.161(0.000)	82	245172	1.079	108%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.337(0.000)	172	388269	0.938	94%		63 - 129
38) Terphenyl-d14	(5)	13.972(0.000)	244	269737	0.898	90%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)	8.051(0.000)	128	580942	0.848	28.00			0.02
14) 2-Methylnaphthalene	(2)	8.883(0.000)	142	381138	0.883	29.14			0.02
16) 1-Methylnaphthalene	(2)	9.008(0.000)	142	355467	0.858	28.31			0.02
18) Acenaphthylene	(3)	9.996(0.000)	152	545176	0.989	32.64			0.01
20) Dimethylphthalate	(3)	9.825(0.000)	163	438970	1.067	35.22			0.18
21) Acenaphthene	(3)	10.211(0.000)	154	381236	0.986	32.54			0.02
22) Diethylphthalate	(3)	10.699(0.000)	149	459068	1.082	35.70			0.18
23) Fluorene	(3)	10.843(0.000)	166	427838	1.022	33.73			0.02
31) Phenanthrene	(4)	12.033(0.000)	178	602214	0.982	32.40			0.02
32) Anthracene	(4)	12.091(0.000)	178	593565	1.028	33.93			0.01
33) Di-n-butylphthalate	(4)	12.715(0.000)	149	707691	1.113	36.74			0.18
35) Fluoranthene	(4)	13.505(0.000)	202	656614	1.076	35.50			0.02
37) Pyrene	(5)	13.787(0.000)	202	675267	0.998	32.95			0.02
39) Butylbenzylphthalate	(5)	14.571(0.000)	149	320508	1.130	37.28			0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.265(0.001)	149	537189	1.274	42.04			0.18
41) Benzo(a)anthracene	(5)	15.258(0.000)	228	572718	1.072	35.37			0.02
43) Chrysene	(5)	15.297(0.000)	228	566065	0.966	31.88			0.01
44) Di-n-octylphthalate	(6)	16.024(0.000)	149	809440	1.094	36.11			0.18
45) Benzo(b)fluoranthene	(6)	16.540(0.000)	252	528636	1.006	33.21			0.02
46) Benzo(k)fluoranthene	(6)	16.571(0.000)	252	513545	0.913	30.12			0.02
48) Benzo(a)pyrene	(6)	16.962(0.000)	252	490378	0.992	32.75			0.02
51) Indeno(1,2,3-cd)pyrene	(6)	18.600(0.000)	276	542127	1.030	33.99			0.02
52) Dibenz(a,h)anthracene	(6)	18.614(0.000)	278	439302	1.046	34.51			0.02
53) Benzo(g,h,i)perylene	(6)	19.031(0.000)	276	447471	0.968	31.96			0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF93 8749

XXXXXMSD

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339379

Data file: /chem/HP10623.i/11jul14a.b/cg0460.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 22:02 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

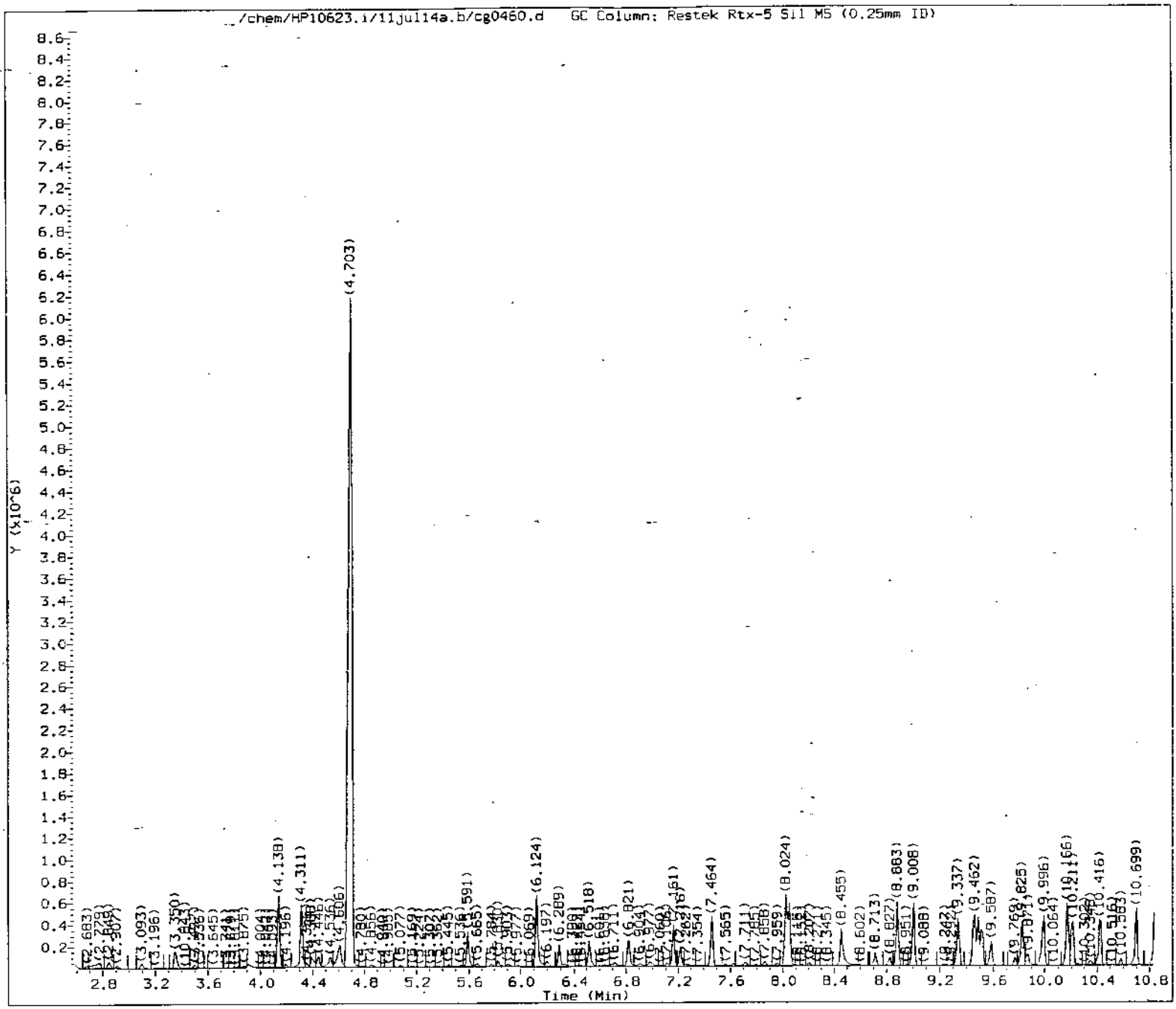
Comments:

JUL 15 2011

Analyst: Joe Gambler Senior Chemist Date:
Auditor: Mark A. Ratcliff Senior Specialist Date:

JUL 19 2011

USP83 8758



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0460.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 22:02 Analyst ID: gjd01970

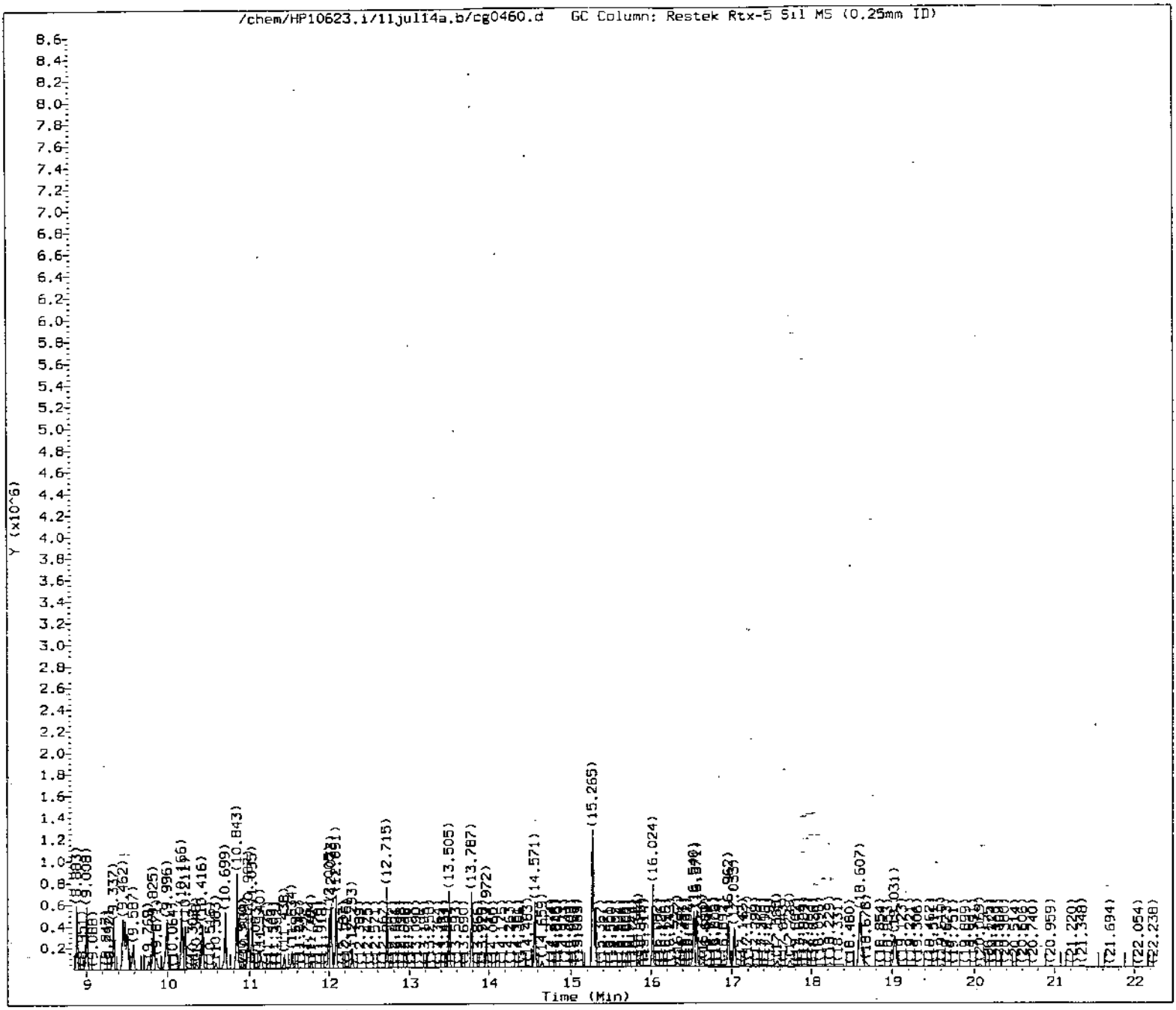
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Sample Name: XXXXXMSD Lab Sample ID: 6339379

JUL 15 2011

Joe Gambler
Senior Chemist

USF83 0751



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0460.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 22:02 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Sample Name: XXXXXMSD Lab Sample ID: 6339379

JUL 15 2011

Joe Gambler
Senior Chemist

USF03 6752

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0460.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 22:02 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/m1lpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:38 jmg00346

Sample Name: XXXXXMSD Lab Sample ID: 6339379

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.518	152	157488	1.0000
12) Naphthalene-d8	(2)	8.024	136	637451	1.0000
13) Naphthalene	(2)	8.051	128	580942	0.8483
14) 2-Methylnaphthalene	(2)	8.883	142	381138	0.8828
16) 1-Methylnaphthalene	(2)	9.008	142	355467	0.8578
18) Acenaphthylene	(3)	9.996	152	545176	0.9890
19) Acenaphthene-d10	(3)	10.166	164	338994	1.0000
20) Dimethylphthalate	(3)	9.825	163	438970	1.0671
21) Acenaphthene	(3)	10.211	154	381236	0.9860
22) Diethylphthalate	(3)	10.699	149	459068	1.0817
23) Fluorene	(3)	10.843	166	427838	1.0219
30) Phenanthrene-d10	(4)	12.005	188	522030	1.0000
31) Phenanthrene	(4)	12.033	178	602214	0.9817
32) Anthracene	(4)	12.091	178	593565	1.0280
33) Di-n-butylphthalate	(4)	12.715	149	707691	1.1131
35) Fluoranthene	(4)	13.505	202	656614	1.0757
37) Pyrene	(5)	13.787	202	675267	0.9984
39) Butylbenzylphthalate	(5)	14.571	149	320508	1.1296
40) bis(2-Ethylhexyl)phthalate	(5)	15.265	149	537189	1.2737
41) Benzo(a)anthracene	(5)	15.258	228	572718	1.0716
42) Chrysene-d12	(5)	15.273	240	431960	1.0000
43) Chrysene	(5)	15.297	228	566065	0.9658
44) Di-n-octylphthalate	(6)	16.024	149	809440	1.0940
45) Benzo(b)fluoranthene	(6)	16.540	252	528636	1.0063
46) Benzo(k)fluoranthene	(6)	16.571	252	513545	0.9125
48) Benzo(a)pyrene	(6)	16.962	252	490378	0.9922
49) Perylene-d12	(6)	17.033	264	403324	1.0000
51) Indeno(1,2,3-cd)pyrene	(6)	18.600	276	542127	1.0299
52) Dibenz(a,h)anthracene	(6)	18.614	278	439302	1.0457
53) Benzo(g,h,i)perylene	(6)	19.031	276	447471	0.9683
10) Nitrobenzene-d5	(2)	7.161	82	245172	1.0794
17) 2-Fluorobiphenyl	(3)	9.337	172	388269	0.9376
38) Terphenyl-d14	(5)	13.972	244	269737	0.8981

M = Compound was manually integrated. A = User selected an alternate hit

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

6339384

Data file: /chem/HP10623.i/11jul14a.b/cg0457.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 20:27 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.519	(0.000)	543	152.0	154412	(1)	1.00	
12) Naphthalene-d8	8.024	(0.000)	707	136.0	614759	(1)	1.00	
19) Acenaphthene-d10	10.166	(0.000)	908	164.0	325016	(1)	1.00	
30) Phenanthrene-d10	12.005	(0.000)	1094	188.0	508183	(1)	1.00	
42) Chrysene-d12	15.266	(0.008)	1455	240.0	387384	(-4)	1.00	
49) Perylene-d12	17.033	(0.000)	1681	264.0	314437	(-6)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.161	(0.000)	82	234802	1.072	107%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.338	(0.000)	172	378516	0.953	95%		63 - 129
38) Terphenyl-d14	(5)	13.972	(0.000)	244	281396	1.045	104%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)	8.051	(0.000)	128	63932	0.097	3.23			0.02
14) 2-Methylnaphthalene	(2)	8.884	(0.000)	142	20383	0.049	1.63			0.02
16) 1-Methylnaphthalene	(2)	9.008	(0.000)	142	18531	0.046	1.55			0.02
18) Acenaphthylene	(3)	9.996	(0.000)	152	23644	0.045	1.49			0.01
20) Dimethylphthalate	(3)				Below MDL, Do not report					0.18
21) Acenaphthene	(3)	10.200	(0.001)	154	18837	0.051	1.69			0.02
22) Diethylphthalate	(3)				Below MDL, Do not report					0.18
23) Fluorene	(3)	10.843	(0.000)	166	20170	0.050	1.68			0.02
31) Phenanthrene	(4)	12.024	(0.001)	178	32633	0.055	1.82			0.02
32) Anthracene	(4)	12.091	(0.000)	178	24390	0.043	1.45			0.01
33) Di-n-butylphthalate	(4)	12.716	(0.000)	149	65977	0.280	9.33			0.18
35) Fluoranthene	(4)	13.505	(0.000)	202	31064	0.052	1.74			0.02
37) Pyrene	(5)	13.787	(0.000)	202	32080	0.053	1.76			0.02
39) Butylbenzylphthalate	(5)				Below MDL, Do not report					0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.266	(0.000)	149	40116	0.233	7.76			0.18
41) Benzo(a)anthracene	(5)	15.258	(-0.001)	228	25944	0.054	1.80			0.02
43) Chrysene	(5)	15.297	(0.000)	228	27145	0.052	1.72			0.01
44) Di-n-octylphthalate	(6)	16.016	(0.000)	149	30835	0.218	7.27			0.18
45) Benzo(b)fluoranthene	(6)	16.540	(0.000)	252	23274	0.057	1.89			0.02
46) Benzo(k)fluoranthene	(6)	16.572	(0.000)	252	22127	0.050	1.68			0.02
48) Benzo(a)pyrene	(6)	16.955	(0.000)	252	17700	0.046	1.53			0.02
51) Indeno(1,2,3-cd)pyrene	(6)	18.600	(0.000)	276	24290	0.059	1.97			0.02
52) Dibenz(a,h)anthracene	(6)	18.614	(0.000)	278	19425	0.059	1.98			0.02
53) Benzo(g,h,i)perylene	(6)	19.024	(0.000)	276	19253	0.053	1.78			0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF83 8454

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

6339384

Data file: /chem/HP10623.i/11jul14a.b/cg0457.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 20:27 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

Comments:

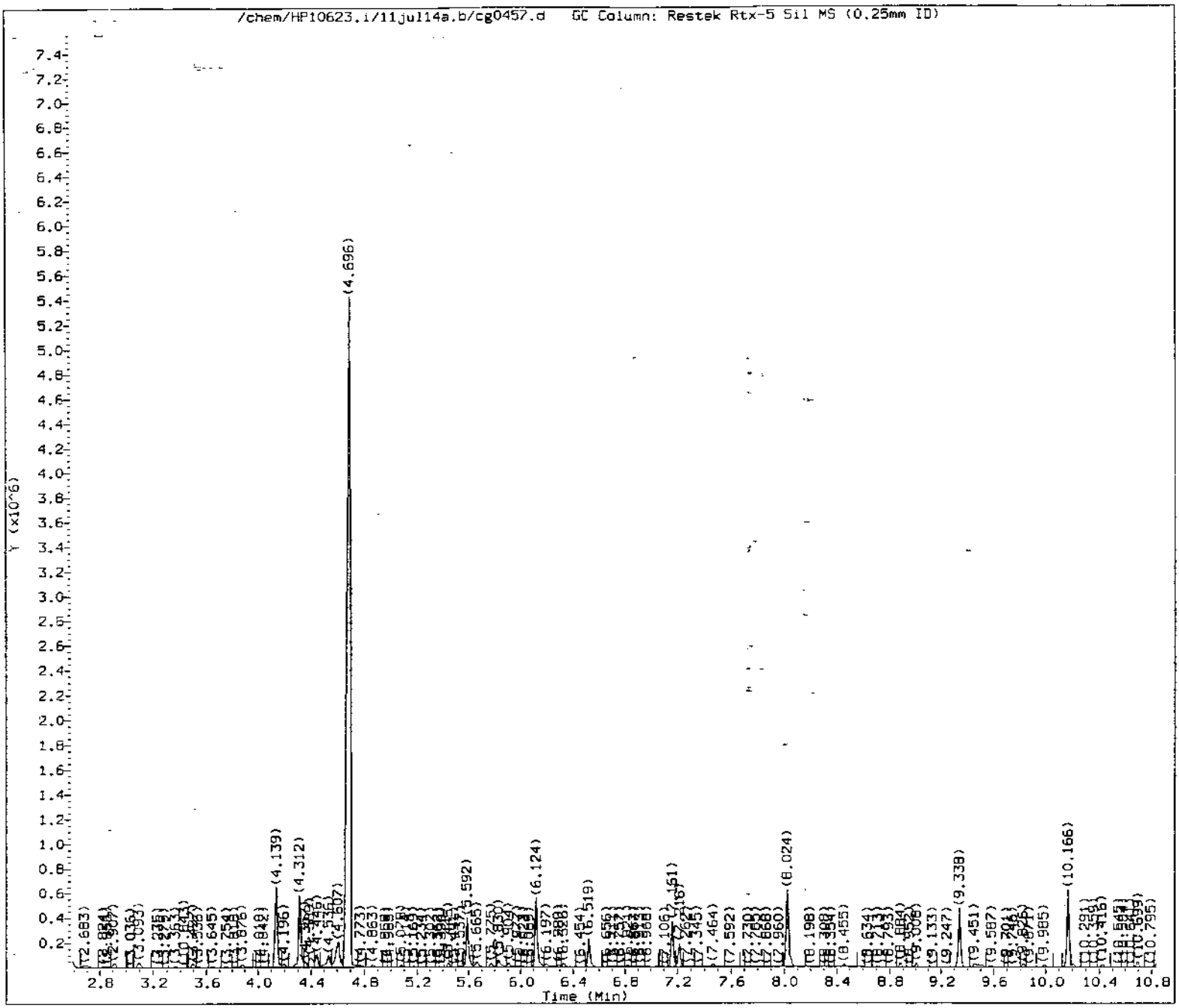
JUL 15 2011

Analyst: Joe Gambler Date:
Senior Chemist

Auditor: Date:
Mark A. Ratcliff
Senior Specialist

JUL 29 2011

USF03 8755



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0457.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 20:27 Analyst ID: gjd01970

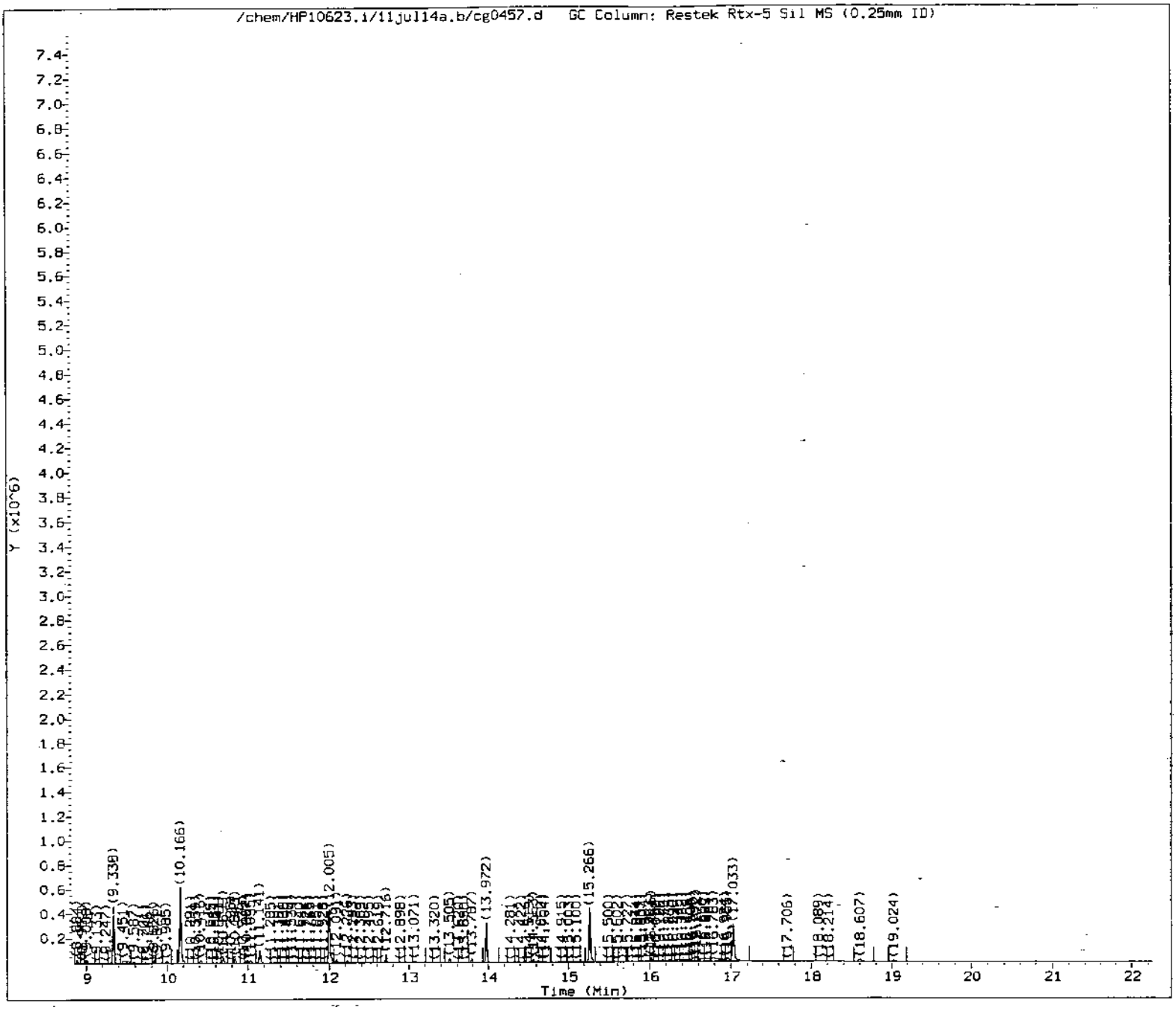
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339384

USPS® 8756

JUL 15 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0457.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 20:27 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339384

USF03 0757

JUL 15 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0457.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 20:27 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

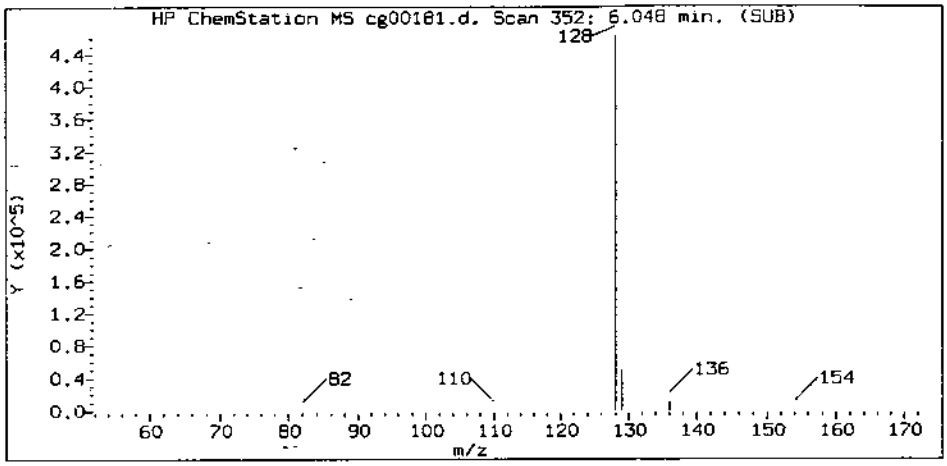
Sample Name: XXXXX Lab Sample ID: 6339384

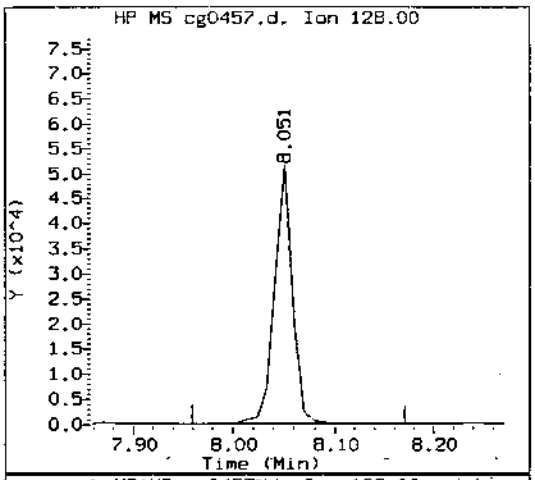
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.519	152	154412	1.0000
12) Naphthalene-d8	(2)	8.024	136	614759	1.0000
13) Naphthalene	(2)	8.051	128	63932	0.0968
14) 2-Methylnaphthalene	(2)	8.884	142	20383	0.0490
16) 1-Methylnaphthalene	(2)	9.008	142	18531	0.0464
18) Acenaphthylene	(3)	9.996	152	23644	0.0447
19) Acenaphthene-d10	(3)	10.166	164	325016	1.0000
21) Acenaphthene	(3)	10.200	154	18837	0.0508
23) Fluorene	(3)	10.843	166	20170	0.0503
30) Phenanthrene-d10	(4)	12.005	188	508183	1.0000
31) Phenanthrene	(4)	12.024	178	32633	0.0546
32) Anthracene	(4)	12.091	178	24390	0.0434
33) Di-n-butylphthalate	(4)	12.716	149	65977	0.2798
35) Fluoranthene	(4)	13.505	202	31064	0.0523
37) Pyrene	(5)	13.787	202	32080	0.0529
40) bis(2-Ethylhexyl)phthalate	(5)	15.266	149	40116	0.2327
41) Benzo(a)anthracene	(5)	15.258	228	25944	0.0541
42) Chrysene-d12	(5)	15.266	240	387384	1.0000
43) Chrysene	(5)	15.297	228	27145	0.0516
44) Di-n-octylphthalate	(6)	16.016	149	30835	0.2180
45) Benzo(b)fluoranthene	(6)	16.540	252	23274	0.0568
46) Benzo(k)fluoranthene	(6)	16.572	252	22127	0.0504
48) Benzo(a)pyrene	(6)	16.955	252	17700	0.0459
49) Perylene-d12	(6)	17.033	264	314437	1.0000
51) Indeno(1,2,3-cd)pyrene	(6)	18.600	276	24290	0.0592
52) Dibenz(a,h)anthracene	(6)	18.614	278	19425	0.0593
53) Benzo(g,h,i)perylene	(6)	19.024	276	19253	0.0534
10) Nitrobenzene-d5	(2)	7.161	82	234802	1.0719
17) 2-Fluorobiphenyl	(3)	9.338	172	378516	0.9533
38) Terphenyl-d14	(5)	13.972	244	281396	1.0447

M = Compound was manually integrated. A = User selected an alternate hit

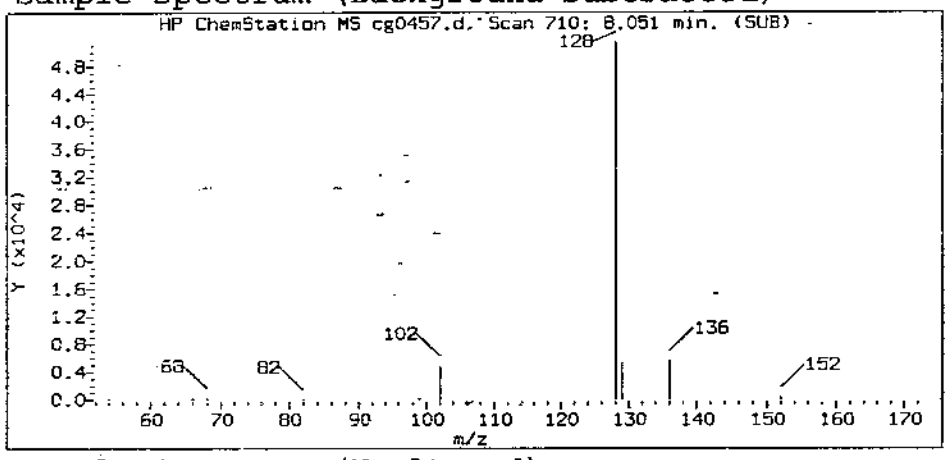
USF03 8750

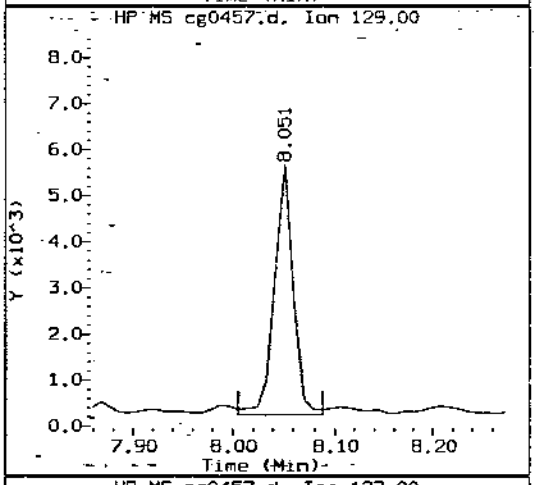
Reference Standard Spectrum for Naphthalene



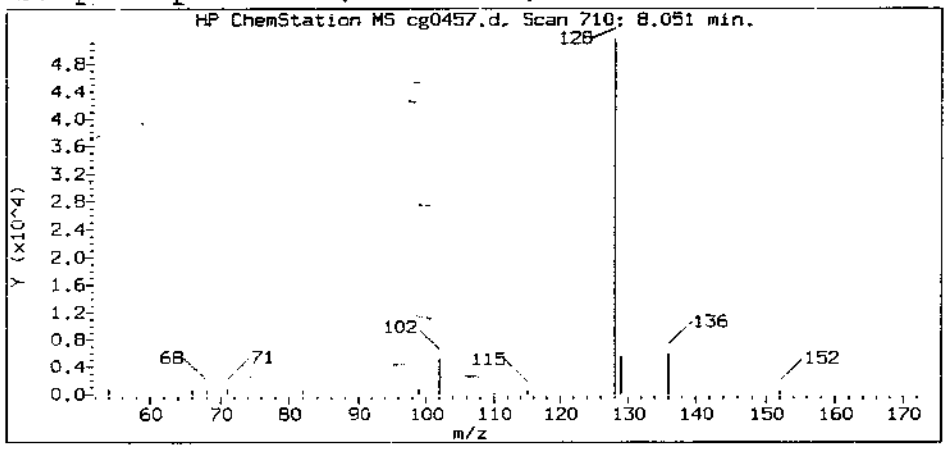


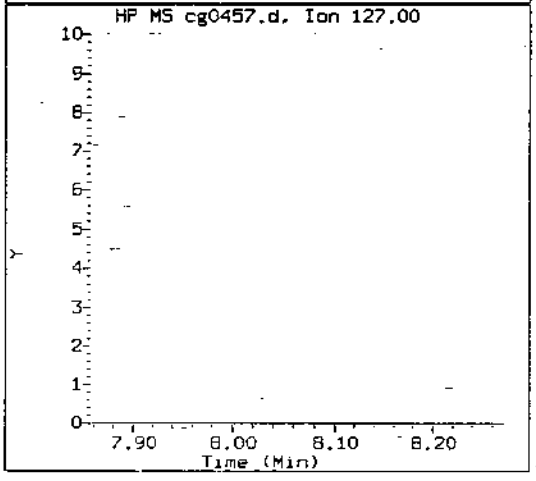
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

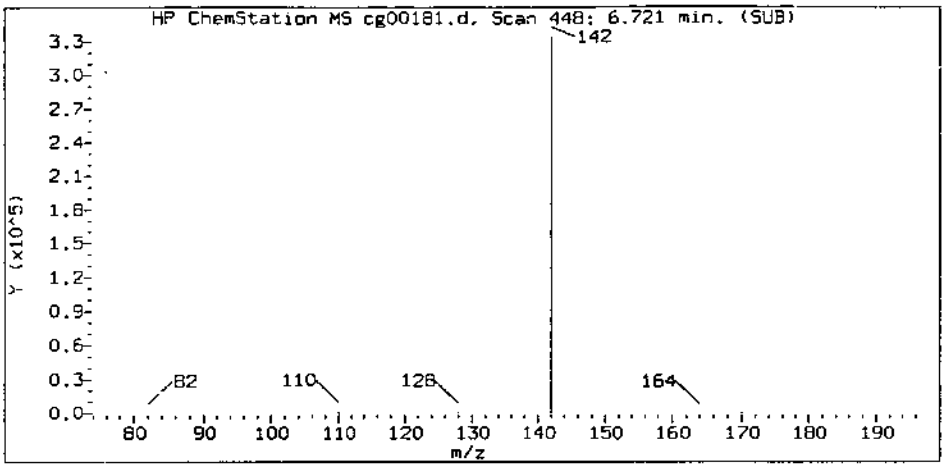
Sample Name: XXXXX

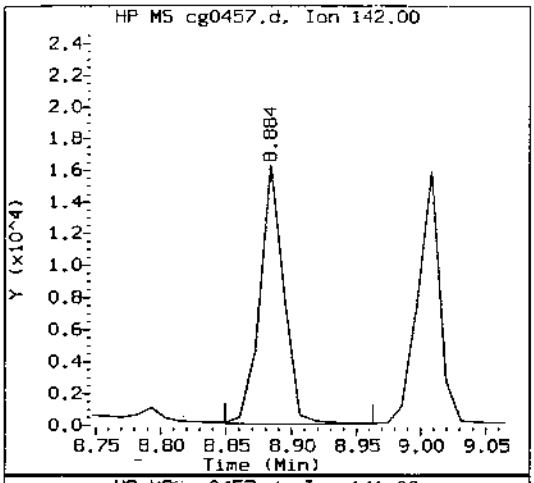
Lab Sample ID: 6339384

Compound Number	: 13
Compound Name	: Naphthalene
Scan Number	: 710
Retention Time (minutes)	: 8.051
Quant Ion	: 128.0
Area (flag)	: 63932
Concentration (ng/ul)	: 0.0968

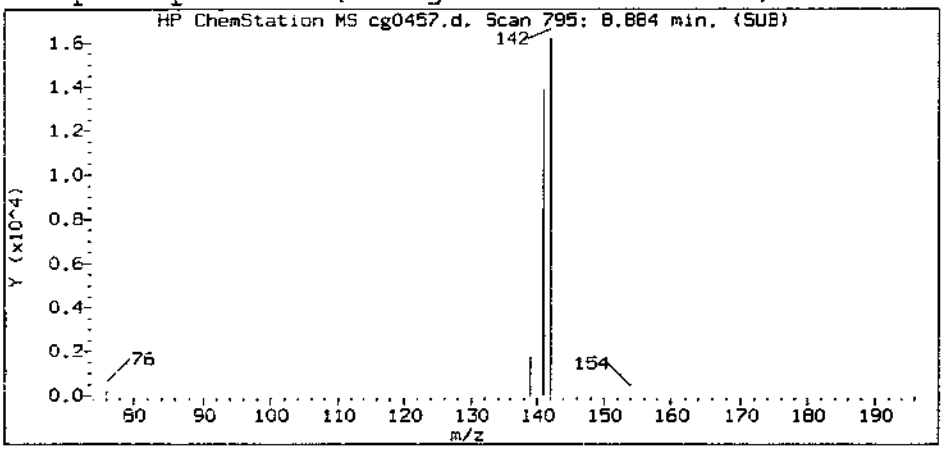
USP83 6759

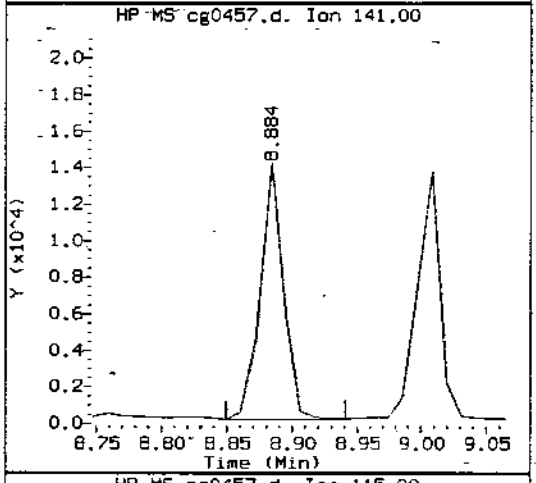
Reference Standard Spectrum for 2-Methylnaphthalene



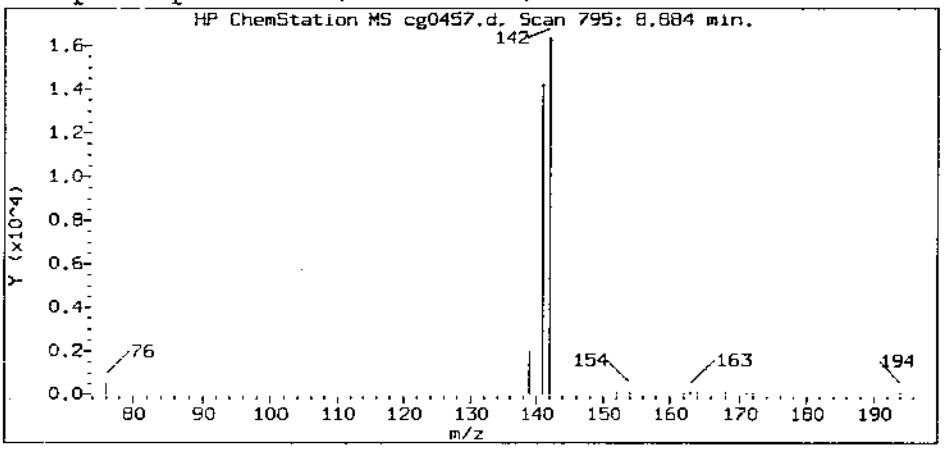


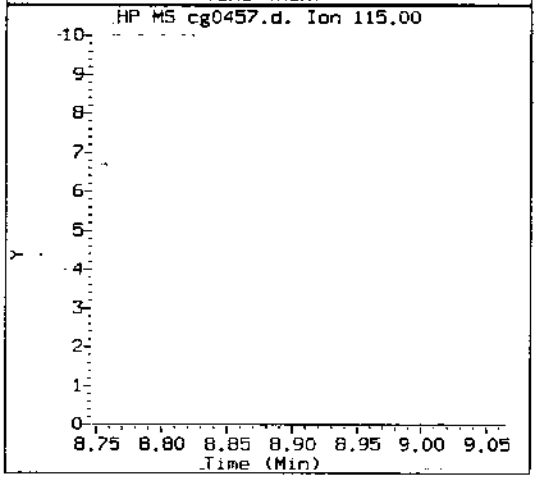
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

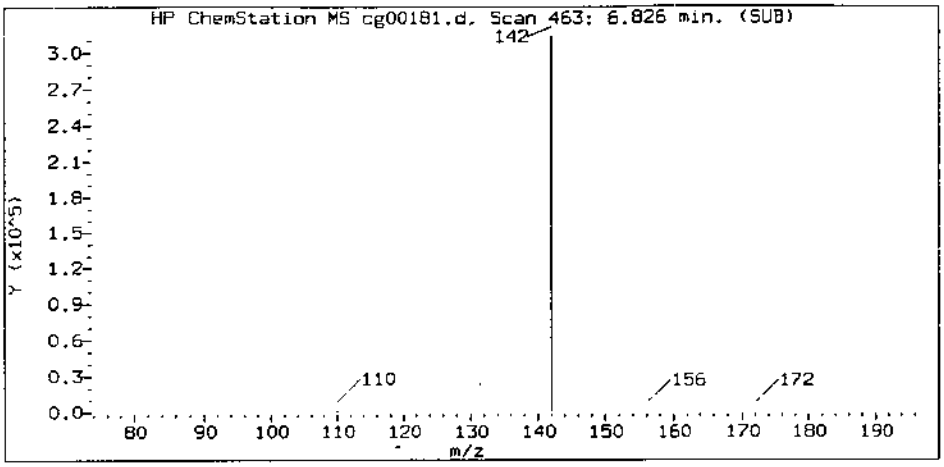
Sample Name: XXXXX

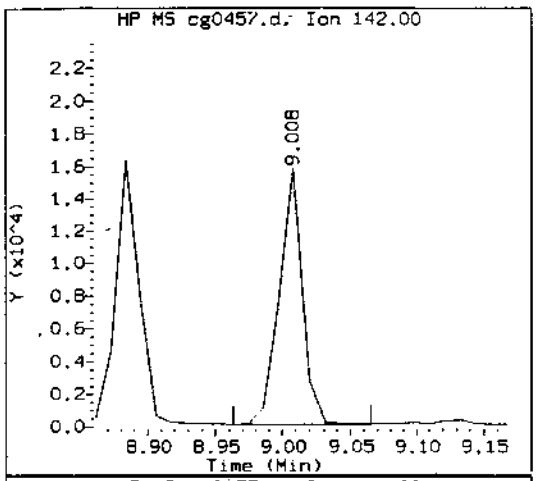
Lab Sample ID: 6339384

Compound Number	: 14
Compound Name	: 2-Methylnaphthalene
Scan Number	: 795
Retention Time (minutes)	: 8.884
Quant Ion	: 142.0
Area (flag)	: 20383
Concentration (ng/ul)	: 0.0490

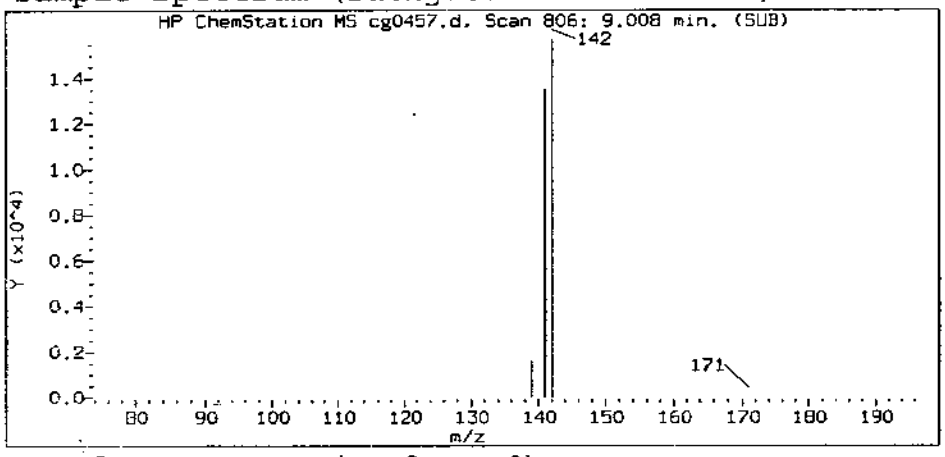
USP83 8760

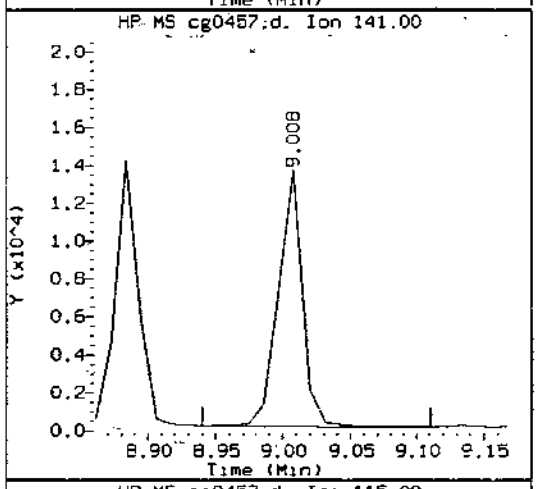
Reference Standard Spectrum for 1-Methylnaphthalene



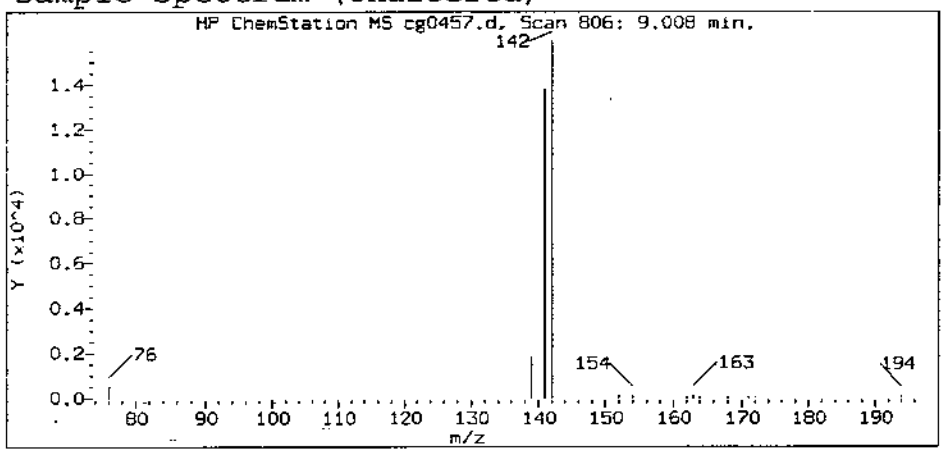


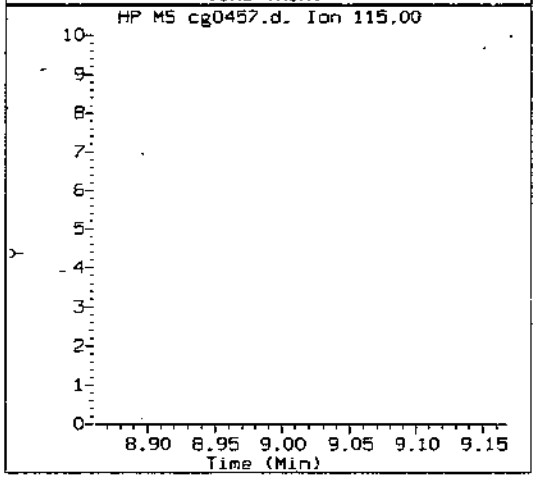
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

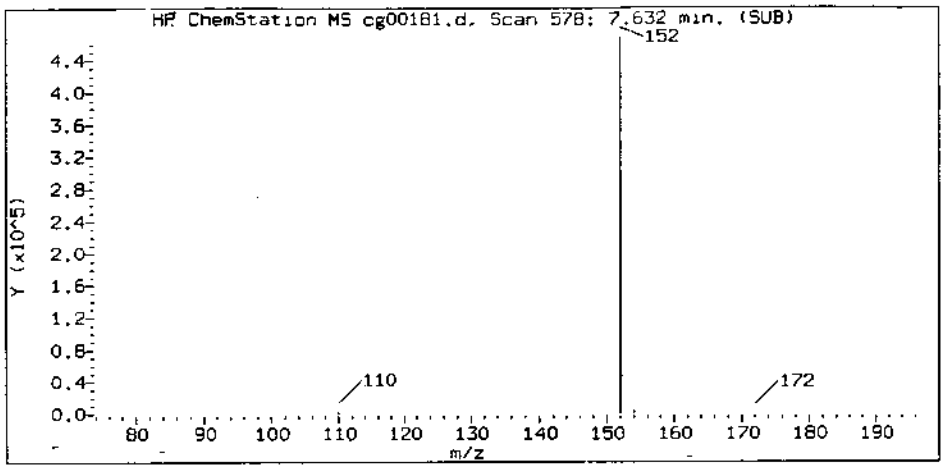
Sample Name: XXXXX

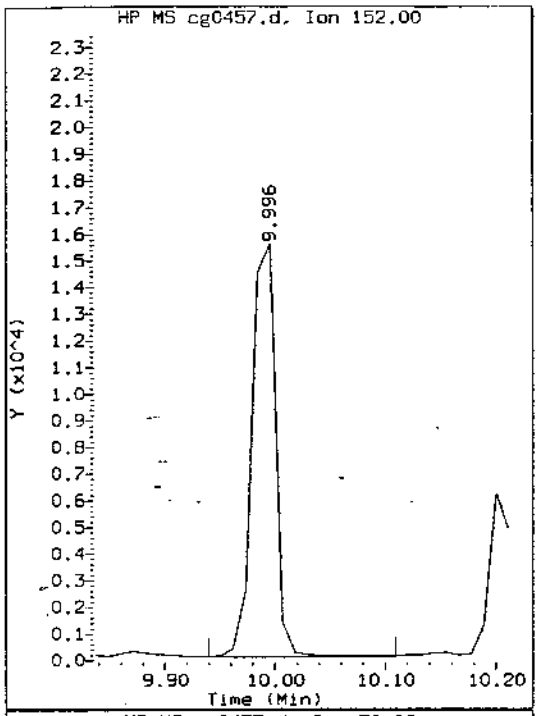
Lab Sample ID: 6339384

Compound Number	: 16
Compound Name	: 1-Methylnaphthalene
Scan Number	: 806
Retention Time (minutes)	: 9.008
Quant Ion	: 142.0
Area (flag)	: 18531
Concentration (ng/ul)	: 0.0464

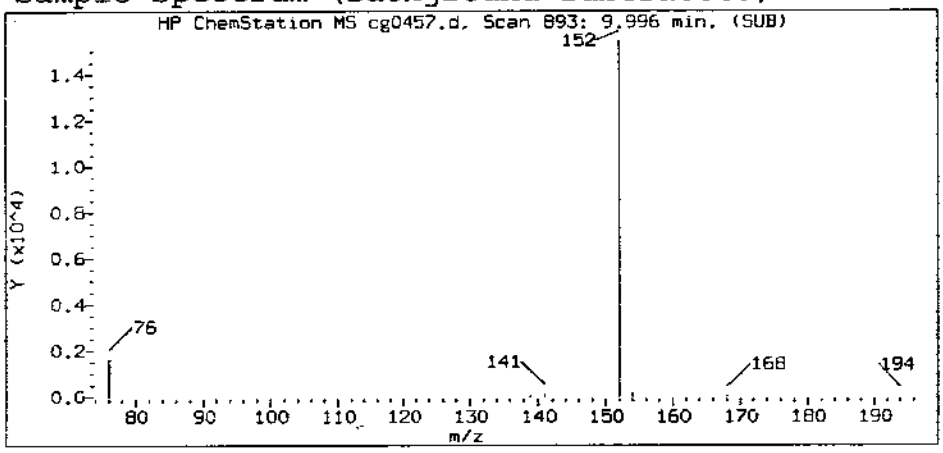
USPS3 8761

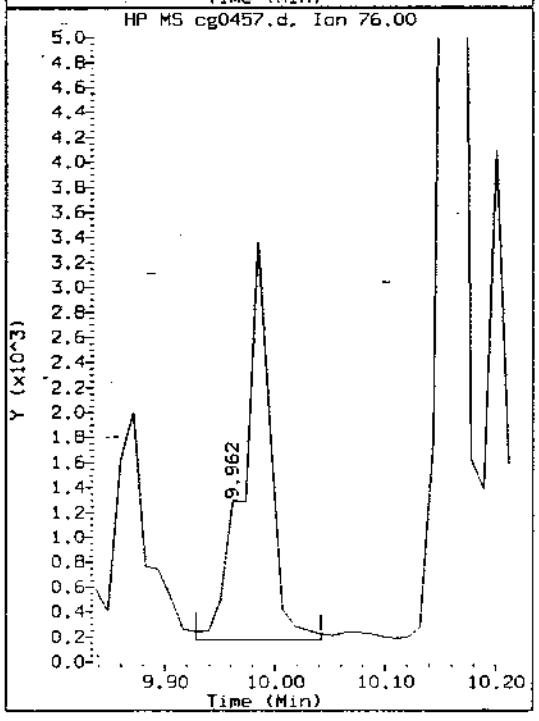
Reference Standard Spectrum for Acenaphthylene



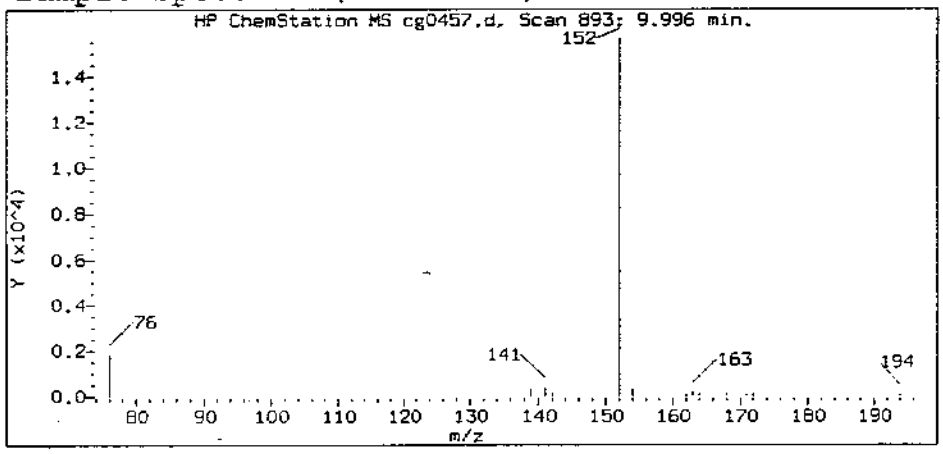


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

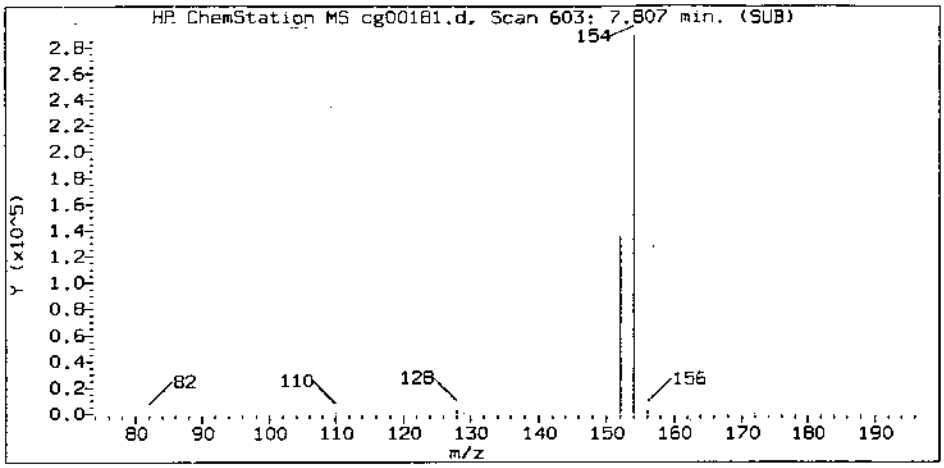
Sample Name: XXXXX

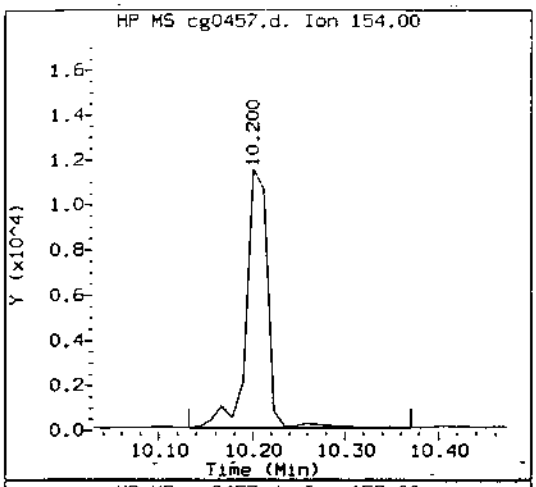
Lab Sample ID: 6339384

Compound Number	: 18
Compound Name	: Acenaphthylene
Scan Number	: 893
Retention Time (minutes)	: 9.996
Quant Ion	: 152.0
Area (flag)	: 23644
Concentration (ng/ul)	: 0.0447

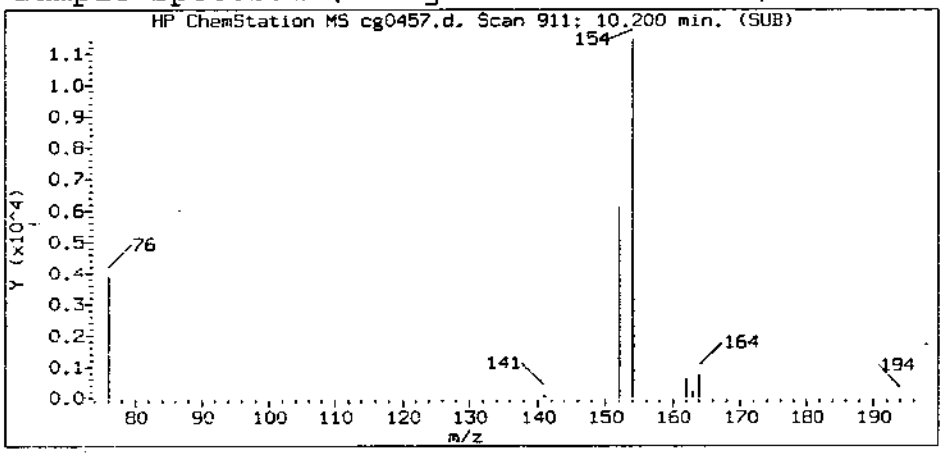
USF03 8762

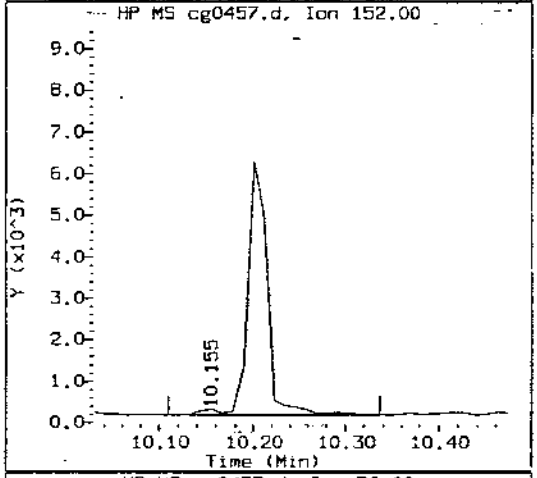
Reference Standard Spectrum for Acenaphthene



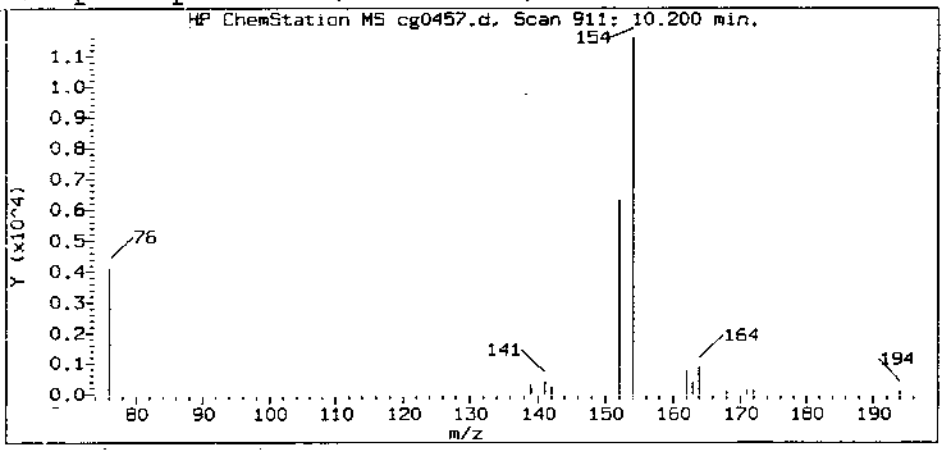


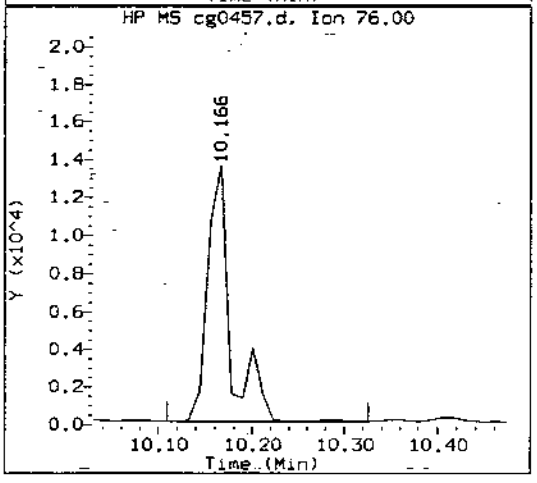
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

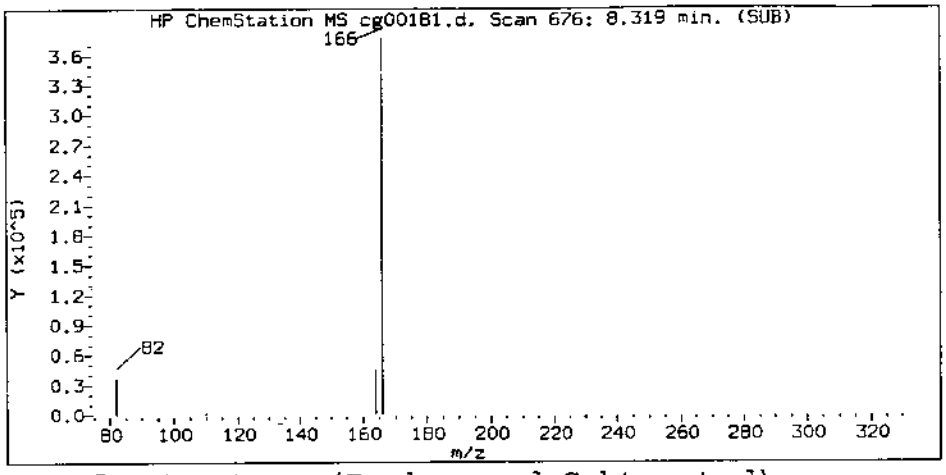
Sample Name: XXXXX

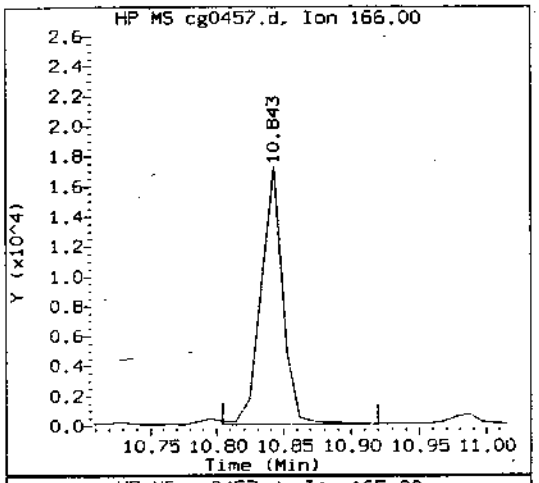
Lab Sample ID: 6339384

Compound Number	: 21
Compound Name	: Acenaphthene
Scan Number	: 911
Retention Time (minutes)	: 10.200
Quant Ion	: 154.0
Area (flag)	: 18837
Concentration (ng/ul)	: 0.0508

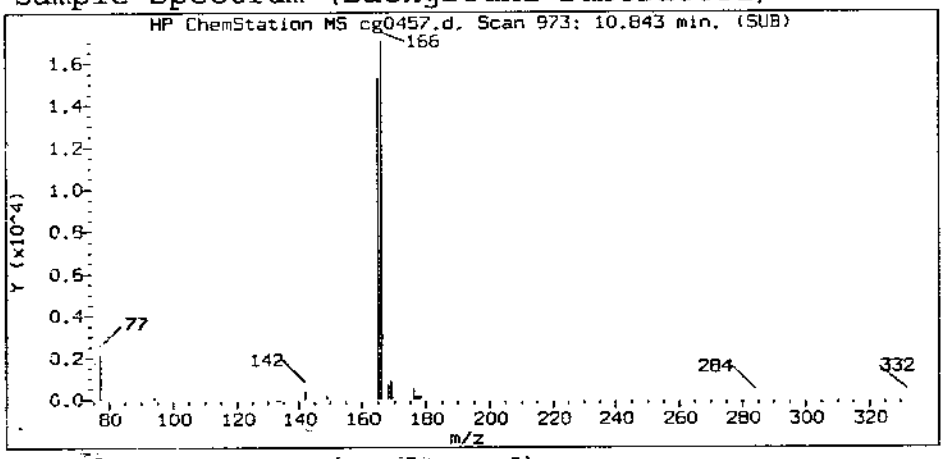
USF03 0763

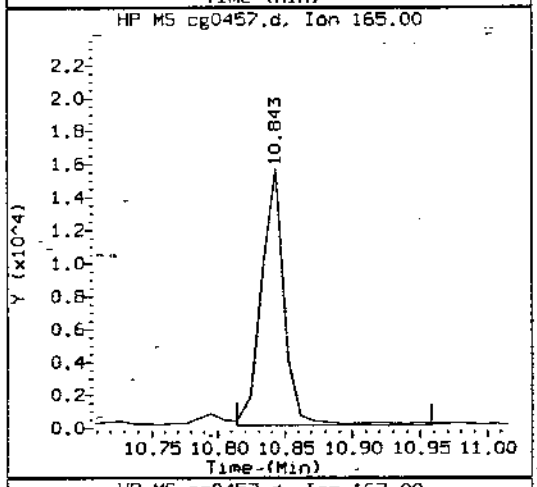
Reference Standard Spectrum for Fluorene



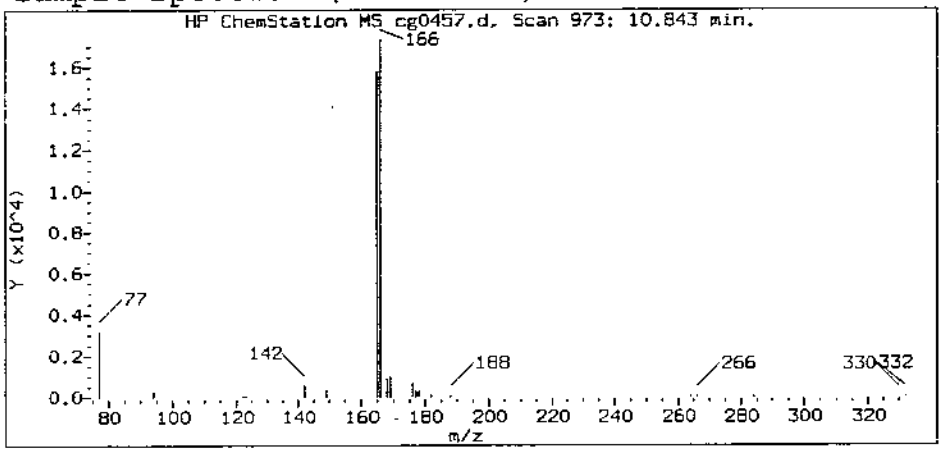


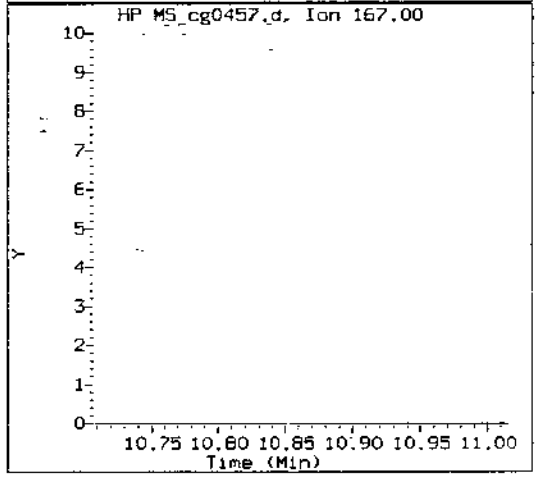
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
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Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

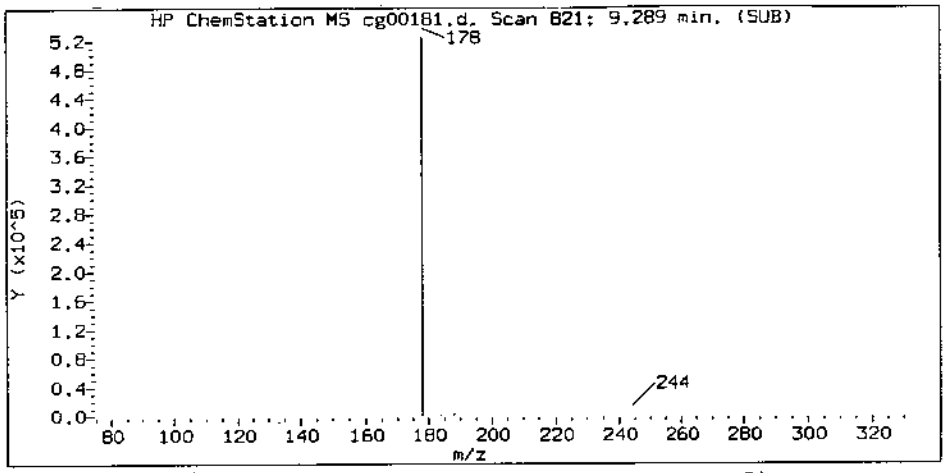
Sample Name: XXXXX

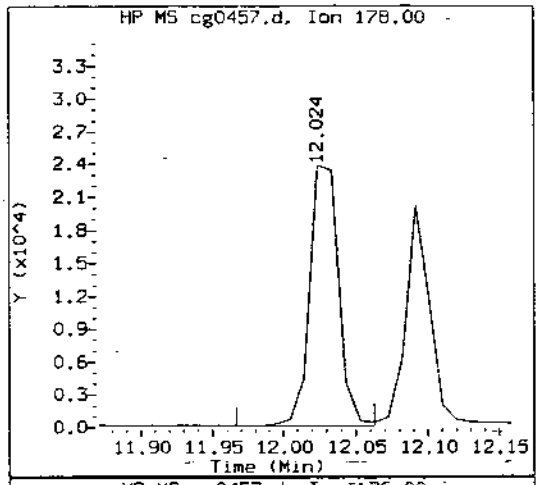
Lab Sample ID: 6339384

Compound Number	: 23
Compound Name	: Fluorene
Scan Number	: 973
Retention Time (minutes)	: 10.843
Quant Ion	: 166.0
Area (flag)	: 20170
Concentration (ng/ul)	: 0.0503

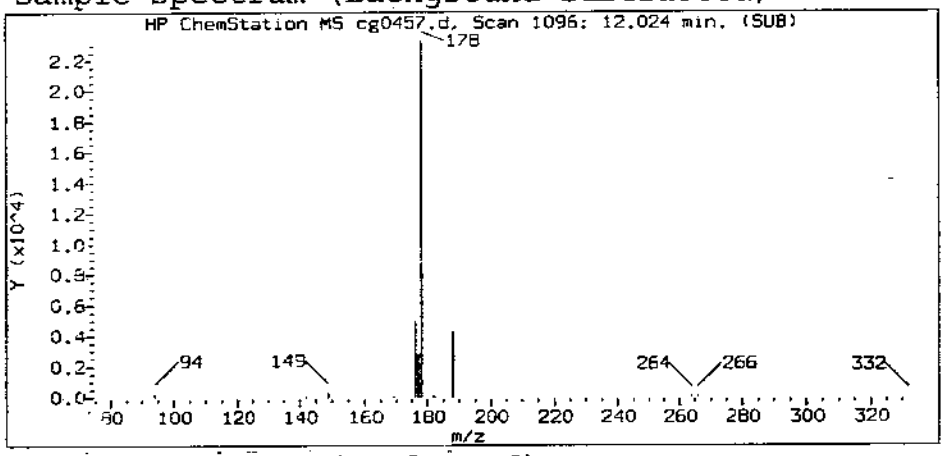
USFW8 8864

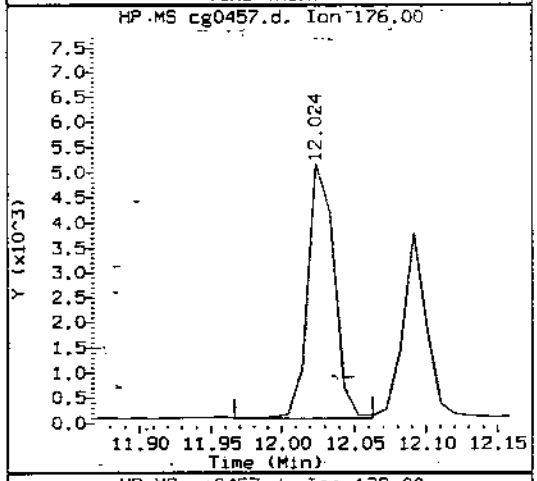
Reference Standard Spectrum for Phenanthrene



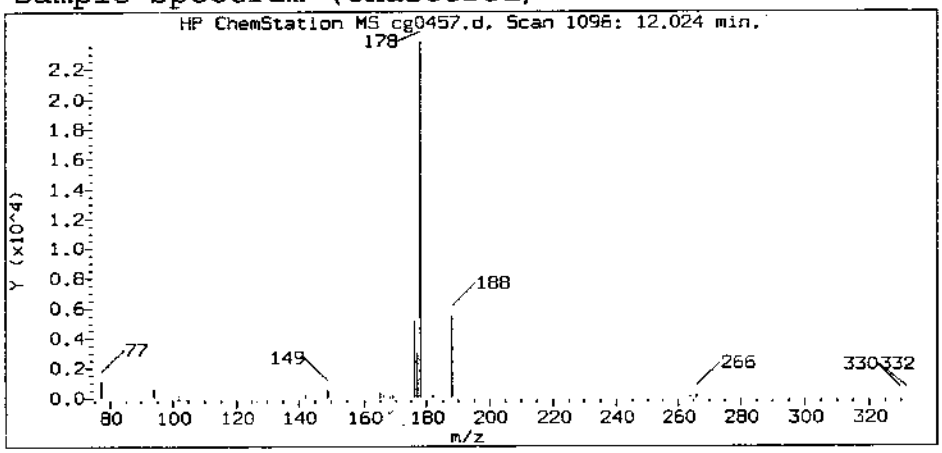


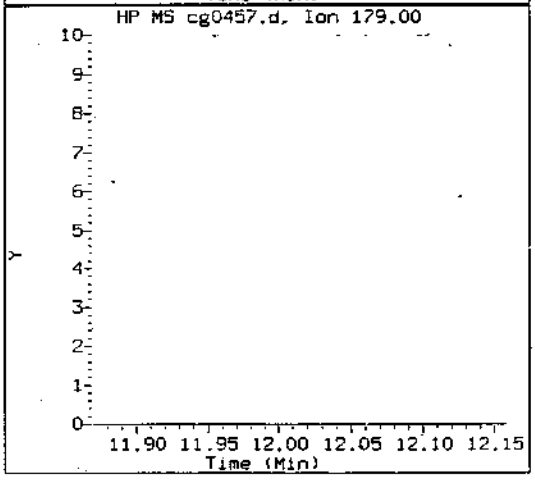
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

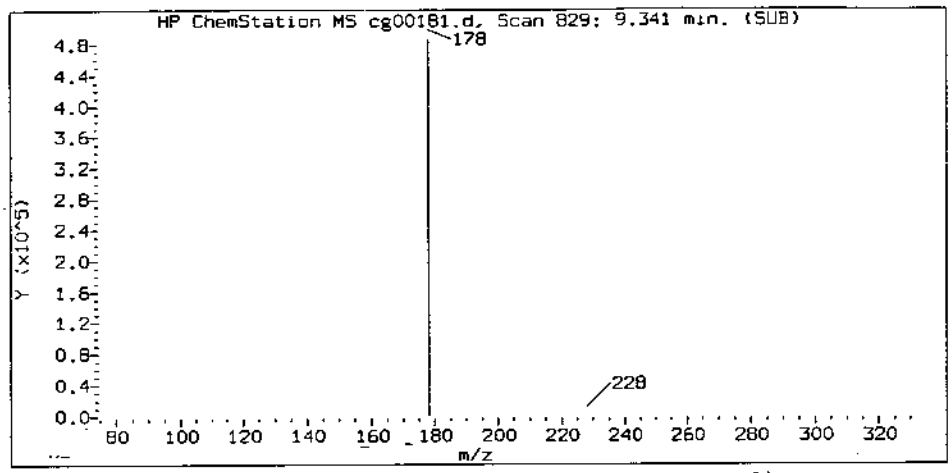
Sample Name: XXXXX

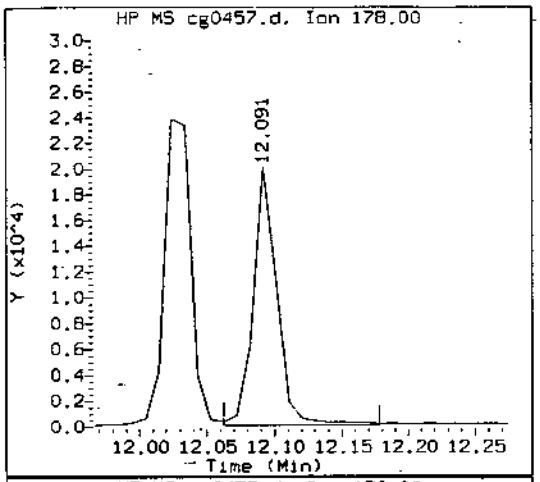
Lab Sample ID: 6339384

Compound Number	:	31
Compound Name	:	Phenanthrene
Scan Number	:	1096
Retention Time (minutes)	:	12.024
Quant Ion	:	178.0
Area (flag)	:	32633
Concentration (ng/ul)	:	0.0546

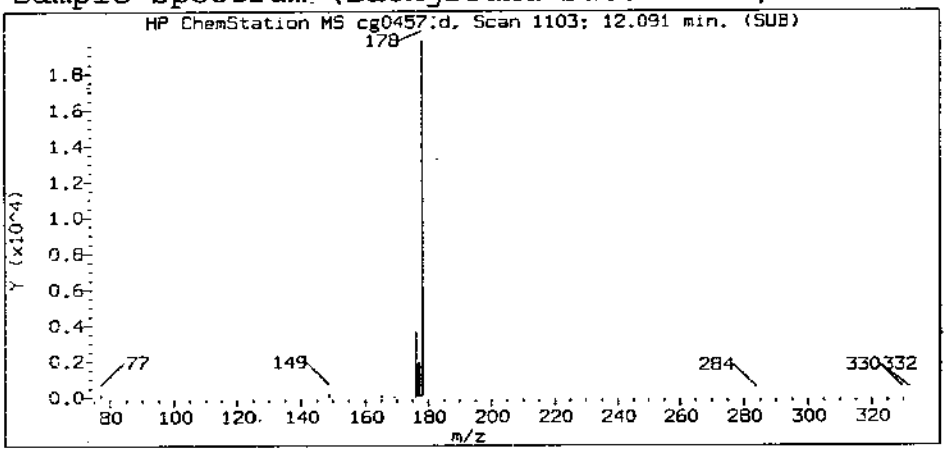
USF03 8765

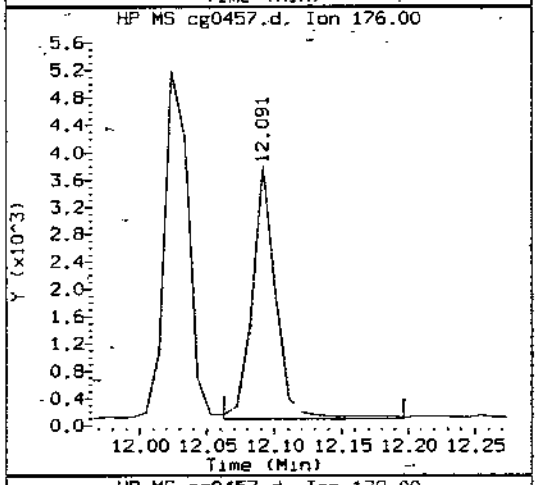
Reference Standard Spectrum for Anthracene



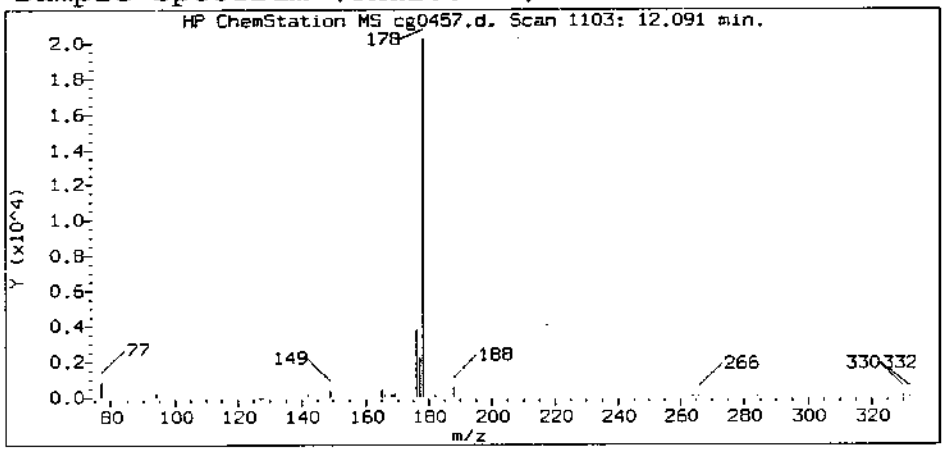


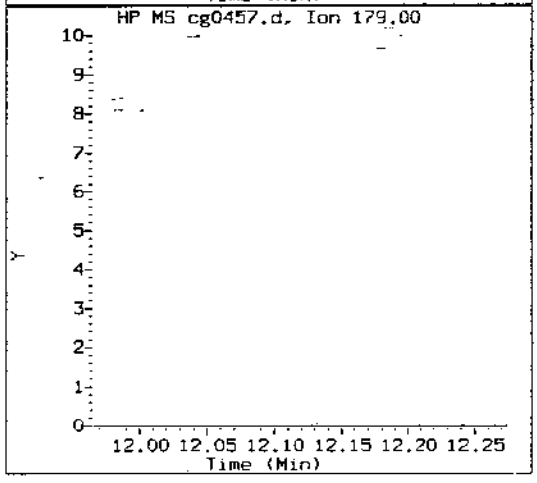
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

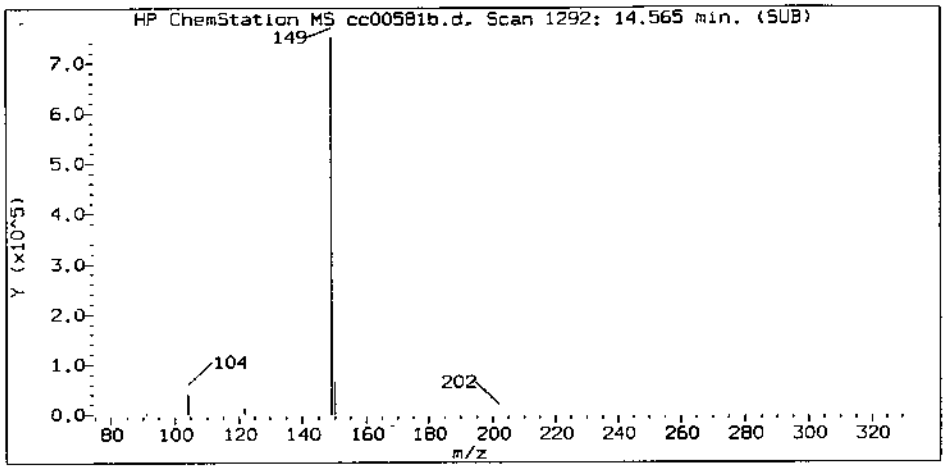
Sample Name: XXXXX

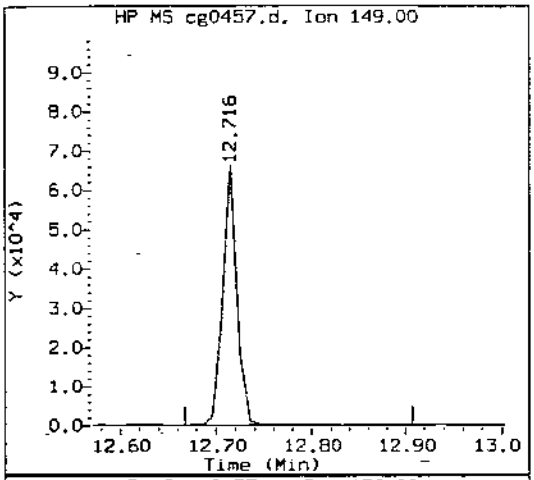
Lab Sample ID: 6339384

Compound Number	: 32
Compound Name	: Anthracene
Scan Number	: 1103
Retention Time (minutes)	: 12.091
Quant Ion	: 178.0
Area (flag)	: 24390
Concentration (ng/ul)	: 0.0434

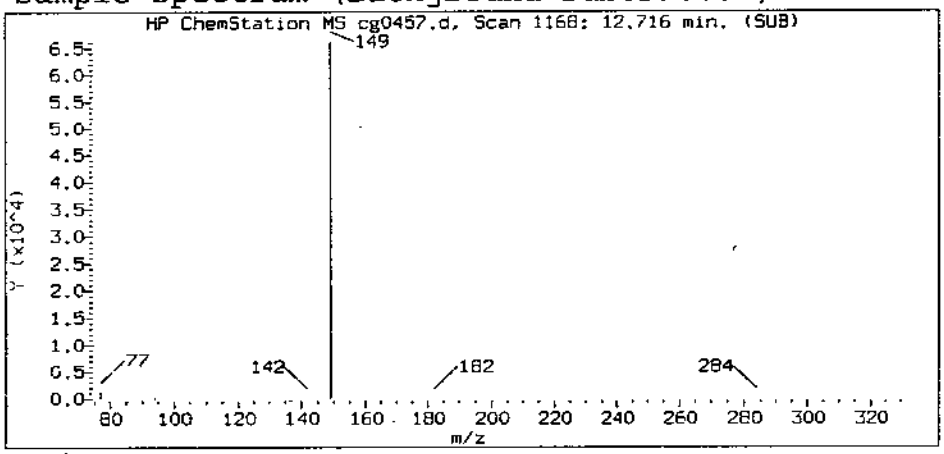
USP93 8766

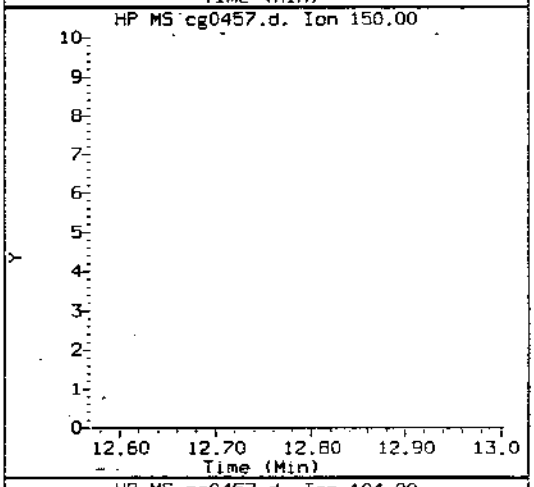
Reference Standard Spectrum for Di-n-butylphthalate



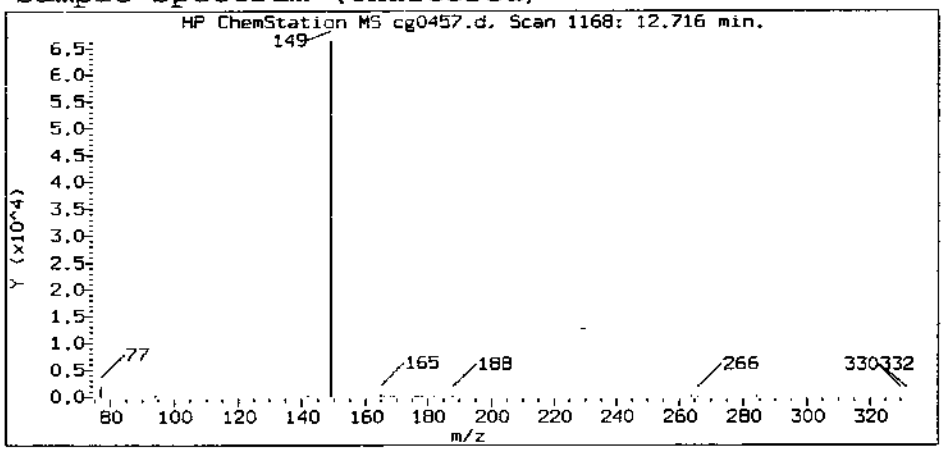


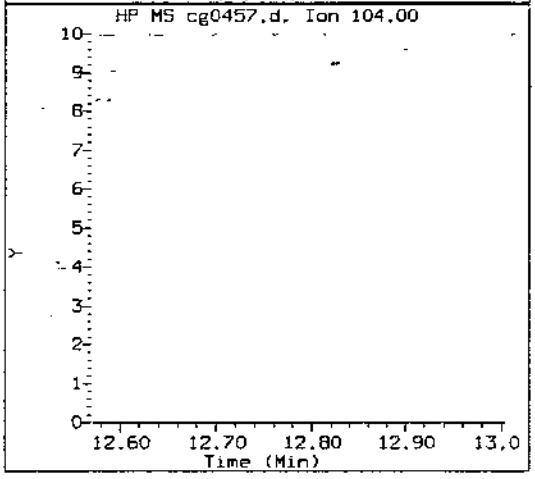
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

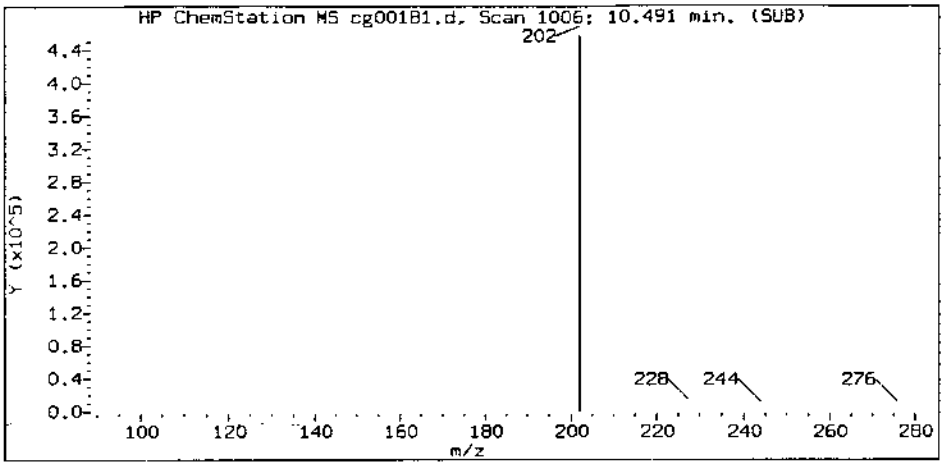
Sample Name: XXXXX

Lab Sample ID: 6339384

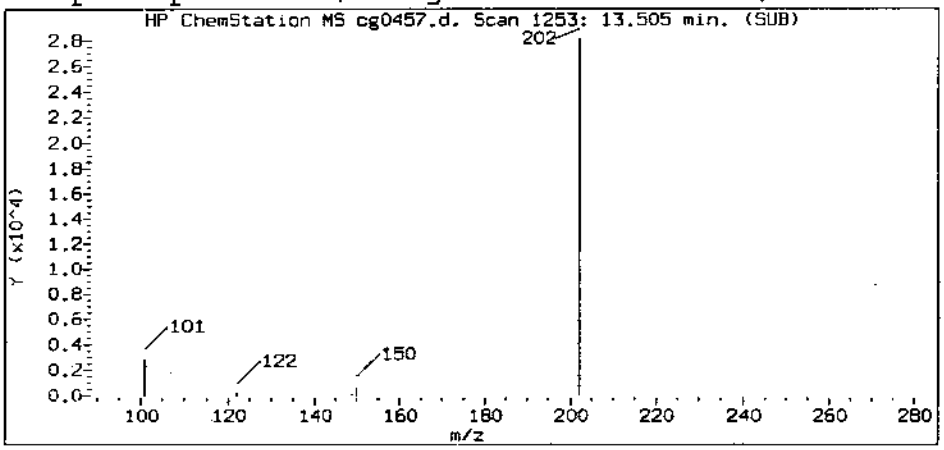
Compound Number	:	33
Compound Name	:	Di-n-butylphthalate
Scan Number	:	1168
Retention Time (minutes)	:	12.716
Quant Ion	:	149.0
Area (flag)	:	65977
Concentration (ng/ul)	:	0.2798

USP83 0767

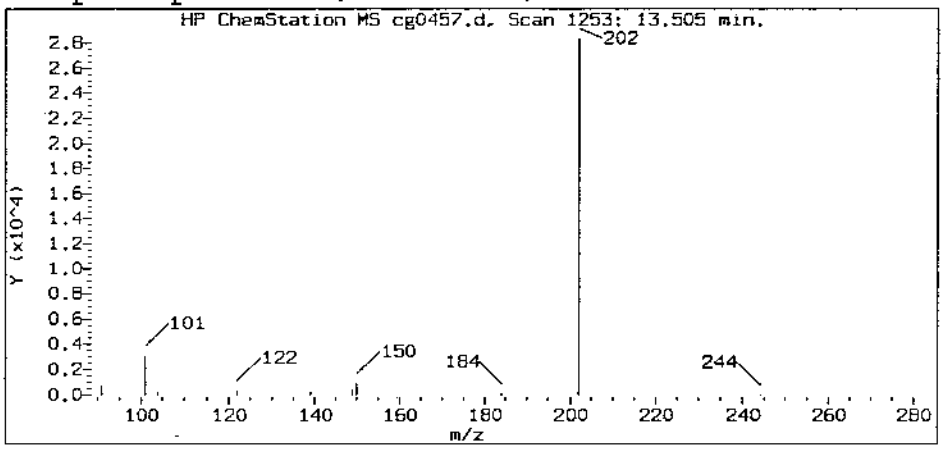
Reference Standard Spectrum for Fluoranthene

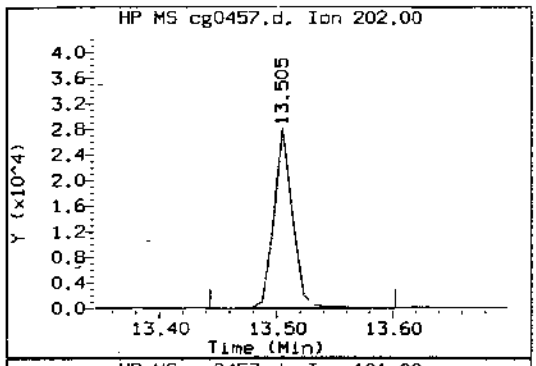


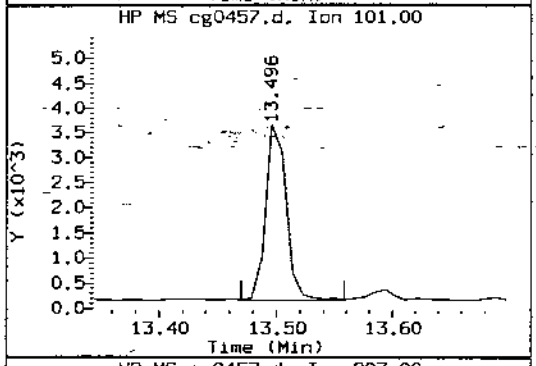
Sample Spectrum (Background Subtracted)

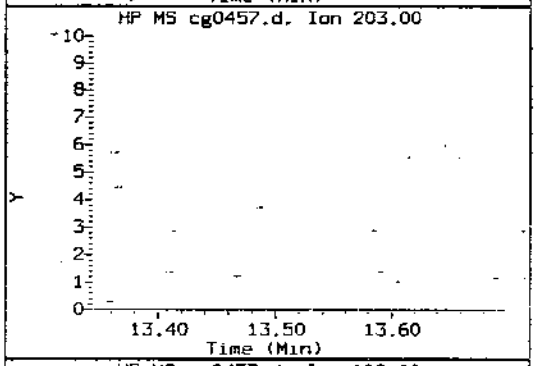


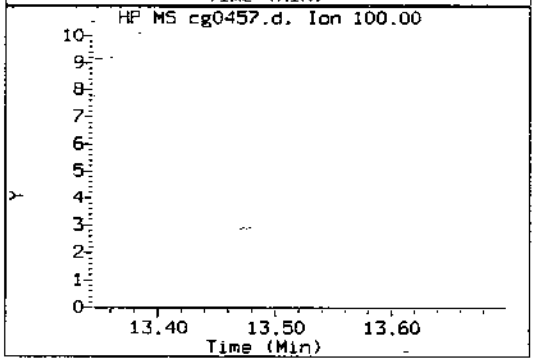
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

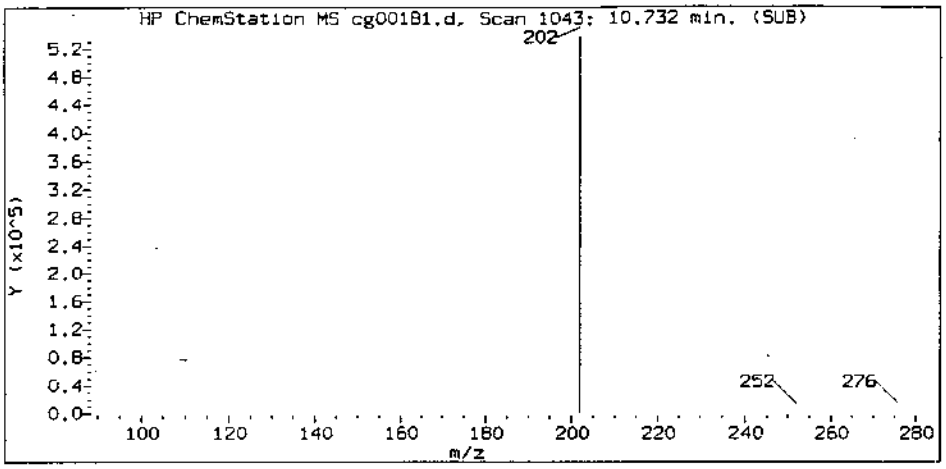
Sample Name: XXXXX

Lab Sample ID: 6339384

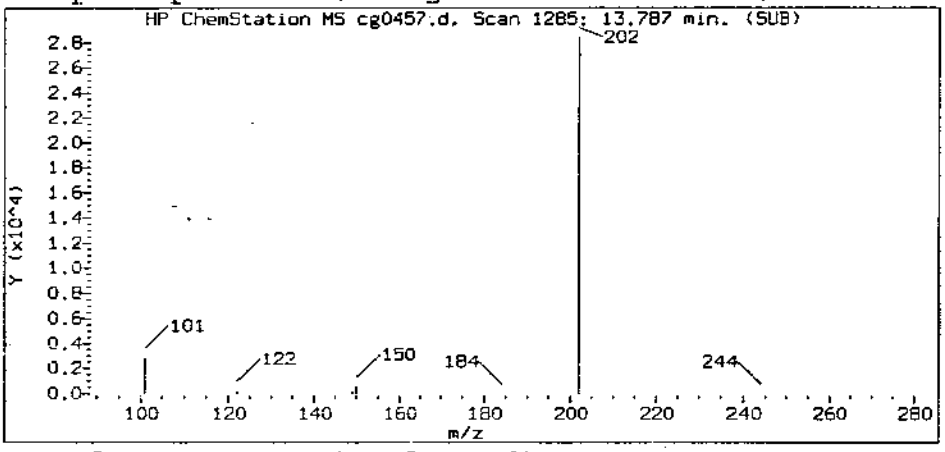
Compound Number	:	35
Compound Name	:	Fluoranthene
Scan Number	:	1253
Retention Time (minutes)	:	13.505
Quant Ion	:	202.0
Area (flag)	:	31064
Concentration (ng/ul)	:	0.0523

USF03 9768

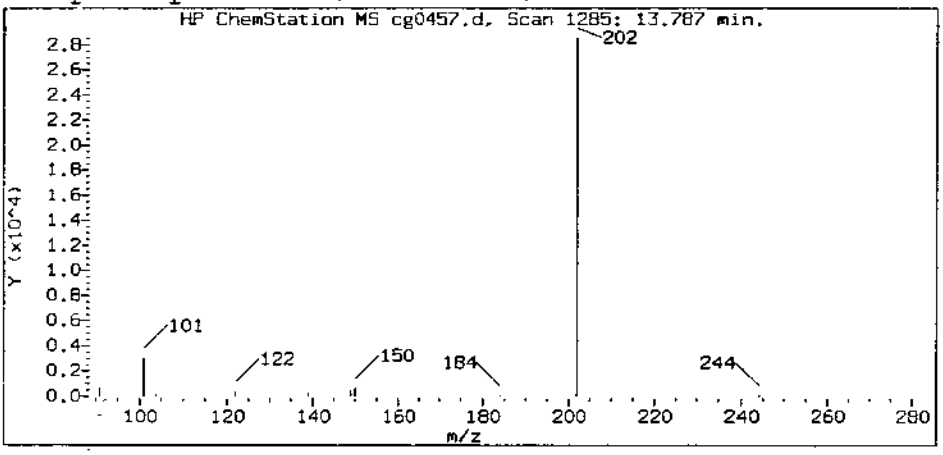
Reference Standard Spectrum for Pyrene

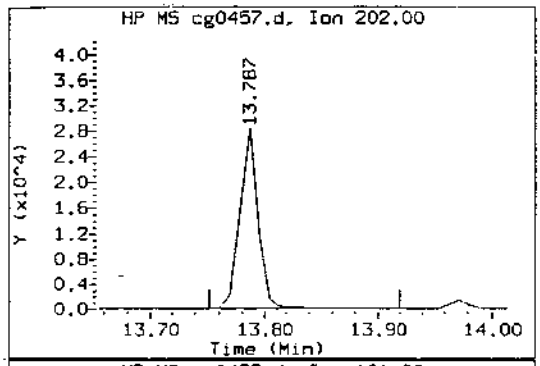


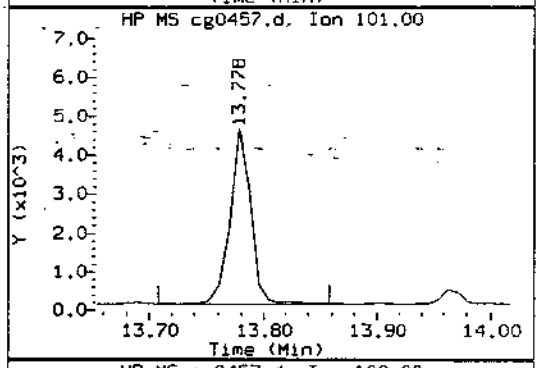
Sample Spectrum (Background Subtracted)

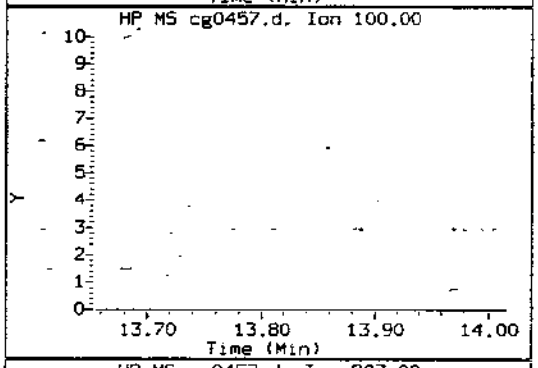


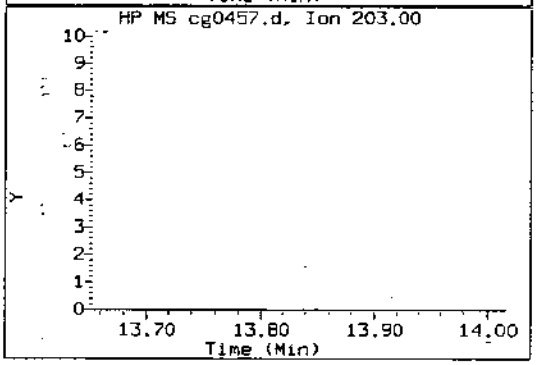
Sample Spectrum (Unaltered)











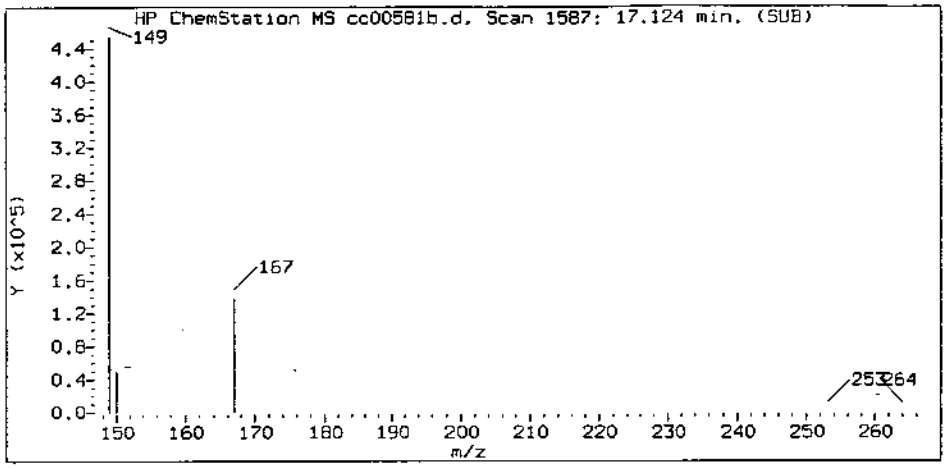
Data File: /chem/HP10623.i/11jul14a.b/cg0457.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 20:27 Analyst ID: gjd01970

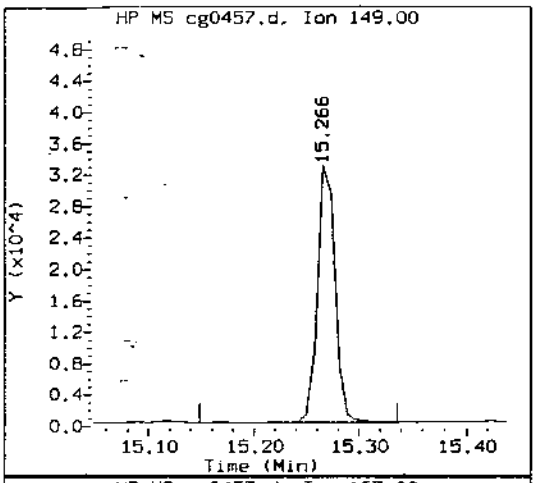
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

Sample Name: XXXXX Lab Sample ID: 6339384

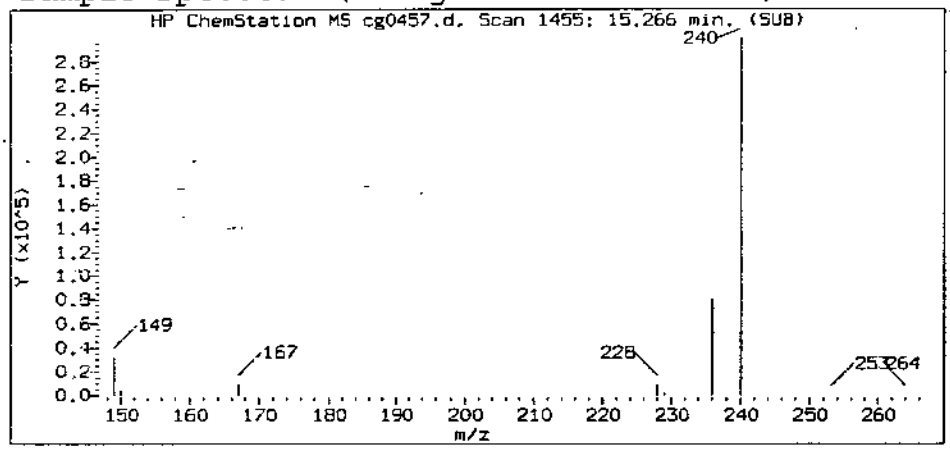
Compound Number	: 37
Compound Name	: Pyrene
Scan Number	: 1285
Retention Time (minutes)	: 13.787
Quant Ion	: 202.0
Area (flag)	: 32080
Concentration (ng/ul)	: 0.0529

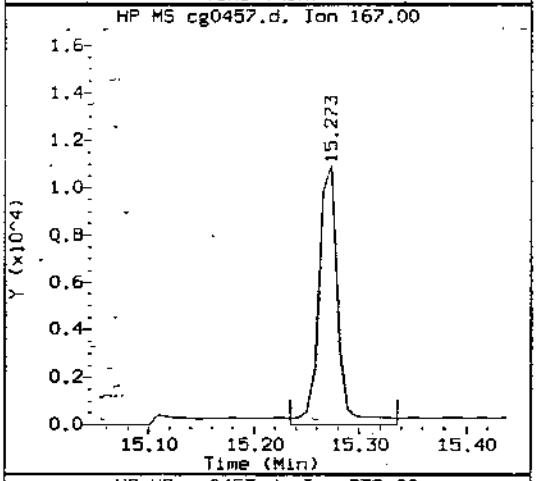
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



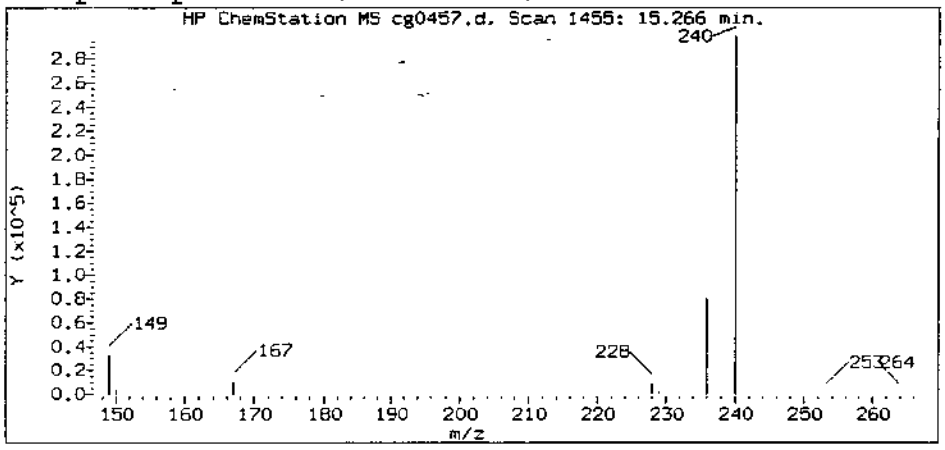


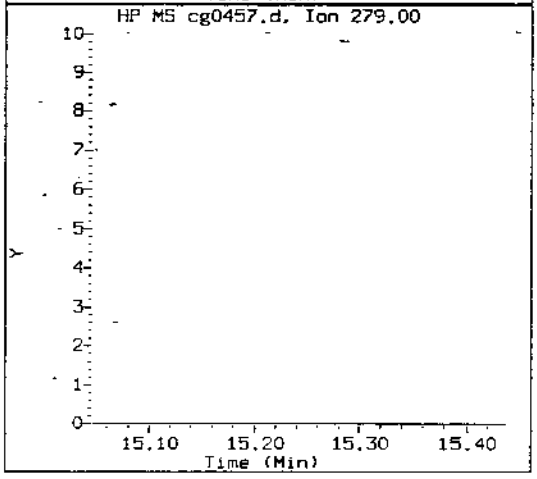
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

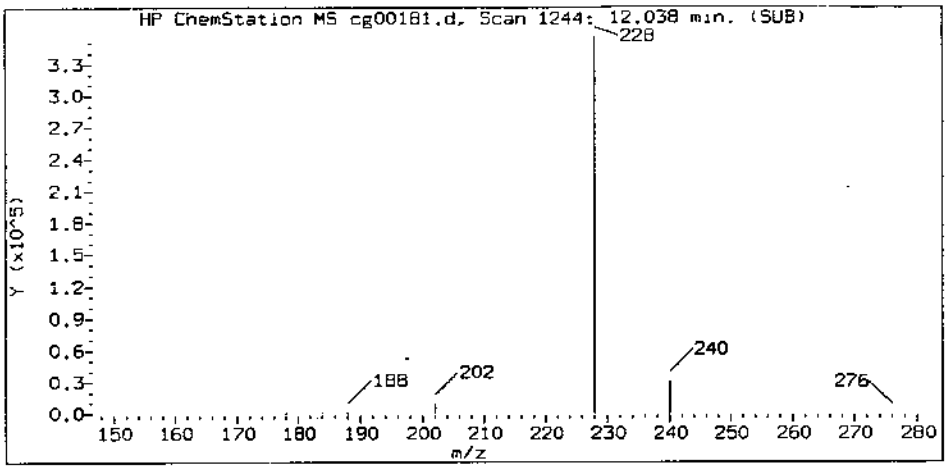
Sample Name: XXXXX

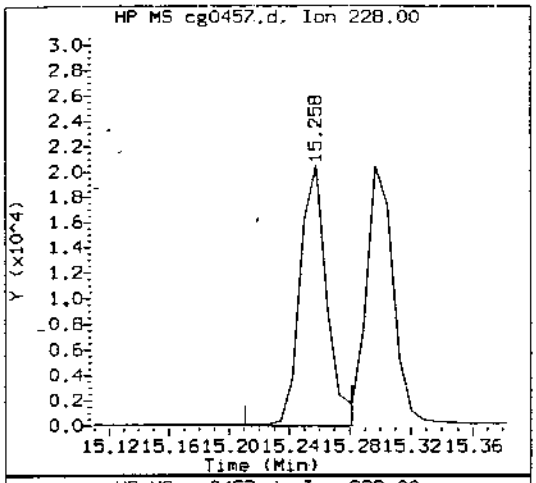
Lab Sample ID: 6339384

Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1455
Retention Time (minutes)	: 15.266
Quant Ion	: 149.0
Area (flag)	: 40116
Concentration (ng/ul)	: 0.2327

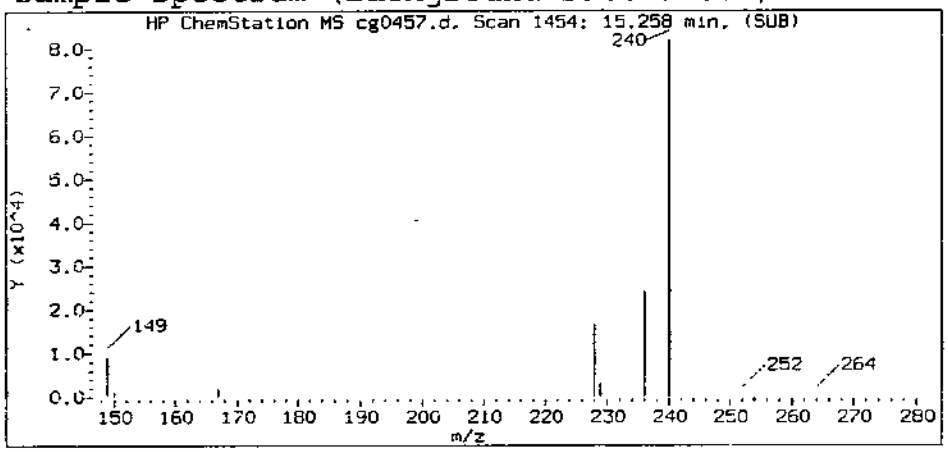
USF03 0778

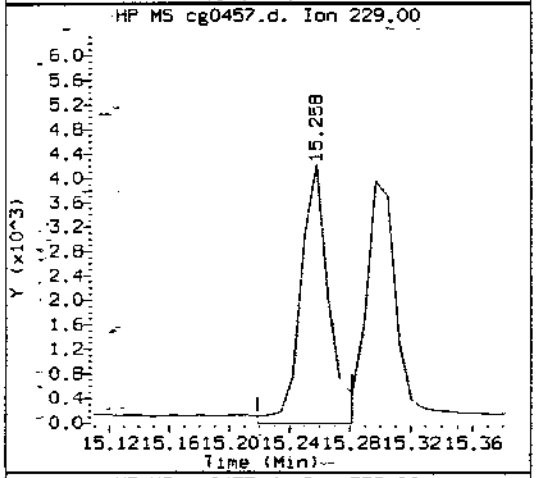
Reference Standard Spectrum for Benzo(a)anthracene



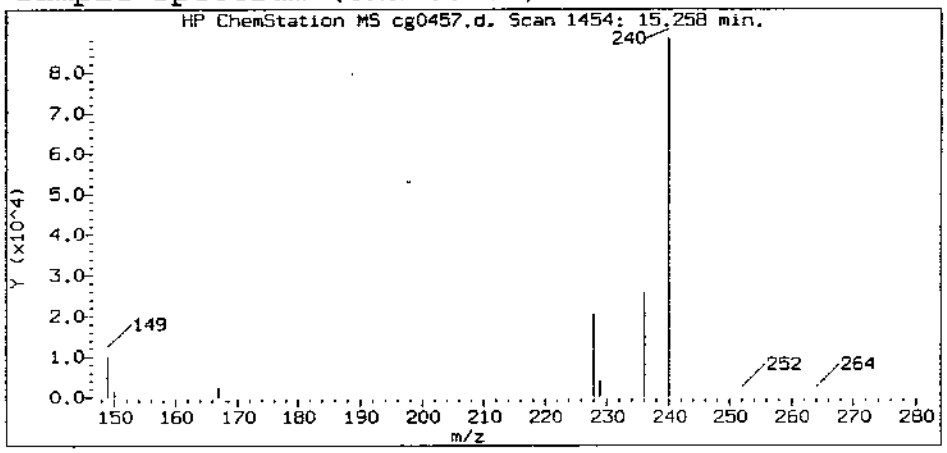


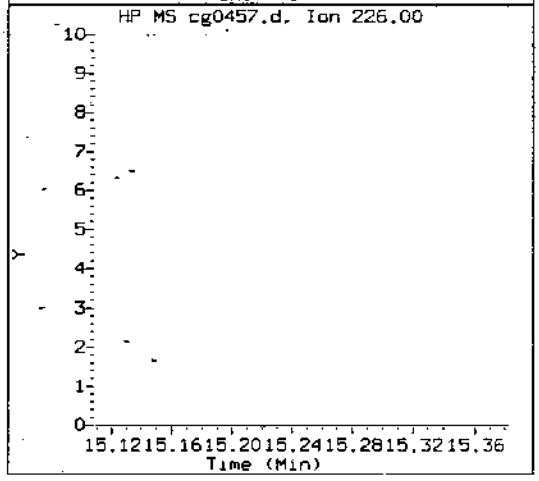
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

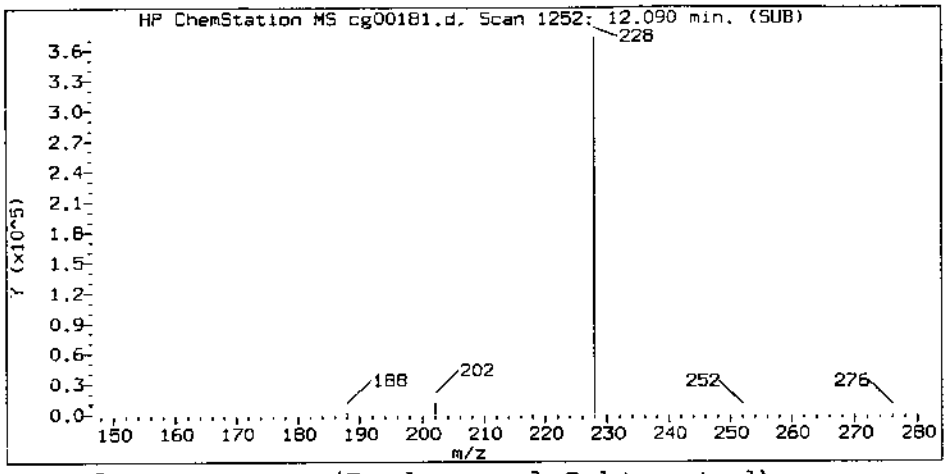
Sample Name: XXXXX

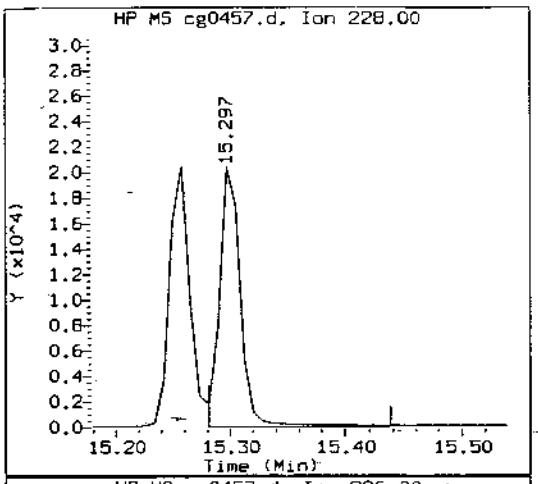
Lab Sample ID: 6339384

Compound Number	: 41
Compound Name	: Benzo(a)anthracene
Scan Number	: 1454
Retention Time (minutes)	: 15.258
Quant Ion	: 228.0
Area (flag)	: 25944
Concentration (ng/ul)	: 0.0541

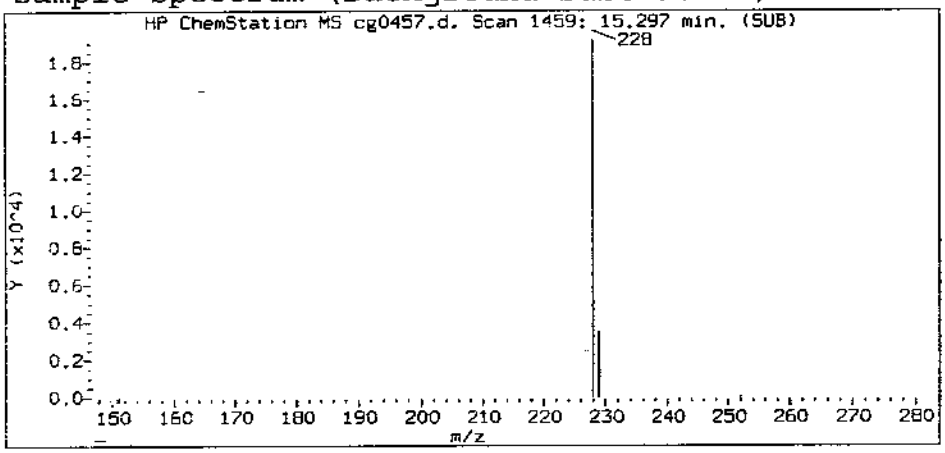
USF03 0771

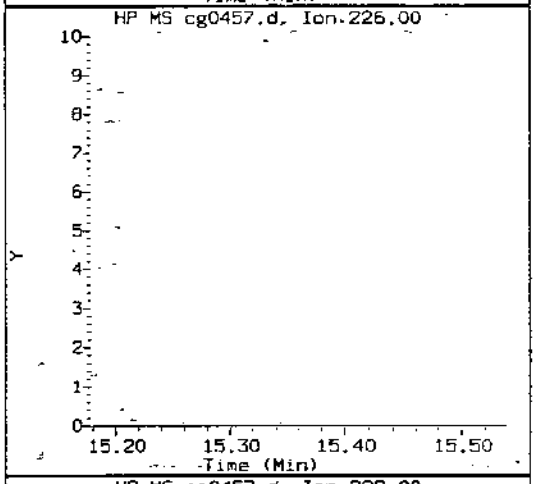
Reference Standard Spectrum for Chrysene



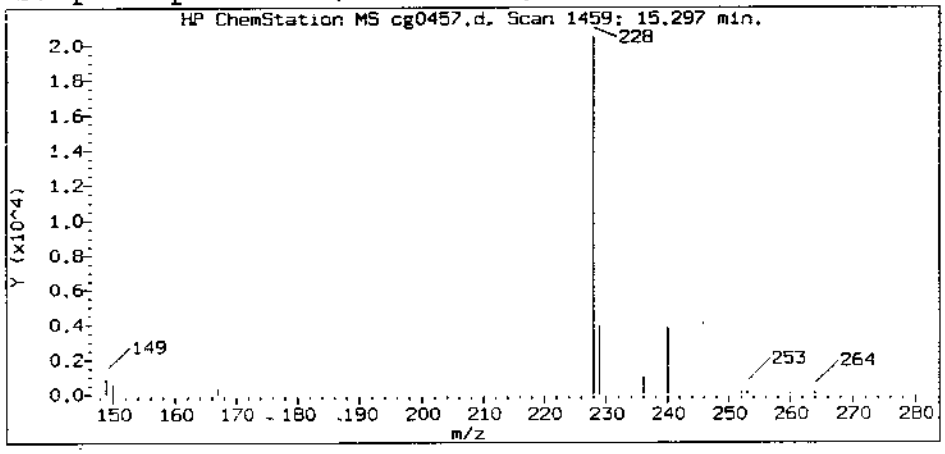


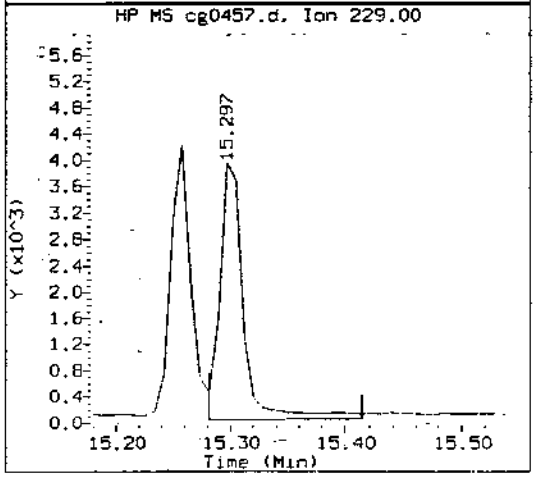
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

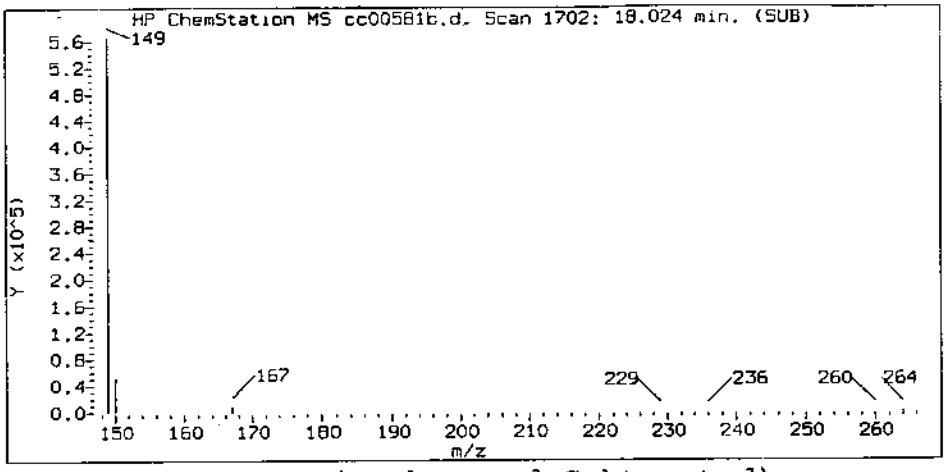
Sample Name: XXXXX

Lab Sample ID: 6339384

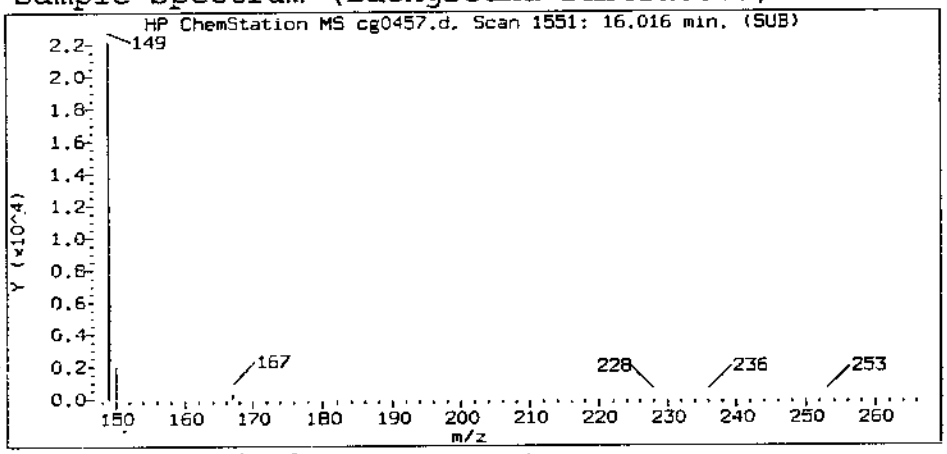
Compound Number	: 43
Compound Name	: Chrysene
Scan Number	: 1459
Retention Time (minutes)	: 15.297
Quant Ion	: 228.0
Area (flag)	: 27145
Concentration (ng/ul)	: 0.0516

USTB3 8772

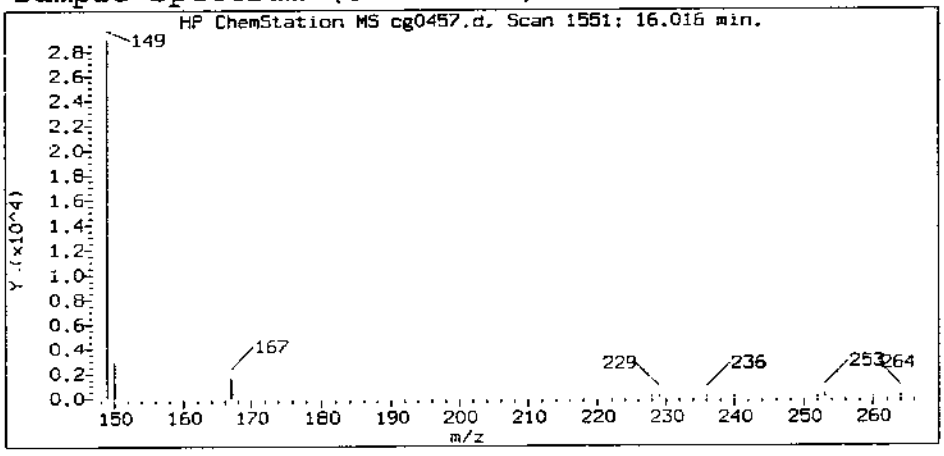
Reference Standard Spectrum for Di-n-octylphthalate

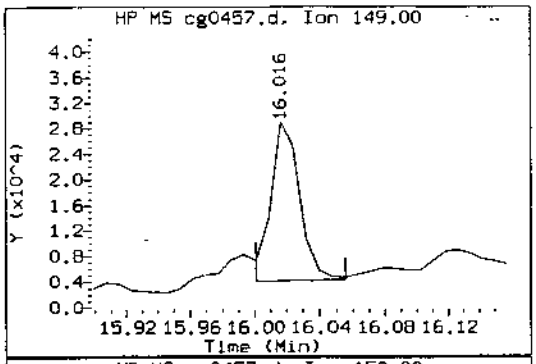


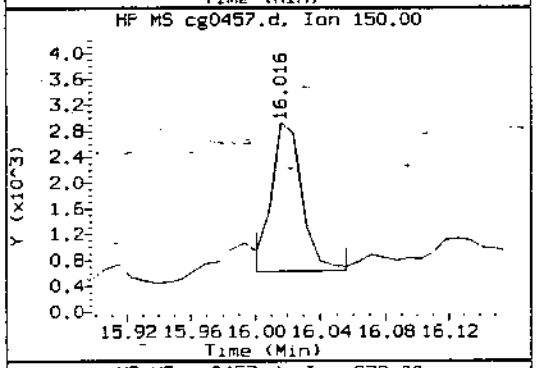
Sample Spectrum (Background Subtracted)

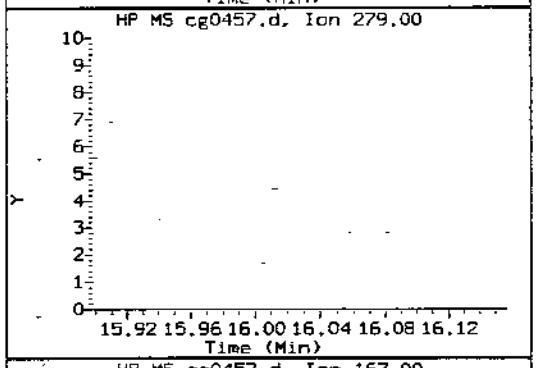


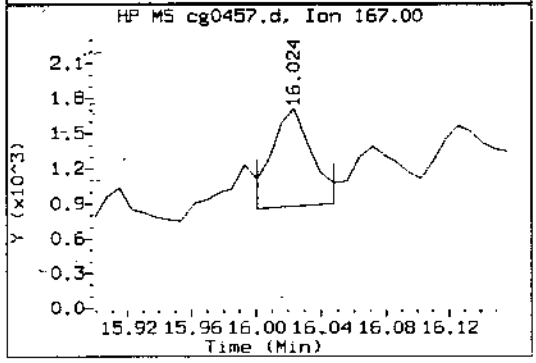
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

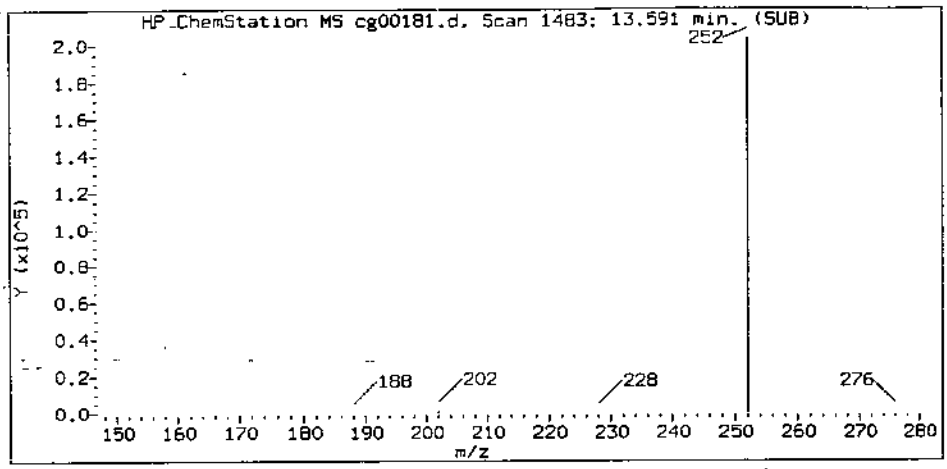
Sample Name: XXXXX

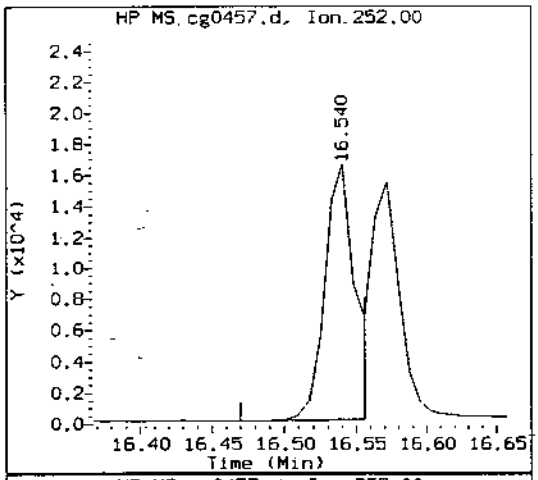
Lab Sample ID: 6339384

Compound Number	: 44
Compound Name	: Di-n-octylphthalate
Scan Number	: 1551
Retention Time (minutes)	: 16.016
Quant Ion	: 149.0
Area (flag)	: 30835
Concentration (ng/ul)	: 0.2180

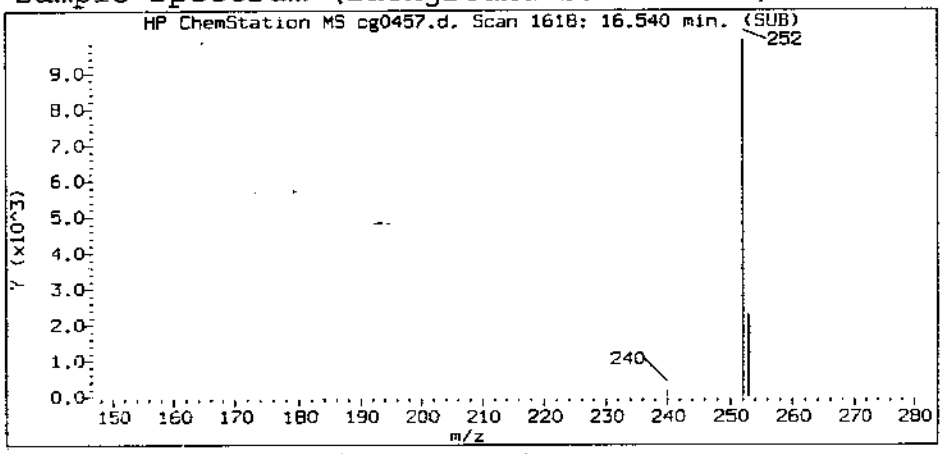
USP63 8773

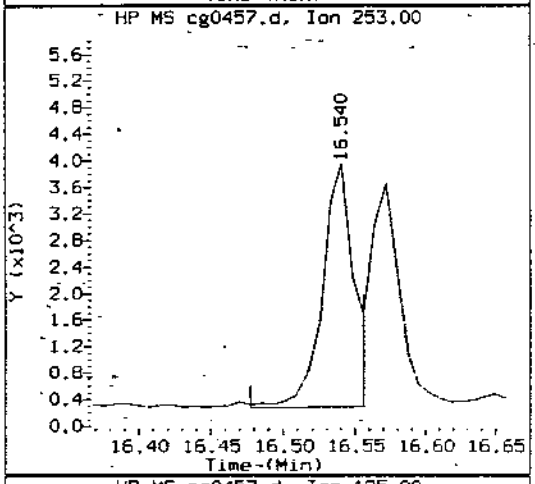
Reference Standard Spectrum for Benzo(b)fluoranthene



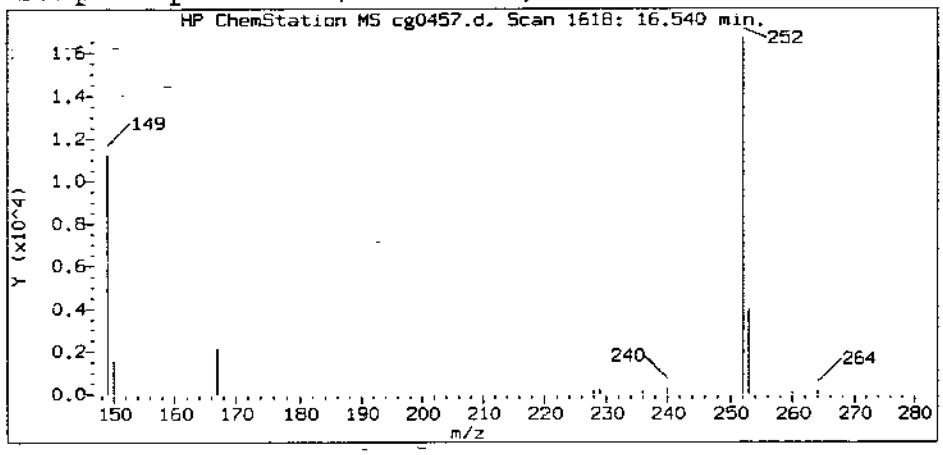


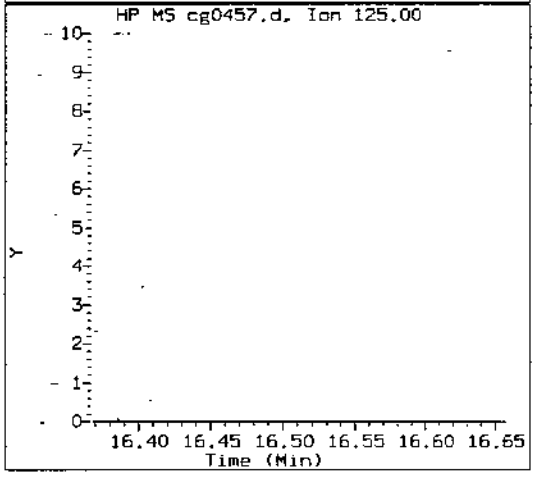
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

Sample Name: XXXXX

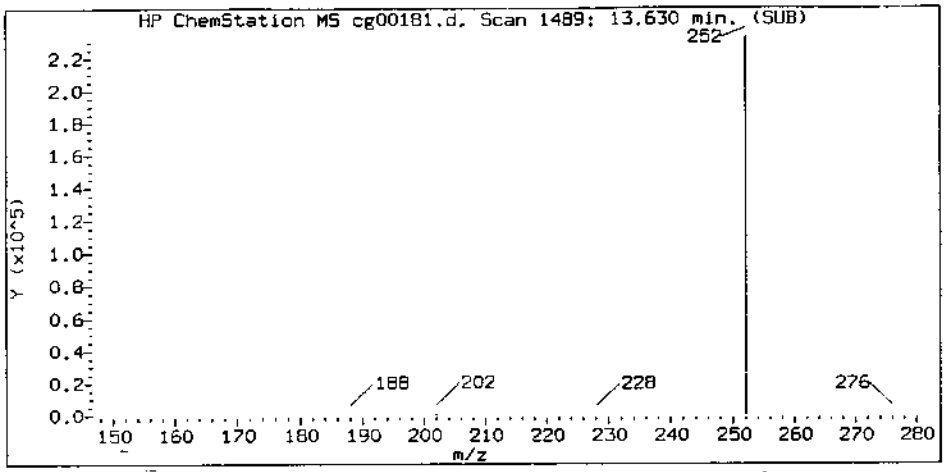
Lab Sample ID: 6339384

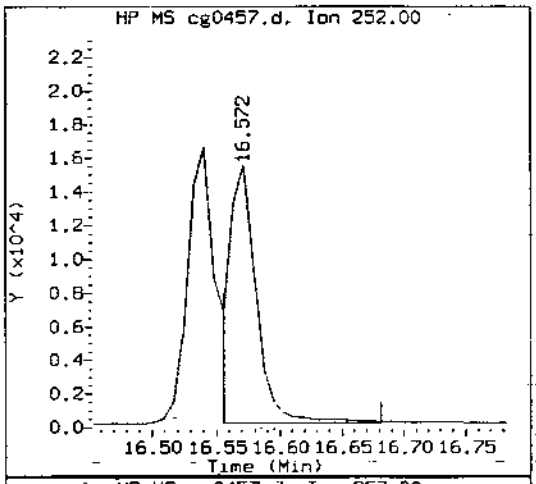
Compound Number	:	45
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1618
Retention Time (minutes)	:	16.540
Quant Ion	:	252.0
Area (flag)	:	23274
Concentration (ng/ul)	:	0.0568

USF03 8774

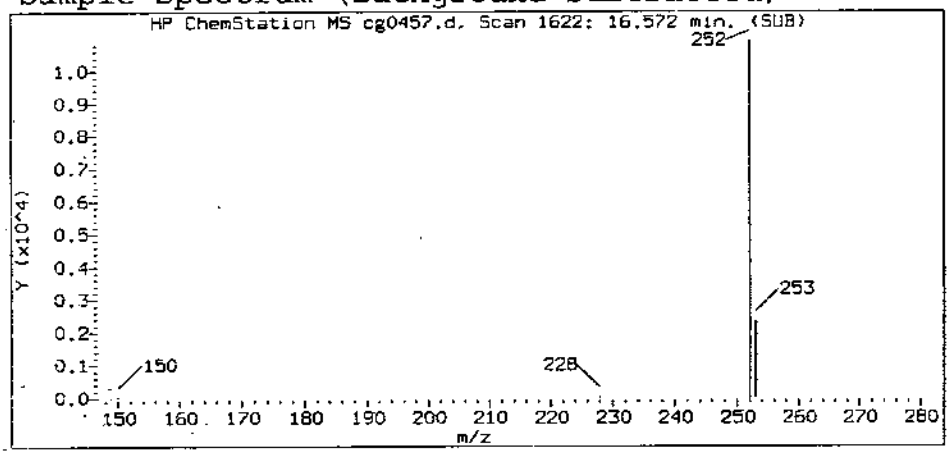
Hit Data Report for data file /chem/HP10623.i/11jul14a.b/cg0457.d, generated on 07/15/2011 at 04:37

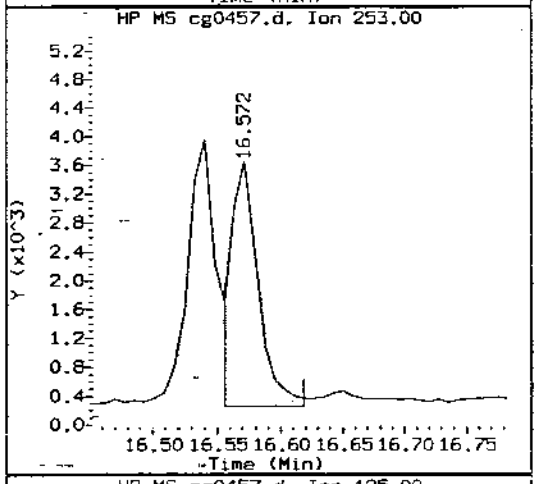
Reference Standard Spectrum for Benzo(k)fluoranthene



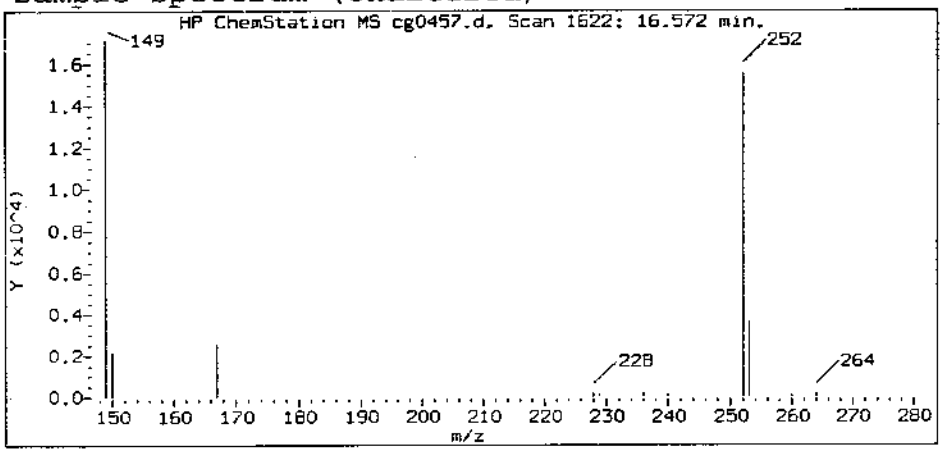


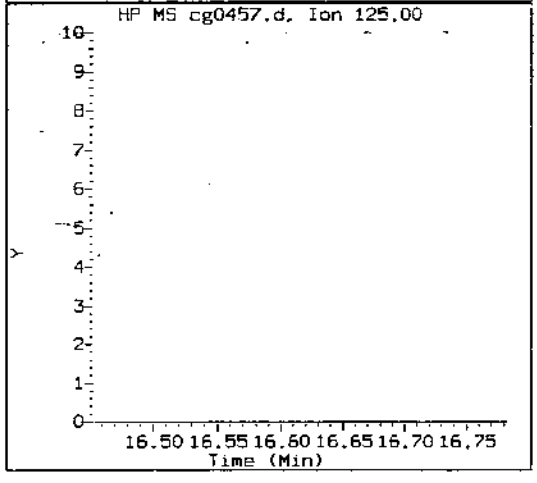
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

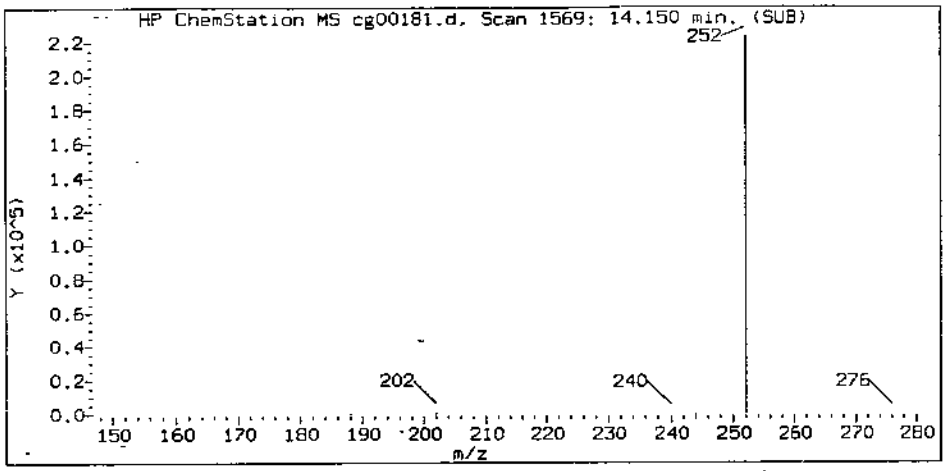
Sample Name: XXXXX

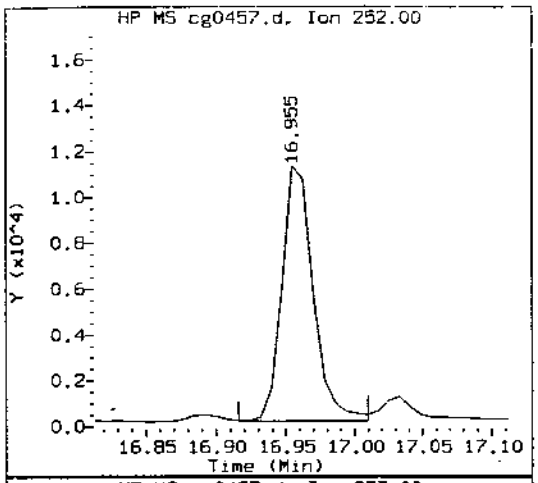
Lab Sample ID: 6339384

Compound Number	:	46
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1622
Retention Time (minutes)	:	16.572
Quant Ion	:	252.0
Area (flag)	:	22127
Concentration (ng/ul)	:	0.0504

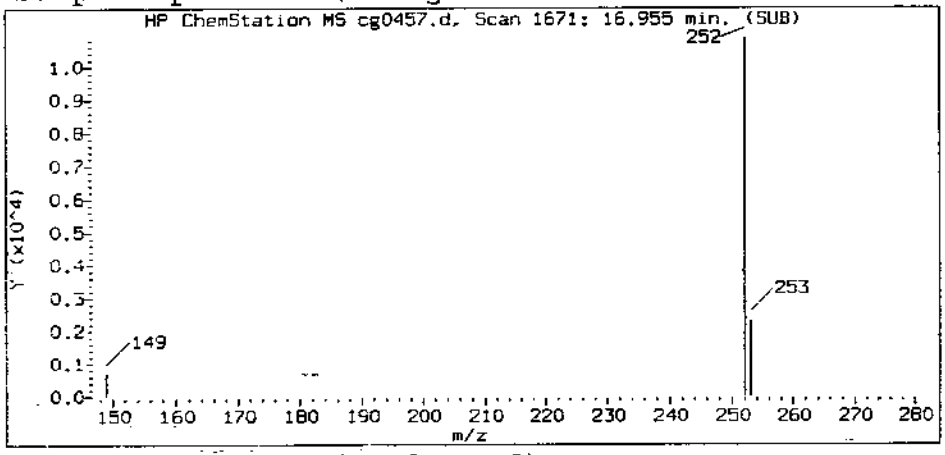
USF03 #775

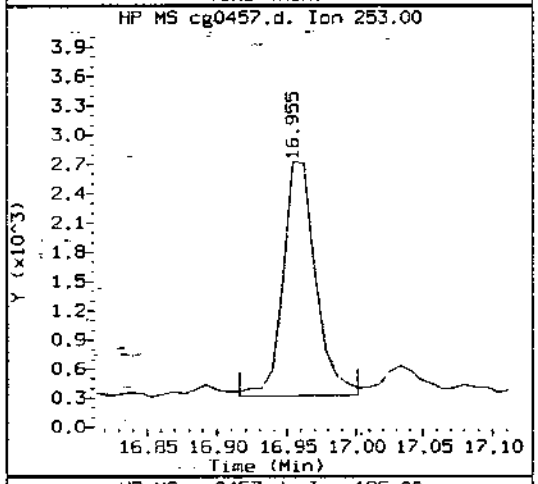
Reference Standard Spectrum for Benzo(a)pyrene



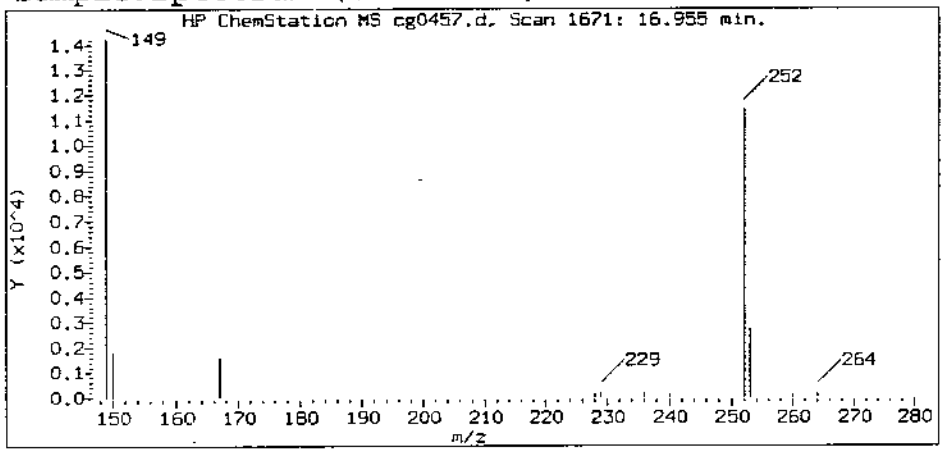


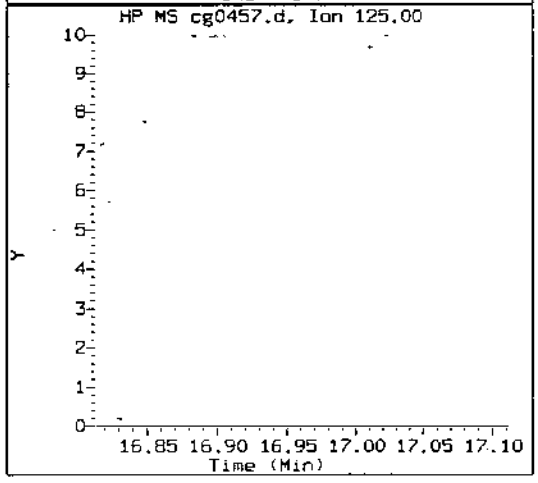
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

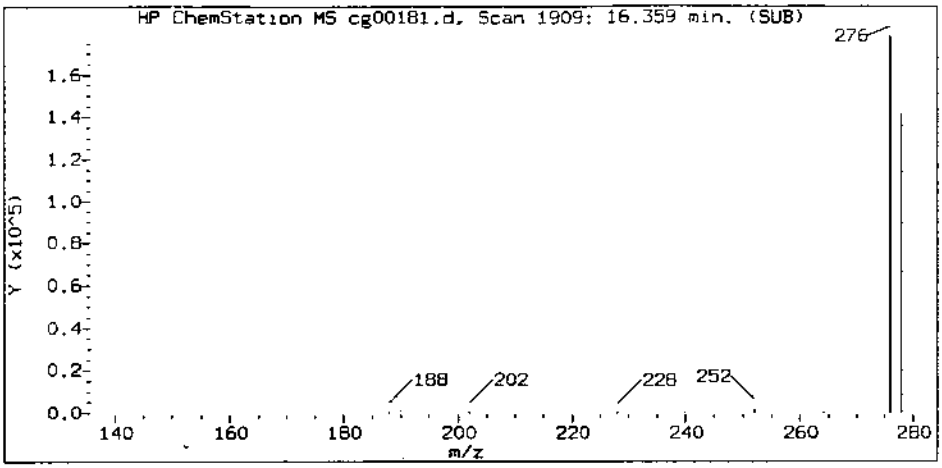
Sample Name: XXXXX

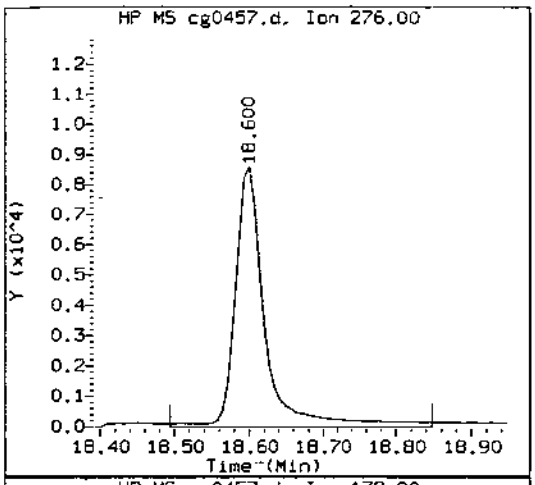
Lab Sample ID: 6339384

Compound Number	: 48
Compound Name	: Benzo(a)pyrene
Scan Number	: 1671
Retention Time (minutes)	: 16.955
Quant Ion	: 252.0
Area (flag)	: 17700
Concentration (ng/ul)	: 0.0459

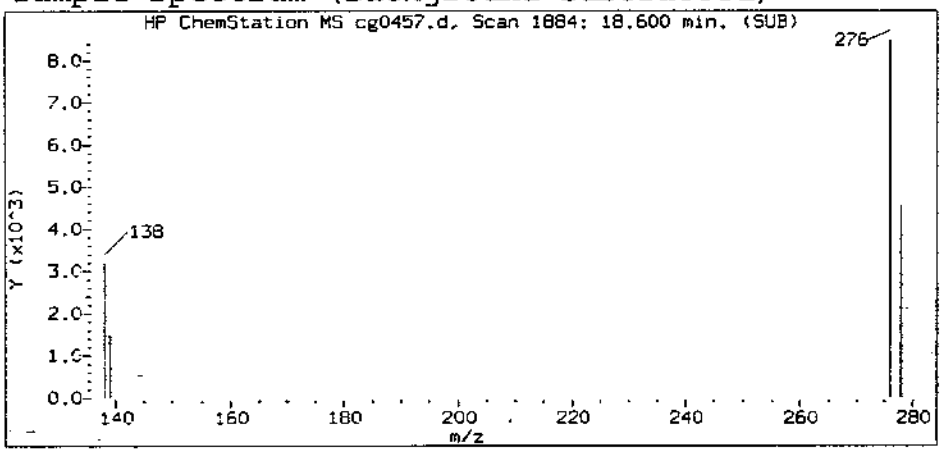
USF03 0775

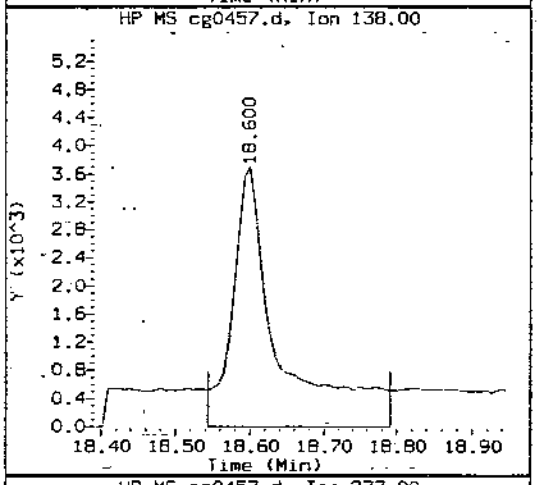
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



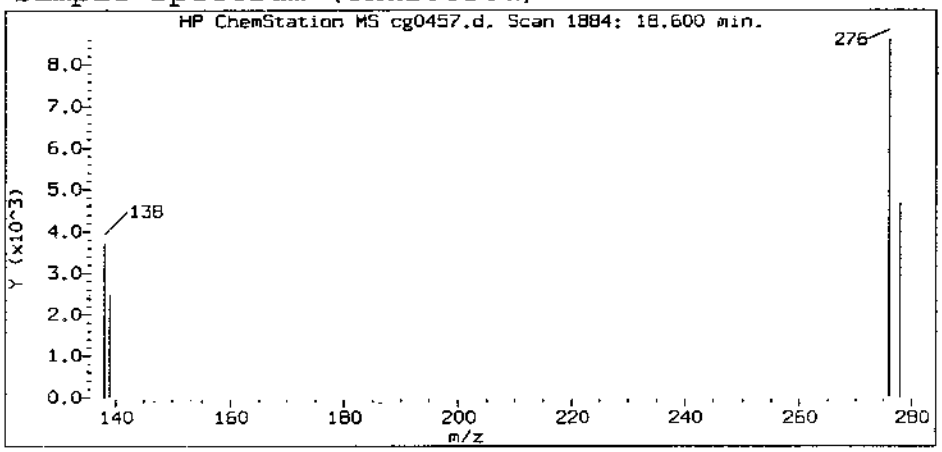


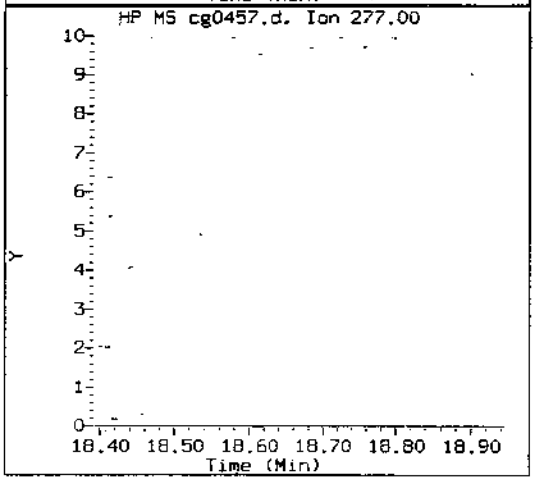
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

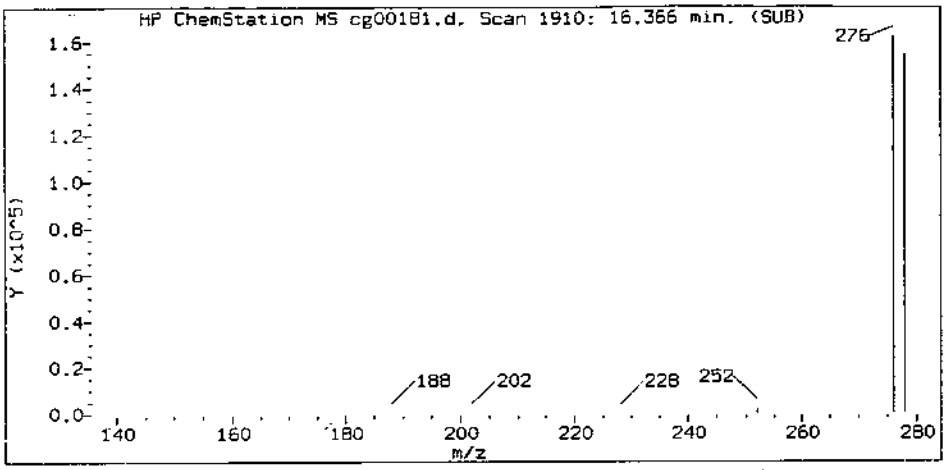
Sample Name: XXXXX

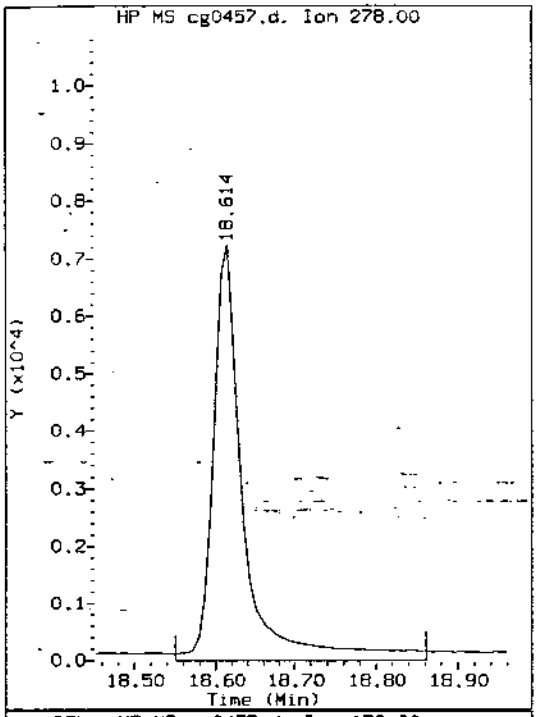
Lab Sample ID: 6339384

Compound Number	:	51
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	1884
Retention Time (minutes)	:	18.600
Quant Ion	:	276.0
Area (flag)	:	24290
Concentration (ng/ul)	:	0.0592

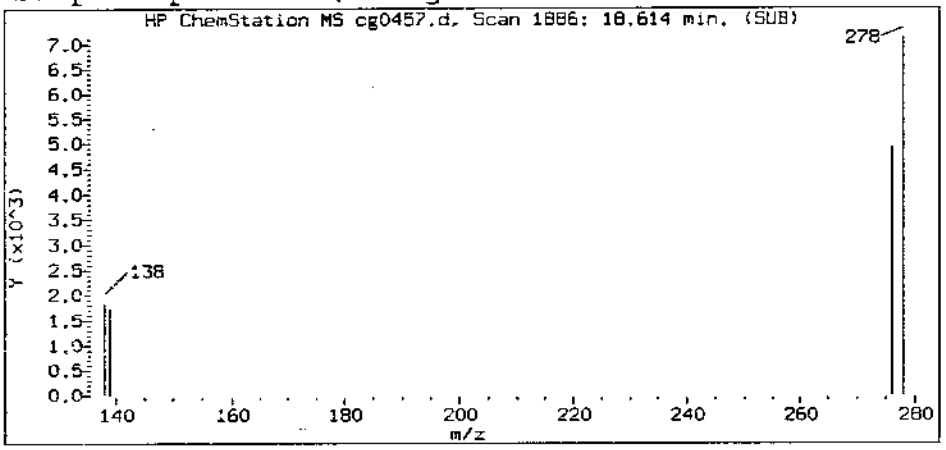
USF03 8777

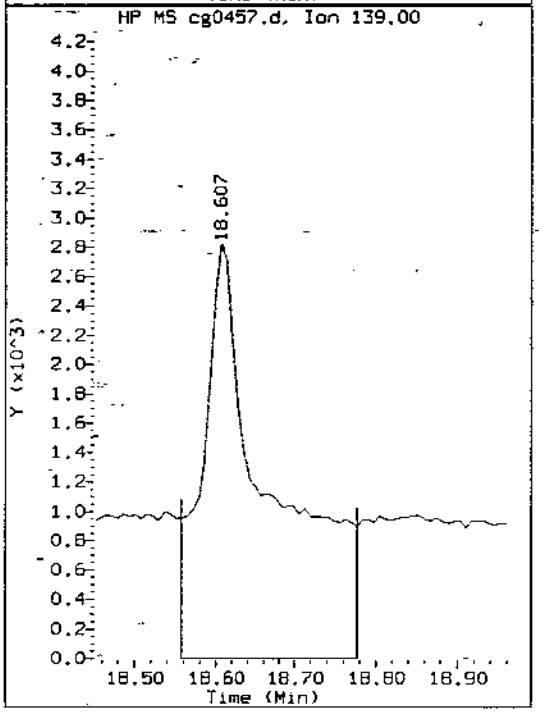
Reference Standard Spectrum for Dibenz(a,h)anthracene



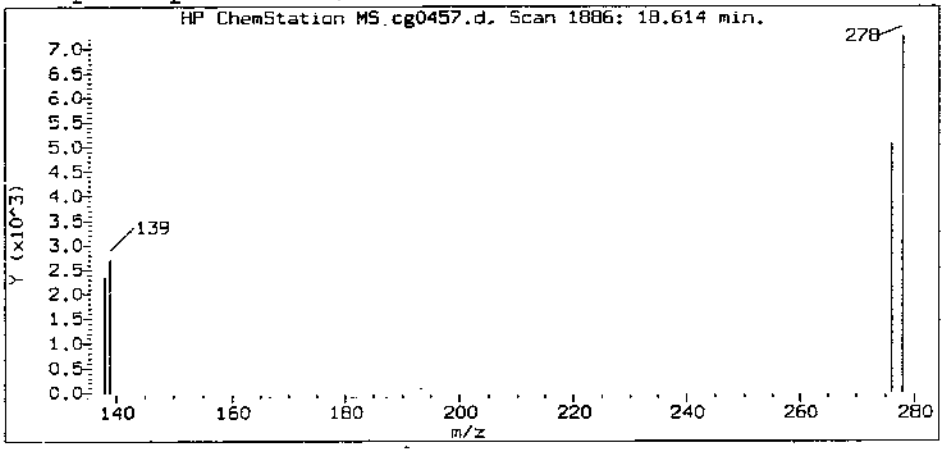


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP10623.i/11jul14a.b/cg0457.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 20:27 Analyst ID: gjd01970

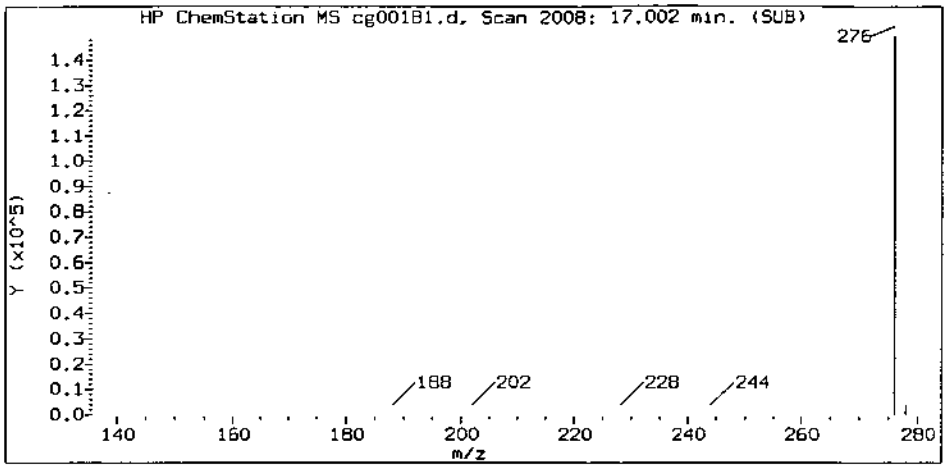
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

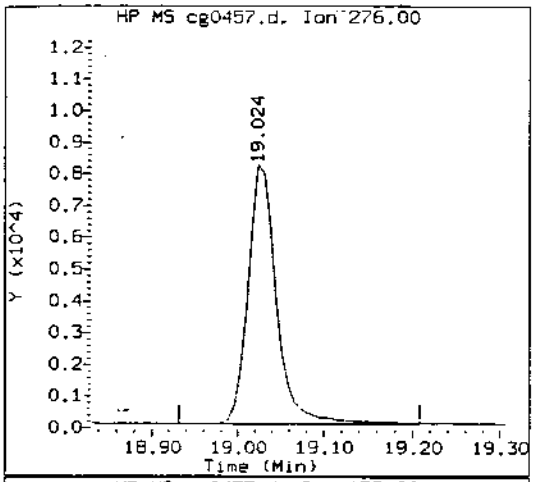
Sample Name: XXXXX Lab Sample ID: 6339384

Compound Number	: 52
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 1886
Retention Time (minutes)	: 18.614
Quant Ion	: 278.0
Area (flag)	: 19425
Concentration (ng/ul)	: 0.0593

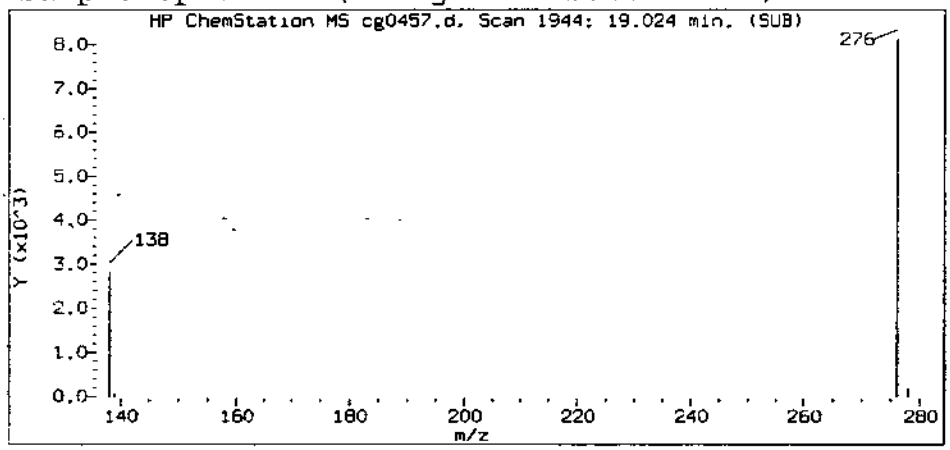
USY83 9778

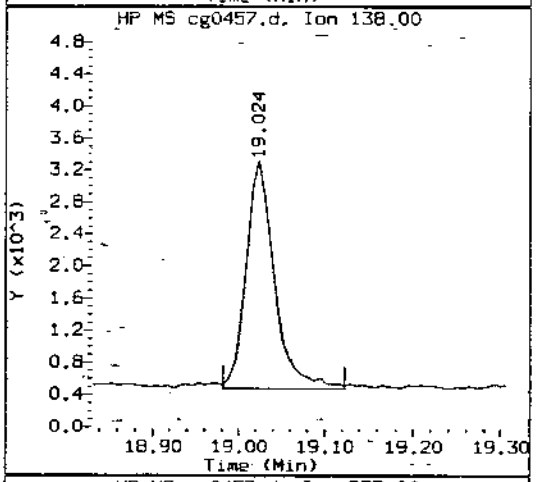
Reference Standard Spectrum for Benzo(g,h,i)perylene



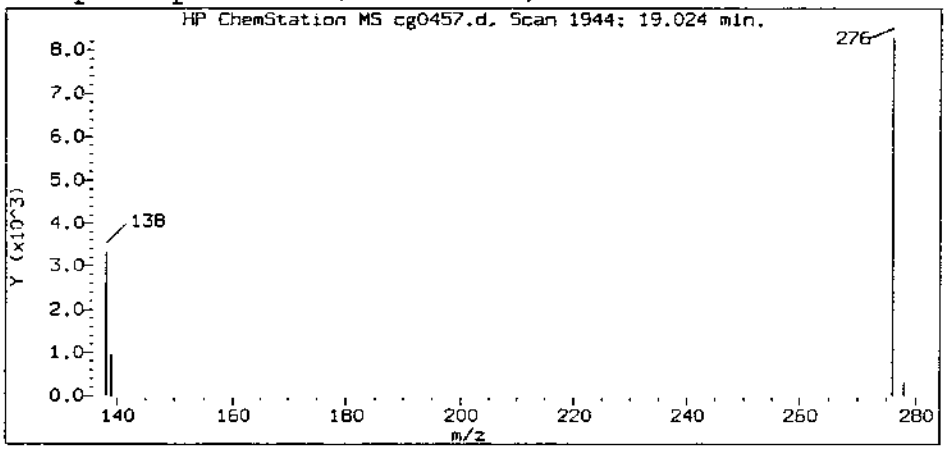


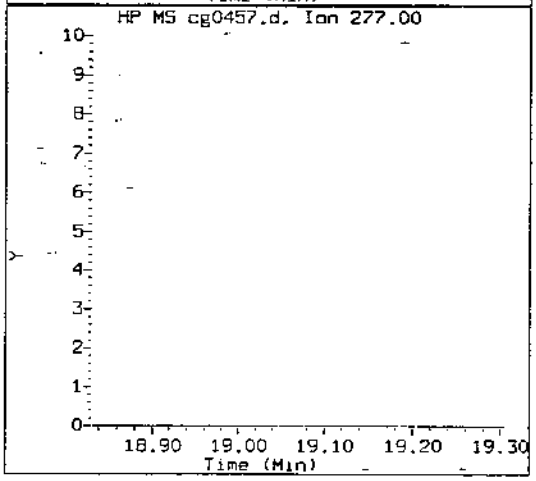
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14a.b/cg0457.d
Injection date and time: 14-JUL-2011 20:27

Instrument ID: HP10623.i
Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 15-Jul-2011 04:37 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6339384

Compound Number	:	53
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	1944
Retention Time (minutes)	:	19.024
Quant Ion	:	276.0
Area (flag)	:	19253
Concentration (ng/ul)	:	0.0534

USF03 6779

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339386

Data file: /chem/HP10623.i/11jul15.b/cg0489.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 15-JUL-2011 11:05 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 14:14 gjd01970

Method used: /chem/HP10623.i/11jul15.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 15-JUL-2011 12:06
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul15.b/cg0481.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc. (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.537	(0.000)	545	152.0	139403	(1)	1.00	
12) Naphthalene-d8	8.051	(0.000)	710	136.0	577838	(5)	1.00	
19) Acenaphthene-d10	10.200	(0.000)	911	164.0	316350	(8)	1.00	
30) Phenanthrene-d10	12.033	(0.000)	1097	188.0	476451	(2)	1.00	
42) Chrysene-d12	15.312	(-0.008)	1461	240.0	703426	(81)	1.00	
49) Perylene-d12	17.088	(-0.016)	1688	264.0	485227	(43)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.179	(0.000)	82	229462	1.114	111%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.371	(0.000)	172	367562	0.951	95%		63 - 129
38) Terphenyl-d14	(5)	13.972	(0.003)	244	315296	0.645	64%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)				Below MDL, Do not report					0.02
14) 2-Methylnaphthalene	(2)				Below MDL, Do not report					0.02
16) 1-Methylnaphthalene	(2)				Below MDL, Do not report					0.02
18) Acenaphthylene	(3)				Below MDL, Do not report					0.01
20) Dimethylphthalate	(3)				Below MDL, Do not report					0.18
21) Acenaphthene	(3)				Below MDL, Do not report					0.02
22) Diethylphthalate	(3)				Below MDL, Do not report					0.18
23) Fluorene	(3)				Below MDL, Do not report					0.02
31) Phenanthrene	(4)				Below MDL, Do not report					0.02
32) Anthracene	(4)				Below MDL, Do not report					0.01
33) Di-n-butylphthalate	(4)				ND		ND			0.18
35) Fluoranthene	(4)				ND		ND			0.02
37) Pyrene	(5)				Below MDL, Do not report					0.02
39) Butylbenzylphthalate	(5)	14.615	(0.000)	149	1173979	2.382	78.61			0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.305	(0.001)	149	475590	0.756	24.93			0.18
41) Benzo(a)anthracene	(5)				ND		ND			0.02
43) Chrysene	(5)				ND		ND			0.01
44) Di-n-octylphthalate	(6)				ND		ND			0.18
45) Benzo(b)fluoranthene	(6)				ND		ND			0.02
46) Benzo(k)fluoranthene	(6)				ND		ND			0.02
48) Benzo(a)pyrene	(6)				ND		ND			0.02
51) Indeno(1,2,3-cd)pyrene	(6)				ND		ND			0.02
52) Dibenz(a,h)anthracene	(6)				ND		ND			0.02
53) Benzo(g,h,i)perylene	(6)				Below MDL, Do not report					0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USP83 8788

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles 6339386

Data file: /chem/HP10623.i/11jul15.b/cg0489.d Blank Data file reference:**/chem/HP10623.i/11jul14a.b/cg0453.d**
Injection date and time: 15-JUL-2011 11:05 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 15-Jul-2011 14:14 gjd01970

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: **Slist6454**
Calibration date and time (Last Method Edit): 15-JUL-2011 12:06
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul15.b/cg0481.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.3 g Final Extract Volume (Vt): 1000 ul

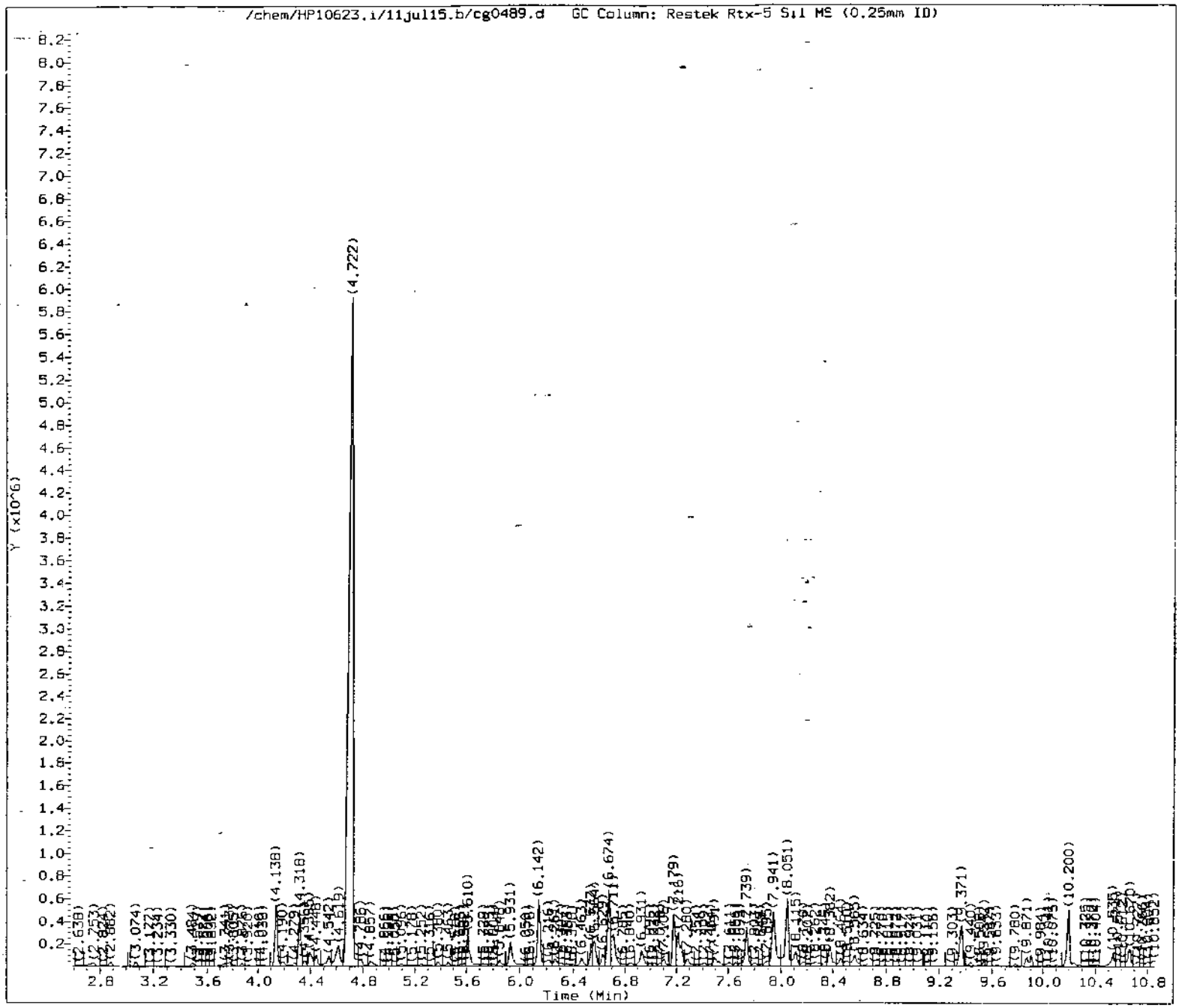
THIS SPACE WAS LEFT BLANK INTENTIONALLY

Total number of targets = 24

Comments:

Analyst: Greg Drahovsky Senior Chemist Date: JUL 15 2011
Auditor: Mark A. Ratcliff Senior Specialist Date: JUL 19 2011

USF03 8781



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0489.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 11:05 Analyst ID: jmg00346

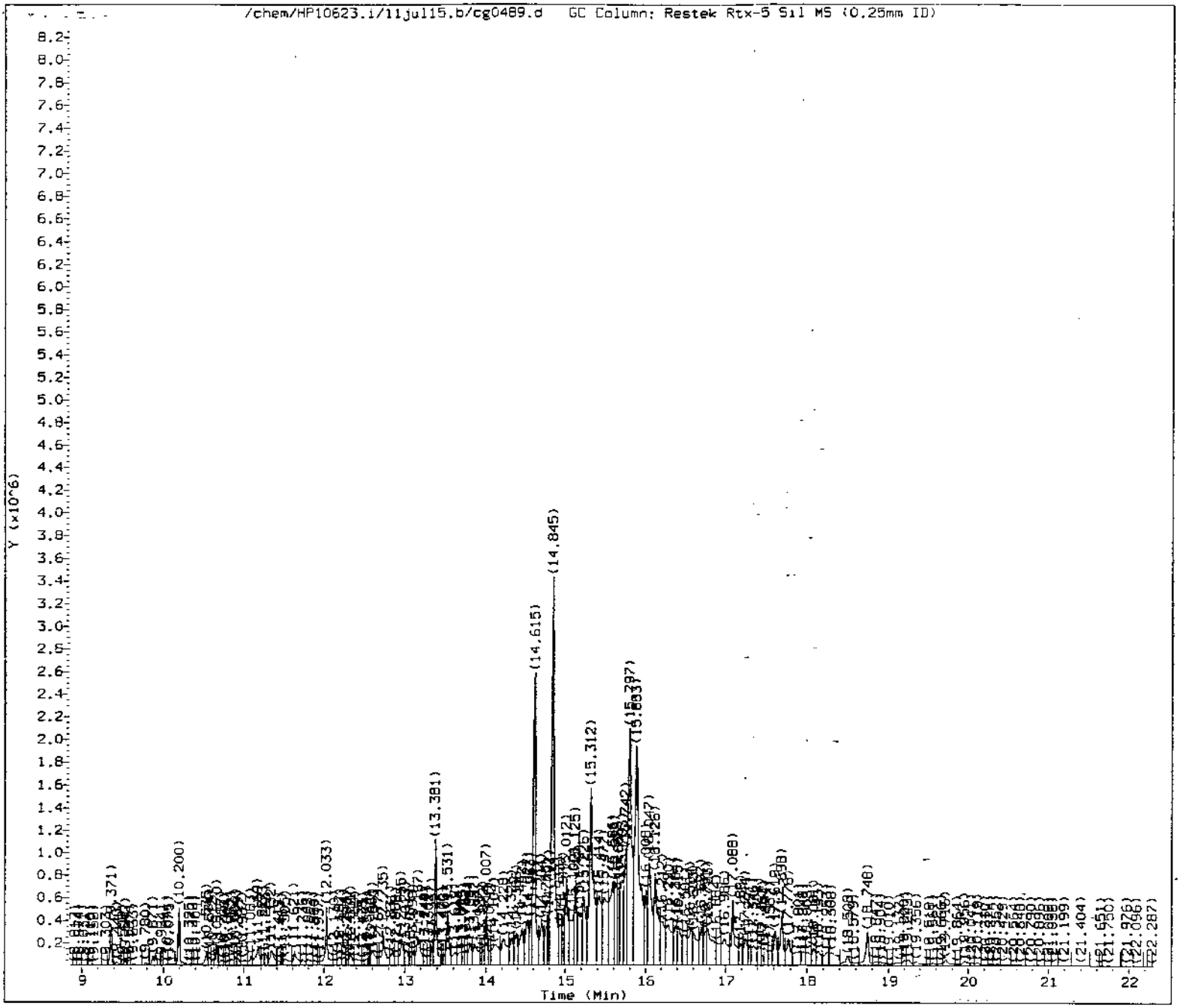
Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:14 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339386

USF03 8782

Greg Drahovzky
Senior Chemist

JUL 15 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0489.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 11:05 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:14 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339386

Greg Drahovsky
Senior Chemist

JUL 15 2011

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0489.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 11:05 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:14 gjd01970

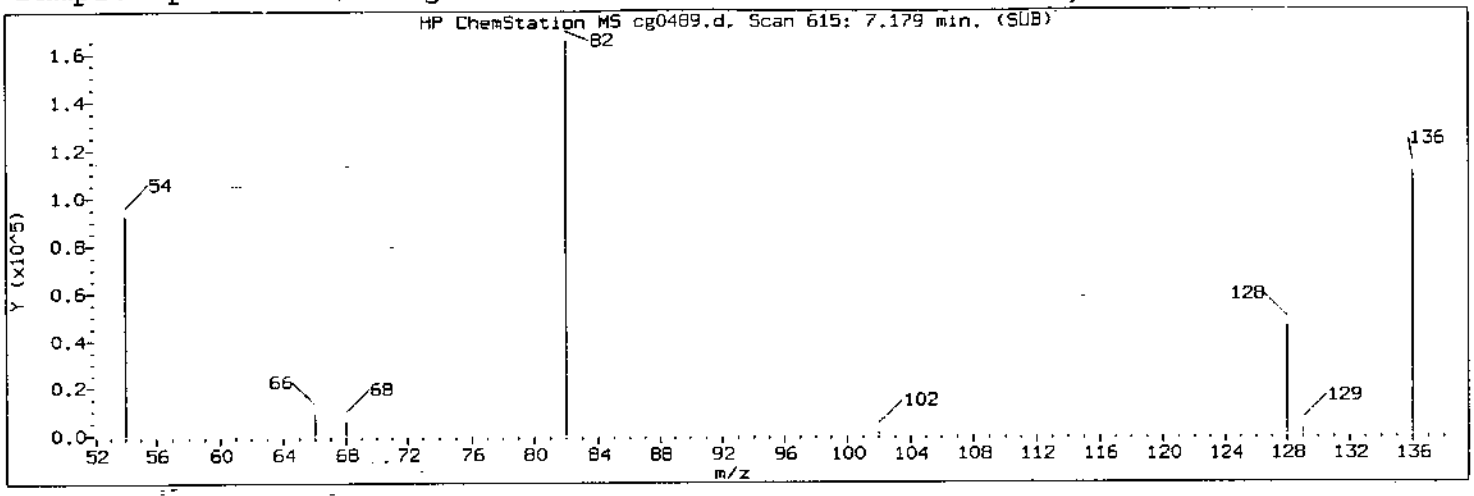
Sample Name: XXXXX Lab Sample ID: 6339386

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.537	152	139403	1.0000
12) Naphthalene-d8	(2)	8.051	136	577838	1.0000
19) Acenaphthene-d10	(3)	10.200	164	316350	1.0000
30) Phenanthrene-d10	(4)	12.033	188	476451	1.0000
39) Butylbenzylphthalate	(5)	14.615	149	1173979	2.3820
40) bis(2-Ethylhexyl)phthalate	(5)	15.305	149	475590M	0.7555
42) Chrysene-d12	(5)	15.312	240	703426	1.0000
49) Perylene-d12	(6)	17.088	264	485227	1.0000
10) Nitrobenzene-d5	(2)	7.179	82	229462M	1.1145
17) 2-Fluorobiphenyl	(3)	9.371	172	367562	0.9511
38) Terphenyl-d14	(5)	13.972	244	315296	0.6446

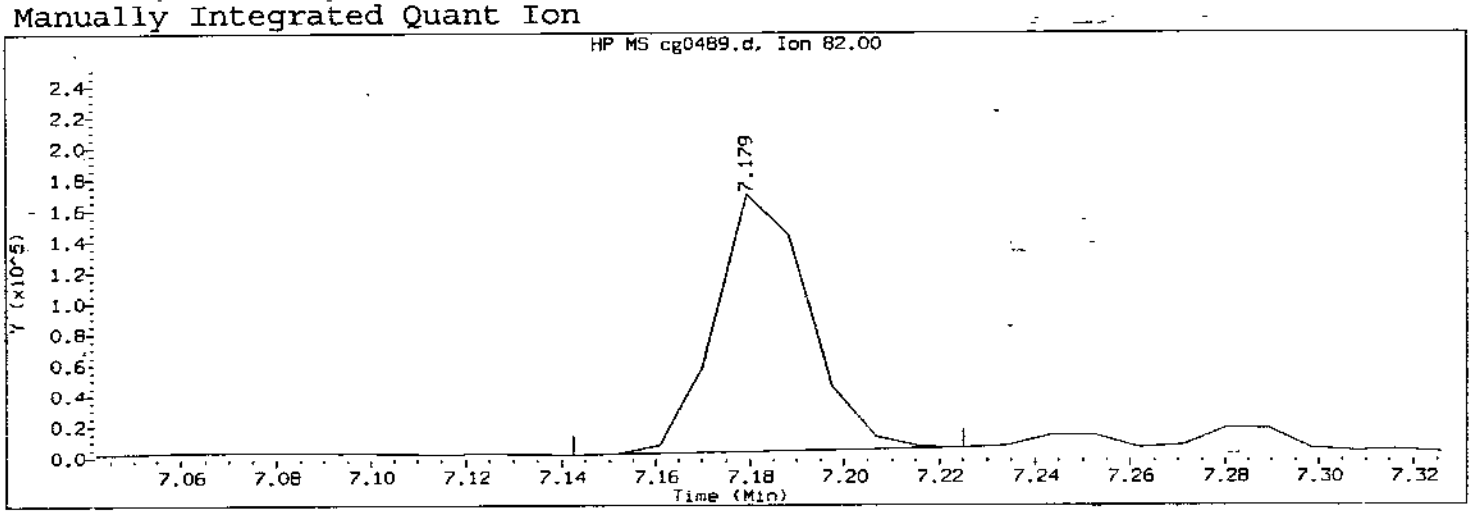
M = Compound was manually integrated. A = User selected an alternate hit.

USF83 8284

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0489.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 11:05 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:14 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339386

Compound Number	: 10		
Compound Name	: Nitrobenzene-d5		
Scan Number	: 615		
Retention Time (minutes)	: 7.179		
Quant Ion	: 82		
Area (flag)	: 229462	M	
Concentration (ng/ul)	: 1.1145		
Integration start scan	: 610	Integration stop scan:	619
Y at integration start	: 1672	Y at integration end:	6153

Reason for manual integration (circle one): missed peak improper integration

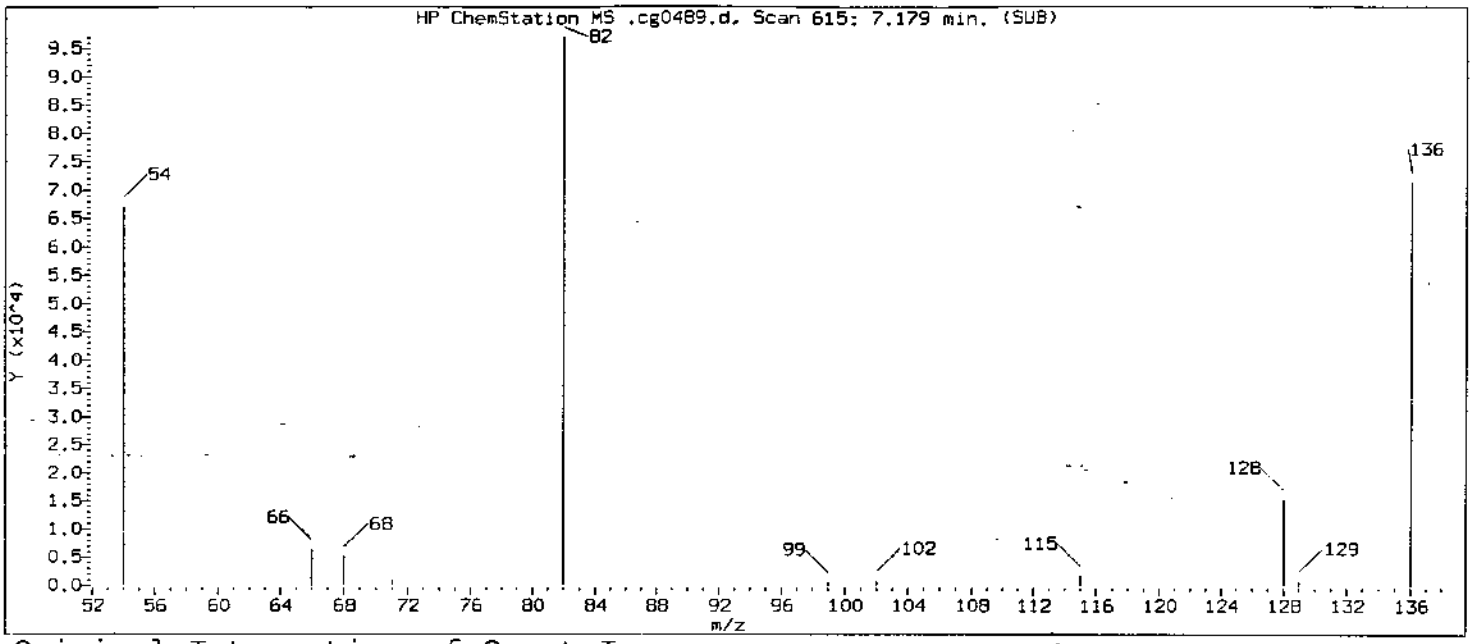
Analyst responsible for change: _____
Mark A. Ratcliff
Senior Specialist
Greg Drahovsky
Senior Chemist
JUL 15 2011

GC/MS audit/management approval: _____ JUL 19 2011

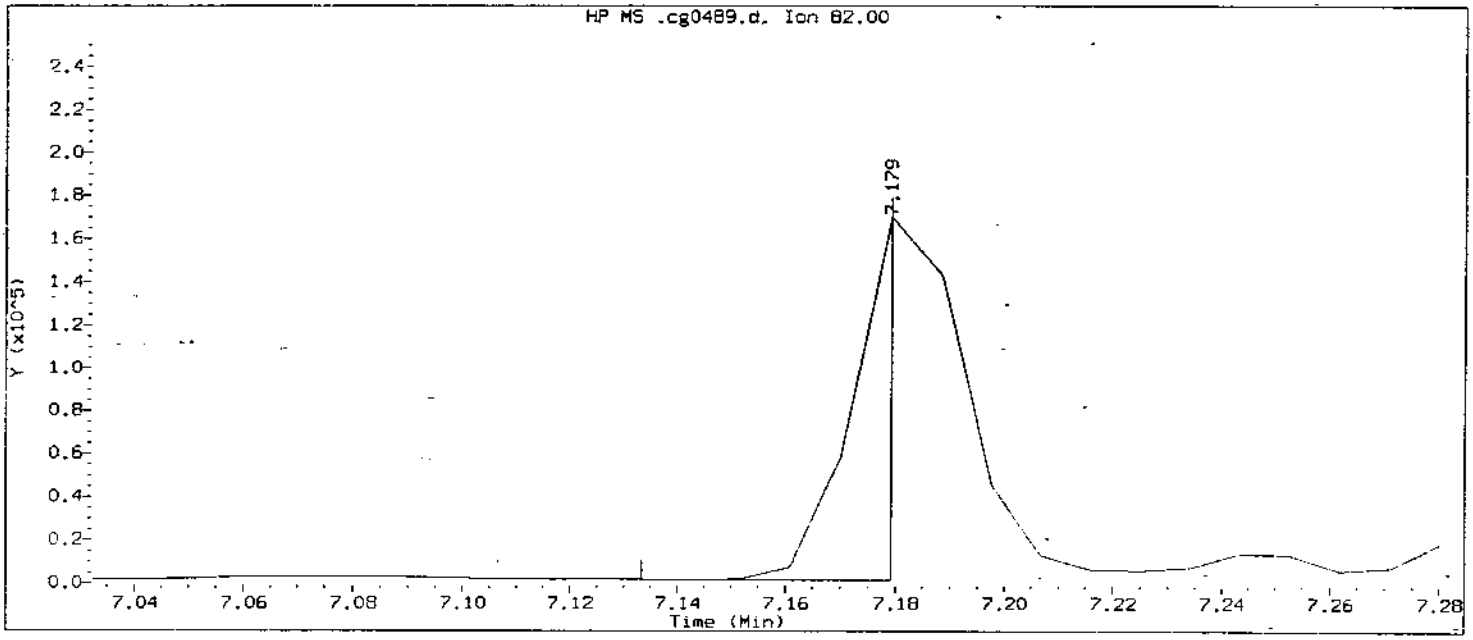
USF03 8285

Manual Integration Report for data file /chem/HP10623.i/11jul15.b/cg0489.d, generated on 07/15/2011 at 14:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0489.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 11:05 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 11:30 Automation

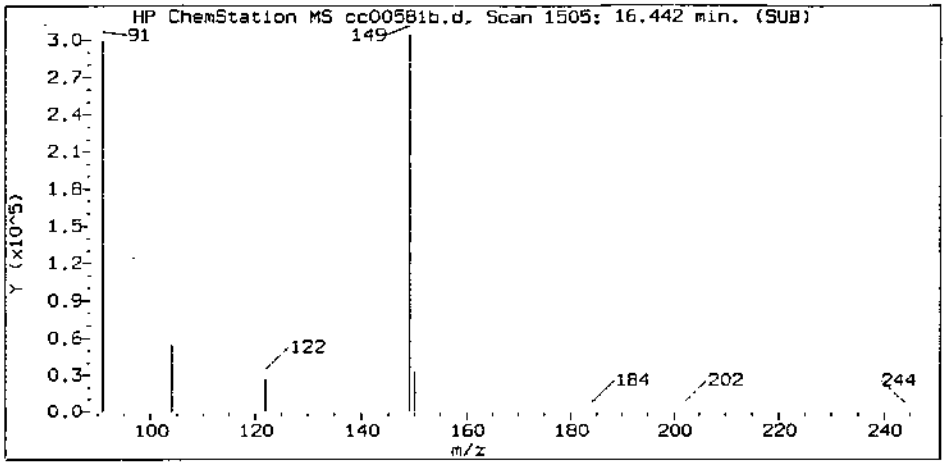
Sample Name:. XXXXX Lab Sample ID: 6339386

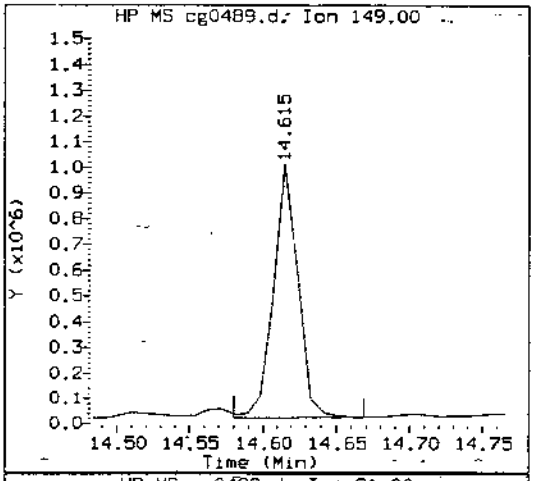
Compound Number	: 10	
Compound Name	: Nitrobenzene-d5	
Scan Number	: 615	
Retention Time (minutes)	: 7.179	
Quant Ion	: 82	
Area	: 80796	
Concentration (ng/ul)	: 0.3924	
Integration start scan	: 609	Integration stop scan: 614
Y at integration start	: 1824	Y at integration end: 1811

USF03 0706

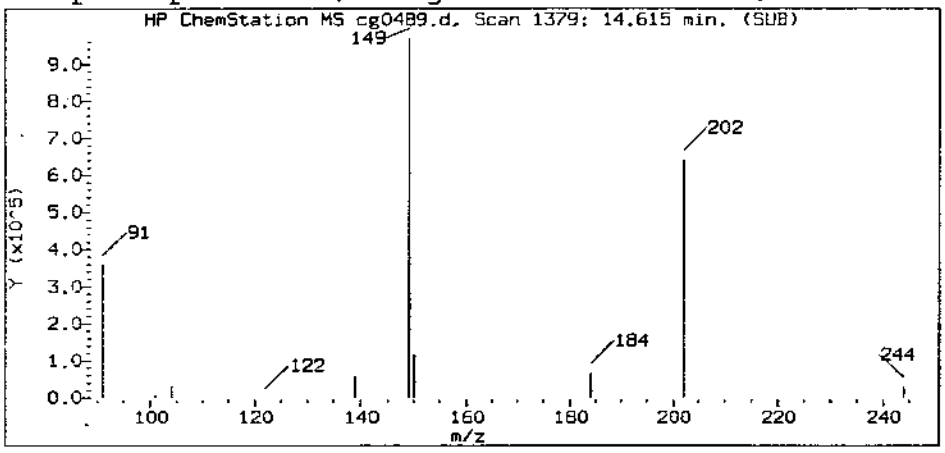
Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0489.d, generated on 07/15/2011 at 14:14

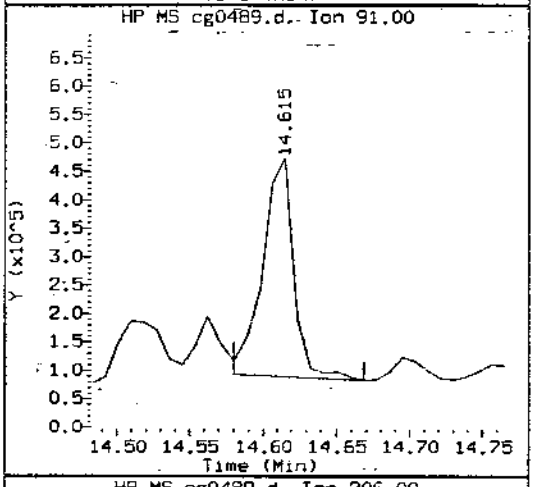
Reference Standard Spectrum for Butylbenzylphthalate



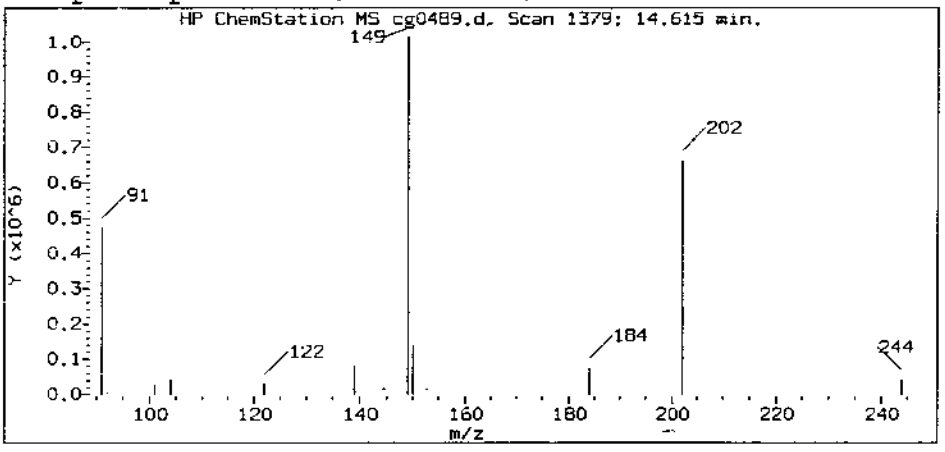


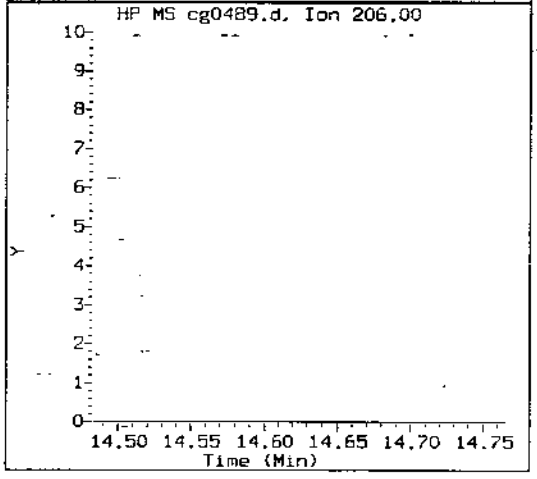
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0489.d
Injection date and time: 15-JUL-2011 11:05

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:14 gjd01970

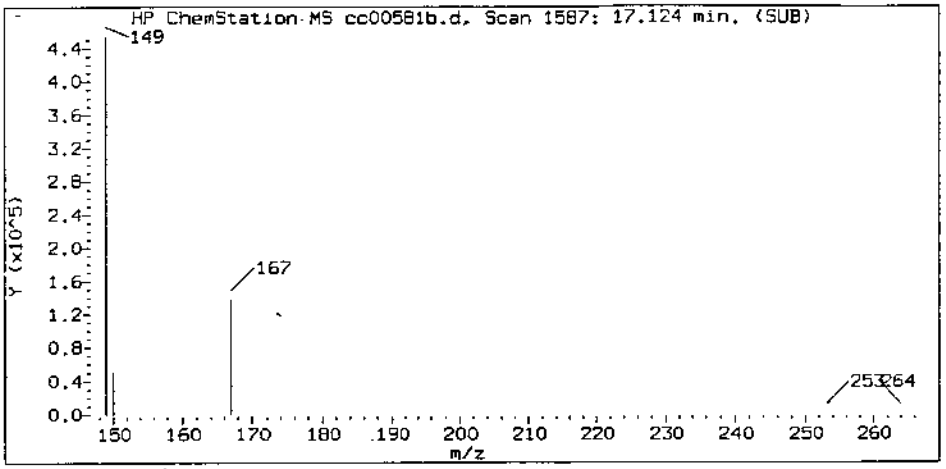
Sample Name: XXXXX

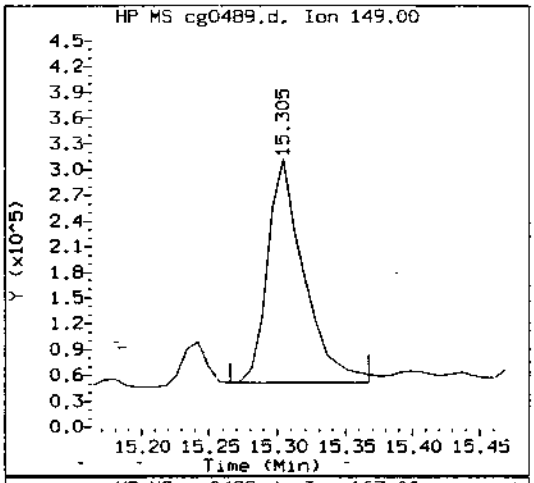
Lab Sample ID: 6339386

Compound Number	:	39
Compound Name	:	Butylbenzylphthalate
Scan Number	:	1379
Retention Time (minutes)	:	14.615
Quant Ion	:	149.0
Area (flag)	:	1173979
Concentration (ng/ul)	:	2.3820

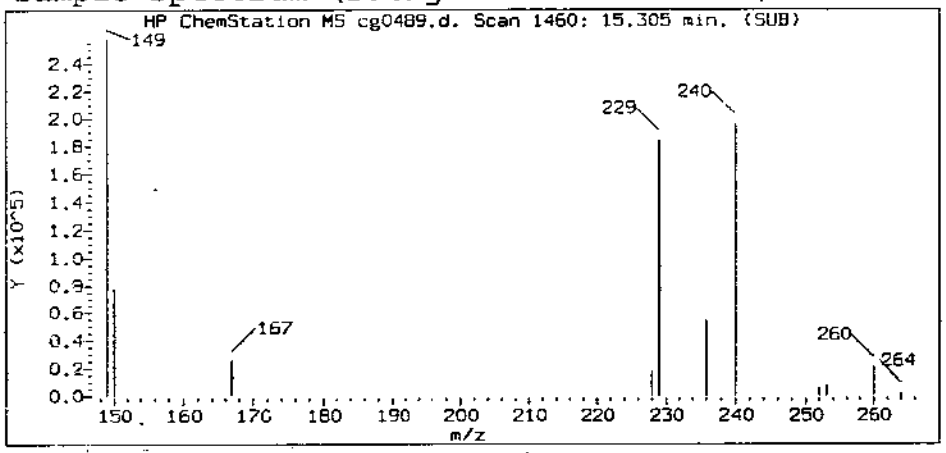
USP03 0787

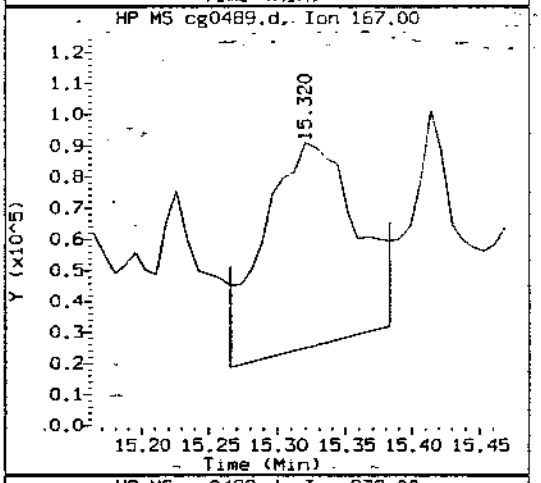
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



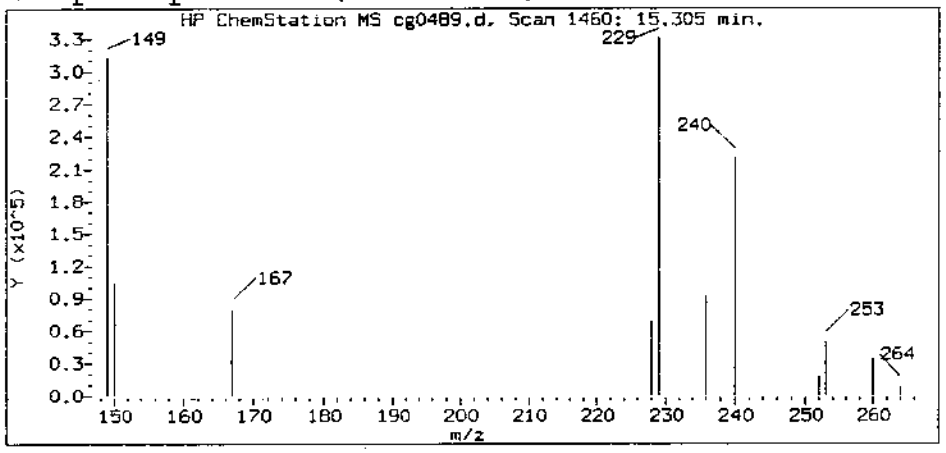


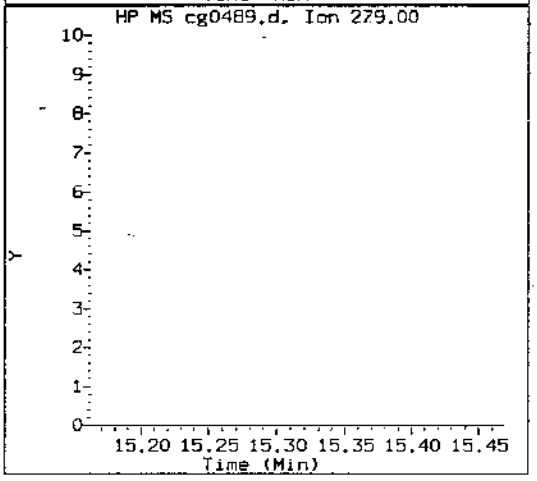
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul15.b/cg0489.d
Injection date and time: 15-JUL-2011 11:05

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:14 gjd01970

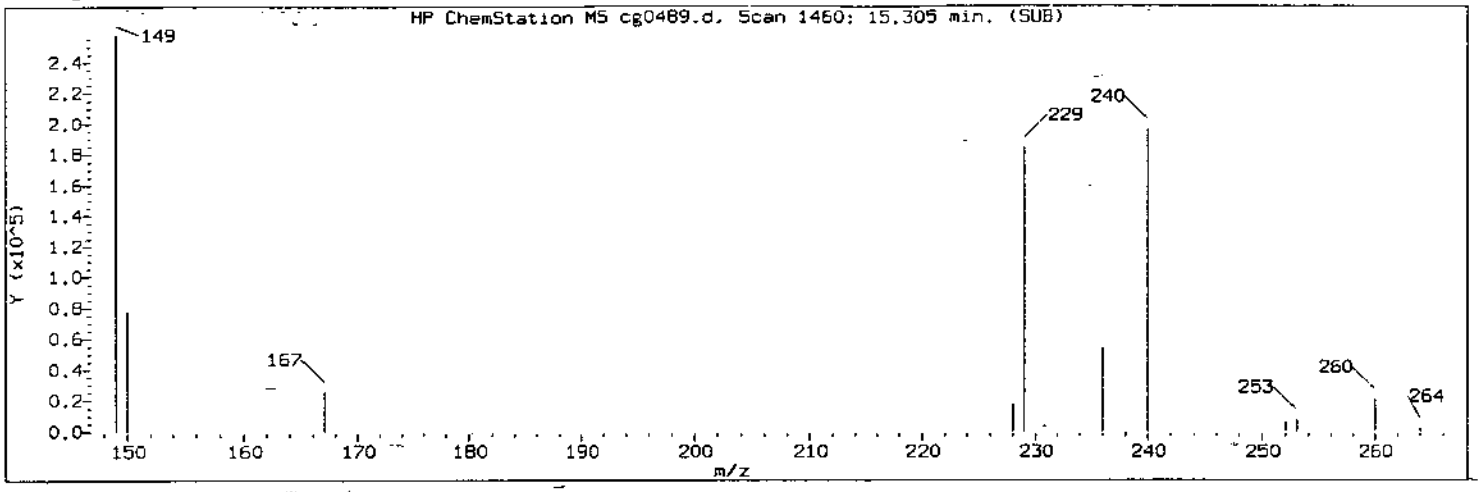
Sample Name: XXXXX

Lab Sample ID: 6339386

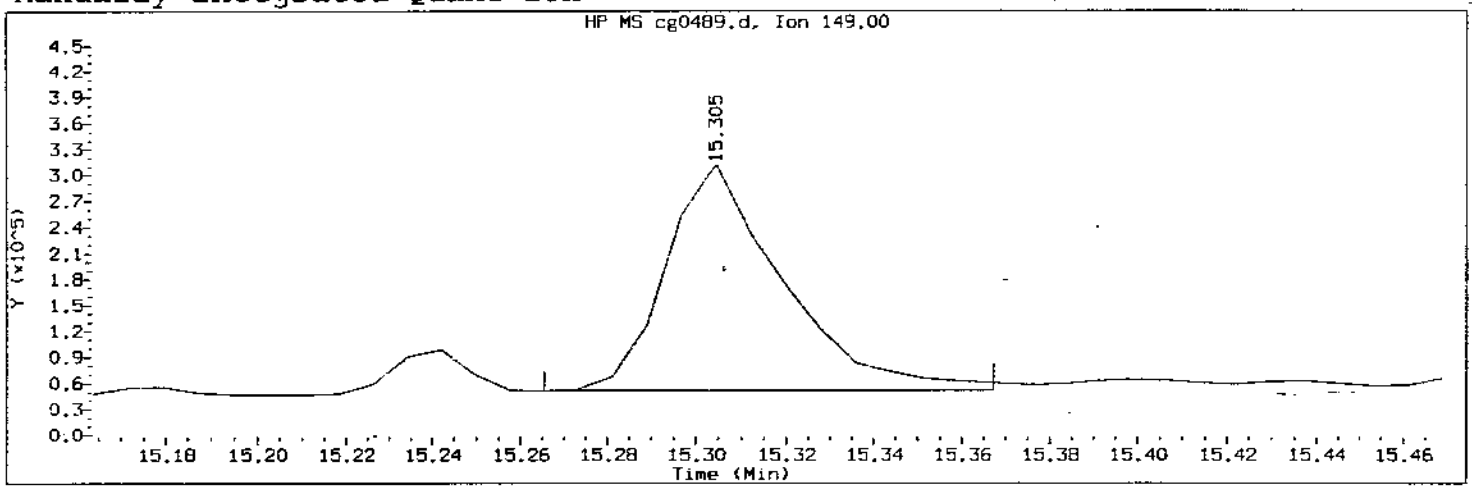
Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1460
Retention Time (minutes)	: 15.305
Quant Ion	: 149.0
Area (flag)	: 475590 M
Concentration (ng/ul)	: 0.7555

USF03 6788

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0489.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 11:05 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 15-JUL-2011 12:06
Date, time and analyst ID of latest file update: 15-Jul-2011 14:14 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339386

Compound Number	: 40	
Compound Name	: bis(2-Ethylhexyl)phthalate	
Scan Number	: 1460	
Retention Time (minutes)	: 15.305	
Quant Ion	: 149	
Area (flag)	: 475590	M
Concentration (ng/ul)	: 0.7555	
Integration start scan	: 1454	Integration stop scan: 1467
Y at integration start	: 51578	Y at integration end: 51578

Reason for manual integration (circle one): missed peak improper integration

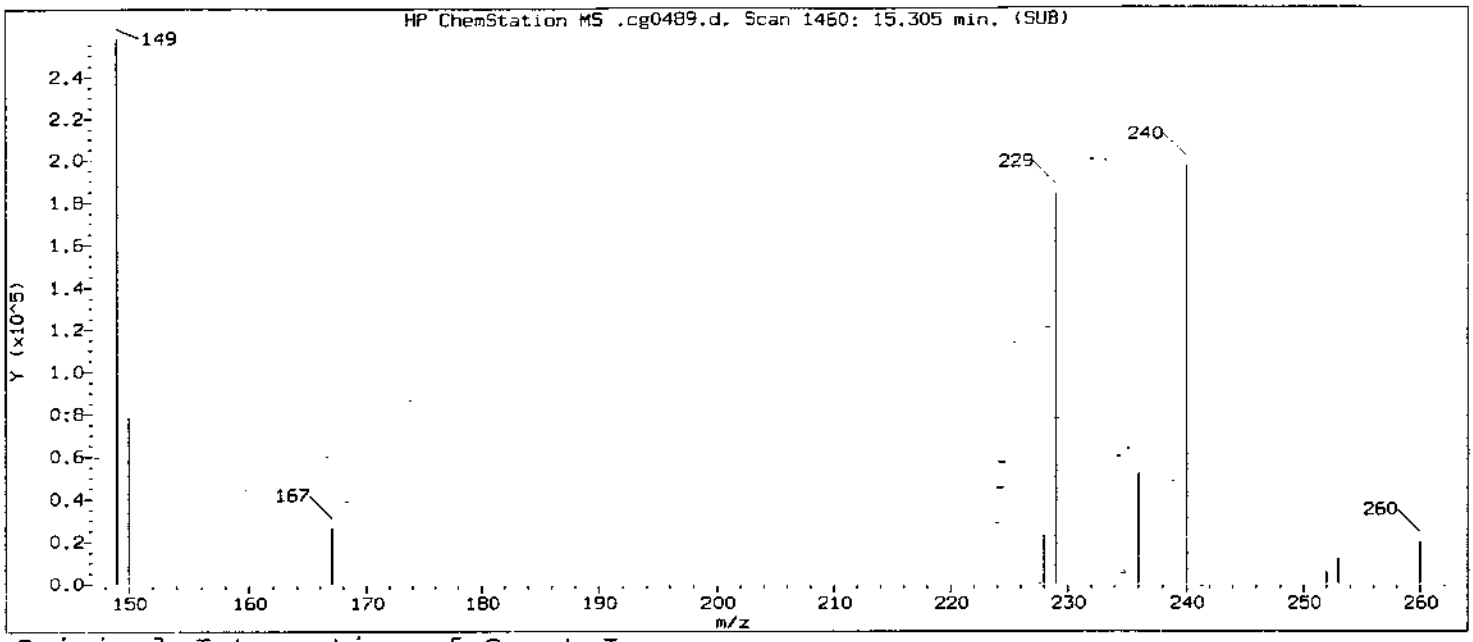
Analyst responsible for change: Greg Drahovsky Senior Chemist JUL 15 2011

GC/MS audit/management approval: Mark A. Ratcliff Senior Specialist JUL 19 2011

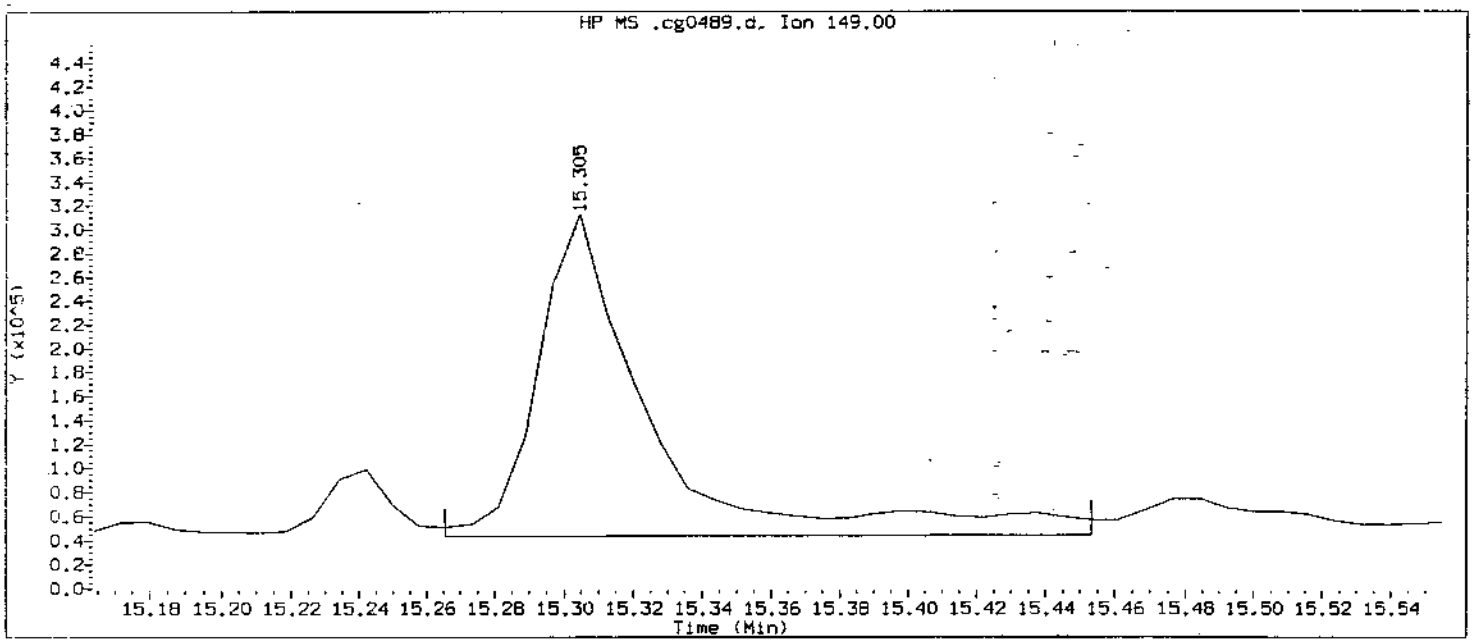
USF03 8789

Manual Integration Report for data file /chem/HP10623.i/11jul15.b/cg0489.d, generated on 07/15/2011 at 14:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul15.b/cg0489.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 11:05 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 15-JUL-2011 07:35
Date, time and analyst ID of latest file update: 15-Jul-2011 11:30 Automation

Sample Name: XXXXX Lab Sample ID: 6339386

Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1460
Retention Time (minutes)	: 15.305
Quant Ion	: 149
Area	: 610405
Concentration (ng/ul)	: 0.9305
Integration start scan	: 1454 Integration stop scan: 1478
Y at integration start	: 43260 Y at integration end: 44524

USP83 8795

Original Integration Report for data file /chem/HP10623.i/11jul15.b/cg0489.d, generated on 07/15/2011 at 14:14

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

6339388

Data file: /chem/HP10623.i/11jul14.b/cg0438.d Blank Data file reference:/chem/HP10623.i/11jul14.b/cg0433.d
Injection date and time: 14-JUL-2011 11:08 Instrument ID: HP10623.i Batch: 11192WAG
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time (Last Method Edit): 14-JUL-2011 12:07
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14.b/cg0431.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1014.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.537(0.009)	545	152.0	143681(-9)	1.00	
12) Naphthalene-d8	8.051(0.000)	710	136.0	575120(-8)	1.00	
19) Acenaphthene-d10	10.200(0.000)	911	164.0	302821(-8)	1.00	
30) Phenanthrene-d10	12.033(0.000)	1097	188.0	459622(-12)	1.00	
42) Chrysene-d12	15.305(0.000)	1460	240.0	352157(-18)	1.00	
49) Perylene-d12	17.080(0.000)	1687	264.0	291902(-19)	1.00	

R = RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.188(0.000)	82	215758	1.053	105%		64 - 147
17) 2-Fluorobiphenyl	(3)	9.371(0.000)	172	350064	0.946	95%		68 - 132
38) Terphenyl-d14	(5)	14.007(0.000)	244	251805	1.028	103%		53 - 129

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)	8.079(0.000)	128	31499	0.051	0.05			0.03
14) 2-Methylnaphthalene	(2)			Below MDL,	Do not report				0.01
16) 1-Methylnaphthalene	(2)			Below MDL,	Do not report				0.01
18) Acenaphthylene	(3)			Below MDL,	Do not report				0.01
20) Dimethylphthalate	(3)			Below MDL,	Do not report				0.05
21) Acenaphthene	(3)			Below MDL,	Do not report				0.01
22) Diethylphthalate	(3)	10.718(0.000)	149	85138	0.225	0.22	0.06	B	0.05
23) Fluorene	(3)	10.872(0.000)	166	4006	0.011	0.01			0.01
31) Phenanthrene	(4)			Below MDL,	Do not report				0.03
32) Anthracene	(4)			Below MDL,	Do not report				0.01
33) Di-n-butylphthalate	(4)	12.744(0.000)	149	39318	0.250	0.25	0.23	B	0.05
35) Fluoranthene	(4)			Below MDL,	Do not report				0.01
37) Pyrene	(5)			Below MDL,	Do not report				0.01
39) Butylbenzylphthalate	(5)	14.598(0.000)	149	3527	0.141	0.14			0.05
40) bis(2-Ethylhexyl)phthalate	(5)	15.297(0.000)	149	40654	0.244	0.24	0.17	B	0.05
41) Benzo(a)anthracene	(5)			Below MDL,	Do not report				0.01
43) Chrysene	(5)			Below MDL,	Do not report				0.01
44) Di-n-octylphthalate	(6)			ND	ND				0.05
45) Benzo(b)fluoranthene	(6)			Below MDL,	Do not report				0.01
46) Benzo(k)fluoranthene	(6)			Below MDL,	Do not report				0.01
48) Benzo(a)pyrene	(6)			Below MDL,	Do not report				0.01
51) Indeno(1,2,3-cd)pyrene	(6)			ND	ND				0.01
52) Dibenz(a,h)anthracene	(6)			ND	ND				0.01
53) Benzo(g,h,i)perylene	(6)			ND	ND				0.01

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USP&G 8791

XXXXX

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

6339388

Data file: /chem/HP10623.i/11jul14.b/cg0438.d Blank Data file reference:/chem/HP10623.i/11jul14.b/cg0433.d
Injection date and time: 14-JUL-2011 11:08 Instrument ID: HP10623.i Batch: 11192WAG
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

Method used: /chem/HP10623.i/11jul14.b/m11pah_2sim.m Sublist used: WList6910
Calibration date and time (Last Method Edit): 14-JUL-2011 12:07
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14.b/cg0431.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1014.0 ml Final Extract Volume (Vt): 1000 ul

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WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 24

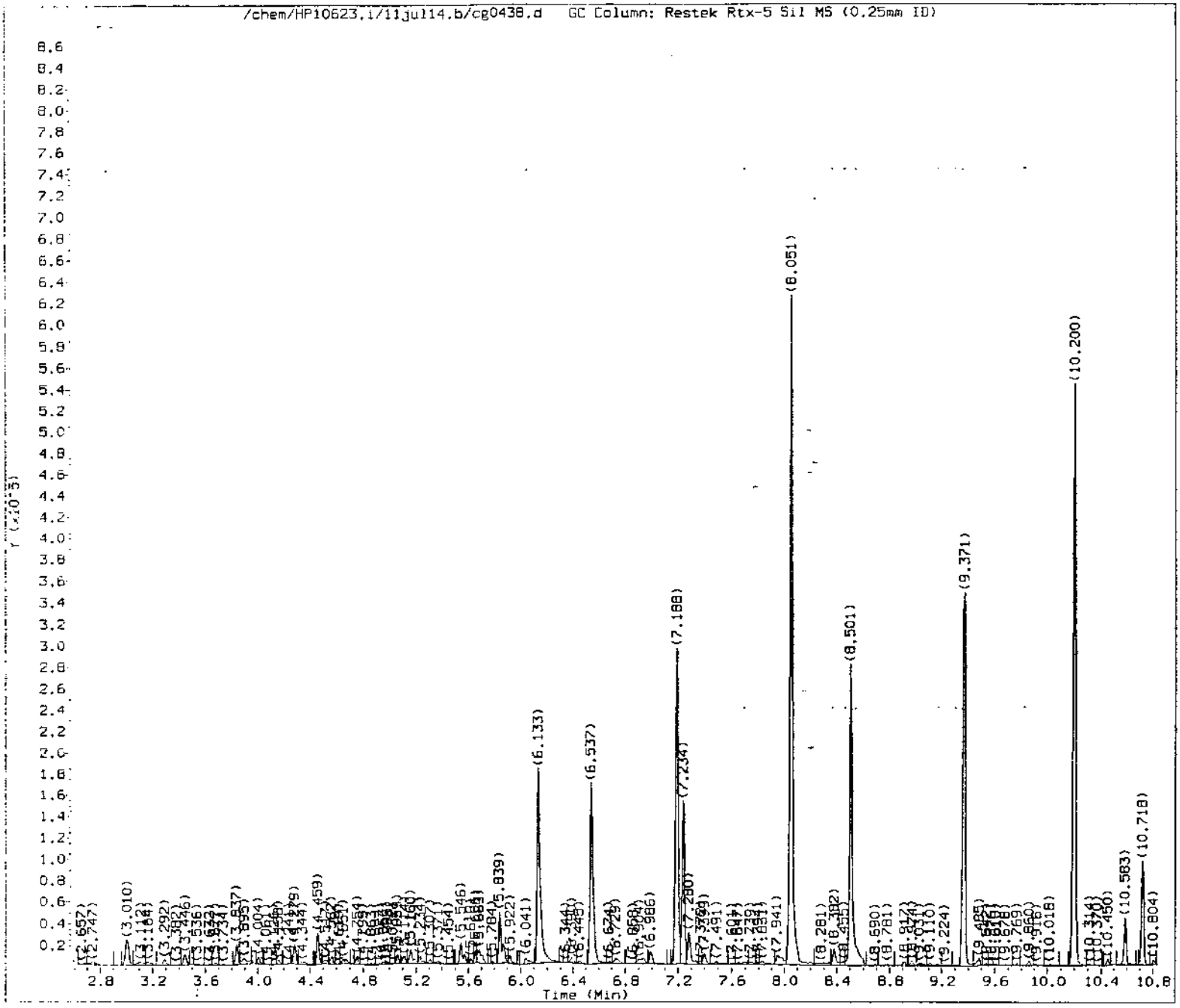
Comments:

Greg Drahovsky
Senior Chemist

Analyst: Date: JUL 14 2011
Auditor: Date: JUL 16 2011

Matthew E. Barton
Senior Specialist

USP03 6792.



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0438.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 11:08 Analyst ID: jmg00346

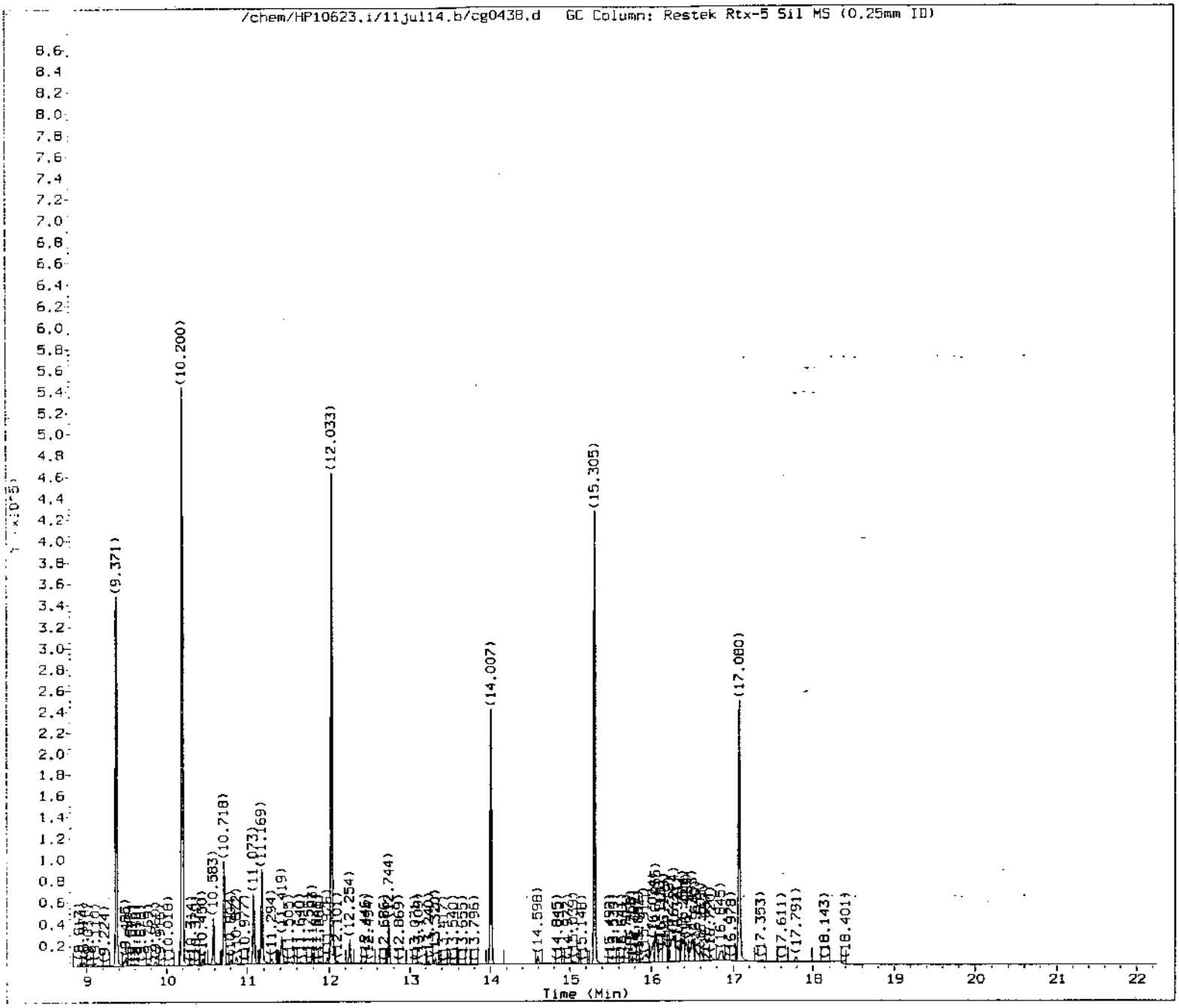
Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339388

USF03 0793

Greg Drahovsky
Senior Chemist

JUL 14 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0438.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 11:08 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/m1lpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339388

Greg Drabovsky
Senior Chemist

USEPA 8794

JUL 14 2011

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0438.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 11:08 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

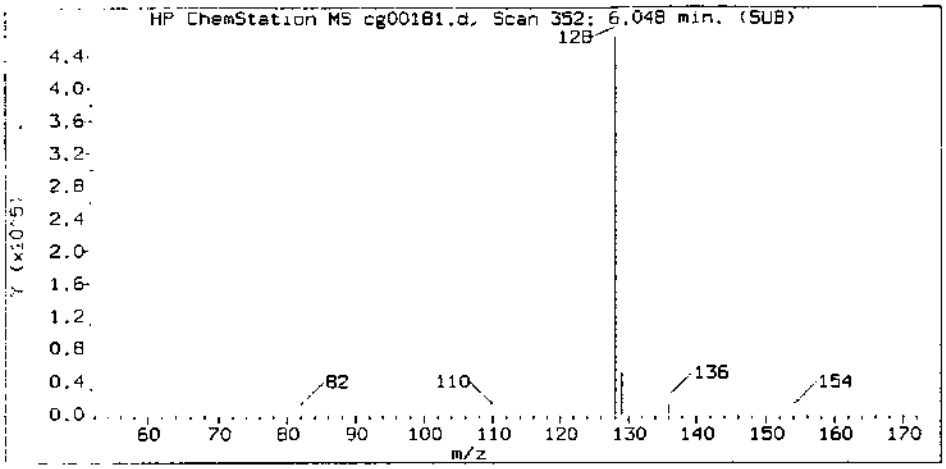
Sample Name: XXXXX Lab Sample ID: 6339388

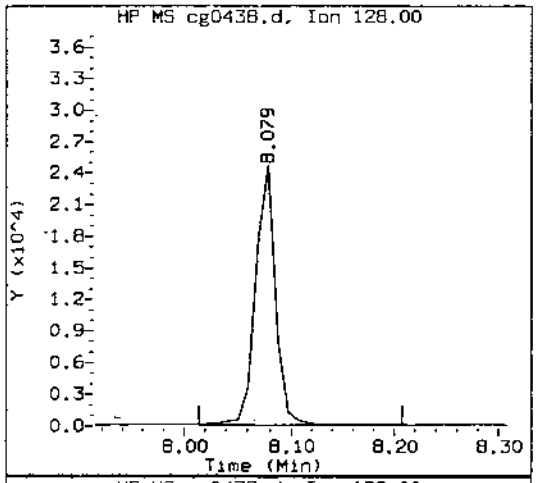
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.537	152	143681	1.0000
12) Naphthalene-d8	(2)	8.051	136	575120	1.0000
13) Naphthalene	(2)	8.079	128	31499	0.0510
19) Acenaphthene-d10	(3)	10.200	164	302821	1.0000
22) Diethylphthalate	(3)	10.718	149	85138	0.2246
23) Fluorene	(3)	10.872	166	4006M	0.0107
30) Phenanthrene-d10	(4)	12.033	188	459622	1.0000
33) Di-n-butylphthalate	(4)	12.744	149	39318	0.2497
39) Butylbenzylphthalate	(5)	14.598	149	3527M	0.1406
40) bis(2-Ethylhexyl)phthalate	(5)	15.297	149	40654	0.2435
42) Chrysene-d12	(5)	15.305	240	352157	1.0000
49) Perylene-d12	(6)	17.080	264	291902	1.0000
10) Nitrobenzene-d5	(2)	7.188	82	215758	1.0529
17) 2-Fluorobiphenyl	(3)	9.371	172	350064	0.9463
38) Terphenyl-d14	(5)	14.007	244	251805	1.0283

M = Compound was manually integrated. A = User selected an alternate hit

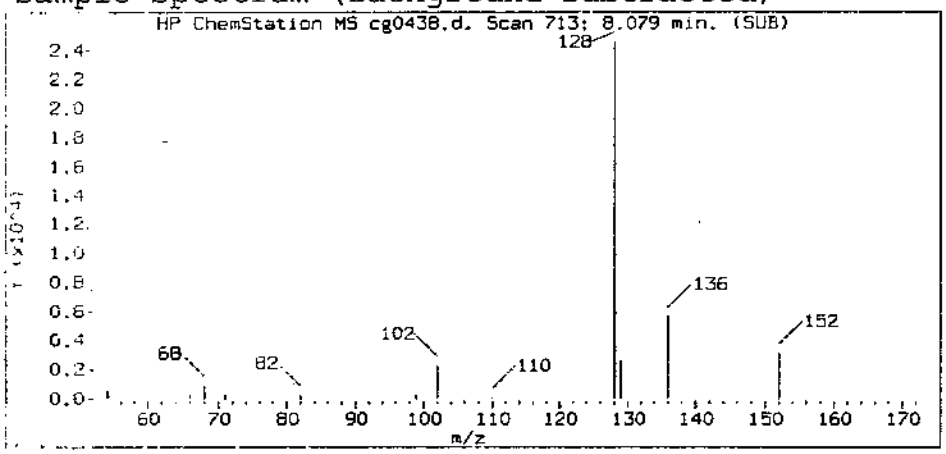
USF03 8795

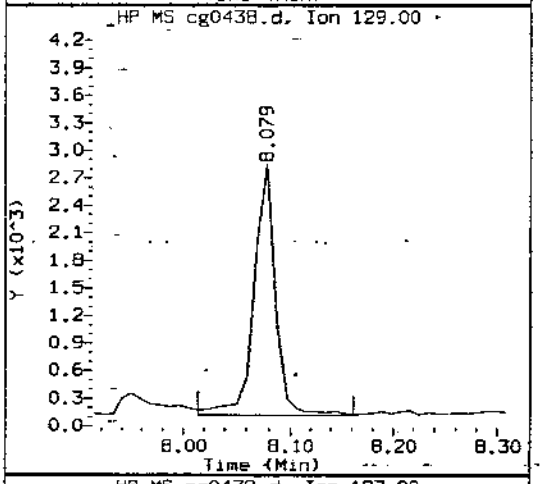
Reference Standard Spectrum for Naphthalene



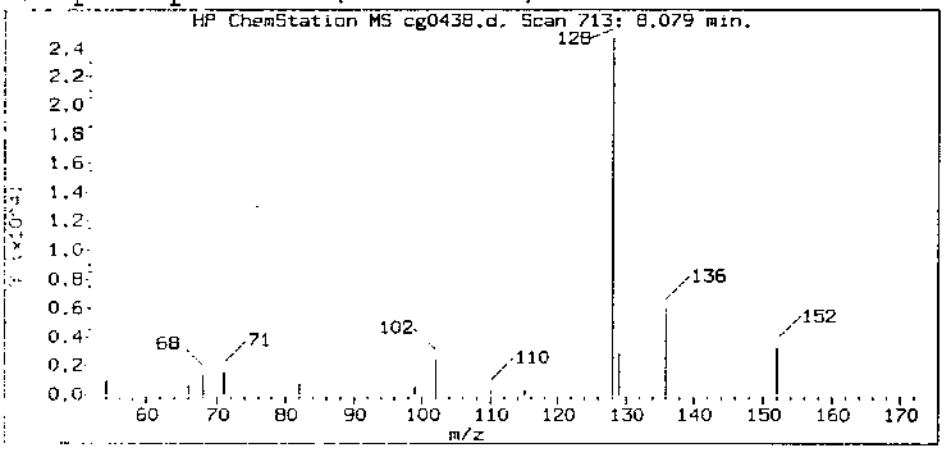


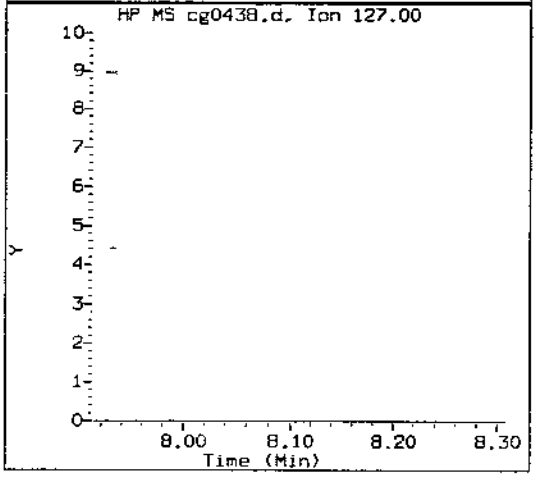
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14.b/cg0438.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 11:08 Analyst ID: jmg00346

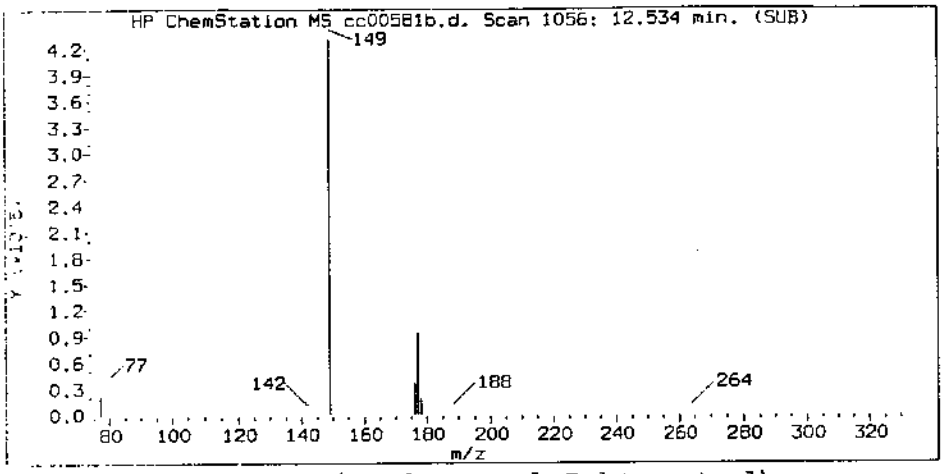
Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

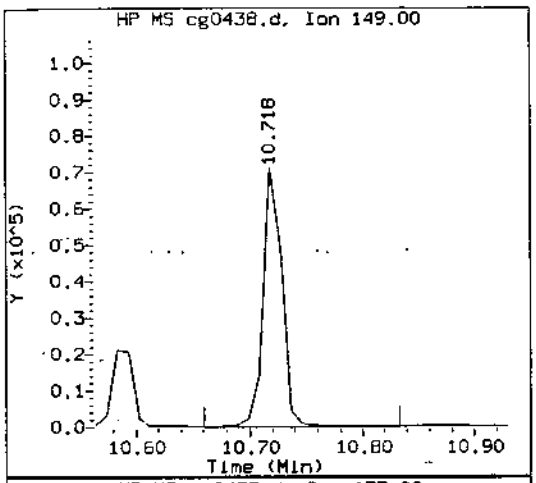
Sample Name: XXXXX Lab Sample ID: 6339388

Compound Number	: 13
Compound Name	: Naphthalene
Scan Number	: 713
Retention Time (minutes)	: 8.079
Quant Ion	: 128.0
Area (flag)	: 31499
Concentration (ng/ul)	: 0.0510

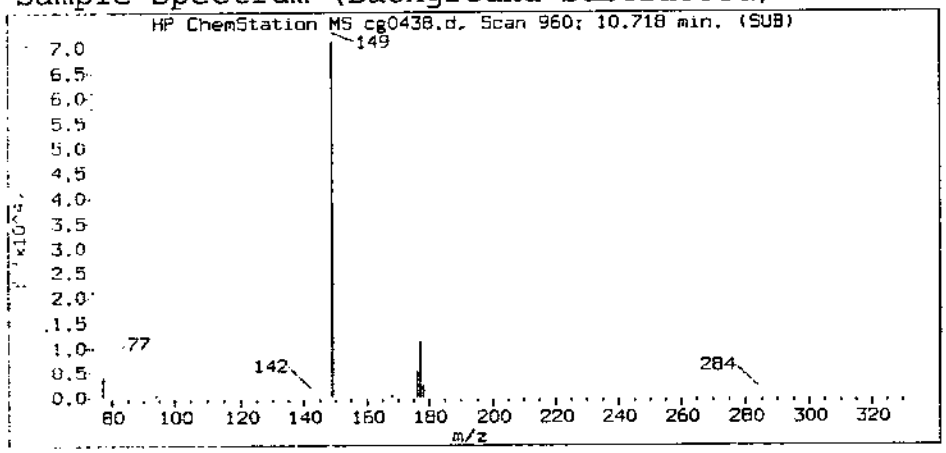
USTB3 0296

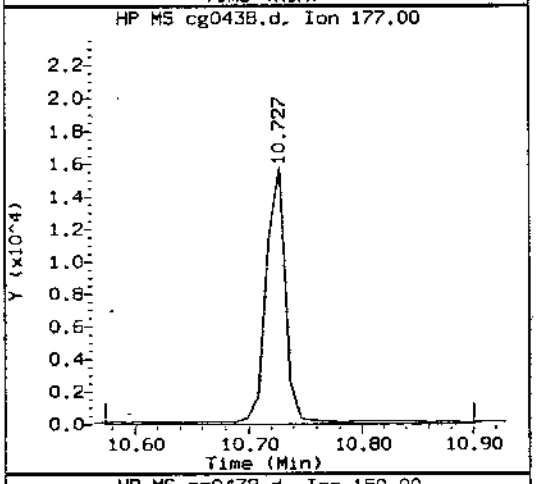
Reference Standard Spectrum for Diethylphthalate



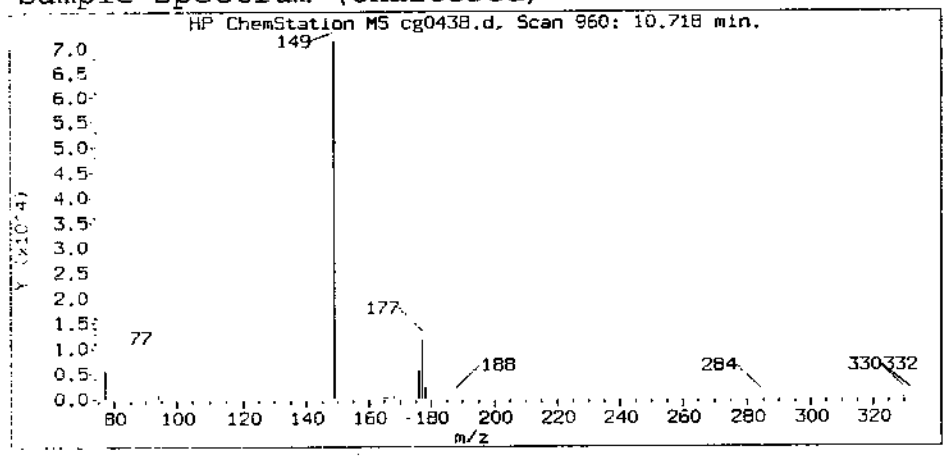


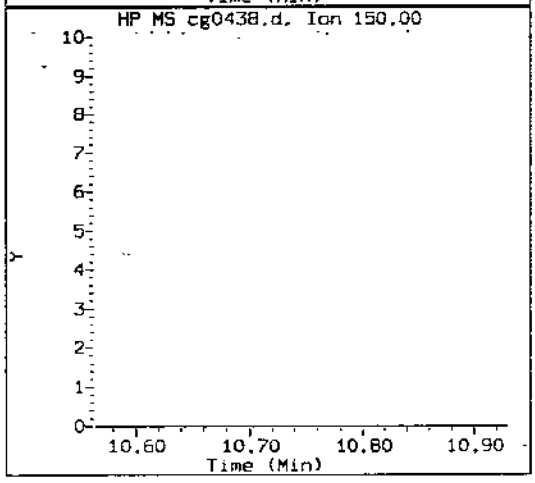
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14.b/cg0438.d
Injection date and time: 14-JUL-2011 11:08

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

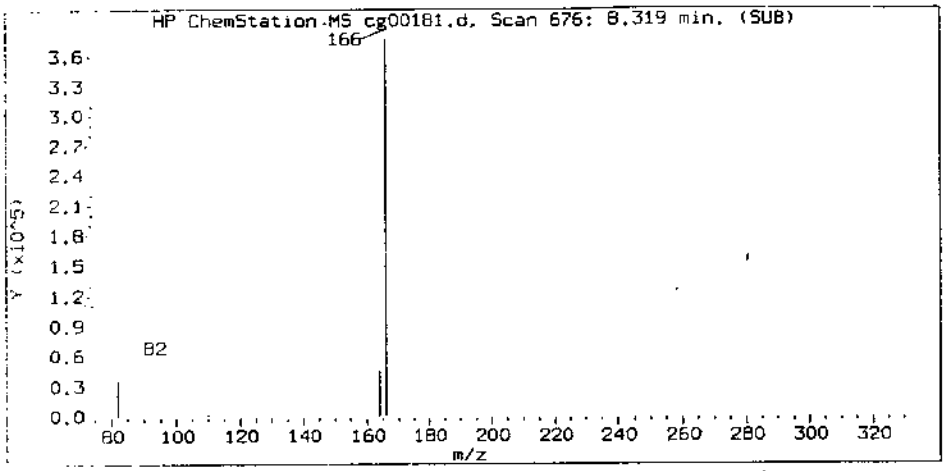
Sample Name: XXXXX

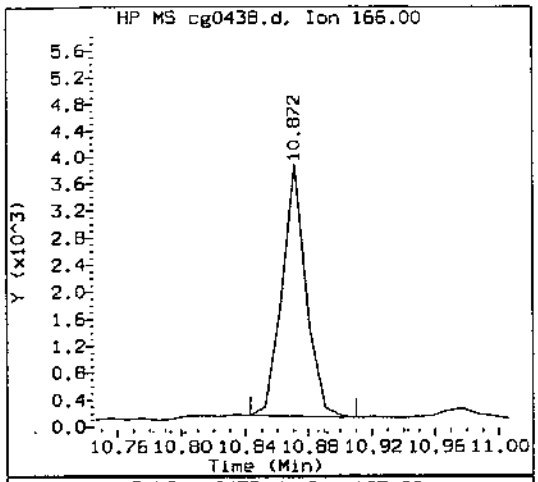
Lab Sample ID: 6339388

Compound Number	: 22
Compound Name	: Diethylphthalate
Scan Number	: 960
Retention Time (minutes)	: 10.718
Quant Ion	: 149.0
Area (flag)	: 85138
Concentration (ng/ul)	: 0.2246

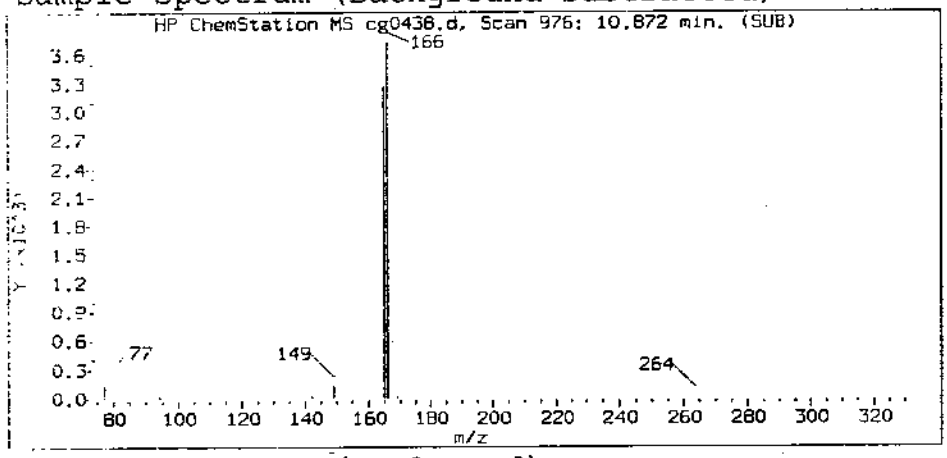
USP83 8797

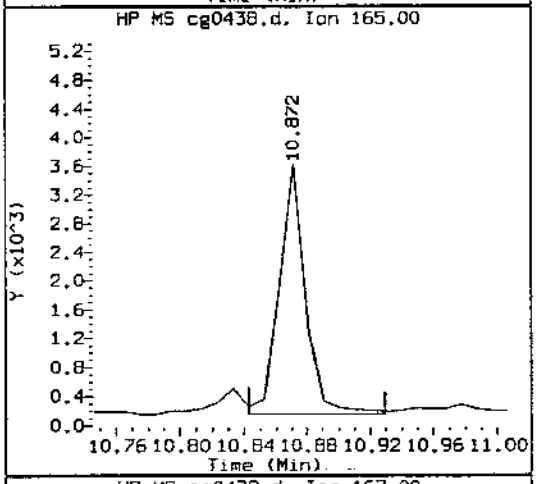
Reference Standard Spectrum for Fluorene



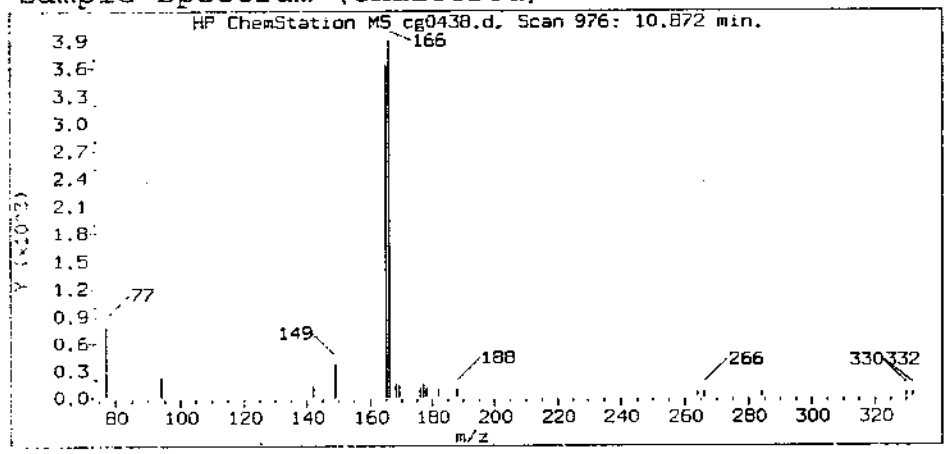


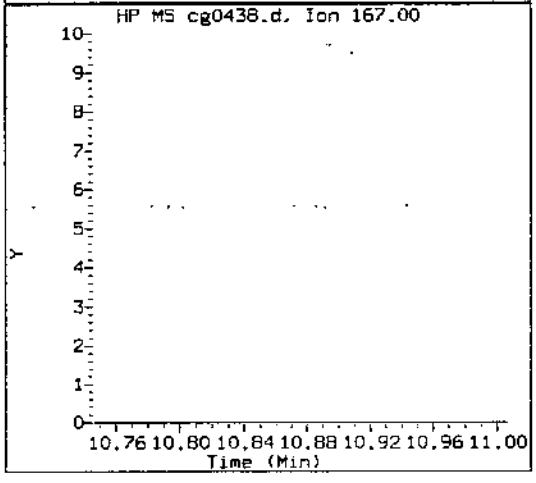
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14.b/cg0438.d
Injection date and time: 14-JUL-2011 11:08

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

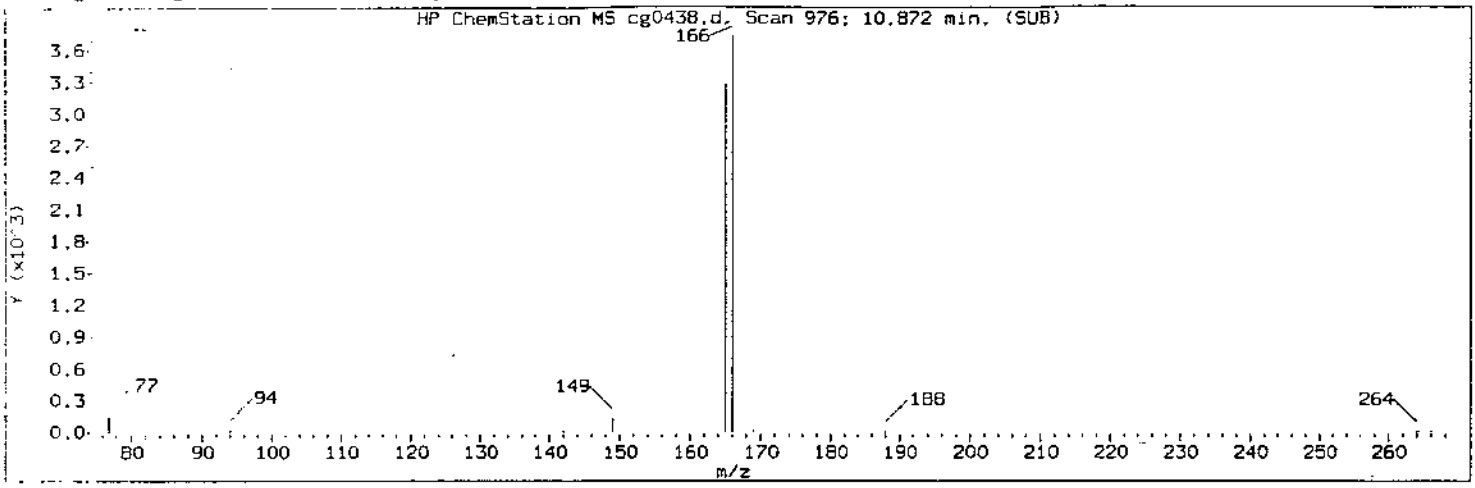
Sample Name: XXXXX

Lab Sample ID: 6339388

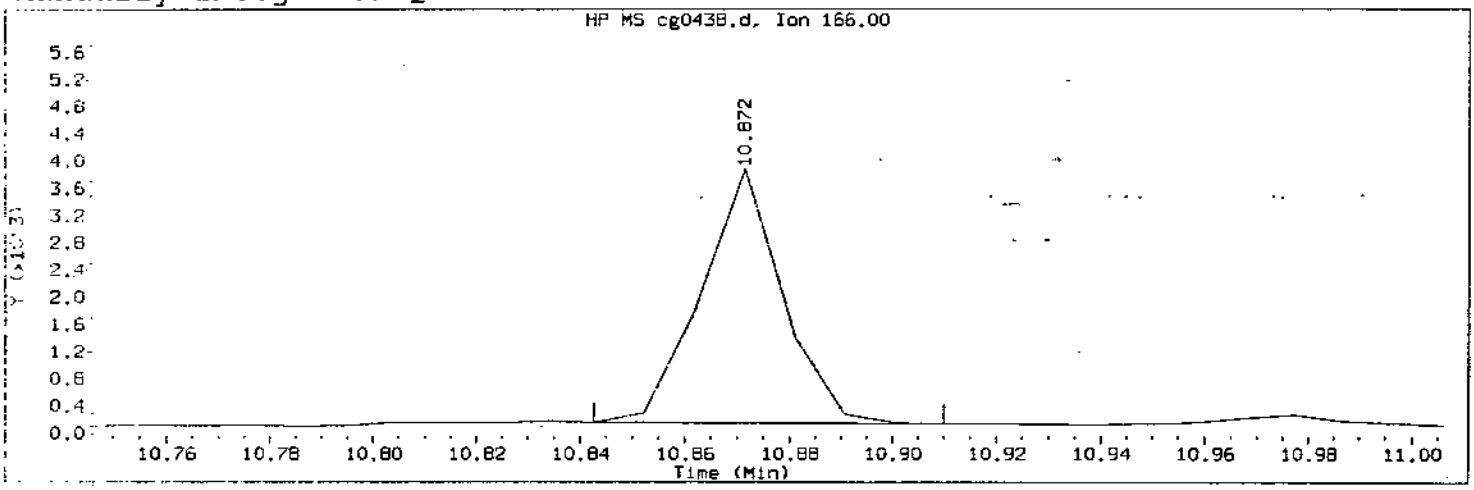
Compound Number	: 23
Compound Name	: Fluorene
Scan Number	: 976
Retention Time (minutes)	: 10.872
Quant Ion	: 166.0
Area (flag)	: 4006 M
Concentration (ng/ul)	: 0.0107

USF83 8798

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14.b/cg0438.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 11:08 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339388

Compound Number : 23
Compound Name : Fluorene
Scan Number : 976
Retention Time (minutes): 10.872
Quant Ion : 166
Area (flag) : 4006 M
Concentration (ng/ul) : 0.0107
Integration start scan : 972 Integration stop scan: 979
Y at integration start : 166 Y at integration end: 146

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Greg J. Grabovsky Senior Chemist

GC/MS audit/management approval: JUL 14 2011

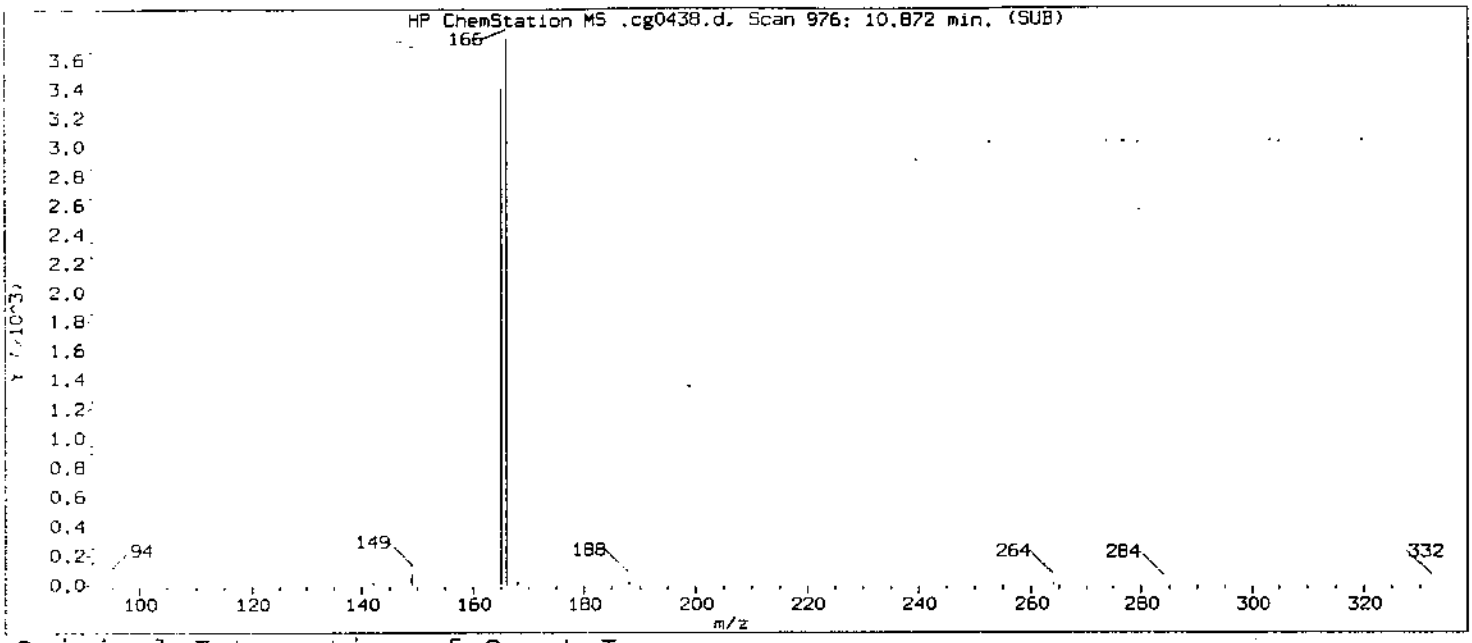
USEPA 8799

JUL 15 2011

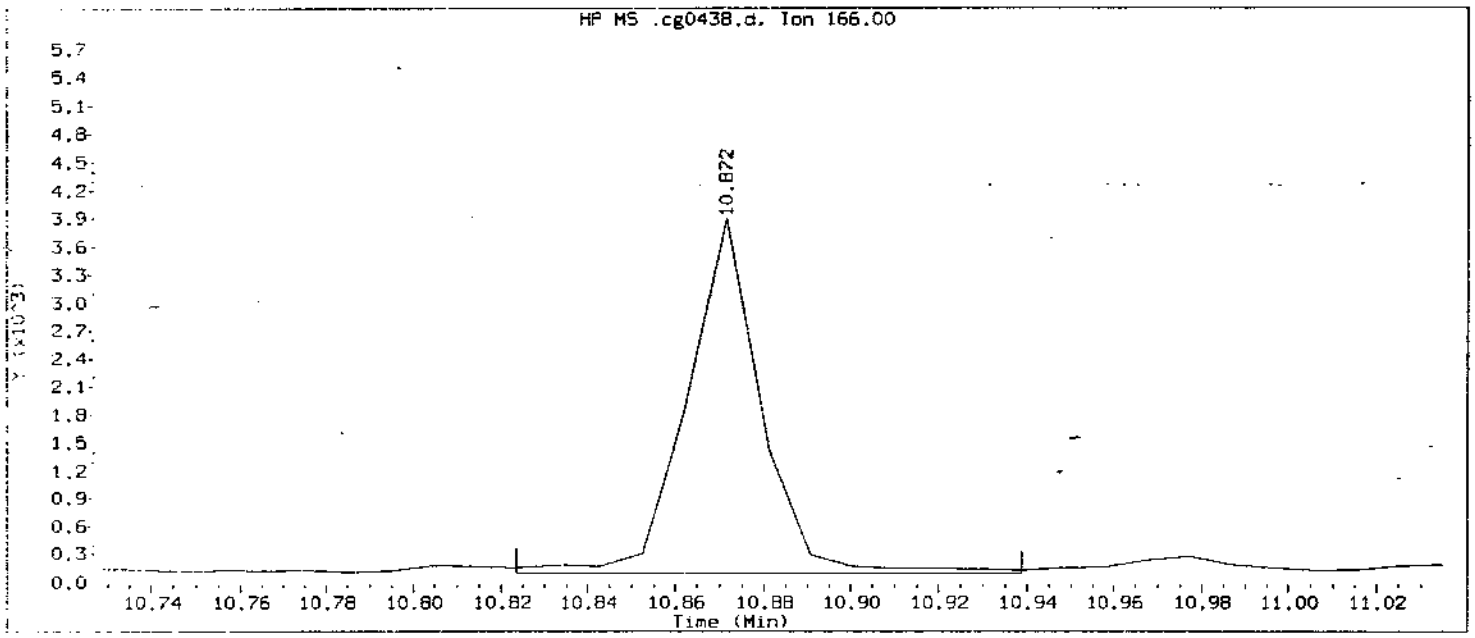
Manual Integration Report for data file /chem/HP10623.i/11jul14.b/cg0438.d, generated on 07/14/2011 at 14:47

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14.b/cg0438.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 11:08 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 11:33 Automation

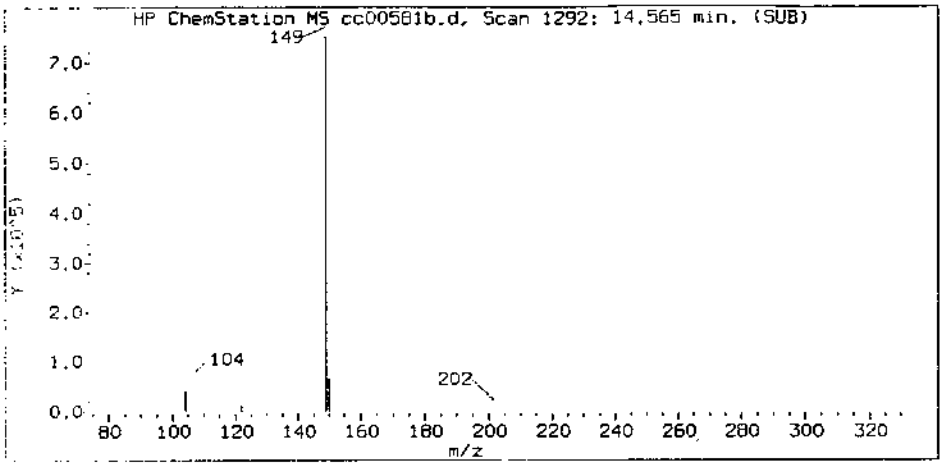
Sample Name: XXXXX Lab Sample ID: 6339388

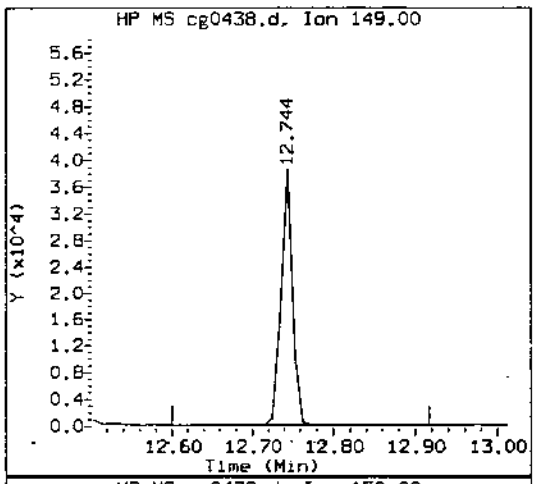
Compound Number	:	23
Compound Name	:	Fluorene
Scan Number	:	976
Retention Time (minutes)	:	10.872
Quant Ion	:	166
Area	:	4453
Concentration (ng/ul)	:	0.0119
Integration start scan	:	970
Integration stop scan	:	982
Y at integration start	:	91
Y at integration end	:	91

USF03 0008

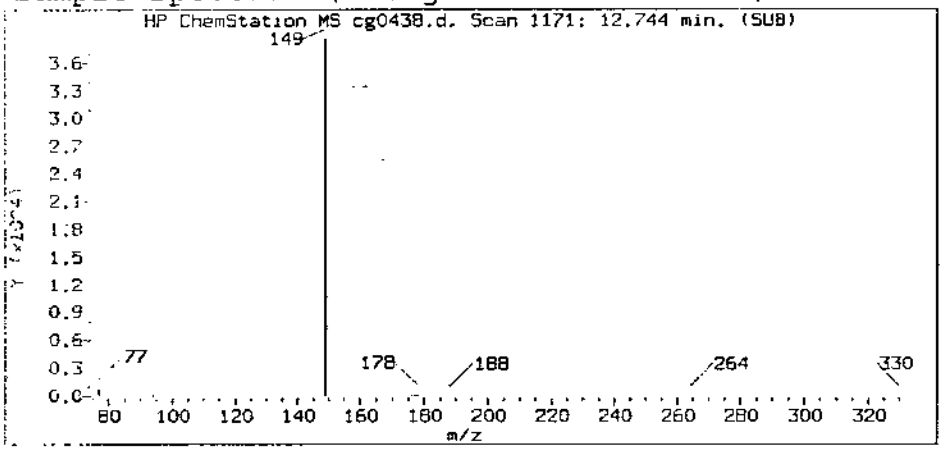
Original Integration Report for data file /chem/HP10623.i/11jul14.b/cg0438.d, generated on 07/14/2011 at 14:47

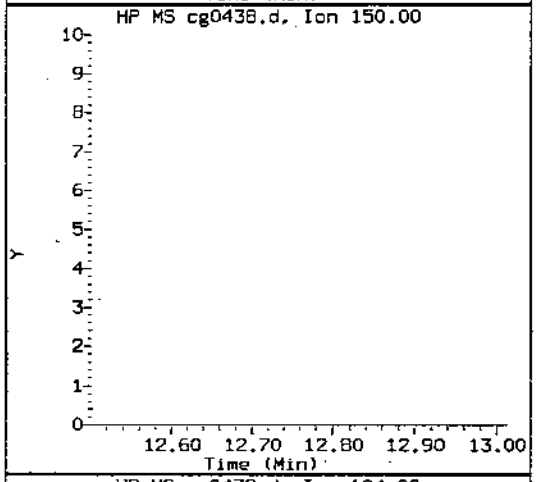
Reference Standard Spectrum for Di-n-butylphthalate



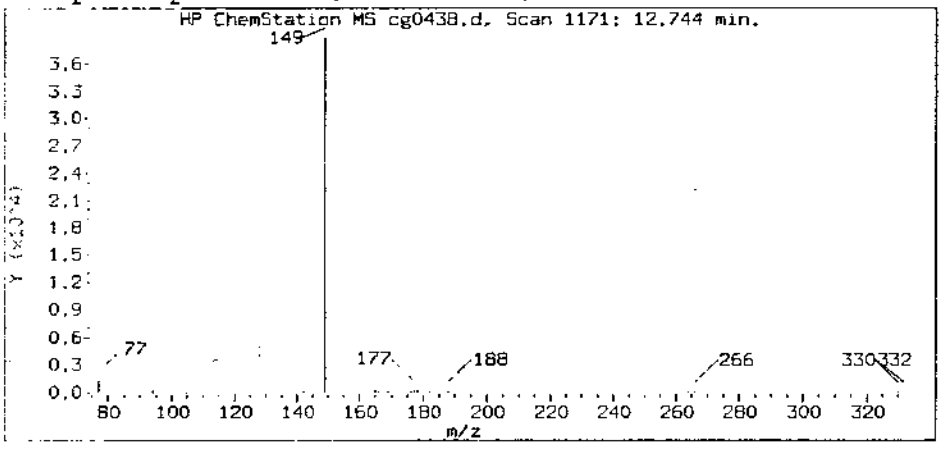


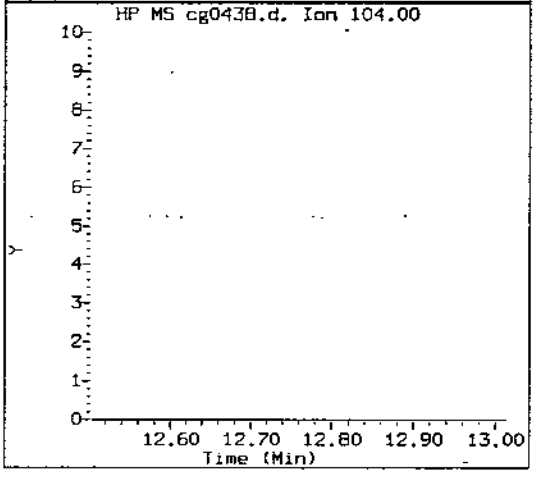
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14.b/cg0438.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 11:08 Analyst ID: jmg00346

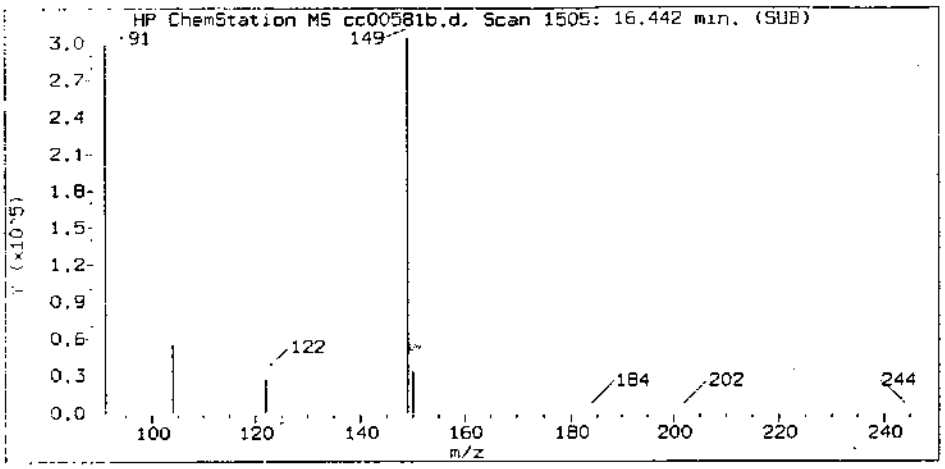
Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

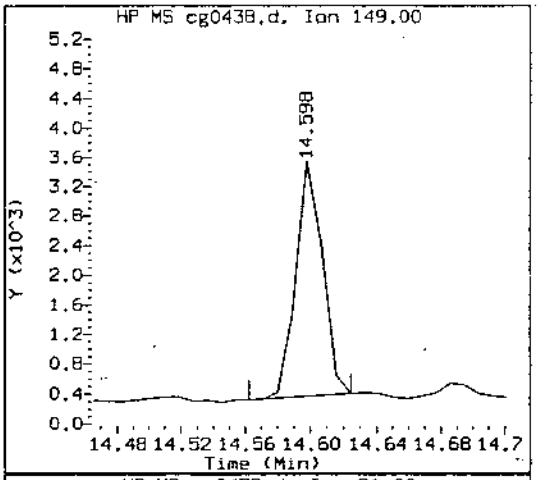
Sample Name: XXXXX Lab Sample ID: 6339388

Compound Number	: 33
Compound Name	: Di-n-butylphthalate
Scan Number	: 1171
Retention Time (minutes)	: 12.744
Quant Ion	: 149.0
Area (flag)	: 39318
Concentration (ng/ul)	: 0.2497

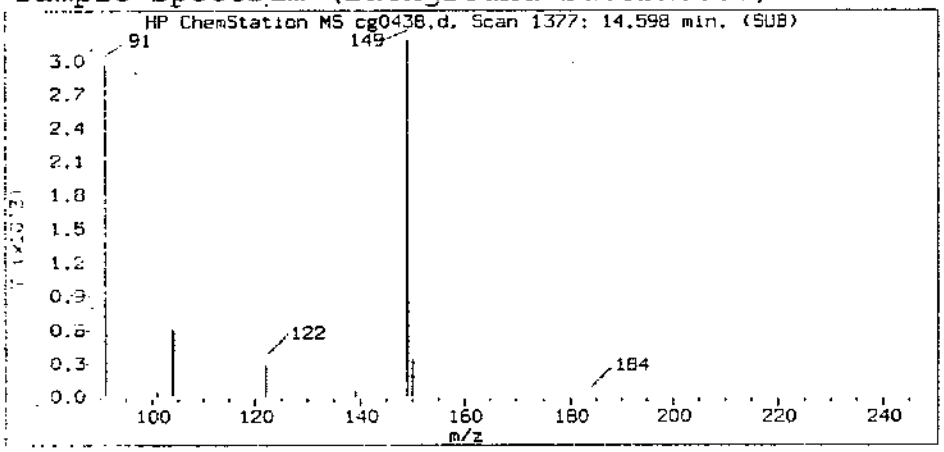
USF03 8081

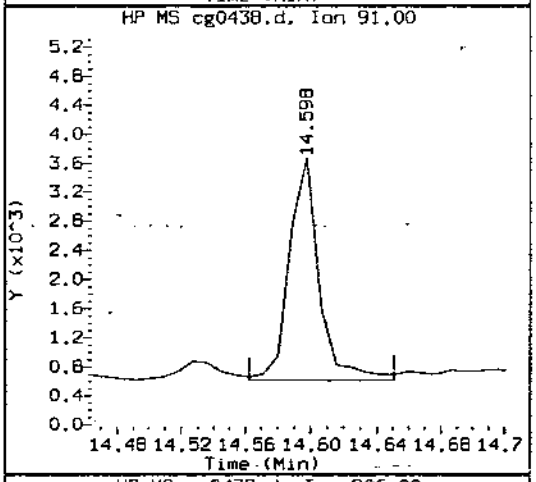
Reference Standard Spectrum for Butylbenzylphthalate



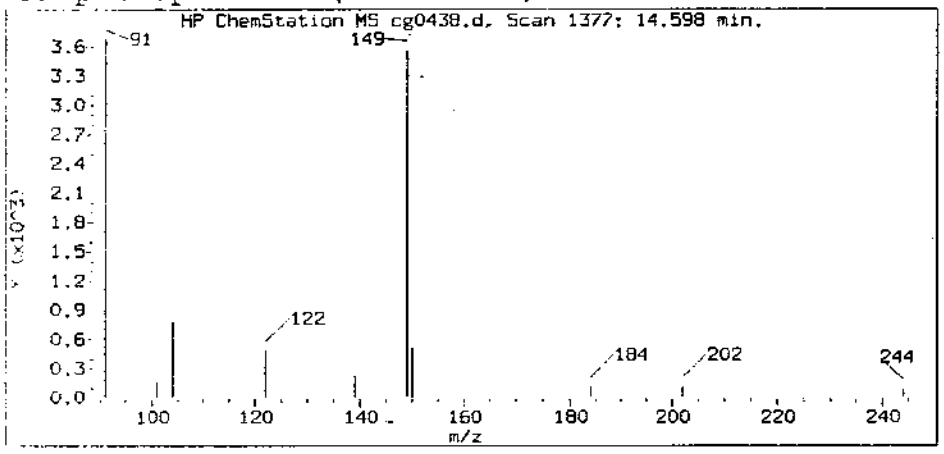


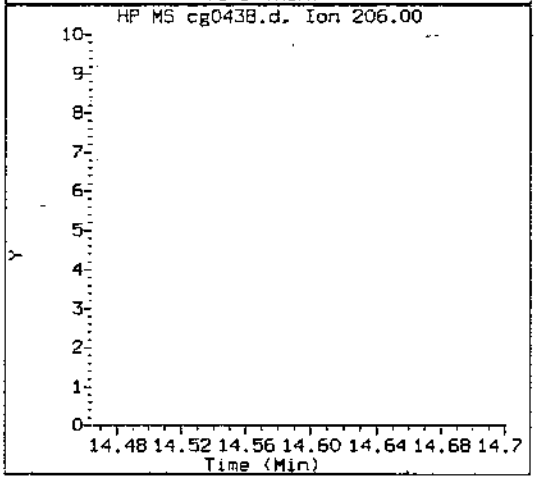
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14.b/cg0438.d
Injection date and time: 14-JUL-2011 11:08

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/m11pah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

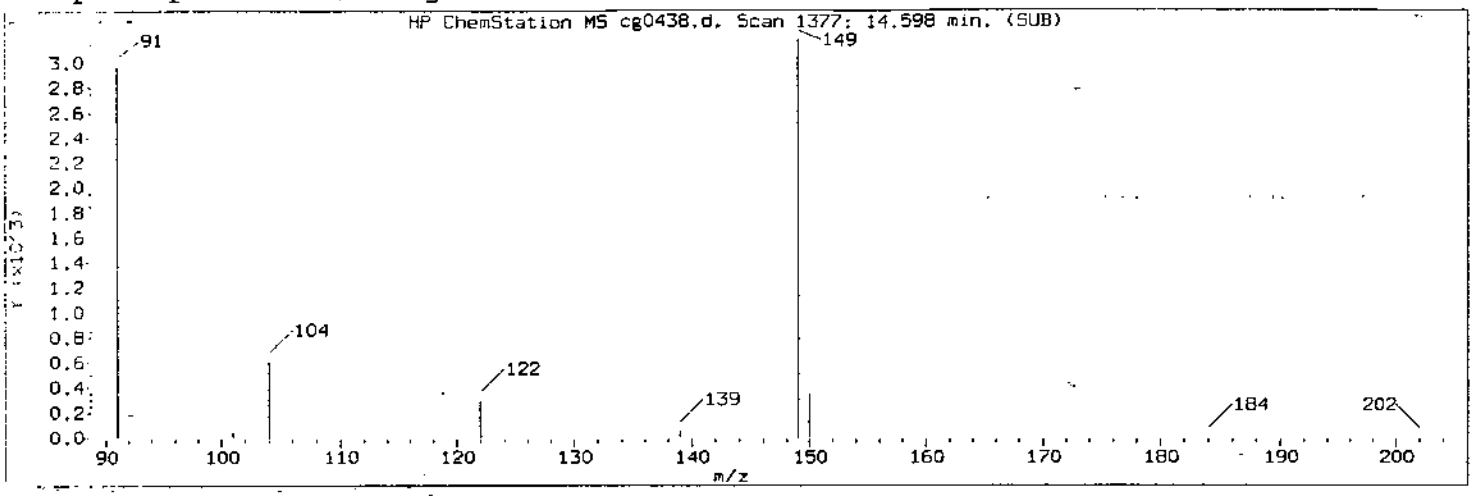
Sample Name: XXXXX

Lab Sample ID: 6339388

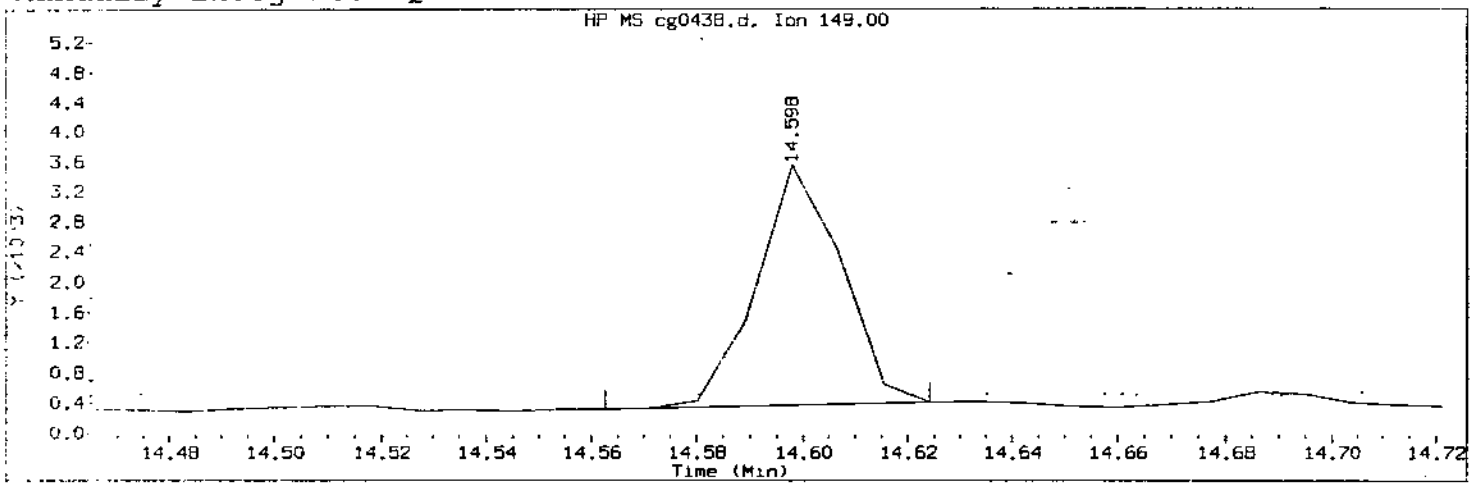
Compound Number	:	39
Compound Name	:	Butylbenzylphthalate
Scan Number	:	1377
Retention Time (minutes)	:	14.598
Quant Ion	:	149.0
Area (flag)	:	3527 M
Concentration (ng/ul)	:	0.1406

USF53 0002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14.b/cg0438.d Instrument ID:- HP10623.i
Injection date and time: 14-JUL-2011 11:08 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

Sample Name: XXXXX Lab Sample ID: 6339388

Compound Number	:	39
Compound Name	:	Butylbenzylphthalate
Scan Number	:	1377
Retention Time (minutes)	:	14.598
Quant Ion	:	149
Area (flag)	:	3527 M
Concentration (ng/ul)	:	0.1406
Integration start scan	:	1372 Integration stop scan: 1379
Y at integration start	:	323 Y at integration end: 410

Reason for manual integration (circle one): missed peak (improper integration)

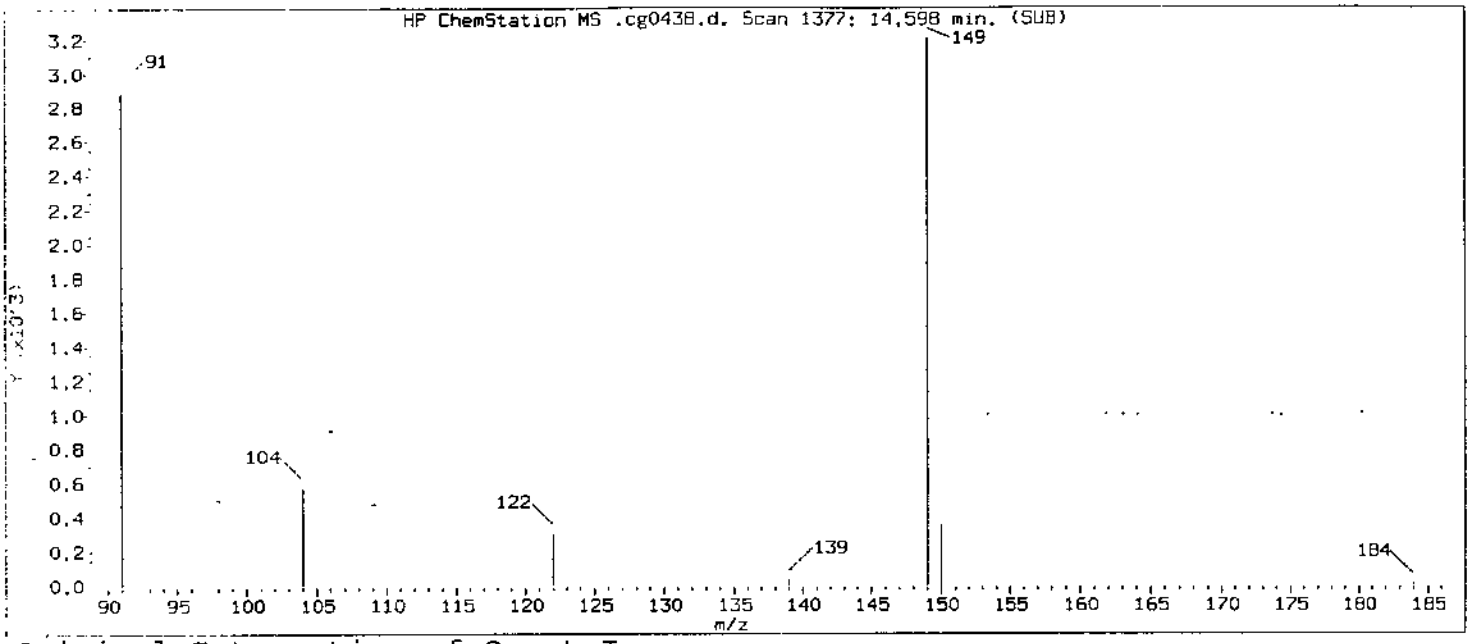
Analyst responsible for change: Greg J. Gratkowski Senior Chemist JUL 14 2011

GC/MS audit/management approval: Matthew E. Barton JUL 15 2011

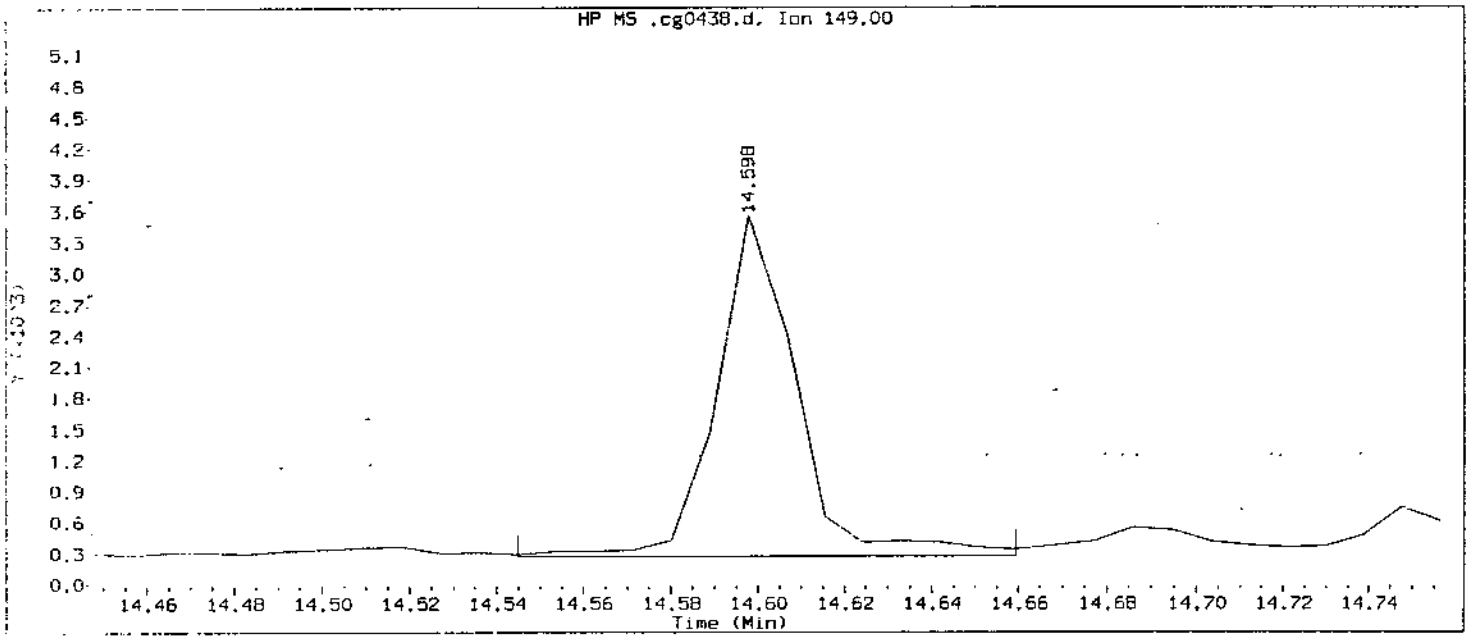
Manual Integration Report for data file /chem/HP10623.i/11jul14.b/cg0438.d, generated on 07/14/2011 at 14:47

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14.b/cg0438.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 11:08 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/m11pah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 11:33 Automation

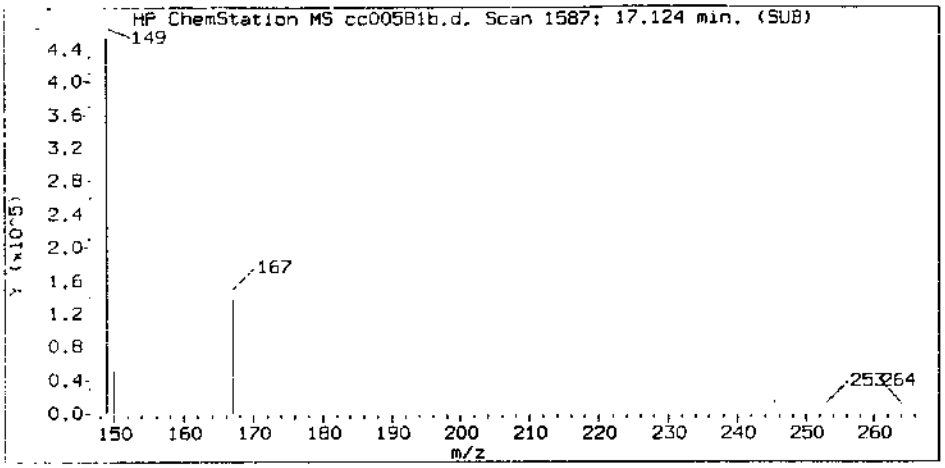
Sample Name: XXXXX Lab Sample ID: 6339388

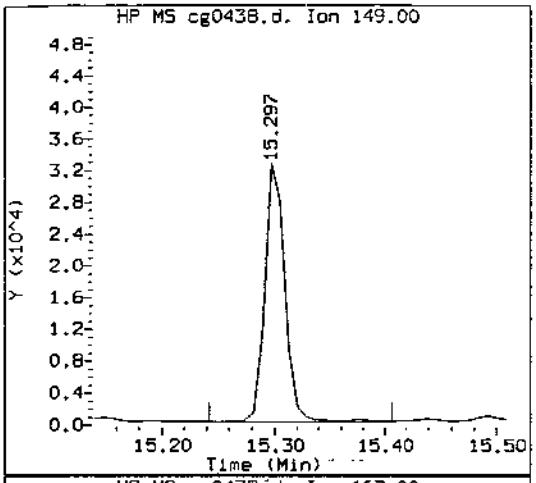
Compound Number : 39
Compound Name : Butylbenzylphthalate
Scan Number : 1377
Retention Time (minutes): 14.598
Quant Ion : 149
Area : 4182
Concentration (ng/ul) : 0.1431
Integration start scan : 1370 Integration stop scan: 1383
Y at integration start : 271 Y at integration end: 271

USF03 0004

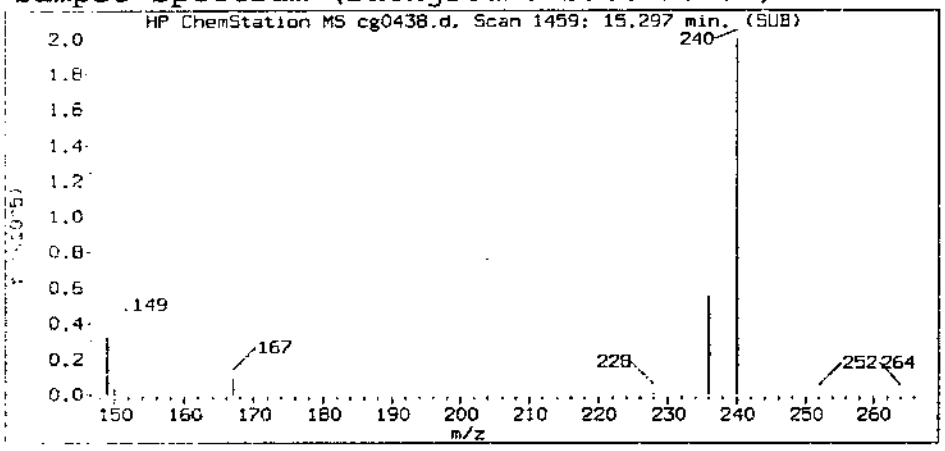
Original Integration Report for data file /chem/HP10623.i/11jul14.b/cg0438.d, generated on 07/14/2011 at 14:47

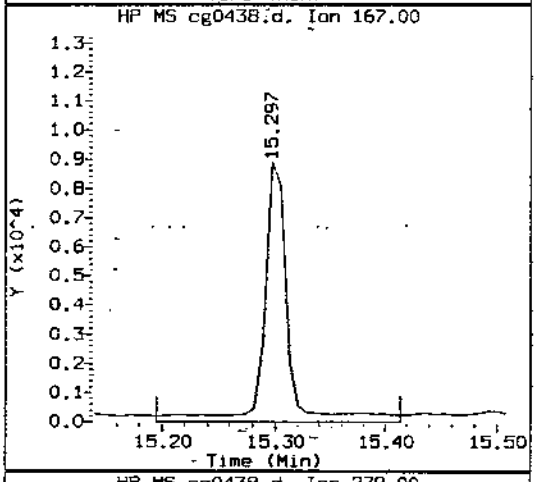
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



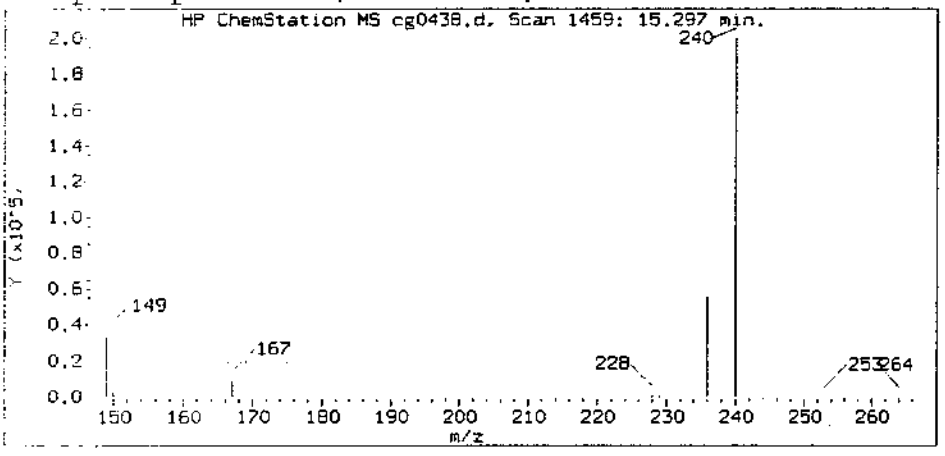


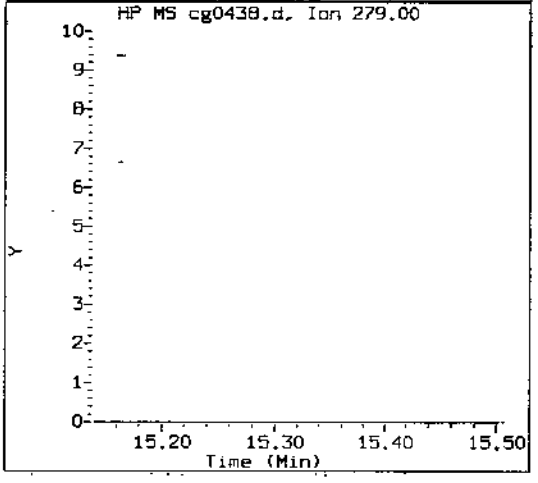
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14.b/cg0438.d
Injection date and time: 14-JUL-2011 11:08

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 12:07
Date, time and analyst ID of latest file update: 14-Jul-2011 14:47 gjd01970

Sample Name: XXXXX

Lab Sample ID: 6339388

Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1459
Retention Time (minutes)	: 15.297
Quant Ion	: 149.0
Area (flag)	: 40654
Concentration (ng/ul)	: 0.2435

USF03 8885

Standards Data

USF83 0866

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP10623 **HP #03**

*** Shift #1 Analyst: JMG *** Shift #2 Analyst: GJD

Comment Code:

R = Reinjection necessary		X =	Sample sent to be reextracted
S = Surrogate problem		I =	Internal Standard problem
NU = Not used		F =	Further dilution required
MR = Meets requirements		IUO =	Internal use only
Cz = Confirms z, (z = I or X)		T =	Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\msdchem\1\DATA\11jul11a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	cg0310.D	50 NG/UL	8270DFTPP1641	11 Jul 2011	19:49			mr
2	cg0311.D	SSTD001	LPAH1921	11 Jul 2011	20:09			mr
3	cg0312.D	SSTD010	LPAH1921	11 Jul 2011	20:40			mr
4	cg0313.D	SSTD005	LPAH1921	11 Jul 2011	21:11			mr
5	cg0314.D	SSTD0.50	LPAH1921	11 Jul 2011	21:42			mr
6	cg0315.D	SSTD0.20	LPAH1921	11 Jul 2011	22:14			mr
7	cg0316.D	SSTD0.05	LPAH1921	11 Jul 2011	22:45			mr
8	cg0317.D	SSTD0.02	LPAHMDL1921	11 Jul 2011	23:16			mr
9	cg0318.D	SSTD001	LPAHICV1381	11 Jul 2011	23:47			mr
11	cg0319.D	ISTD	BLANK	12 Jul 2011	00:19			iuo
12	cg0320.D	SBLKWC1863	SBLKWC186	12 Jul 2011	00:51	11186WAC		mr
13	cg0321.D	186WCLCS3	186WCLCS	12 Jul 2011	01:22	11186WAC		mr
14	cg0322.D	186WCLCSD3	186WCLCSD	12 Jul 2011	01:53	11186WAC		mr
15	cg0323.D	SBLKWB1903	SBLKWB190	12 Jul 2011	02:25	11190WAB		mr
16	cg0324.D	190WBLCS3	190WBLCS	12 Jul 2011	02:57	11190WAB		mr
17	cg0325.D	190WBLCSD3	190WBLCSD	12 Jul 2011	03:28	11190WAB		mr
18	cg0326.D	XXXXXRE	6328087RE	12 Jul 2011	04:00	11190WAB		
19	cg0327.D	XXXXX	6333726	12 Jul 2011	04:31	11183WAI	20	
20	cg0328.D	XXXXX	6333736	12 Jul 2011	05:03	11186WAC		
21	cg0329.D	XXXXX	6333737	12 Jul 2011	05:34	11186WAC		
22	cg0330.D	XXXXX	6333738	12 Jul 2011	06:06	11186WAC		
23	cg0331.D	XXXXX	6333739	12 Jul 2011	06:38	11186WAC		
24	cg0332.D	XXXXX	6334314	12 Jul 2011	07:10	11186WAC		OK,1F
25	cg0333.D	XXXXX	6334315	12 Jul 2011	07:41	11186WAC		OK,1F

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP10623 **HP #03**

*** Shift #1 Analyst: STM *** Shift #2 Analyst: GJB

Comment Code:

R = Reinjection necessary		X =	Sample sent to be reextracted
S = Surrogate problem		I =	Internal Standard problem
NU = Not used		F =	Further dilution required
MR = Meets requirements		IUO =	Internal use only
Cz = Confirms z, (z = I or X)		T =	Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\msdchem\1\DATA\11jul14\

AUS Bkl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	cg0430.D	50 NG/UL	8270DFTPP1641	14 Jul 2011	07:08			MR
2	cg0431.D	SSTD005	LPAH1921	14 Jul 2011	07:27			MR
16	cg0432.D	ISTD	BLANK	14 Jul 2011	07:58			IUO
17	cg0433.D	SBLKWG1923	SBLKWG192	14 Jul 2011	08:29	11192WAG		MR
18	cg0434.D	192WGLCS3	192WGLCS	14 Jul 2011	09:01	11192WAG		MR
19	cg0435.D	192WGLCSD3	192WGLCSD	14 Jul 2011	09:32	11192WAG		MR
20	cg0436.D	XXXXX	6337222	14 Jul 2011	10:04	11192WAG		MR
21	cg0437.D	XXXXX	6338269	14 Jul 2011	10:36	11192WAG		MR
22	cg0438.D	XXXXX	6339388	14 Jul 2011	11:08	11192WAG		MR
11	cg0439.D	XXXXXDL	6333894DL	14 Jul 2011	11:40	11186SLB	1000	S,OK
12	cg0440.D	XXXXXDL	6333895DL	14 Jul 2011	12:12	11186SLB	1000	S,OK
13	cg0441.D	XXXXX	6334677	14 Jul 2011	12:44	11186SLB	100	S,OK
14	cg0442.D	XXXXX	6335833	14 Jul 2011	13:15	11192SLC		MR

USF03 8888

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP10623 **HP #03**

*** Shift #1 Analyst: SM6 *** Shift #2 Analyst: GSD

Comment Code:
R = Reinjection necessary
S = Surrogate problem
NU = Not used
MR = Meets requirements
Cz = Confirms z, (z = I or X)
X = Sample sent to be reextracted
I = Internal Standard problem
F = Further dilution required
IUO = Internal use only
T = Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\msdchem\1\DATA\11jul14a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	cg0450.D	50 NG/UL	8270DFTPP1641	14 Jul 2011	16:55			mr
2	cg0451.D	SSTD001	LPAH1921	14 Jul 2011	17:16			mr
11	cg0452.D	ISTD	BLANK	14 Jul 2011	17:47			iuo
12	cg0453.D	SBLKLD1943	SBLKLD194	14 Jul 2011	18:19	11194SLD		mr
13	cg0454.D	194LDLCS3	194LDLCS	14 Jul 2011	18:51	11194SLD		mr
14	cg0455.D	194LDLCSD3	194LDLCSD	14 Jul 2011	19:23	11194SLD		mr
15	cg0456.D	MDLV	SOILSONIC	14 Jul 2011	19:55	11194SLD		mr
16	cg0457.D	XXXXX	6339384	14 Jul 2011	20:27	11194SLD		mr
17	cg0458.D	XXXXX	6339377	14 Jul 2011	20:59	11194SLD		mr
18	cg0459.D	XXXXXMS	6339378	14 Jul 2011	21:31	11194SLD		mr
19	cg0460.D	XXXXXMSD	6339379	14 Jul 2011	22:02	11194SLD		mr
20	cg0461.D	XXXXX	6337203	14 Jul 2011	22:34	11194SLD		mr
21	cg0462.D	XXXXX	6337205	14 Jul 2011	23:05	11194SLD		mr
22	cg0463.D	XXXXX	6337207	14 Jul 2011	23:37	11194SLD		mr
23	cg0464.D	XXXXX	6337209	15 Jul 2011	00:08	11194SLD		mr
24	cg0465.D	XXXXX	6337212	15 Jul 2011	00:39	11194SLD		mr
25	cg0466.D	XXXXX	6338249	15 Jul 2011	01:10	11194SLD		mr
26	cg0467.D	XXXXX	6338250	15 Jul 2011	01:41	11194SLD		mr
27	cg0468.D	XXXXX	6338252	15 Jul 2011	02:13	11194SLD		mr
28	cg0469.D	XXXXX	6338261	15 Jul 2011	02:44	11194SLD		mr
29	cg0470.D	XXXXX	6338263	15 Jul 2011	03:14	11194SLD		mr
30	cg0471.D	XXXXX	6338264	15 Jul 2011	03:45	11194SLD		mr
31	cg0472.D	XXXXX	6339368	15 Jul 2011	04:17	11194SLD		mr
32	cg0473.D	XXXXX	6339370	15 Jul 2011	04:48	11194SLD		mr

USP63 8869

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP10623 **HP #03**

*** Shift #1 Analyst: JM6 *** Shift #2 Analyst: GS

Comment Code:

R	=	Reinjection necessary	X	=	Sample sent to be reextracted
S	=	Surrogate problem	I	=	Internal Standard problem
NU	=	Not used	F	=	Further dilution required
MR	=	Meets requirements	IUO	=	Internal use only
Cz	=	Confirms z, (z = I or X)	T	=	Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\msdchem\1\DATA\11jul15\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	cg0480.D	50 NG/UL	8270DFTPP1641	15 Jul 2011	06:15			NU
1	cg0480z.D	50 NG/UL	8270DFTPP1641	15 Jul 2011	06:33			MR
2	cg0481.D	SSTD005	LPAH1921	15 Jul 2011	06:52			MR
16	cg0482.D	ISTD	BLANK	15 Jul 2011	07:23			IUO
17	cg0483.D	SBLKWC1953	SBLKWC195	15 Jul 2011	07:55	11195WAC		MR
18	cg0484.D	195WCLCS3	195WCLCS	15 Jul 2011	08:26	11195WAC		MR
19	cg0485.D	195WCLCSD3	195WCLCSD	15 Jul 2011	08:58	11195WAC		MR
11	cg0486.D	XXXXX	6339372	15 Jul 2011	09:30	11194SLD		MR
12	cg0487.D	XXXXX	6339374	15 Jul 2011	10:01	11194SLD		MR
13	cg0488.D	XXXXX	6339375	15 Jul 2011	10:33	11194SLD		S,OK
14	cg0489.D	XXXXX	6339386	15 Jul 2011	11:05	11194SLD		MR
20	cg0490.D	XXXXX	6342570	15 Jul 2011	11:36	11195WAC		MR
21	cg0491.D	XXXXX	6342573	15 Jul 2011	12:08	11195WAC		MR

USF03 0018

Data File: /chem/HP10623.i/11jul11a.b/cg0310.d

Date : 11-JUL-2011 19:49

Client ID: 50 NG/UL

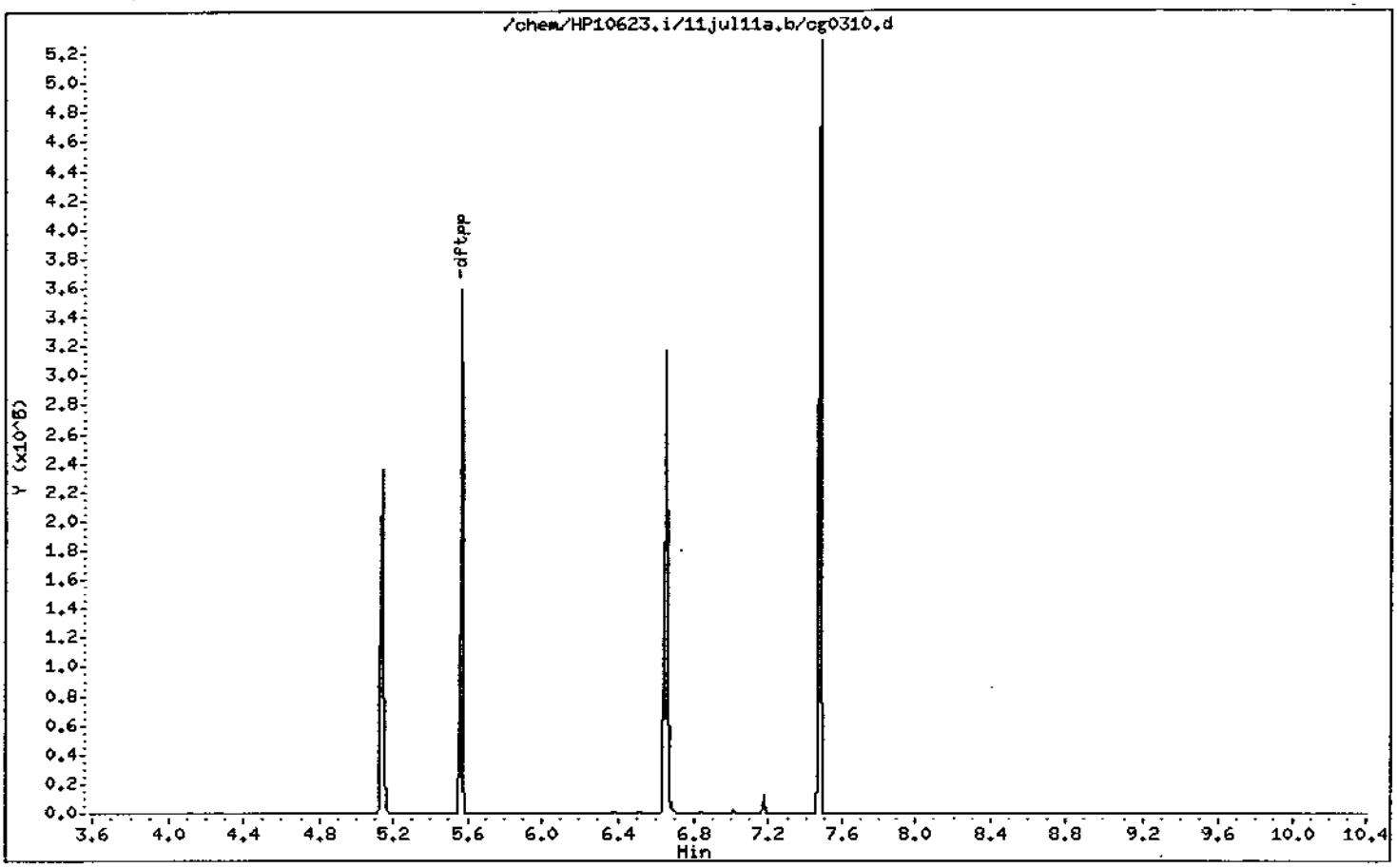
Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP10623.i/11jul11a.b/cg0310.d

Date : 11-JUL-2011 19:49

Client ID: 50 NG/UL

Instrument: HP10623.i

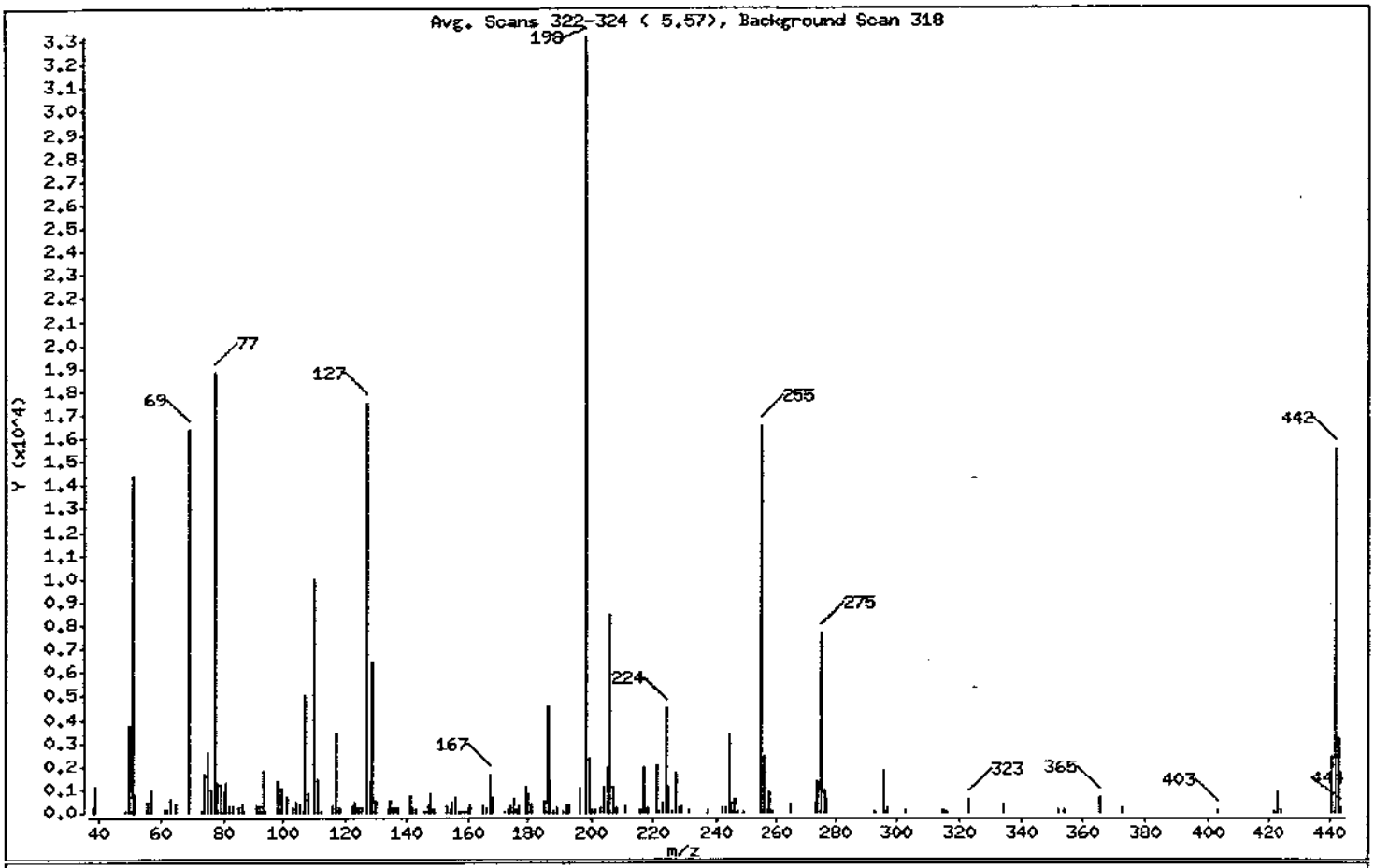
Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.54
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.37
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	52.89
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.04
275	10.00 - 30.00% of mass 198	23.25
365	Greater than 1.00% of mass 198	2.04
441	Present, but less than mass 443	7.25
442	40.00 - 99.99% of mass 198	46.86
443	17.00 - 23.00% of mass 442	9.57 (20.42)

USP03 8812

Data File: /chem/HP10623.i/11jul11a.b/cg0310.d

Date : 11-JUL-2011 19:49

Client ID: 50 NG/UL

Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25

Data File: cg0310.d
Spectrum: Avg. Scans 322-324 (5.57), Background Scan 318
Location of Maximum: 198.00
Number of points: 159

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	193	110.00	9977	174.00	309	237.00	118
39.00	1123	111.00	1434	175.00	645	242.00	236
49.00	50	112.00	68	176.00	136	243.00	255
50.00	3754	116.00	275	177.00	300	244.00	3376
51.00	14438	117.00	3449	179.00	1172	245.00	461
52.00	753	118.00	266	180.00	810	246.00	625
56.00	432	122.00	314	181.00	408	247.00	51
57.00	1015	123.00	472	185.00	570	249.00	60
61.00	185	124.00	209	186.00	4605	255.00	16520
62.00	156	125.00	200	187.00	1336	256.00	2439
63.00	625	127.00	17536	188.00	50	257.00	143
65.00	357	128.00	1385	189.00	251	258.00	884
69.00	16373	129.00	6490	191.00	54	259.00	105
73.00	60	130.00	540	192.00	351	265.00	365
74.00	1644	134.00	137	193.00	393	273.00	477
75.00	2602	135.00	517	196.00	1090	274.00	1347
76.00	983	136.00	203	198.00	33160	275.00	7711
77.00	18792	137.00	251	199.00	2334	276.00	1024
78.00	1309	141.00	785	200.00	137	277.00	592
79.00	1191	142.00	242	201.00	131	293.00	56
80.00	902	143.00	130	203.00	210	296.00	1804
81.00	1270	146.00	62	204.00	1171	297.00	239
82.00	320	147.00	419	205.00	1982	303.00	173
83.00	316	148.00	847	206.00	8491	315.00	161
85.00	231	149.00	140	207.00	1130	316.00	51
86.00	366	153.00	275	208.00	258	323.00	585
87.00	62	154.00	149	211.00	305	334.00	354
91.00	273	155.00	453	216.00	142	352.00	135
92.00	307	156.00	677	217.00	2005	354.00	137
93.00	1817	157.00	53	218.00	261	365.00	675
94.00	54	158.00	63	221.00	2080	372.00	238
98.00	1403	159.00	52	222.00	50	403.00	115
99.00	1074	160.00	243	223.00	453	422.00	60
101.00	660	161.00	373	224.00	4521	423.00	906
103.00	246	165.00	304	225.00	1116	424.00	148

USP89 0813

Data File: /chem/HP10623.i/11jul11a.b/cg0310.d

Date : 11-JUL-2011 19:49

Client ID: 50 NG/UL

Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: gjd01970

Column phase: DB-5

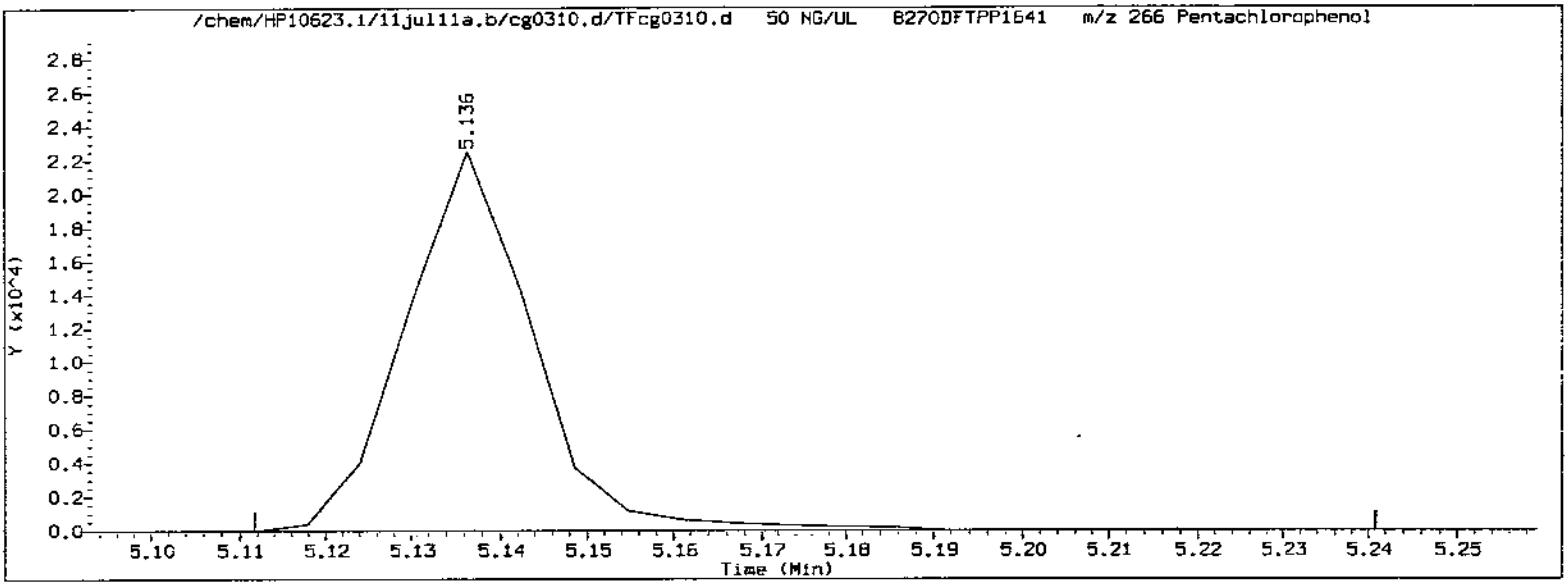
Column diameter: 0.25

Data File: cg0310.d
Spectrum: Avg. Scans 322-324 (5.57), Background Scan 318
Location of Maximum: 198.00
Number of points: 159

m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	433	166.00	215	226.00	56	441.00	2405
105.00	387	167.00	1646	227.00	1737	442.00	15540
106.00	58	168.00	674	228.00	241	443.00	3173
107.00	5054	172.00	56	229.00	339	444.00	248
108.00	804	173.00	141	231.00	123		

Assessment of GC Column Performance and Injection Port Inertness for

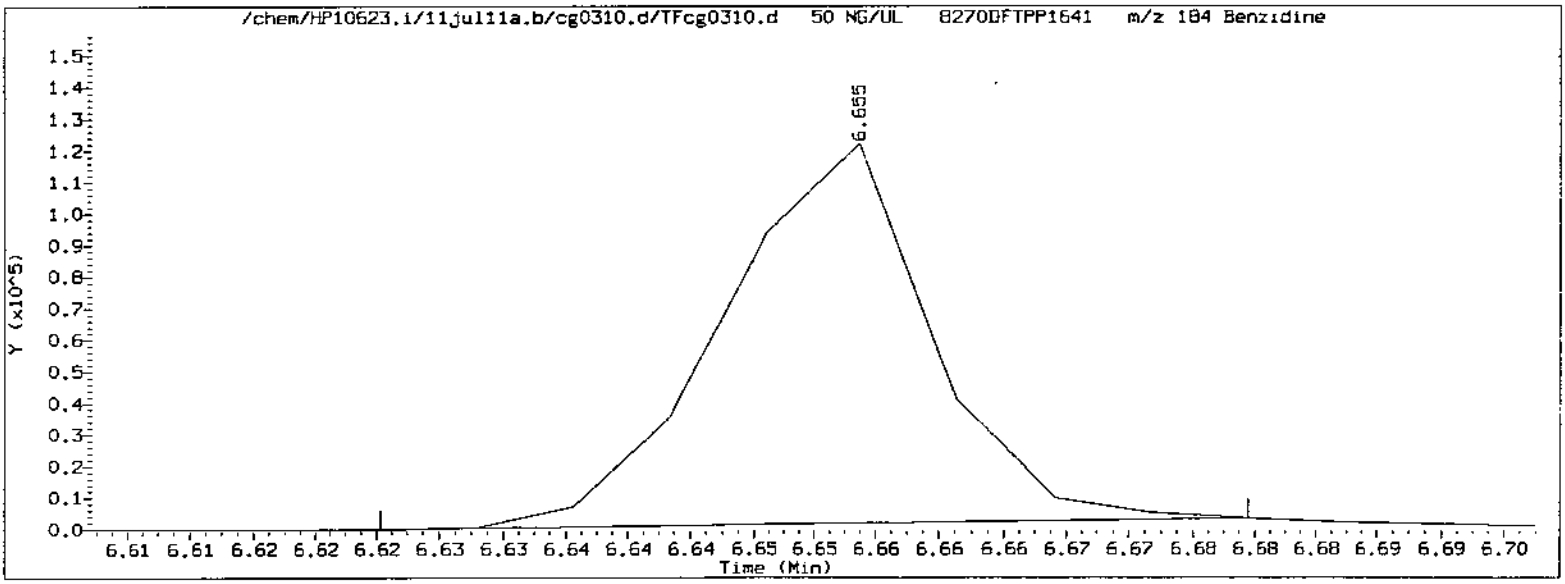
Instrument ID: HP10623.i Injection Date: 11-JUL-2011 19:49 Operator: gjd01970



Pentachlorophenol EICP peak height = 22536 EICP peak height at 10% = 2254 Pentachlorophenol EICP area = 22591

Pentachlorophenol EICP peak apex (min.) = 5.136
RT at 10% of front half of EICP (min.) = 5.121 'Front' peak width (min.) = 0.0152833333
RT at 10% of back half of EICP (min.) = 5.152 'Tailing' peak width (min.) = 0.0158500000

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0158500000}{0.0152833333} = 1.037$



Benzidine EICP peak height = 120173 EICP peak height at 10% = 12017 Benzidine EICP area = 111267

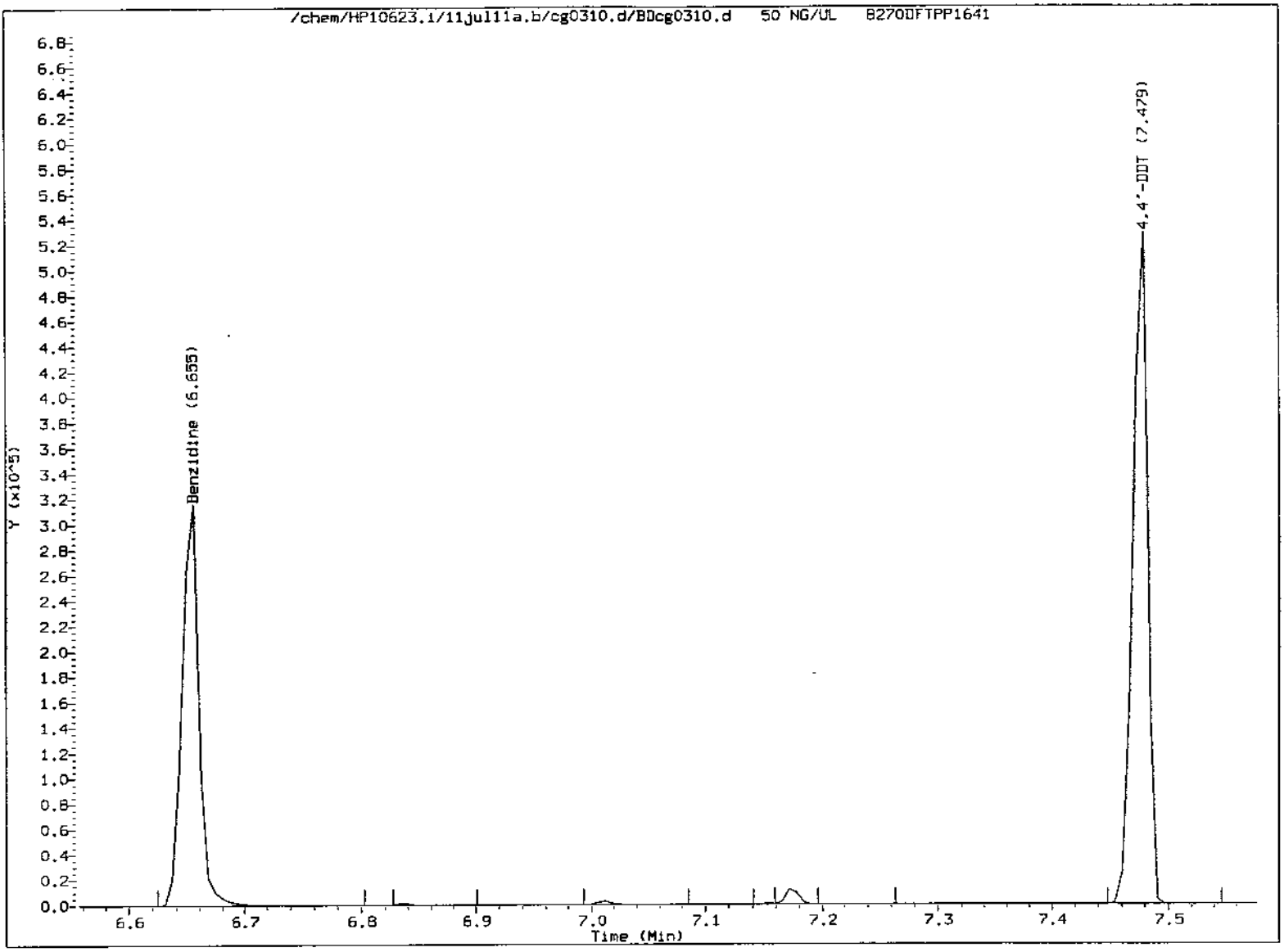
Benzidine EICP peak apex (min.) = 6.655
RT at 10% of front half of EICP (min.) = 6.638 'Front' peak width (min.) = 0.0170000000
RT at 10% of back half of EICP (min.) = 6.666 'Tailing' peak width (min.) = 0.0114666667

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0114666667}{0.0170000000} = 0.675$

USP93 9815

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP10623.i Injection Date: 11-JUL-2011 19:49 Operator: gjd01970

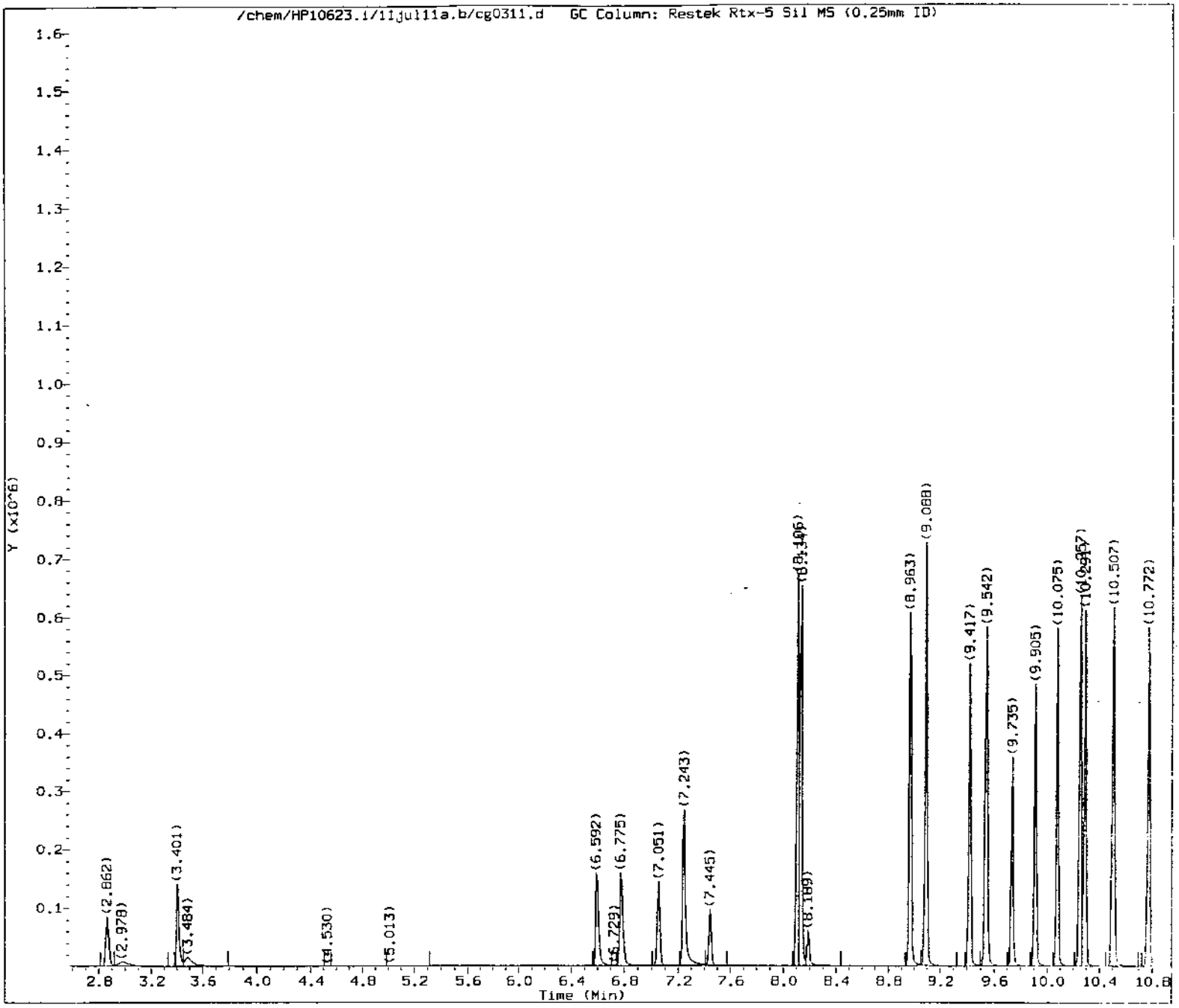


$$\%\ 4,4'\text{-DDT breakdown} = \frac{4,4'\text{-DDE TIC area} + 4,4'\text{-DDD TIC area}}{4,4'\text{-DDE TIC area} + 4,4'\text{-DDD TIC area} + 4,4'\text{-DDT TIC area}} \times 100$$

$$\%\ 4,4'\text{-DDT breakdown} = \frac{0 + 0}{0 + 0 + 469747} \times 100 = 0.0$$

USF83 9816

printed on 07/11/2011 at 21:13



Quant Report

Target Revision 3.5

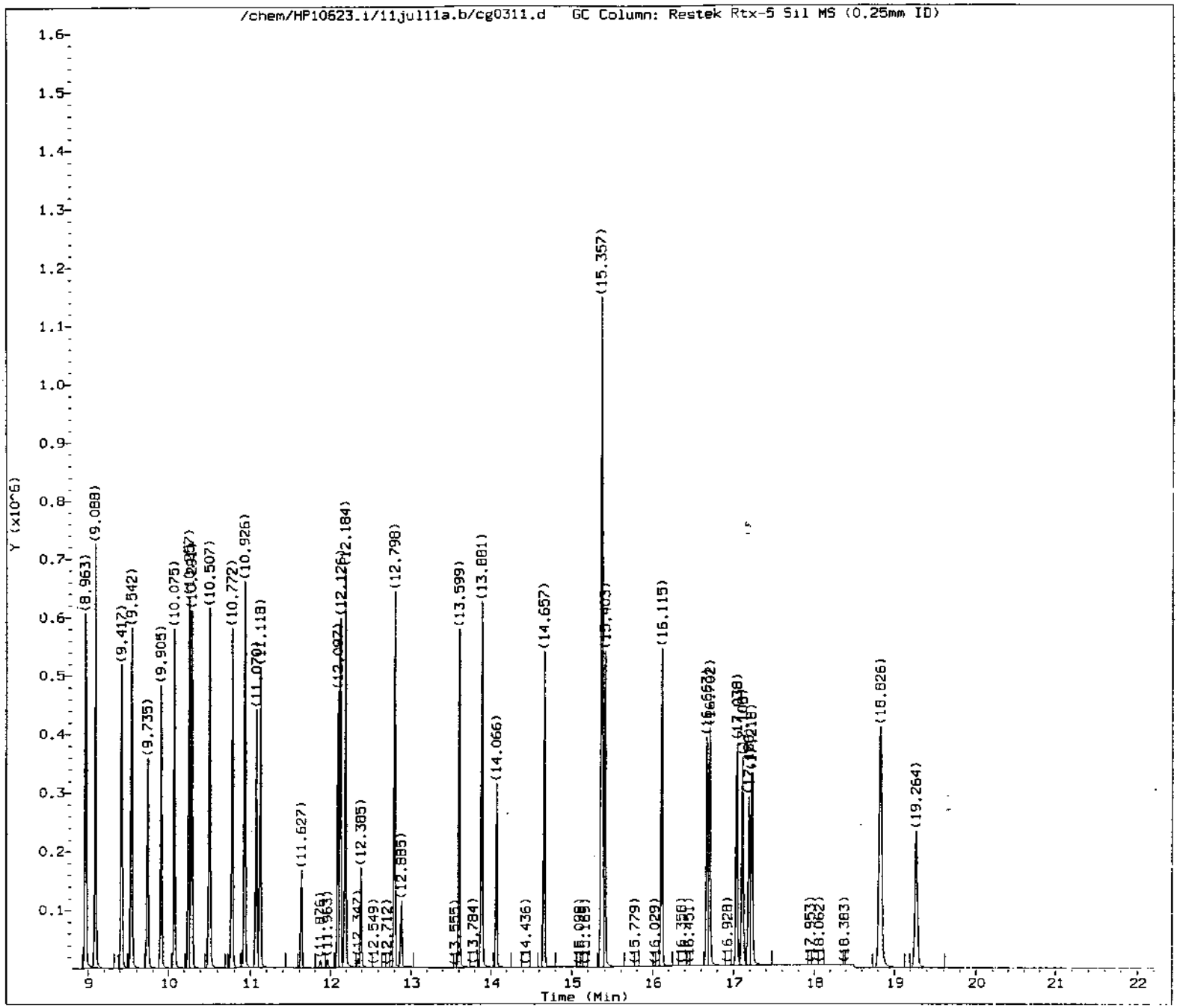
Data File: /chem/HP10623.i/11jul11a.b/cg0311.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 20:09 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD001 Lab Sample ID: LPAH1921

JUL 12 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0311.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 20:09 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD001 Lab Sample ID: LPAH1921

8583 8818

JUL 12 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

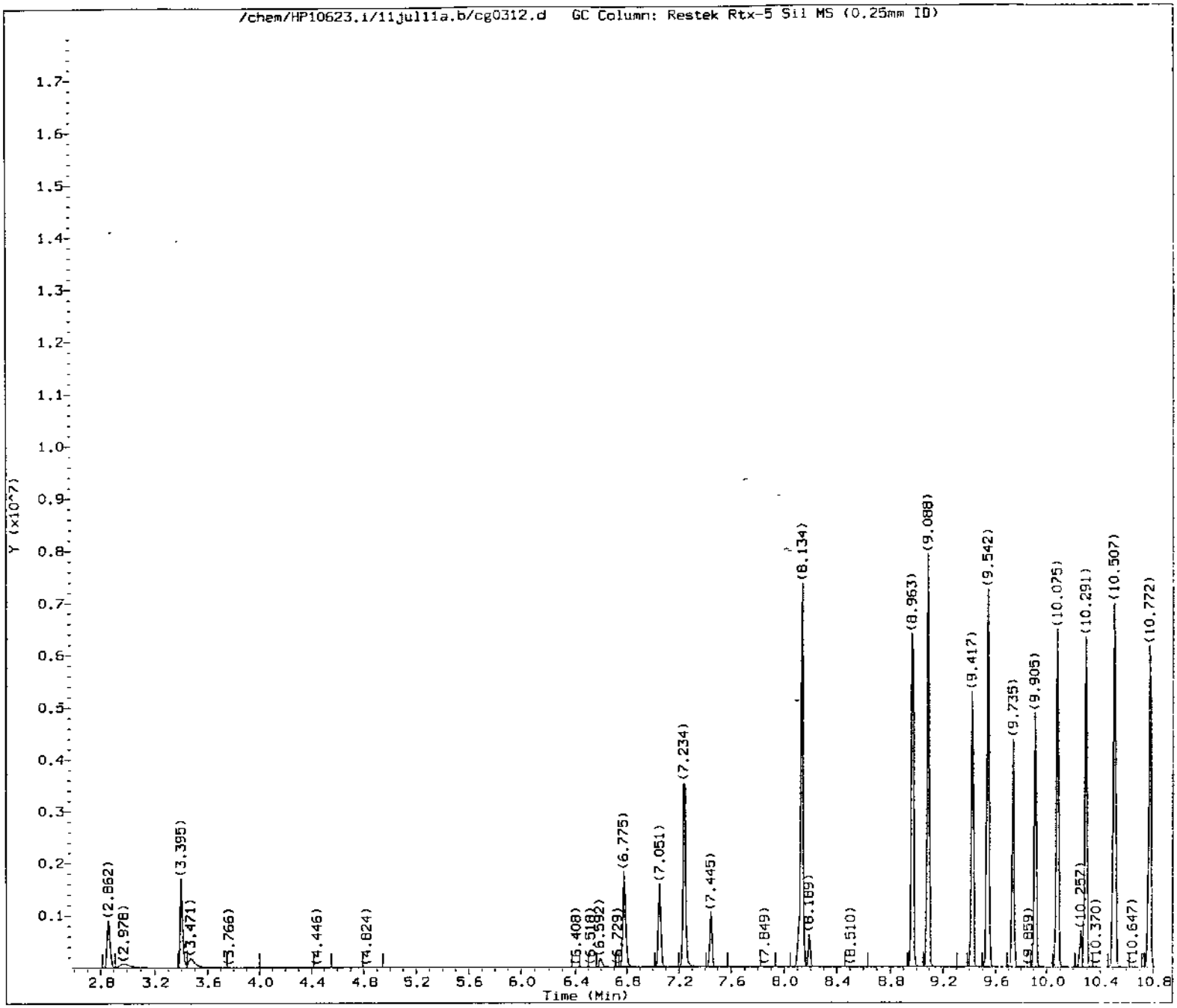
Data File: /chem/HP10623.i/11jul11a.b/cg0311.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 20:09 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD001 Lab Sample ID: LPAH1921

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.862	88	77001	1.0000
3) N-Nitrosodimethylamine	(1)	3.407	74	109641	1.0000
6) 1,4-Dichlorobenzene-d4	(1)	6.601	152	151620	1.0000
12) Naphthalene-d8	(2)	8.106	136	605325	1.0000
13) Naphthalene	(2)	8.134	128	632805	1.0000
14) 2-Methylnaphthalene	(2)	8.963	142	409767	1.0000
16) 1-Methylnaphthalene	(2)	9.088	142	386420	1.0000
18) Acenaphthylene	(3)	10.075	152	545633	1.0000
19) Acenaphthene-d10	(3)	10.257	164	330801	1.0000
20) Dimethylphthalate	(3)	9.905	163	400423	1.0000
21) Acenaphthene	(3)	10.291	154	367784	1.0000
22) Diethylphthalate	(3)	10.772	149	414751	1.0000
23) Fluorene	(3)	10.926	166	407661	1.0000
24) 1,2-Diphenylhydrazine	(4)	11.118	77	433555	1.0000
25) N-Nitrosodiphenylamine	(4)	11.070	169	251715	1.0000
26) NDPA as diphenylamine	(4)	11.070	169	251715	1.0000
28) Hexachlorobenzene	(4)	11.627	284	101129	1.0000
30) Phenanthrene-d10	(4)	12.097	188	512734	1.0000
31) Phenanthrene	(4)	12.126	178	589082	1.0000
32) Anthracene	(4)	12.184	178	572558	1.0000
33) Di-n-butylphthalate	(4)	12.798	149	593385	1.0000
35) Fluoranthene	(4)	13.599	202	603451	1.0000
37) Pyrene	(5)	13.881	202	637561	1.0000
39) Butylbenzylphthalate	(5)	14.657	149	252328	1.0000
40) bis(2-Ethylhexyl)phthalate	(5)	15.357	149	375257	1.0000
41) Benzo(a)anthracene	(5)	15.357	228	506117	1.0000
42) Chrysene-d12	(5)	15.372	240	402732	1.0000
43) Chrysene	(5)	15.403	228	532360	1.0000
44) Di-n-octylphthalate	(6)	16.115	149	601428	1.0000
45) Benzo(b)fluoranthene	(6)	16.663	252	461438	1.0000
46) Benzo(k)fluoranthene	(6)	16.702	252	443799	1.0000
47) Benzo(e)pyrene	(6)	17.038	252	433655	1.0000
48) Benzo(a)pyrene	(6)	17.108	252	411212	1.0000
49) Perylene-d12	(6)	17.186	264	337563	1.0000
50) Perylene	(6)	17.226	252	422899	1.0000
51) Indeno(1,2,3-cd)pyrene	(6)	18.819	276	437056	1.0000
52) Dibenz(a,h)anthracene	(6)	18.833	278	344919	1.0000
53) Benzo(g,h,i)perylene	(6)	19.264	276	383770	1.0000
10) Nitrobenzene-d5	(2)	7.243	82	221103	1.0000
17) 2-Fluorobiphenyl	(3)	9.417	172	399661	1.0000
38) Terphenyl-d14	(5)	14.066	244	280168	1.0000

M = Compound was manually integrated. A = User selected an alternate hit



Quant Report

Target Revision 3.5

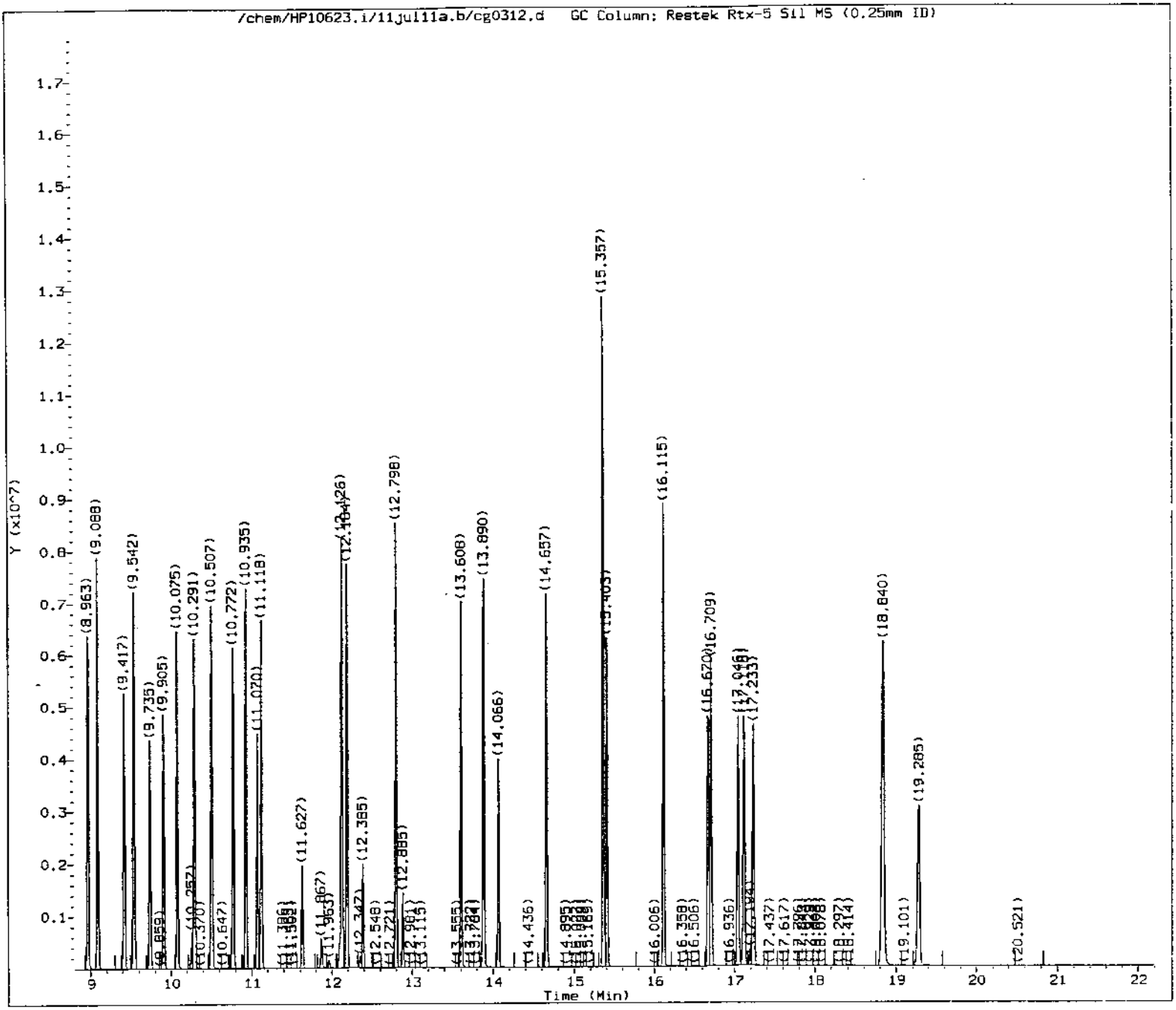
Data File: /chem/HP10623.i/11jul11a.b/cg0312.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 20:40 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD010 Lab Sample ID: LPAH1921

JUL 12 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0312.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 20:40 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD010 Lab Sample ID: LPAH1921

JUL 12 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

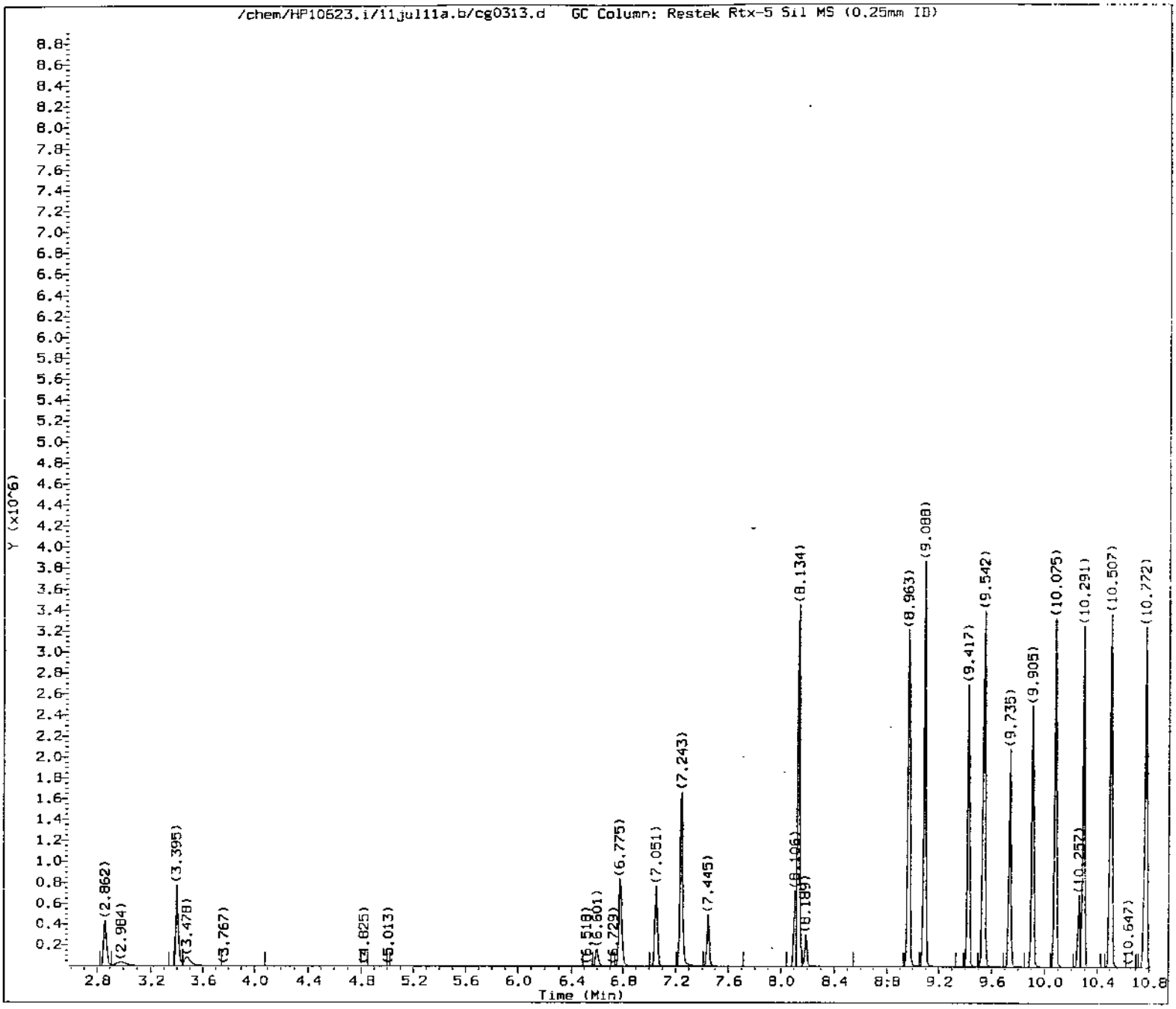
Data File: /chem/HP10623.i/11jul11a.b/cg0312.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 20:40 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD010 Lab Sample ID: LPAH1921

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.862	88	803145	10.0245
3)	N-Nitrosodimethylamine	(1)	3.395	74	1223194	10.3609
6)	1,4-Dichlorobenzene-d4	(1)	6.601	152	157370	1.0000
12)	Naphthalene-d8	(2)	8.106	136	619795	1.0000
13)	Naphthalene	(2)	8.134	128	6849354	10.2776
14)	2-Methylnaphthalene	(2)	8.974	142	4537339	10.3913
16)	1-Methylnaphthalene	(2)	9.088	142	4183961	10.2793
18)	Acenaphthylene	(3)	10.075	152	6593669	10.8203
19)	Acenaphthene-d10	(3)	10.257	164	339142	1.0000
20)	Dimethylphthalate	(3)	9.905	163	4618993	10.5889
21)	Acenaphthene	(3)	10.291	154	3999885	10.2951
22)	Diethylphthalate	(3)	10.772	149	4890592	10.6984
23)	Fluorene	(3)	10.935	166	4619035	10.4997
24)	1,2-Diphenylhydrazine	(4)	11.118	77	5552869	10.9387
25)	N-Nitrosodiphenylamine	(4)	11.070	169	2393005	9.4518
26)	NDPA as diphenylamine	(4)	11.070	169	2393005	9.4518
28)	Hexachlorobenzene	(4)	11.627	284	1145038	10.3251
30)	Phenanthrene-d10	(4)	12.097	188	543986	1.0000
31)	Phenanthrene	(4)	12.126	178	6793358	10.4167
32)	Anthracene	(4)	12.184	178	6898620	10.6352
33)	Di-n-butylphthalate	(4)	12.798	149	7939787	11.1551
35)	Fluoranthene	(4)	13.608	202	7335619	10.6794
37)	Pyrene	(5)	13.890	202	7841816	10.3321
39)	Butylbenzylphthalate	(5)	14.657	149	3395641	10.7803
40)	bis(2-Ethylhexyl)phthalate	(5)	15.357	149	5038349	10.7689
41)	Benzo(a)anthracene	(5)	15.364	228	6514839	10.5591
42)	Chrysene-d12	(5)	15.372	240	463509	1.0000
43)	Chrysene	(5)	15.403	228	6460006	10.2646
44)	Di-n-octylphthalate	(6)	16.115	149	8413270	10.9618
45)	Benzo(b)fluoranthene	(6)	16.670	252	5935323	10.5445
46)	Benzo(k)fluoranthene	(6)	16.709	252	5645107	10.4889
47)	Benzo(e)pyrene	(6)	17.046	252	5455316	10.4337
48)	Benzo(a)pyrene	(6)	17.116	252	5480878	10.7217
49)	Perylene-d12	(6)	17.194	264	389350	1.0000
50)	Perylene	(6)	17.233	252	5484073	10.5851
51)	Indeno(1,2,3-cd)pyrene	(6)	18.833	276	5783840	10.6862
52)	Dibenz(a,h)anthracene	(6)	18.847	278	4665387	10.7948
53)	Benzo(g,h,i)perylene	(6)	19.285	276	4821445	10.4271
10)	Nitrobenzene-d5	(2)	7.234	82	2587676	10.6674
17)	2-Fluorobiphenyl	(3)	9.417	172	4334773	10.2815
38)	Terphenyl-d14	(5)	14.066	244	3405283	10.2727

M = Compound was manually integrated. A = User selected an alternate hit



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0313.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 21:11 Analyst ID: gjd01970

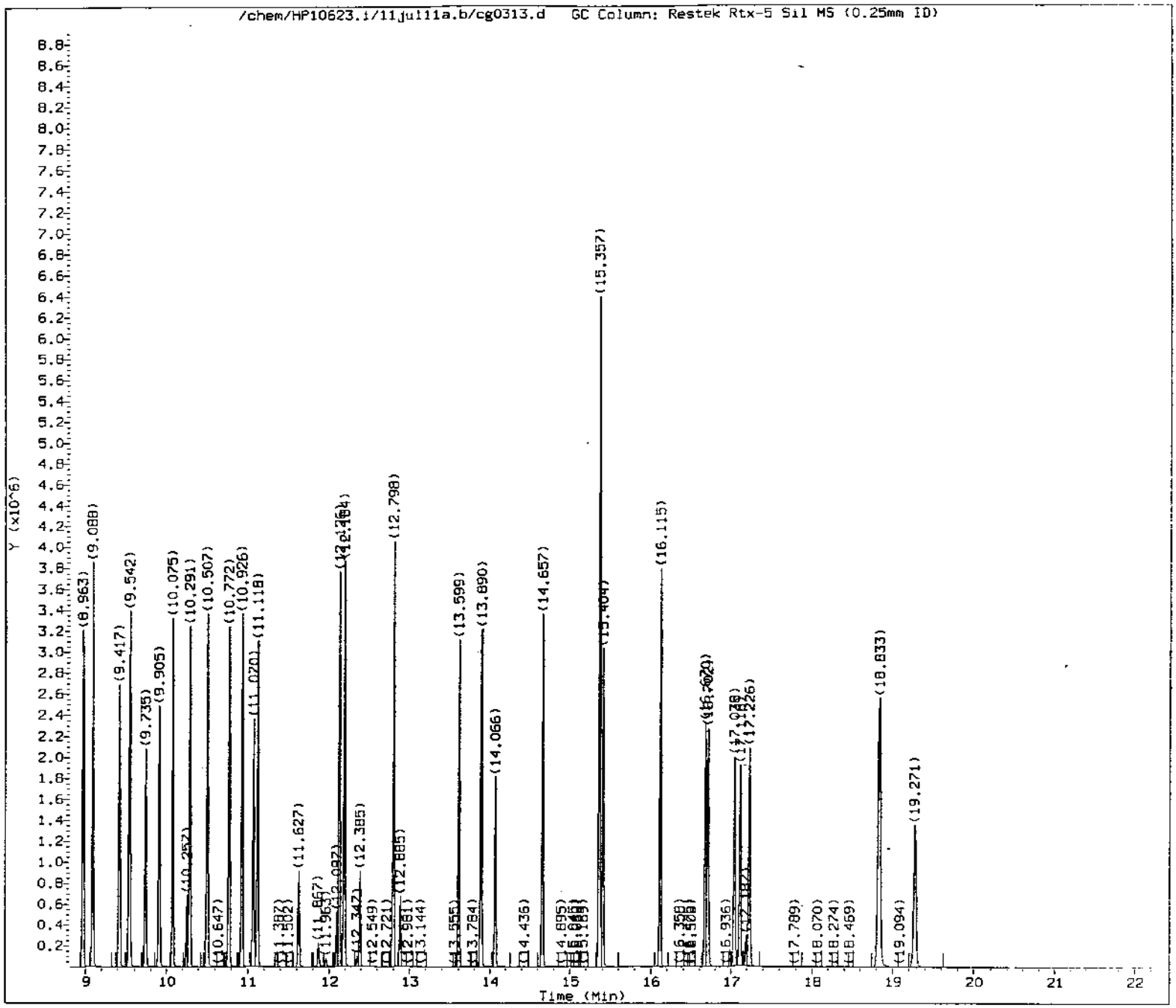
Method used: /chem/HP10623.i/11jul11a.b/m11pah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD005 Lab Sample ID: LPAH1921

5823

JUL 12 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0313.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 21:11 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD005 Lab Sample ID: LPAH1921

JUL 12 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

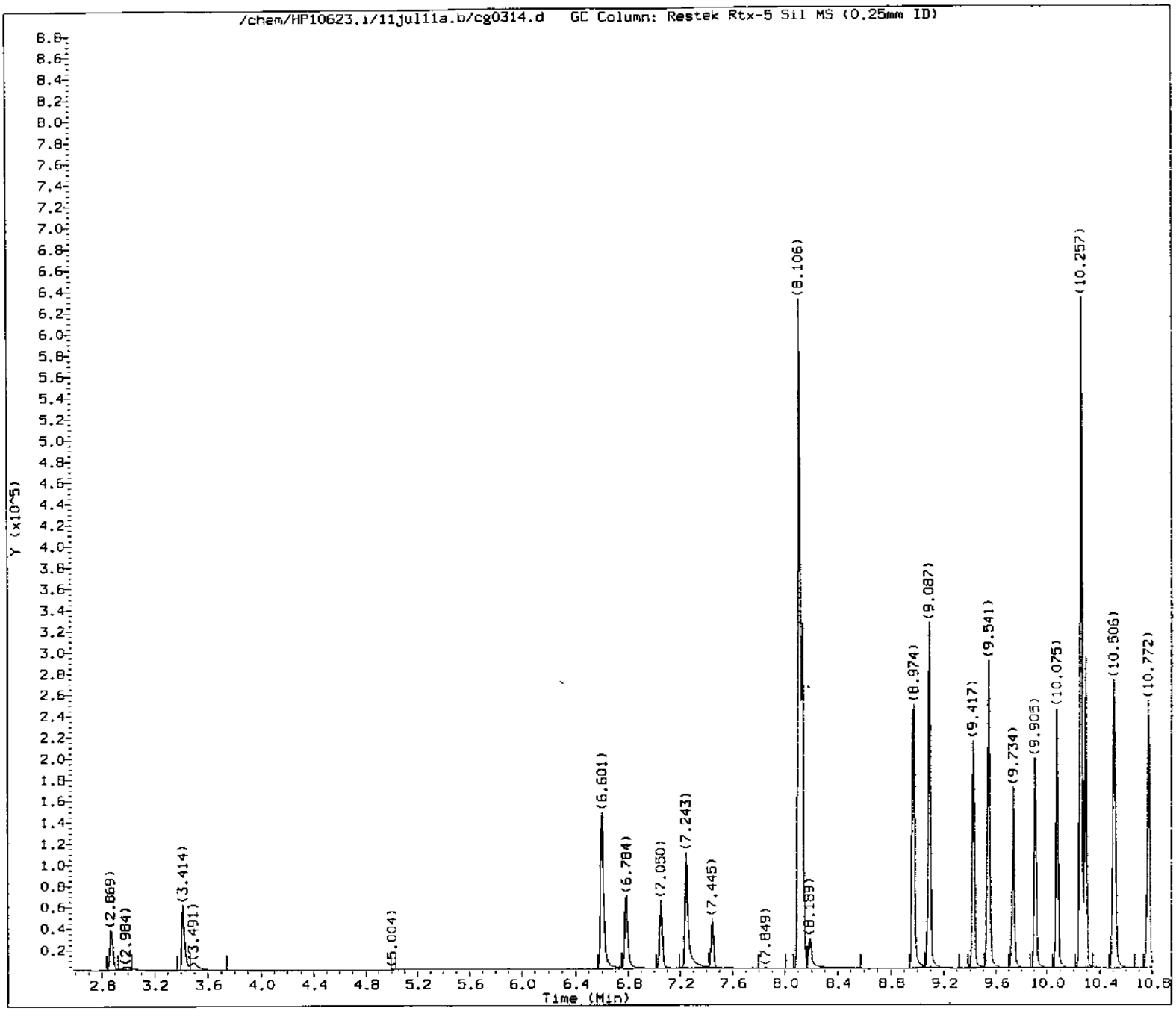
Data File: /chem/HP10623.i/11jul11a.b/cg0313.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 21:11 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD005 Lab Sample ID: LPAH1921

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.862	88	388377	4.9008
3)	N-Nitrosodimethylamine	(1)	3.401	74	586283	4.9807
6)	1,4-Dichlorobenzene-d4	(1)	6.601	152	157207	1.0000
12)	Naphthalene-d8	(2)	8.106	136	622550	1.0000
13)	Naphthalene	(2)	8.134	128	3271313	4.9241
14)	2-Methylnaphthalene	(2)	8.963	142	2158313	4.9471
16)	1-Methylnaphthalene	(2)	9.088	142	1988006	4.9076
18)	Acenaphthylene	(3)	10.075	152	3104568	5.0540
19)	Acenaphthene-d10	(3)	10.257	164	340022	1.0000
20)	Dimethylphthalate	(3)	9.905	163	2199556	5.0195
21)	Acenaphthene	(3)	10.291	154	1927041	4.9646
22)	Diethylphthalate	(3)	10.772	149	2291382	4.9997
23)	Fluorene	(3)	10.926	166	2188377	4.9743
24)	1,2-Diphenylhydrazine	(4)	11.118	77	2551532	5.0379
25)	N-Nitrosodiphenylamine	(4)	11.070	169	1276887	5.0492
26)	NDPA as diphenylamine	(4)	11.070	169	1276887	5.0492
28)	Hexachlorobenzene	(4)	11.627	284	538617	4.9238
30)	Phenanthrene-d10	(4)	12.097	188	540684	1.0000
31)	Phenanthrene	(4)	12.126	178	3184989	4.9420
32)	Anthracene	(4)	12.184	178	3252982	5.0303
33)	Di-n-butylphthalate	(4)	12.798	149	3625715	5.0827
35)	Fluoranthene	(4)	13.608	202	3388661	4.9756
37)	Pyrene	(5)	13.890	202	3550531	4.9865
39)	Butylbenzylphthalate	(5)	14.657	149	1555038	5.1674
40)	bis(2-Ethylhexyl)phthalate	(5)	15.357	149	2253590	5.0843
41)	Benzo(a)anthracene	(5)	15.357	228	2900887	5.0033
42)	Chrysene-d12	(5)	15.372	240	435421	1.0000
43)	Chrysene	(5)	15.404	228	2924588	4.9644
44)	Di-n-octylphthalate	(6)	16.115	149	3725100	5.0798
45)	Benzo(b)fluoranthene	(6)	16.670	252	2432702	4.6977
46)	Benzo(k)fluoranthene	(6)	16.702	252	2709725	5.2038
47)	Benzo(e)pyrene	(6)	17.038	252	2446368	4.9575
48)	Benzo(a)pyrene	(6)	17.108	252	2398977	4.9674
49)	Perylene-d12	(6)	17.187	264	369030	1.0000
50)	Perylene	(6)	17.226	252	2426918	4.9614
51)	Indeno(1,2,3-cd)pyrene	(6)	18.826	276	2518034	4.9386
52)	Dibenz(a,h)anthracene	(6)	18.840	278	1997383	4.9167
53)	Benzo(g,h,i)perylene	(6)	19.271	276	2143565	4.9268
10)	Nitrobenzene-d5	(2)	7.243	82	1221244	5.0081
17)	2-Fluorobiphenyl	(3)	9.417	172	2089730	4.9624
38)	Terphenyl-d14	(5)	14.066	244	1564573	5.0162

M = Compound was manually integrated. A = User selected an alternate hit



Quant Report

Target Revision 3.5

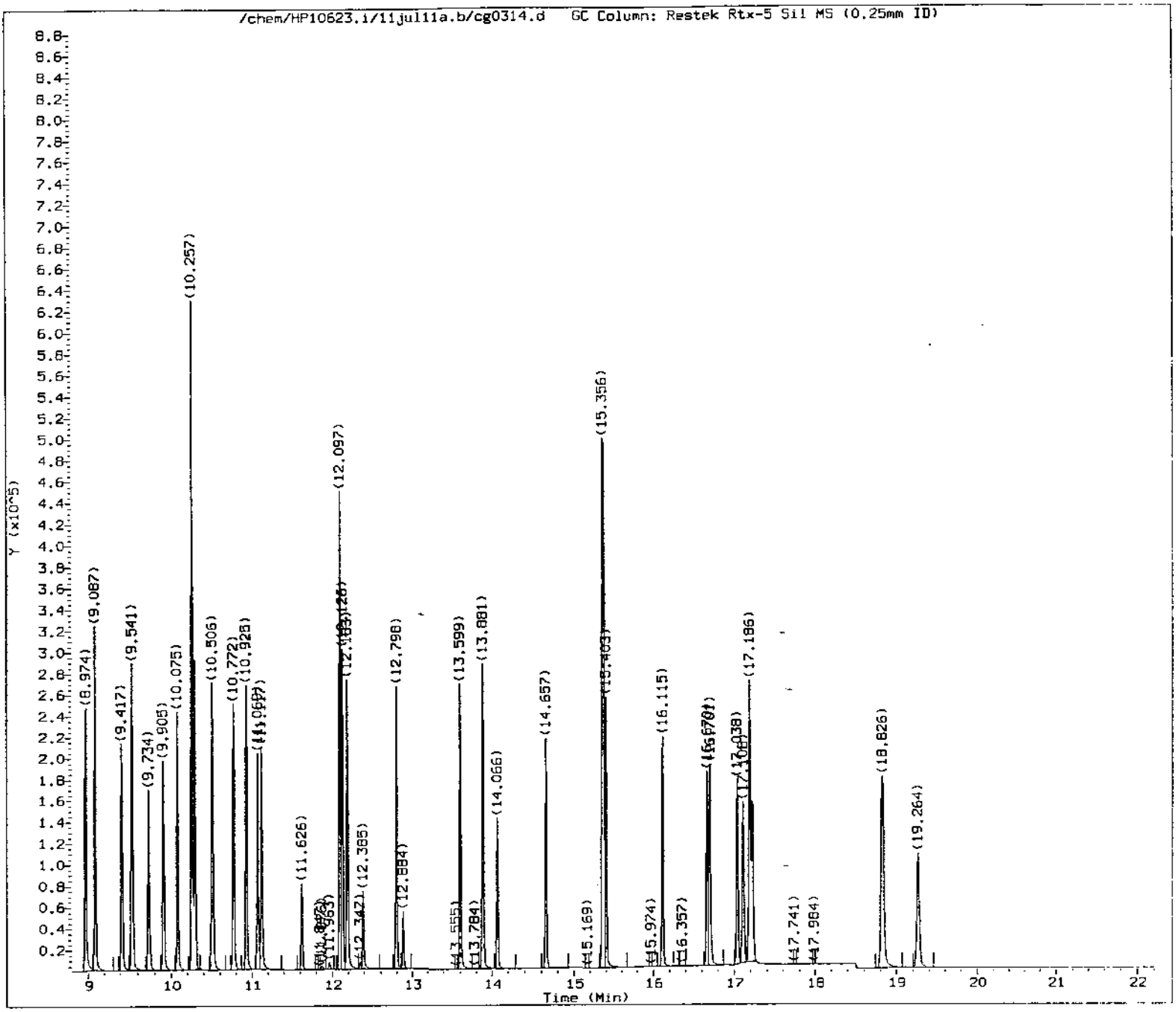
Data File: /chem/HP10623.i/11jul11a.b/cg0314.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 21:42 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD0.50 Lab Sample ID: LPAH1921

JUL 12 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0314.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 21:42 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD0.50 Lab Sample ID: LPAH1921

6927

JUL 12 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0314.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 21:42 Analyst ID: gjd01970

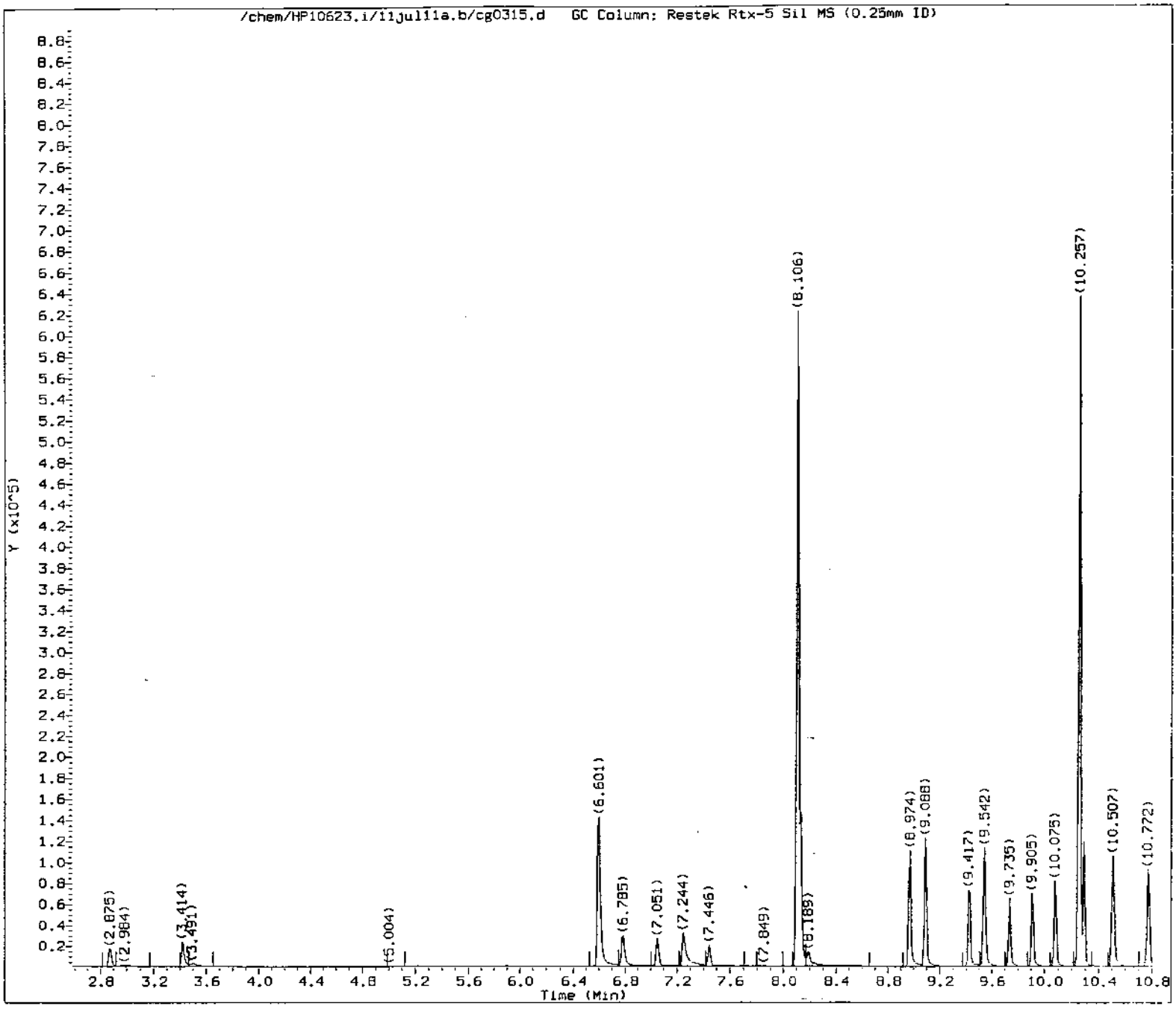
Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD0.50 Lab Sample ID: LPAH1921

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.875	88	36881	0.5064
3)	N-Nitrosodimethylamine	(1)	3.414	74	50745	0.4780
6)	1,4-Dichlorobenzene-d4	(1)	6.601	152	143845	1.0000
12)	Naphthalene-d8	(2)	8.106	136	572013	1.0000
13)	Naphthalene	(2)	8.133	128	306368	0.5014
14)	2-Methylnaphthalene	(2)	8.974	142	192994	0.4860
16)	1-Methylnaphthalene	(2)	9.087	142	182048	0.4918
18)	Acenaphthylene	(3)	10.075	152	245148	0.4494
19)	Acenaphthene-d10	(3)	10.257	164	312182	1.0000
20)	Dimethylphthalate	(3)	9.905	163	188922	0.4768
21)	Acenaphthene	(3)	10.291	154	176358	0.4961
22)	Diethylphthalate	(3)	10.772	149	190428	0.4636
23)	Fluorene	(3)	10.935	166	191252	0.4799
24)	1,2-Diphenylhydrazine	(4)	11.117	77	187627	0.4288
25)	N-Nitrosodiphenylamine	(4)	11.069	169	122193	0.5250
26)	NDPA as diphenylamine	(4)	11.069	169	122193	0.5250
28)	Hexachlorobenzene	(4)	11.626	284	47849	0.4874
30)	Phenanthrene-d10	(4)	12.097	188	489364	1.0000
31)	Phenanthrene	(4)	12.126	178	282998	0.4888
32)	Anthracene	(4)	12.183	178	265814	0.4648
33)	Di-n-butylphthalate	(4)	12.798	149	251127	0.4118
35)	Fluoranthene	(4)	13.599	202	279061	0.4637
37)	Pyrene	(5)	13.881	202	294443	0.4828
39)	Butylbenzylphthalate	(5)	14.657	149	101787	0.4130
40)	bis(2-Ethylhexyl)phthalate	(5)	15.356	149	153657	0.4212
41)	Benzo(a)anthracene	(5)	15.356	228	227257	0.4634
42)	Chrysene-d12	(5)	15.372	240	377246	1.0000
43)	Chrysene	(5)	15.403	228	253523	0.4975
44)	Di-n-octylphthalate	(6)	16.115	149	237182	0.4042
45)	Benzo(b)fluoranthene	(6)	16.670	252	203349	0.4704
46)	Benzo(k)fluoranthene	(6)	16.701	252	214979	0.4886
47)	Benzo(e)pyrene	(6)	17.038	252	201119	0.4839
48)	Benzo(a)pyrene	(6)	17.108	252	188868	0.4689
49)	Perylene-d12	(6)	17.186	264	314177	1.0000
50)	Perylene	(6)	17.218	252	203185	0.4909
51)	Indeno(1,2,3-cd)pyrene	(6)	18.819	276	201361	0.4724
52)	Dibenz(a,h)anthracene	(6)	18.833	278	158749	0.4686
53)	Benzo(g,h,i)perylene	(6)	19.264	276	177038	0.4833
10)	Nitrobenzene-d5	(2)	7.243	82	99272	0.4560
17)	2-Fluorobiphenyl	(3)	9.417	172	191012	0.4955
38)	Terphenyl-d14	(5)	14.066	244	130442	0.4869

M = Compound was manually integrated. A = User selected an alternate hit

USF03 8020



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0315.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 22:14 Analyst ID: gjd01970

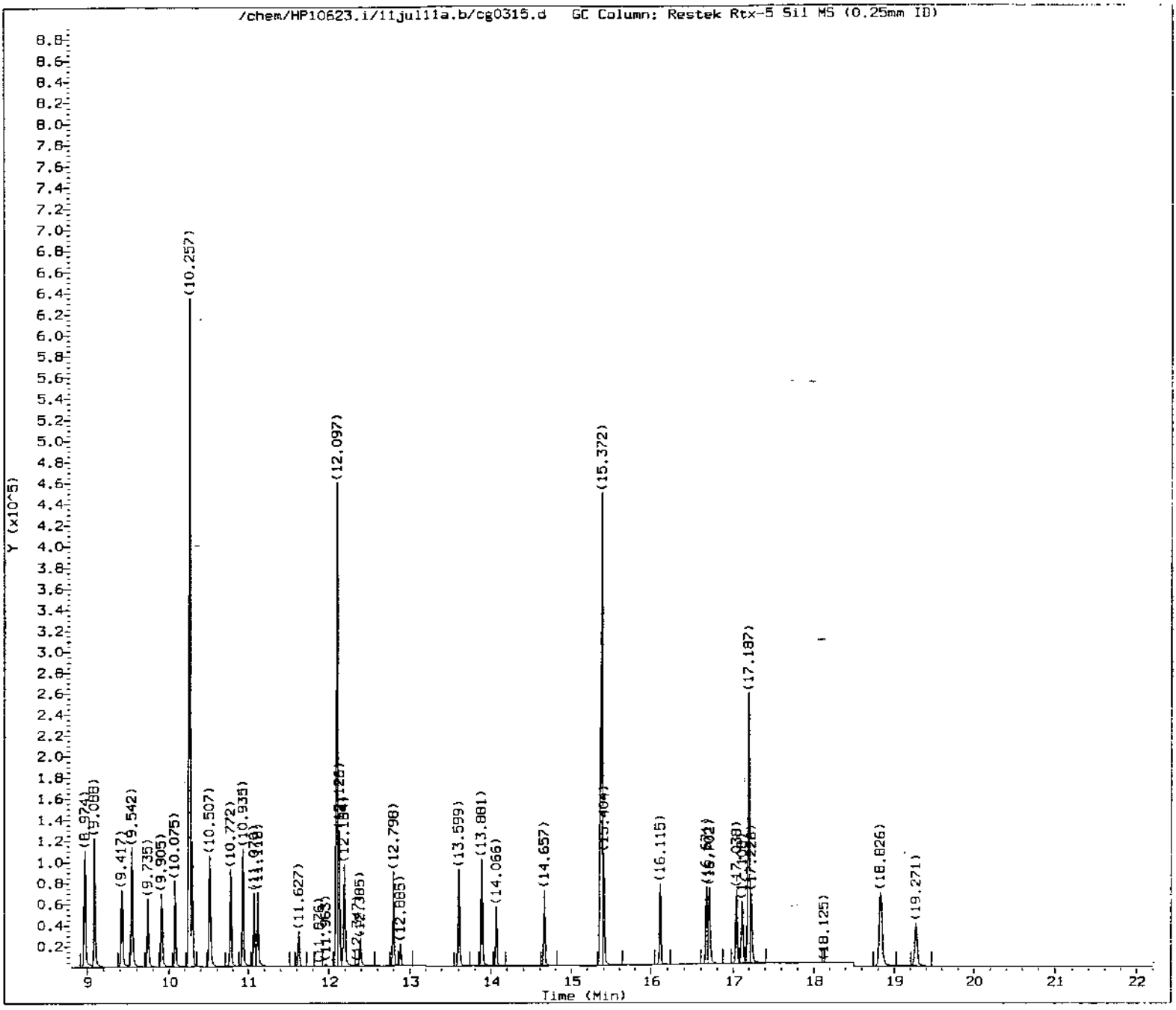
Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD0.20 Lab Sample ID: LPAH1921

USF&G 9829

JUL 12 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0315.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 22:14 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/m1lpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD0.20 Lab Sample ID: LPAH1921

JUL 12 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0315.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 22:14 Analyst ID: gjd01970

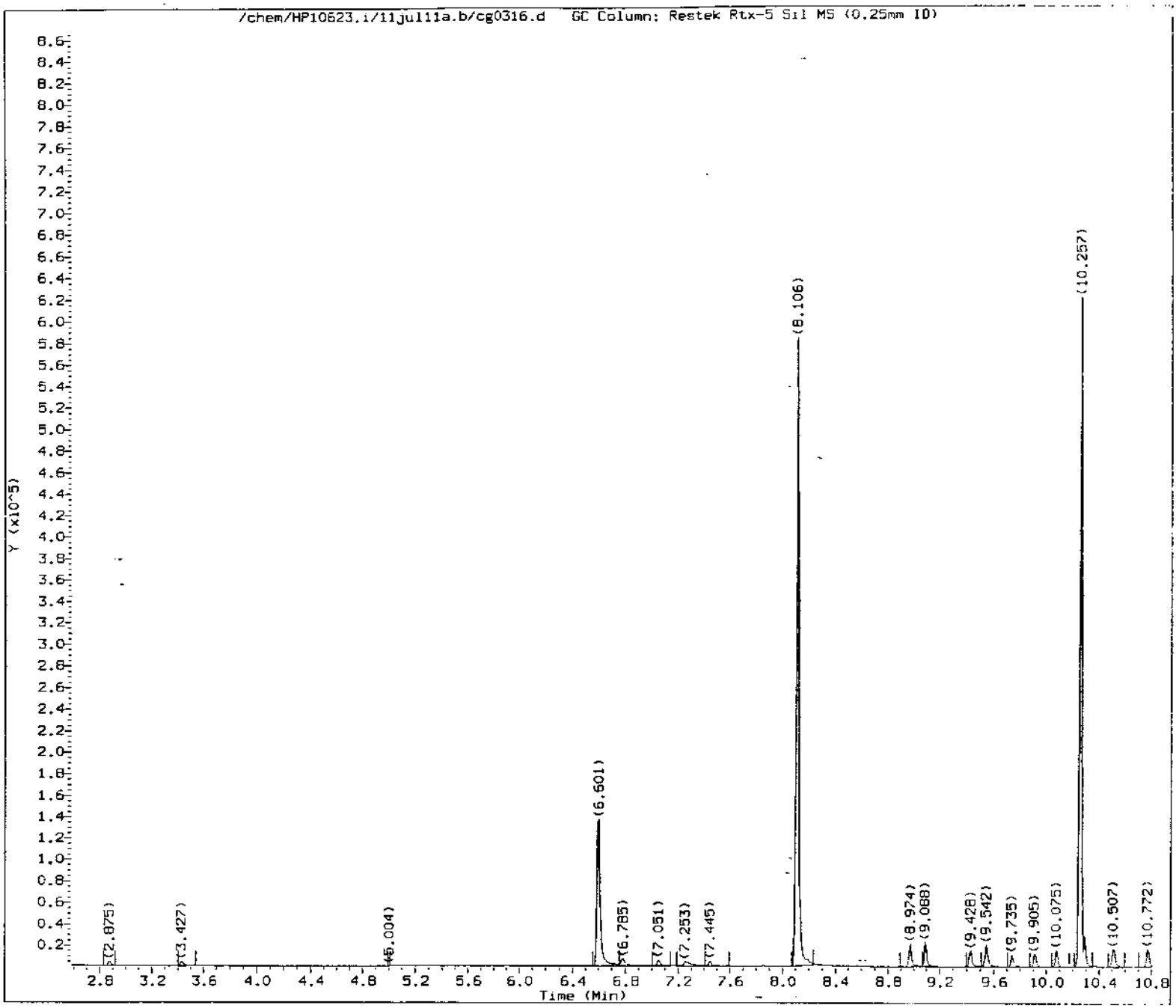
Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD0.20 Lab Sample ID: LPAH1921

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.875	88	15354	0.2070
3) N-Nitrosodimethylamine	(1)	3.420	74	20181	0.1906
6) 1,4-Dichlorobenzene-d4	(1)	6.601	152	145208	1.0000
12) Naphthalene-d8	(2)	8.106	136	570589	1.0000
13) Naphthalene	(2)	8.134	128	130562	0.2112
14) 2-Methylnaphthalene	(2)	8.974	142	79280	0.2001
16) 1-Methylnaphthalene	(2)	9.088	142	79526	0.2121
18) Acenaphthylene	(3)	10.075	152	94702	0.1773
19) Acenaphthene-d10	(3)	10.257	164	314397	1.0000
20) Dimethylphthalate	(3)	9.905	163	75139	0.1905
21) Acenaphthene	(3)	10.291	154	74128	0.2056
22) Diethylphthalate	(3)	10.772	149	75218	0.1852
23) Fluorene	(3)	10.935	166	77809	0.1950
24) 1,2-Diphenylhydrazine	(4)	11.118	77	68677	0.1648
25) N-Nitrosodiphenylamine	(4)	11.070	169	48747	0.2084
26) NDPA as diphenylamine	(4)	11.070	169	48747	0.2084
28) Hexachlorobenzene	(4)	11.627	284	19897	0.2030
30) Phenanthrene-d10	(4)	12.097	188	486611	1.0000
31) Phenanthrene	(4)	12.126	178	117956	0.2039
32) Anthracene	(4)	12.184	178	104357	0.1866
33) Di-n-butylphthalate	(4)	12.798	149	90280	0.1569
35) Fluoranthene	(4)	13.608	202	111052	0.1883
37) Pyrene	(5)	13.890	202	117761	0.1969
39) Butylbenzylphthalate	(5)	14.657	149	35836	0.1559
40) bis(2-Ethylhexyl)phthalate	(5)	15.357	149	54613	0.1597
41) Benzo(a)anthracene	(5)	15.357	228	88785	0.1869
42) Chrysene-d12	(5)	15.372	240	371311	1.0000
43) Chrysene	(5)	15.404	228	105297	0.2079
44) Di-n-octylphthalate	(6)	16.115	149	81590	0.1507
45) Benzo(b)fluoranthene	(6)	16.671	252	78132	0.1874
46) Benzo(k)fluoranthene	(6)	16.702	252	90305	0.2076
47) Benzo(e)pyrene	(6)	17.038	252	82228	0.2016
48) Benzo(a)pyrene	(6)	17.108	252	74588	0.1912
49) Perylene-d12	(6)	17.187	264	307684	1.0000
50) Perylene	(6)	17.226	252	84881	0.2074
51) Indeno(1,2,3-cd)pyrene	(6)	18.819	276	80460	0.1942
52) Dibenz(a,h)anthracene	(6)	18.833	278	64091	0.1945
53) Benzo(g,h,i)perylene	(6)	19.271	276	72276	0.2012
10) Nitrobenzene-d5	(2)	7.244	82	38751	0.1824
17) 2-Fluorobiphenyl	(3)	9.428	172	78944	0.2027
38) Terphenyl-d14	(5)	14.066	244	52892	0.2005

M = Compound was manually integrated. A = User selected an alternate hit

USF93 8831



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0316.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 22:45 Analyst ID: gjd01970

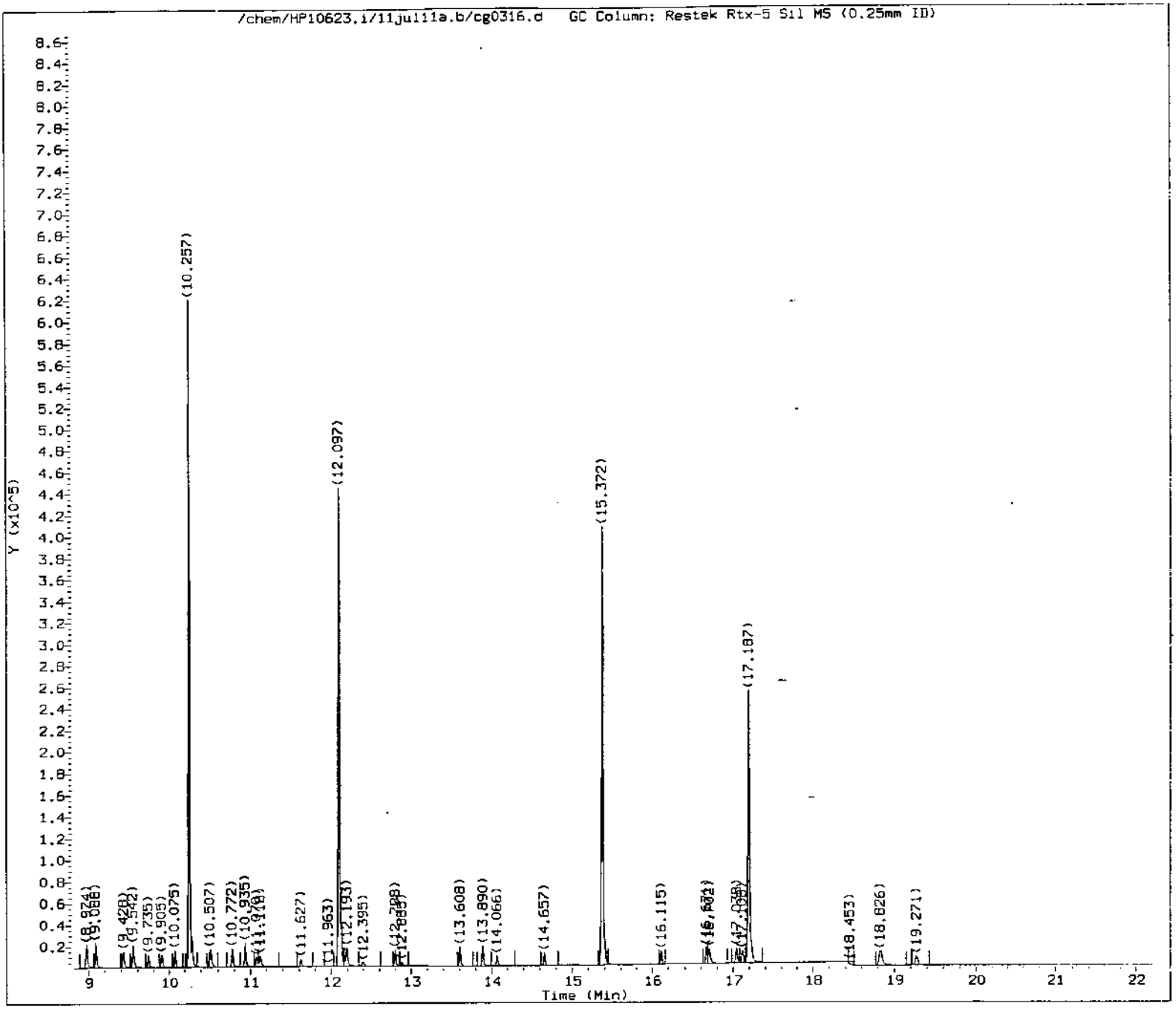
Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD0.05 Lab Sample ID: LPAH1921

HSI 89 8832

JUL 12 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0316.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 22:45 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/m1lpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD0.05 Lab Sample ID: LPAH1921

SSF00 0833

JUL 12 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0316.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 22:45 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

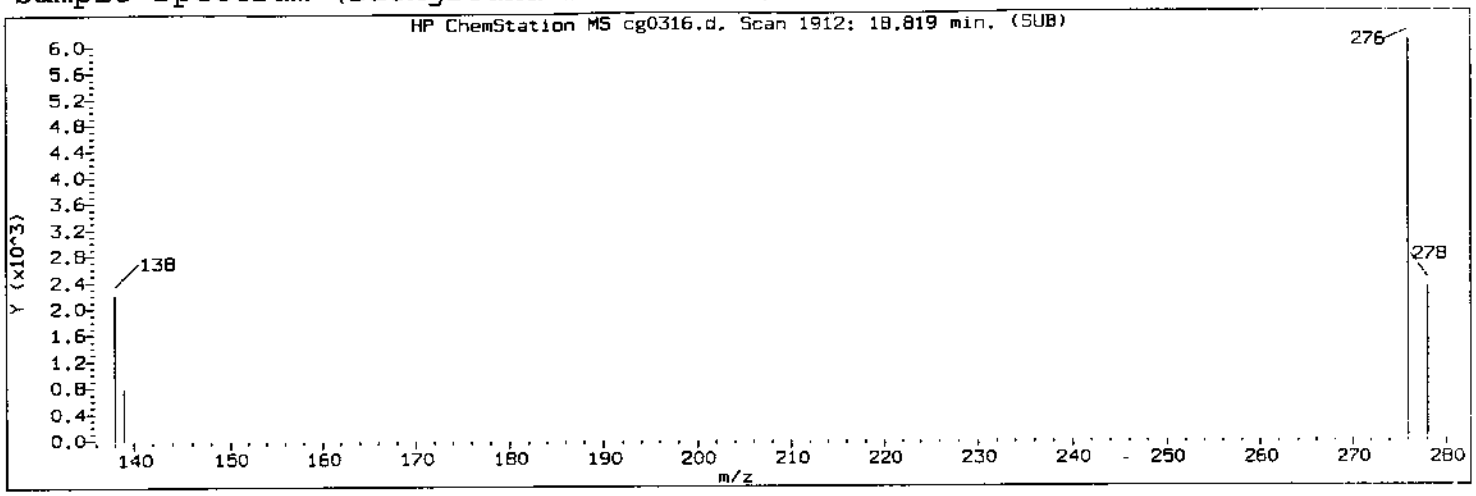
Sample Name: SSTD0.05 Lab Sample ID: LPAH1921

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.875	88	3558	0.0489
3)	N-Nitrosodimethylamine	(1)	3.427	74	4155	0.0413
6)	1,4-Dichlorobenzene-d4	(1)	6.601	152	142917	1.0000
12)	Naphthalene-d8	(2)	8.106	136	569439	1.0000
13)	Naphthalene	(2)	8.134	128	29307	0.0479
14)	2-Methylnaphthalene	(2)	8.974	142	16844	0.0437
16)	1-Methylnaphthalene	(2)	9.088	142	17506	0.0473
18)	Acenaphthylene	(3)	10.075	152	19464	0.0388
19)	Acenaphthene-d10	(3)	10.257	164	308776	1.0000
20)	Dimethylphthalate	(3)	9.905	163	15581	0.0416
21)	Acenaphthene	(3)	10.291	154	17136	0.0487
22)	Diethylphthalate	(3)	10.772	149	16239	0.0420
23)	Fluorene	(3)	10.935	166	16453	0.0431
24)	1,2-Diphenylhydrazine	(4)	11.118	77	13130	0.0341
25)	N-Nitrosodiphenylamine	(4)	11.079	169	10276	0.0456
26)	NDPA as diphenylamine	(4)	11.079	169	10276	0.0456
28)	Hexachlorobenzene	(4)	11.627	284	4521	0.0475
30)	Phenanthrene-d10	(4)	12.097	188	477626	1.0000
31)	Phenanthrene	(4)	12.126	178	26416	0.0471
32)	Anthracene	(4)	12.193	178	21238	0.0402
33)	Di-n-butylphthalate	(4)	12.798	149	17055	0.0323
35)	Fluoranthene	(4)	13.608	202	22811	0.0408
37)	Pyrene	(5)	13.890	202	23937	0.0429
39)	Butylbenzylphthalate	(5)	14.657	149	6744	0.0327
40)	bis(2-Ethylhexyl)phthalate	(5)	15.357	149	10481	0.0340
41)	Benzo(a)anthracene	(5)	15.357	228	18340	0.0416
42)	Chrysene-d12	(5)	15.372	240	356729	1.0000
43)	Chrysene	(5)	15.404	228	23544	0.0486
44)	Di-n-octylphthalate	(6)	16.115	149	13565	0.0279
45)	Benzo(b)fluoranthene	(6)	16.671	252	15663	0.0400
46)	Benzo(k)fluoranthene	(6)	16.702	252	19603	0.0467
47)	Benzo(e)pyrene	(6)	17.038	252	17316	0.0444
48)	Benzo(a)pyrene	(6)	17.108	252	15224	0.0413
49)	Perylene-d12	(6)	17.187	264	300963	1.0000
50)	Perylene	(6)	17.226	252	20188	0.0504
51)	Indeno(1,2,3-cd)pyrene	(6)	18.819	276	16502M	0.0420
52)	Dibenz(a,h)anthracene	(6)	18.840	278	13471	0.0430
53)	Benzo(g,h,i)perylene	(6)	19.271	276	15597	0.0452
10)	Nitrobenzene-d5	(2)	7.253	82	7861	0.0387
17)	2-Fluorobiphenyl	(3)	9.428	172	17525	0.0465
38)	Terphenyl-d14	(5)	14.066	244	11044	0.0445

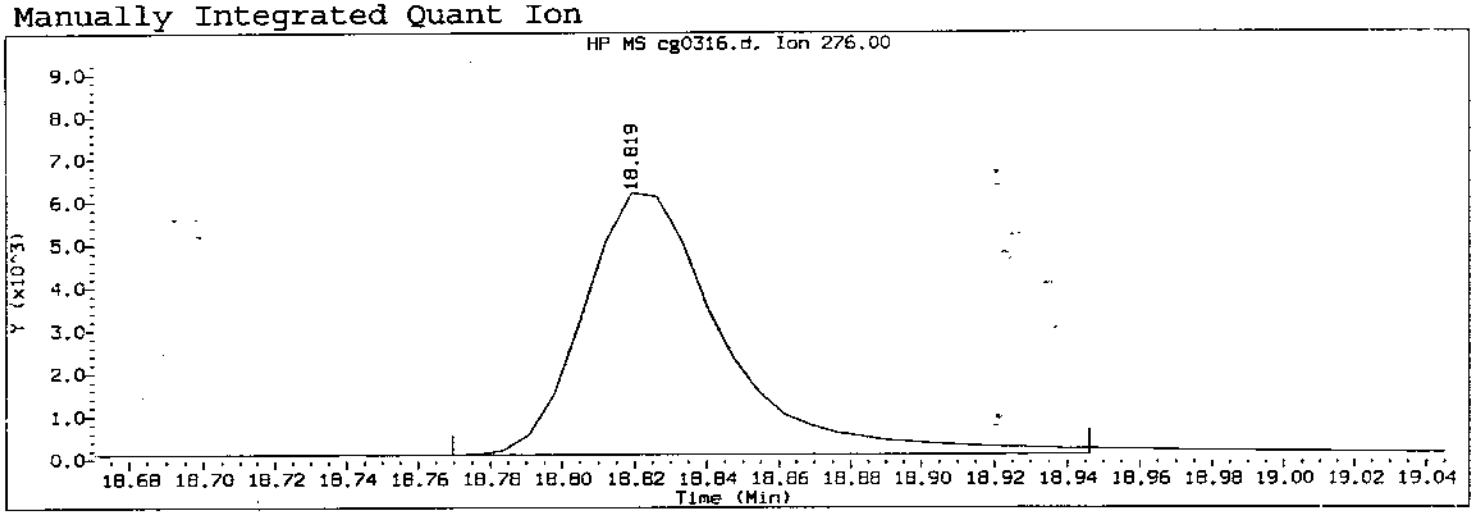
M = Compound was manually integrated. A = User selected an alternate hit

USF03 8834

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul11a.b/cg0316.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 22:45 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:47
Date, time and analyst ID of latest file update: 12-Jul-2011 08:47 jmg00346

Sample Name: SSTD0.05 Lab Sample ID: LPAH1921

Compound Number	:	51
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	1912
Retention Time (minutes)	:	18.819
Quant Ion	:	276
Area (flag)	:	16502 M
Concentration (ng/ul)	:	0.0420
Integration start scan	:	1904 Integration stop scan: 1929
Y at integration start	:	101 Y at integration end: 101

Reason for manual integration (circle one): missed peak ~~improper integration~~

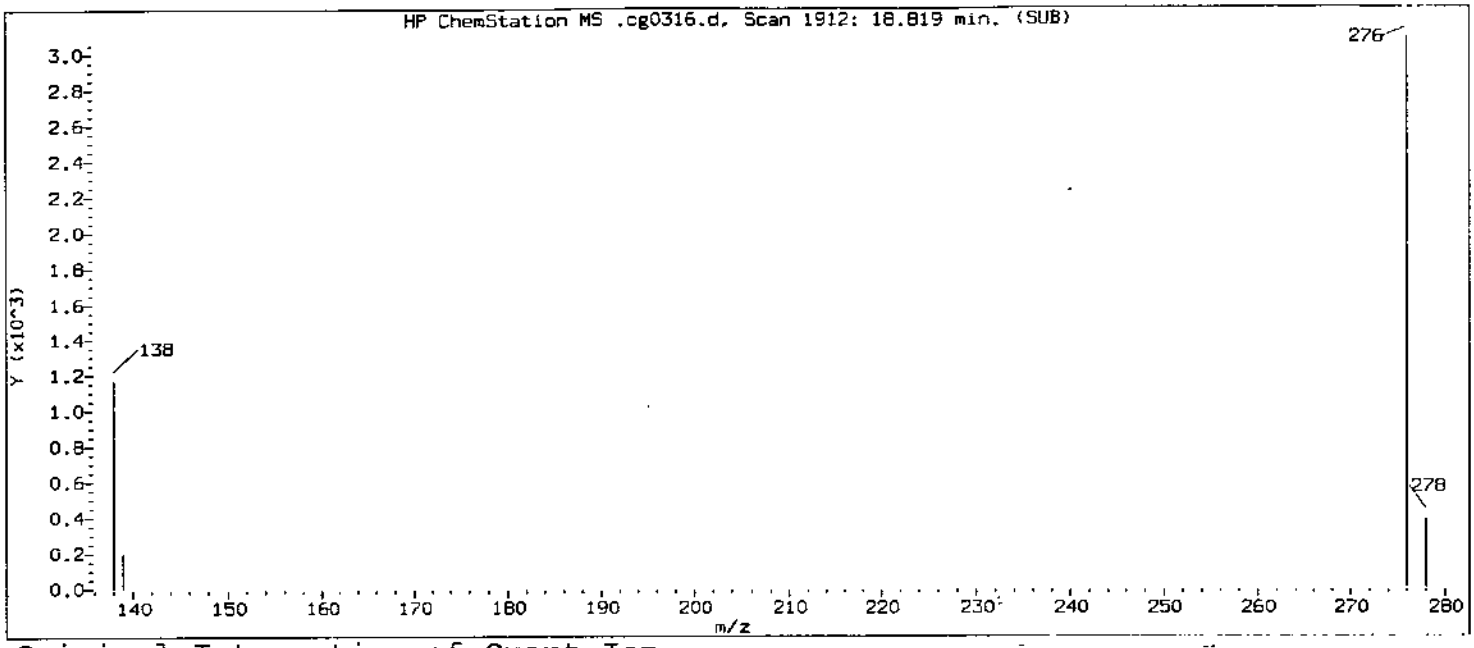
Analyst responsible for change: _____
JUL 12 2011

GC/MS audit/management approval: _____
Joe Gambler
Senior Chemist
JUL 12 2011

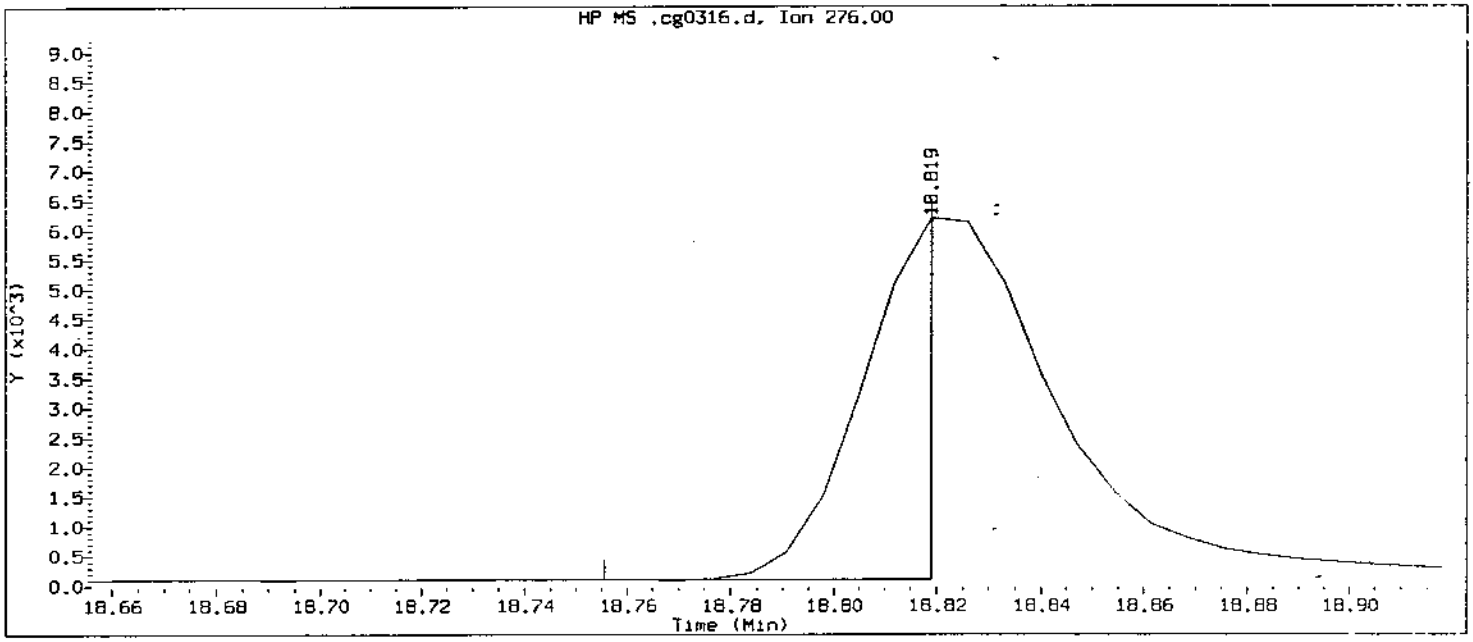
Manual Integration Report for data file /chem/HP10623.i/11jul11a.b/cg0316.d, generated on 07/12/2011 at 08:47

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul11a.b/cg0316.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 22:45 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 11-JUL-2011 23:10
Date, time and analyst ID of latest file update: 11-Jul-2011 23:10 Automation

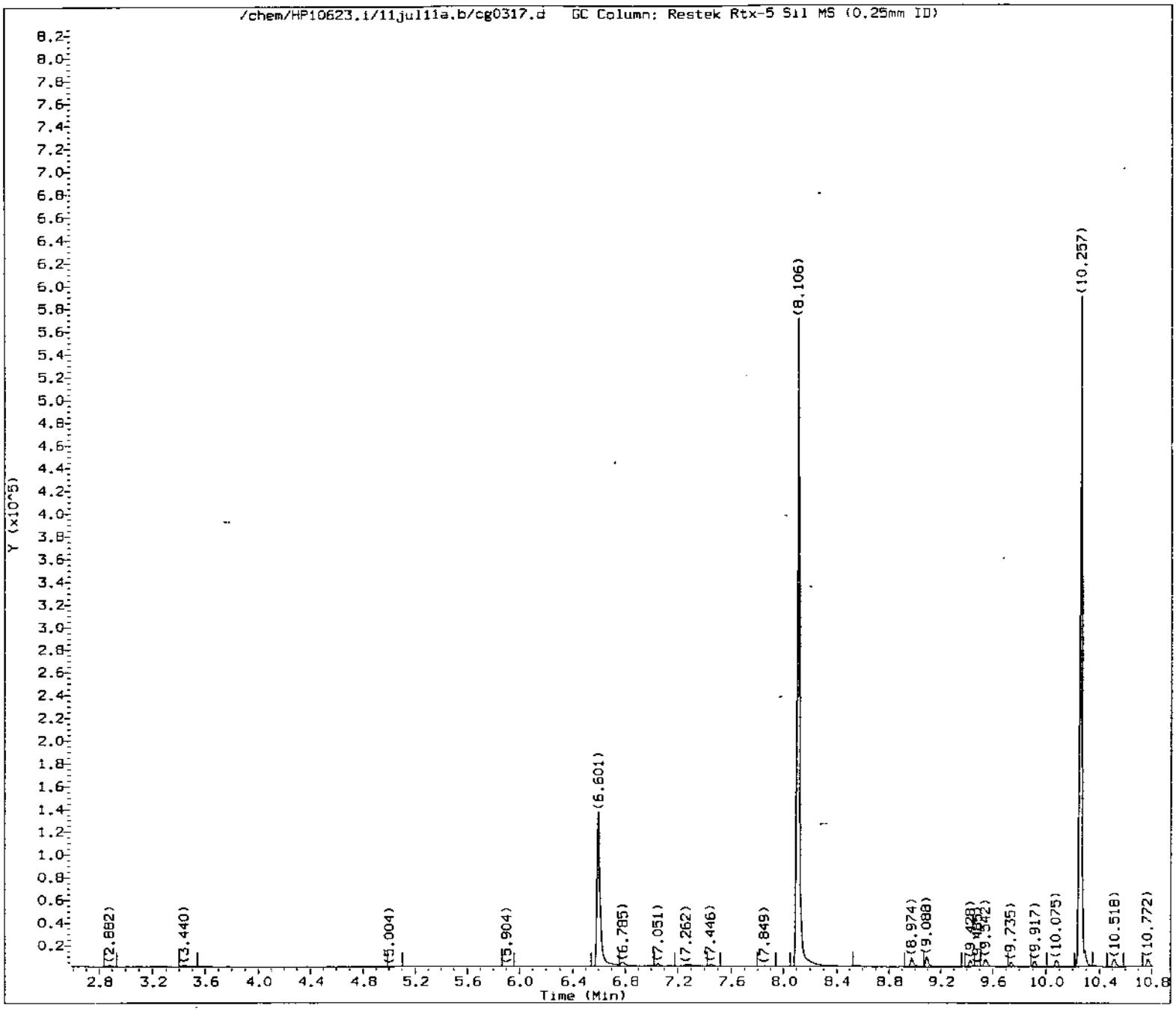
Sample Name: SSTD0.05 Lab Sample ID: LPAH1921

Compound Number	:	51
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	1912
Retention Time (minutes)	:	18.819
Quant Ion	:	276
Area	:	5566
Concentration (ng/ul)	:	0.0156
Integration start scan	:	1902 Integration stop scan: 1911
Y at integration start	:	103 Y at integration end: 103

JUL 12 2011

Joe Gambler
Senior Chemist

Original Integration Report for data file /chem/HP10623.i/11jul11a.b/cg0316.d, generated on 07/12/2011 at 08:47



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0317.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:16 Analyst ID: gjd01970

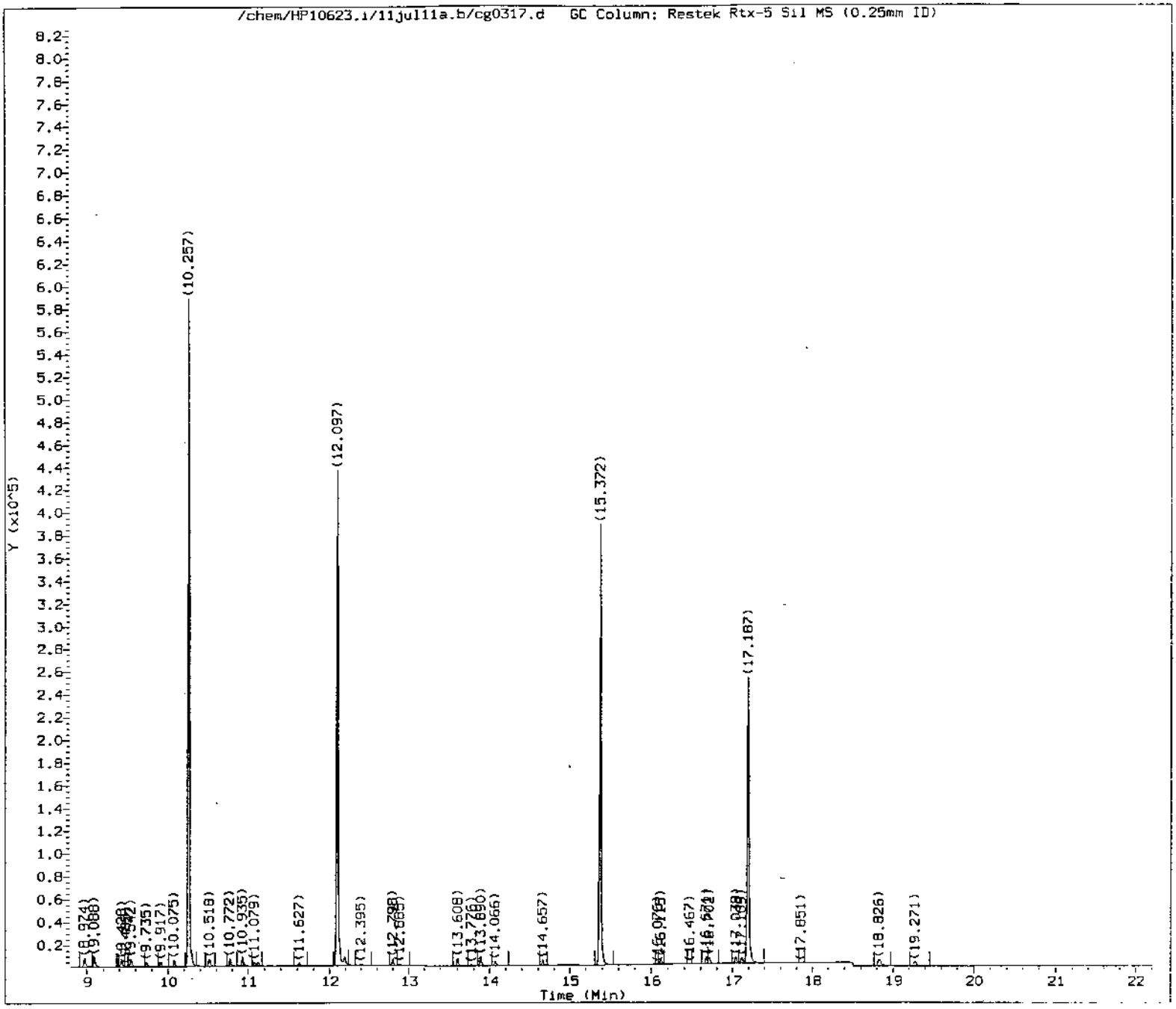
Method used: /chem/HP10623.i/11jul11a.b/m11pah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 08:57 jmg00346

Sample Name: SSTD0.02 Lab Sample ID: LPAHMDL1921

USF03 8837

JUL 12 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0317.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:16 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 08:57 jmg00346

Sample Name: SSTD0.02 Lab Sample ID: LPAHMDL1921

JUL 12 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0317.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:16 Analyst ID: gjd01970

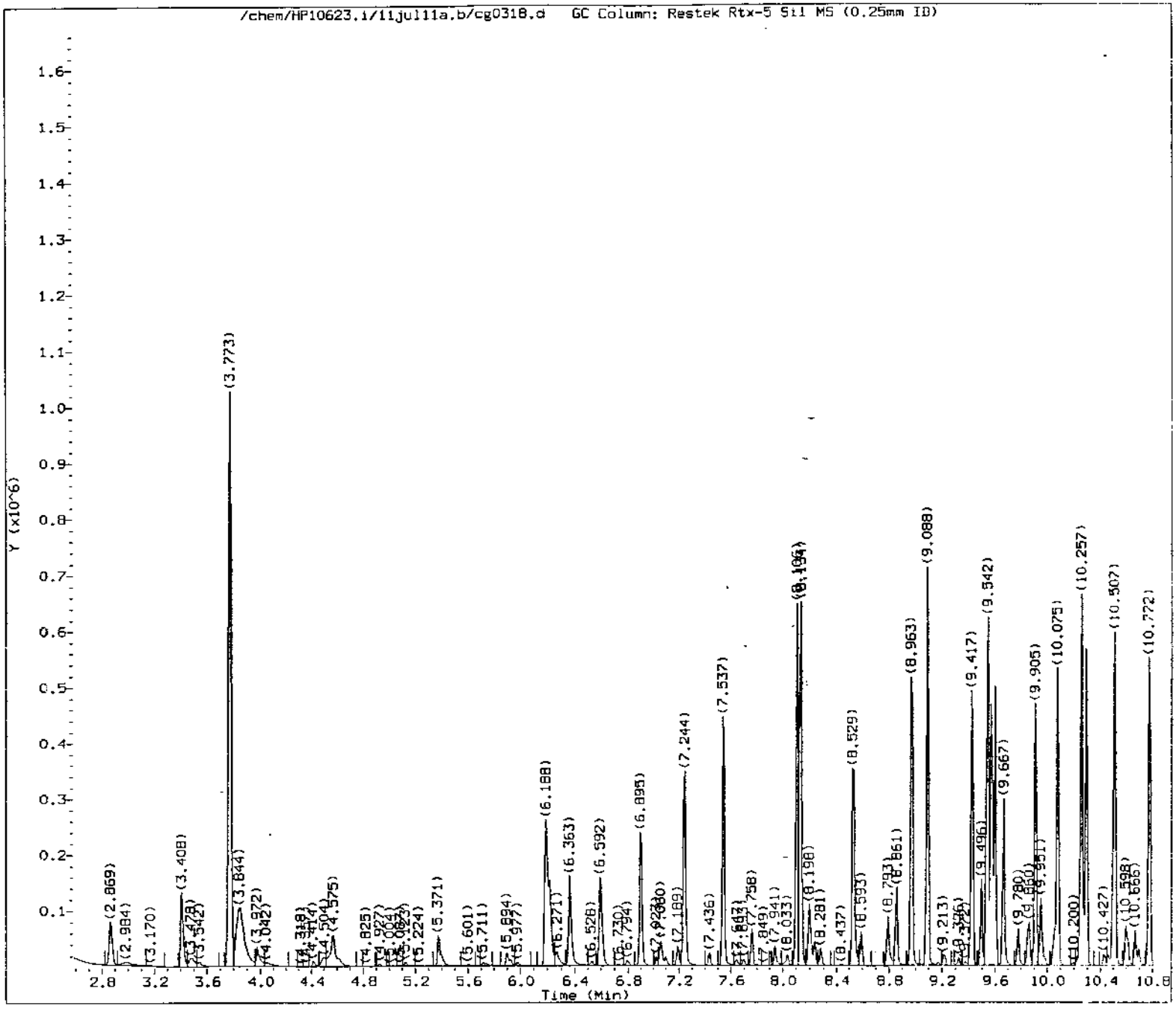
Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 08:57 jmg00346

Sample Name: SSTD0.02 Lab Sample ID: LPAHMDL1921

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.882	88	1711	0.0237
3)	N-Nitrosodimethylamine	(1)	3.440	74	2123	0.0212
6)	1,4-Dichlorobenzene-d4	(1)	6.601	152	141859	1.0000
12)	Naphthalene-d8	(2)	8.106	136	573207	1.0000
13)	Naphthalene	(2)	8.134	128	12746	0.0207
14)	2-Methylnaphthalene	(2)	8.974	142	7215	0.0186
16)	1-Methylnaphthalene	(2)	9.088	142	7741	0.0208
18)	Acenaphthylene	(3)	10.075	152	8202	0.0167
19)	Acenaphthene-d10	(3)	10.257	164	302048	1.0000
20)	Dimethylphthalate	(3)	9.917	163	6753	0.0184
21)	Acenaphthene	(3)	10.280	154	8108	0.0235
22)	Diethylphthalate	(3)	10.772	149	8136	0.0215
23)	Fluorene	(3)	10.935	166	7010	0.0188
24)	1,2-Diphenylhydrazine	(4)	11.118	77	5335	0.0132
25)	N-Nitrosodiphenylamine	(4)	11.079	169	4573	0.0205
26)	NDPA as diphenylamine	(4)	11.079	169	4573	0.0205
28)	Hexachlorobenzene	(4)	11.627	284	1964	0.0209
30)	Phenanthrene-d10	(4)	12.097	188	471768	1.0000
31)	Phenanthrene	(4)	12.126	178	11938	0.0215
32)	Anthracene	(4)	12.193	178	9376	0.0180
33)	Di-n-butylphthalate	(4)	12.798	149	7403	0.2022
35)	Fluoranthene	(4)	13.608	202	9920	0.0180
37)	Pyrene	(5)	13.890	202	10552	0.0190
39)	Butylbenzylphthalate	(5)	14.657	149	3030	0.1386
40)	bis(2-Ethylhexyl)phthalate	(5)	15.357	149	5526	0.1524
41)	Benzo(a)anthracene	(5)	15.357	228	8269	0.0189
42)	Chrysene-d12	(5)	15.372	240	354186	1.0000
43)	Chrysene	(5)	15.404	228	10408	0.0217
44)	Di-n-octylphthalate	(6)	16.115	149	5698	0.1816
45)	Benzo(b)fluoranthene	(6)	16.671	252	6797	0.0173
46)	Benzo(k)fluoranthene	(6)	16.702	252	8661	0.0205
47)	Benzo(e)pyrene	(6)	17.038	252	7526	0.0192
48)	Benzo(a)pyrene	(6)	17.109	252	6632	0.0179
49)	Perylene-d12	(6)	17.187	264	302171	1.0000
50)	Perylene	(6)	17.226	252	9357	0.0233
51)	Indeno(1,2,3-cd)pyrene	(6)	18.826	276	7495	0.0190
52)	Dibenz(a,h)anthracene	(6)	18.833	278	6009	0.0191
53)	Benzo(g,h,i)perylene	(6)	19.271	276	6864	0.0198
10)	Nitrobenzene-d5	(2)	7.262	82	3309	0.0162
17)	2-Fluorobiphenyl	(3)	9.428	172	7808	0.0212
38)	Terphenyl-d14	(5)	14.066	244	4851	0.0197

M = Compound was manually integrated. A = User selected an alternate hit

USP93 9039



Quant Report

Target Revision 3.5

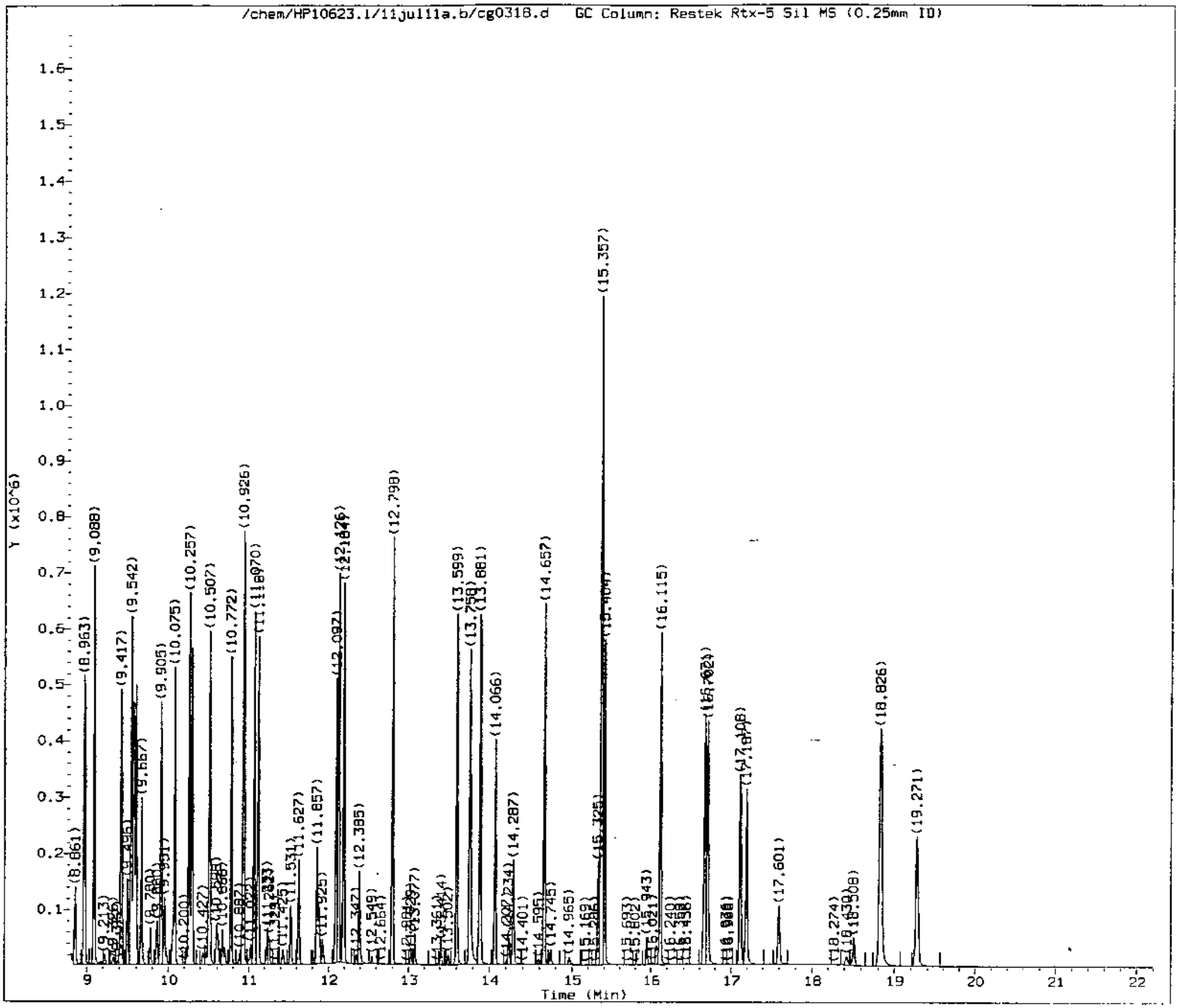
Data File: /chem/HP10623.i/11jul11a.b/cg0318.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:47 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 09:10 jmg00346

Sample Name: SSTD001 Lab Sample ID: LPAH[illegible]CV1381

JUL 12 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0318.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:47 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 09:10 jmg00346

Sample Name: SSTD001 Lab Sample ID: LPAHICV1381

USF83 5841

JUL 12 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul11a.b/cg0318.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:47 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 09:10 jmg00346

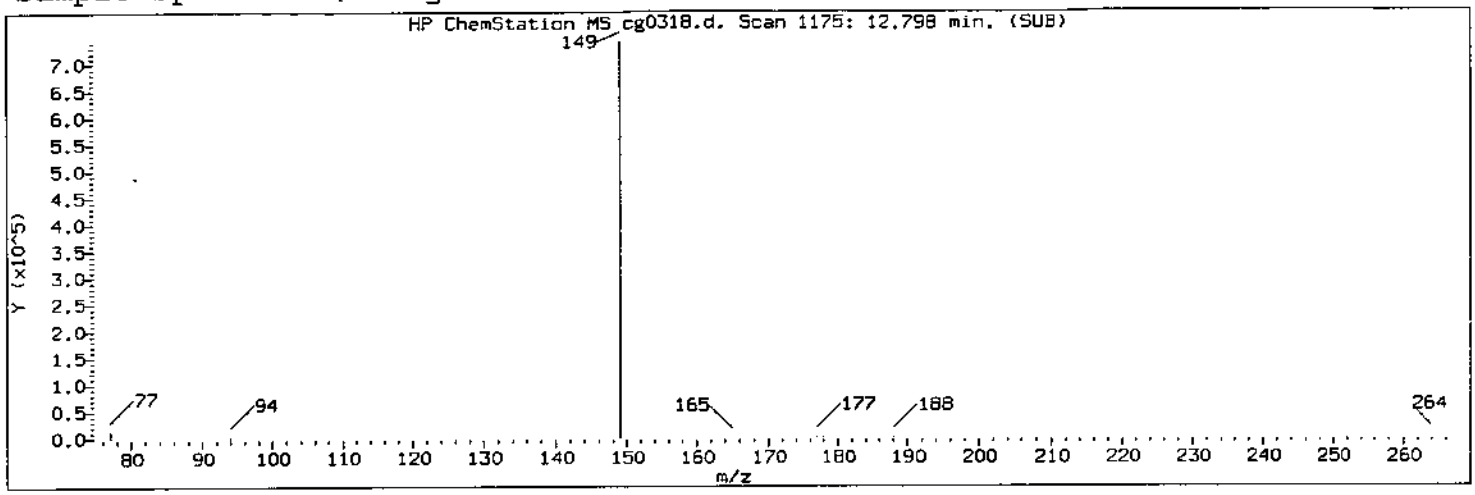
Sample Name: SSTD001 Lab Sample ID: LPAHICV1381

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.869	88	70355	0.9920
3)	N-Nitrosodimethylamine	(1)	3.408	74	103191	1.0502
6)	1,4-Dichlorobenzene-d4	(1)	6.601	152	139440	1.0000
12)	Naphthalene-d8	(2)	8.106	136	554405	1.0000
13)	Naphthalene	(2)	8.134	128	597550	1.0032
14)	2-Methylnaphthalene	(2)	8.974	142	367244	0.9781
16)	1-Methylnaphthalene	(2)	9.088	142	376812	1.0456
18)	Acenaphthylene	(3)	10.075	152	519711	1.0278
19)	Acenaphthene-d10	(3)	10.257	164	310933	1.0000
20)	Dimethylphthalate	(3)	9.905	163	423440	1.1223
21)	Acenaphthene	(3)	10.291	154	347370	0.9795
22)	Diethylphthalate	(3)	10.772	149	437984	1.1251
23)	Fluorene	(3)	10.935	166	407198	1.0604
24)	1,2-Diphenylhydrazine	(4)	11.118	77	486516	1.0886
25)	N-Nitrosodiphenylamine	(4)	11.070	169	346986	1.4081
26)	NDPA as diphenylamine	(4)	11.070	169	346986	1.4081
28)	Hexachlorobenzene	(4)	11.627	284	104996	1.0093
30)	Phenanthrene-d10	(4)	12.097	188	521758	1.0000
31)	Phenanthrene	(4)	12.126	178	610169	0.9952
32)	Anthracene	(4)	12.184	178	602944	1.0448
33)	Di-n-butylphthalate	(4)	12.798	149	677441M	1.0742
35)	Fluoranthene	(4)	13.599	202	629475	1.0318
37)	Pyrene	(5)	13.890	202	672561	0.9671
39)	Butylbenzylphthalate	(5)	14.657	149	292904	1.0180
40)	bis(2-Ethylhexyl)phthalate	(5)	15.357	149	420331	1.0023
41)	Benzo(a)anthracene	(5)	15.357	228	538313	0.9796
42)	Chrysene-d12	(5)	15.372	240	444176	1.0000
43)	Chrysene	(5)	15.404	228	549460	0.9117
44)	Di-n-octylphthalate	(6)	16.115	149	606010	0.9319
45)	Benzo(b)fluoranthene	(6)	16.671	252	478347	1.0021
46)	Benzo(k)fluoranthene	(6)	16.702	252	475479	0.9299
48)	Benzo(a)pyrene	(6)	17.108	252	418058	0.9310
49)	Perylene-d12	(6)	17.187	264	366474	1.0000
51)	Indeno(1,2,3-cd)pyrene	(6)	18.819	276	437585	0.9149
52)	Dibenz(a,h)anthracene	(6)	18.833	278	349226	0.9148
53)	Benzo(g,h,i)perylene	(6)	19.271	276	378067	0.9003
10)	Nitrobenzene-d5	(2)	7.244	82	240953	1.2198
17)	2-Fluorobiphenyl	(3)	9.417	172	401936	1.0582
38)	Terphenyl-d14	(5)	14.066	244	348358M	1.1279

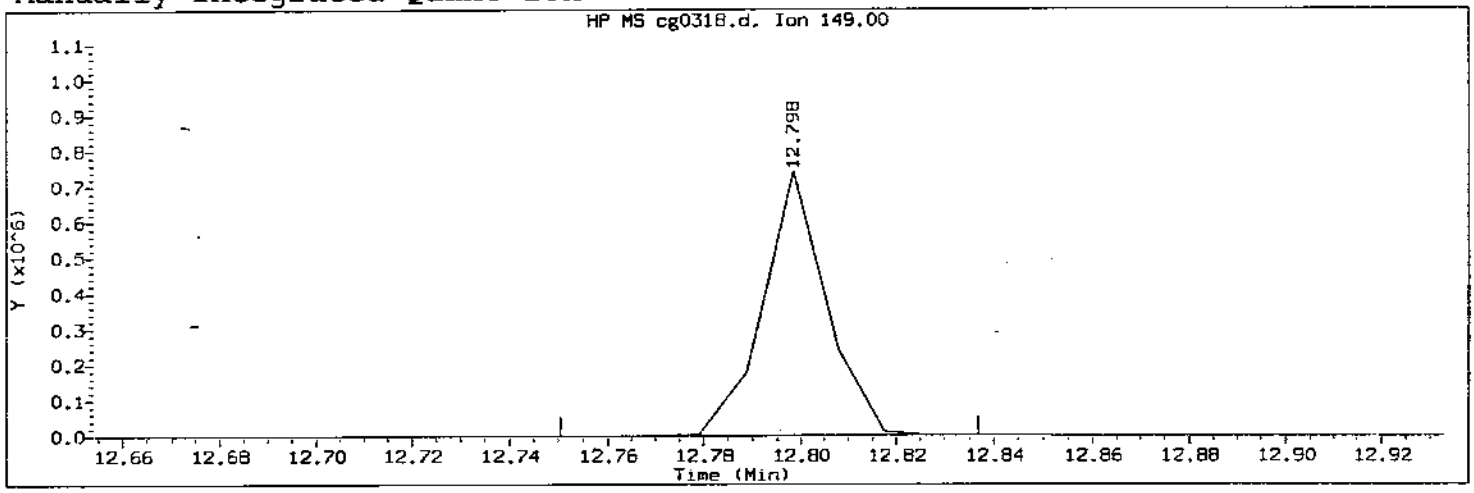
M = Compound was manually integrated. A = User selected an alternate hit

USF03 8842

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul11a.b/cg0318.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:47 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 09:10 jmg00346

Sample Name: SSTD001 Lab Sample ID: LPAHICV1381

Compound Number	:	33
Compound Name	:	Di-n-butylphthalate
Scan Number	:	1175
Retention Time (minutes)	:	12.798
Quant Ion	:	149
Area (flag)	:	677441 M
Concentration (ng/ul)	:	1.0742
Integration start scan	:	1169 Integration stop scan: 1178
Y at integration start	:	152 Y at integration end: 1518

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

JUL 12 2011

GC/MS audit/management approval: _____ 8843

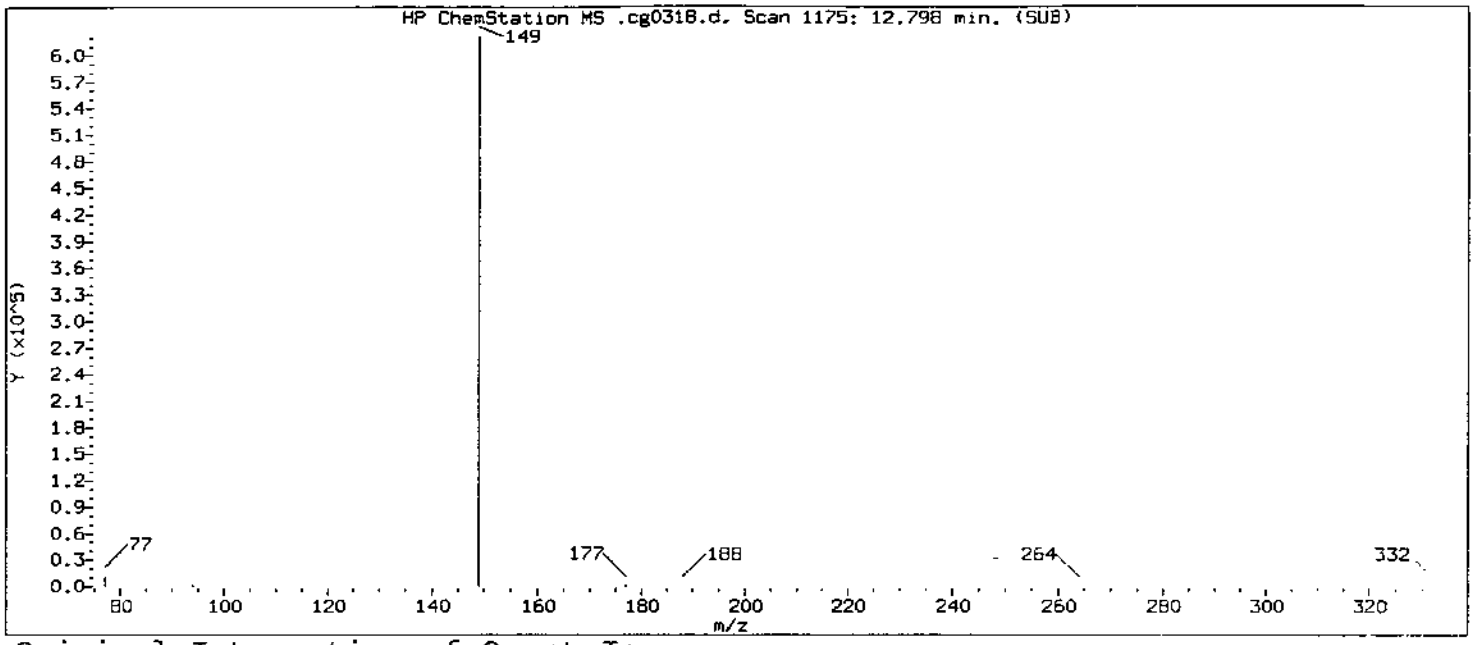
Joe Gambler
Senior Chemist

JUL 12 2011

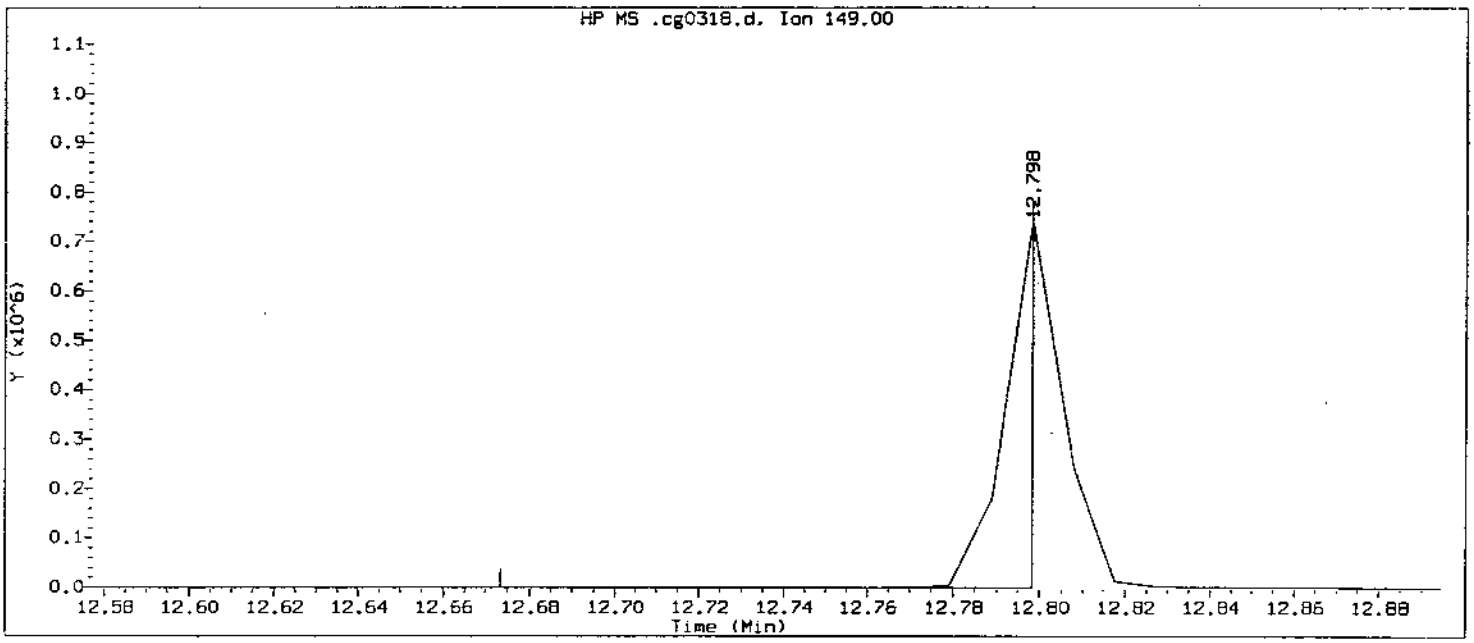
Manual Integration Report for data file /chem/HP10623.i/11jul11a.b/cg0318.d, generated on 07/12/2011 at 09:10

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul11a.b/cg0318.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:47 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 08:58 jmg00316

Sample Name: SSTD001 Lab Sample ID: LPAHICV138

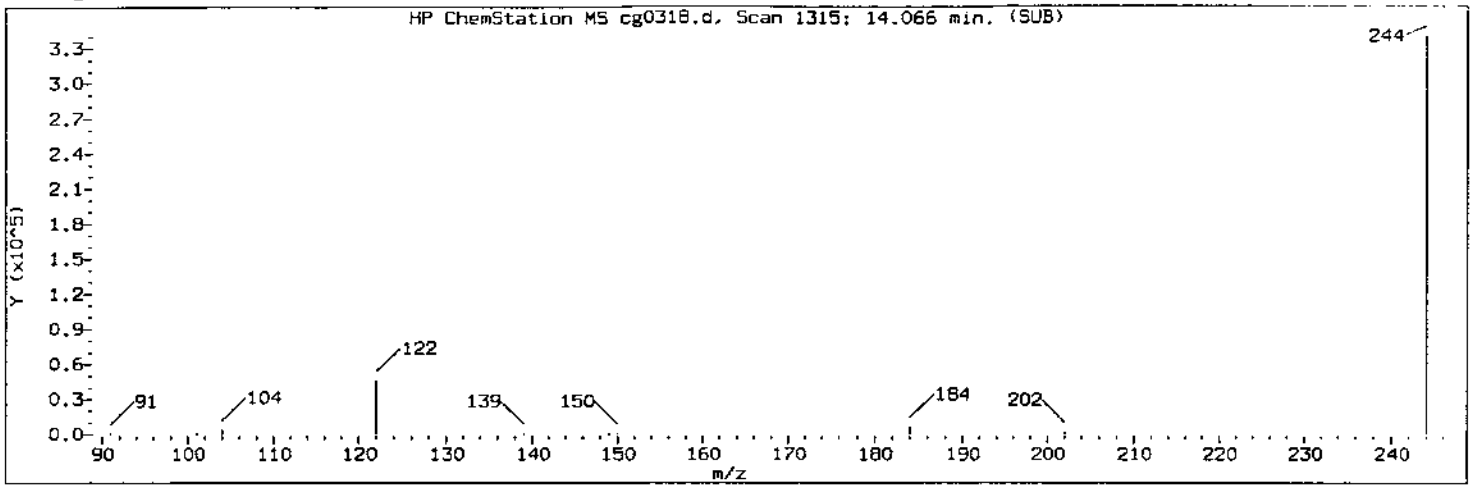
JUL 12 2011

Joe Gambler
Senior Chemist
USFSS 9044

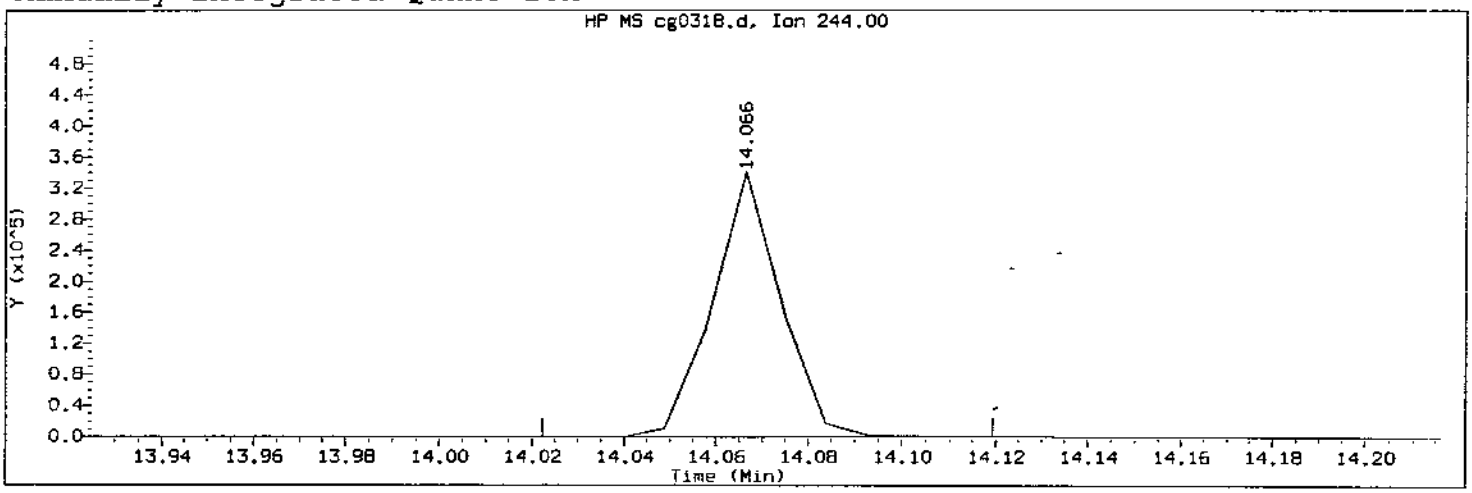
Compound Number	:	33
Compound Name	:	Di-n-butylphthalate
Scan Number	:	1175
Retention Time (minutes)	:	12.798
Quant Ion	:	149
Area	:	319420
Concentration (ng/ul)	:	0.6077
Integration start scan	:	1161 Integration stop scan: 1174
Y at integration start	:	134 Y at integration end: 134

Original Integration Report for data file /chem/HP10623.i/11jul11a.b/cg0318.d, generated on 07/12/2011 at 09:10

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul11a.b/cg0318.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:47 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/m11pah_2sim.m Sublist used: all1
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 09:10 jmg00346

Sample Name: SSTD001 Lab Sample ID: LPAHICV1381

Compound Number	:	38
Compound Name	:	Terphenyl-d14
Scan Number	:	1315
Retention Time (minutes)	:	14.066
Quant Ion	:	244
Area (flag)	:	348358 M
Concentration (ng/ul)	:	1.1279
Integration start scan	:	1309 Integration stop scan: 1320
Y at integration start	:	63 Y at integration end: 670

Reason for manual integration (circle one): missed peak improper integration

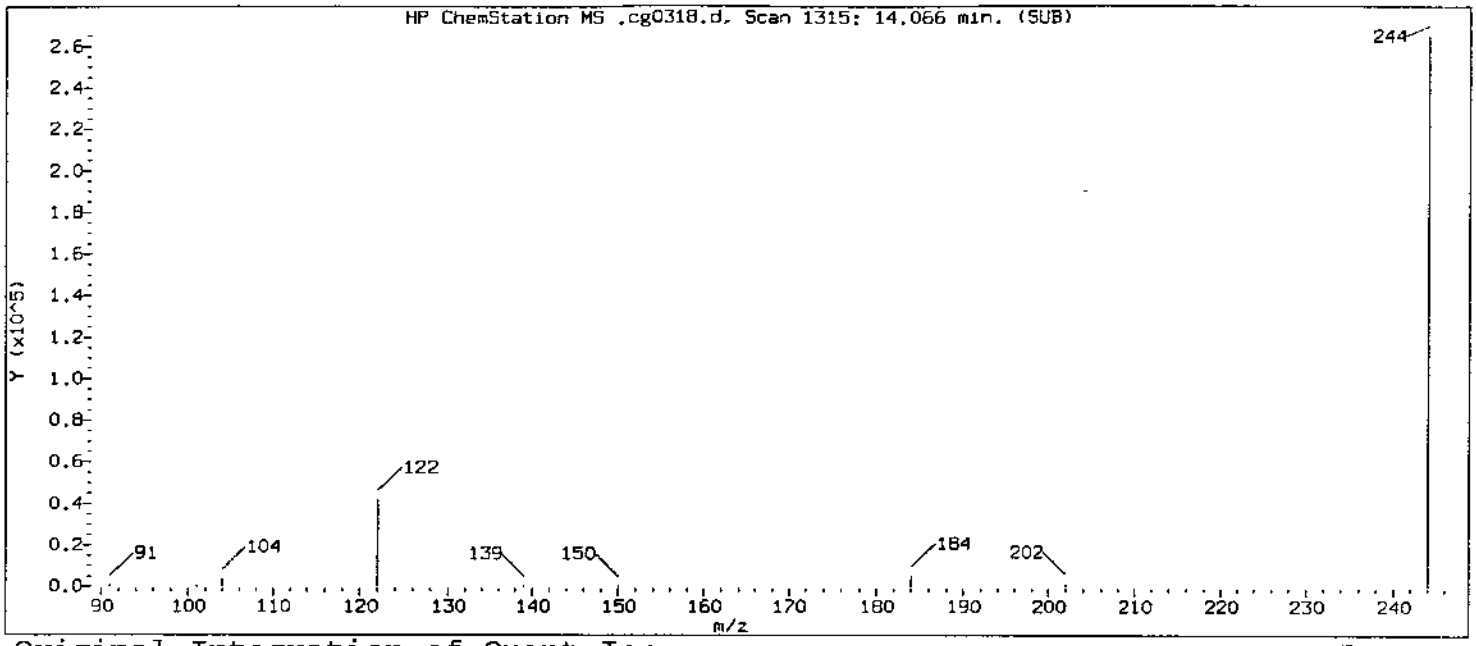
Analyst responsible for change: _____
JUL 12 2011

GC/MS audit/management approval: _____
Joe Gambler
Senior Chemist
JUL 12 2011

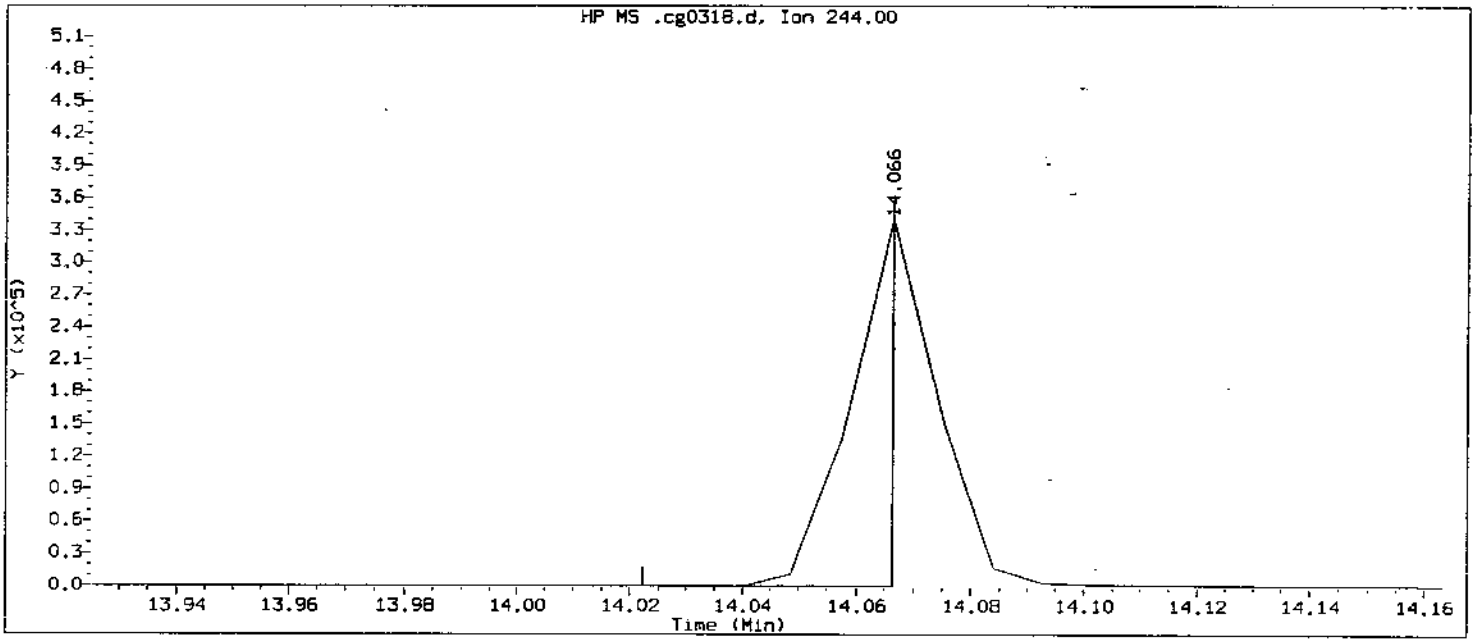
Manual Integration Report for data file /chem/HP10623.i/11jul11a.b/cg0318.d, generated on 07/12/2011 at 09:10

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul11a.b/cg0318.d Instrument ID: HP10623.i
Injection date and time: 11-JUL-2011 23:47 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul11a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 12-JUL-2011 08:56
Date, time and analyst ID of latest file update: 12-Jul-2011 08:59 jmg00346

Sample Name: SSTD001 Lab Sample ID: LPAHICV1381

Compound Number : 38
Compound Name : Terphenyl-d14
Scan Number : 1315
Retention Time (minutes): 14.066
Quant Ion : 244
Area : 168342
Concentration (ng/ul) : 0.5451
Integration start scan : 1309 Integration stop scan: 1314
Y at integration start : 63 Y at integration end: 63

JUL 12 2011

Joe Gambler USF93 8046
Senior Chemist

Original Integration Report for data file /chem/HP10623.i/11jul11a.b/cg0318.d, generated on 07/12/2011 at 09:10

Data File: /chem/HP10623.i/11jul14.b/cg0430.d

Date : 14-JUL-2011 07:08

Client ID: 50 NG/UL

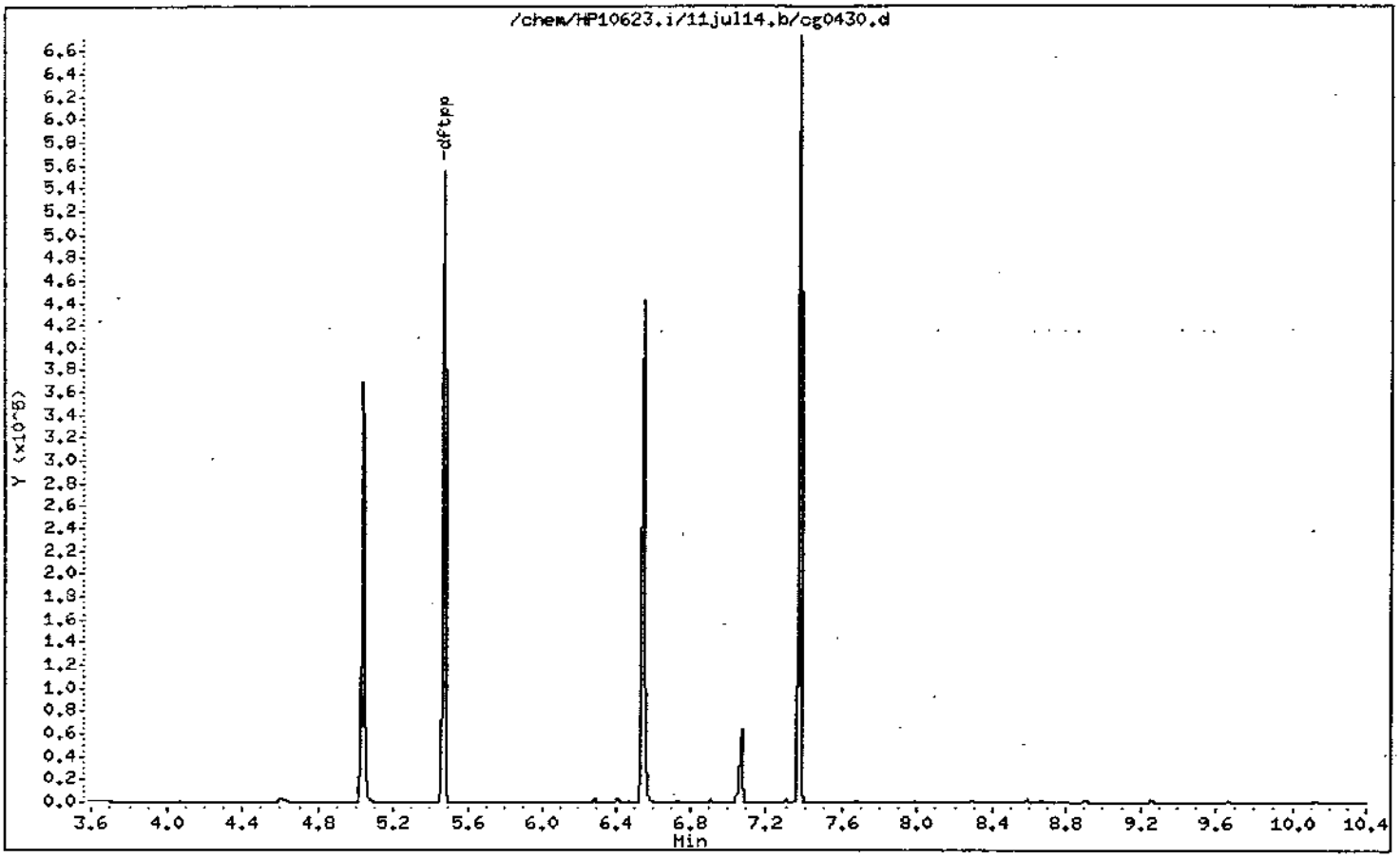
Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: jmg00346

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP10623.i/11jul14.b/cg0430.d

Date : 14-JUL-2011 07:08

Client ID: 50 NG/UL

Instrument: HP10623.i

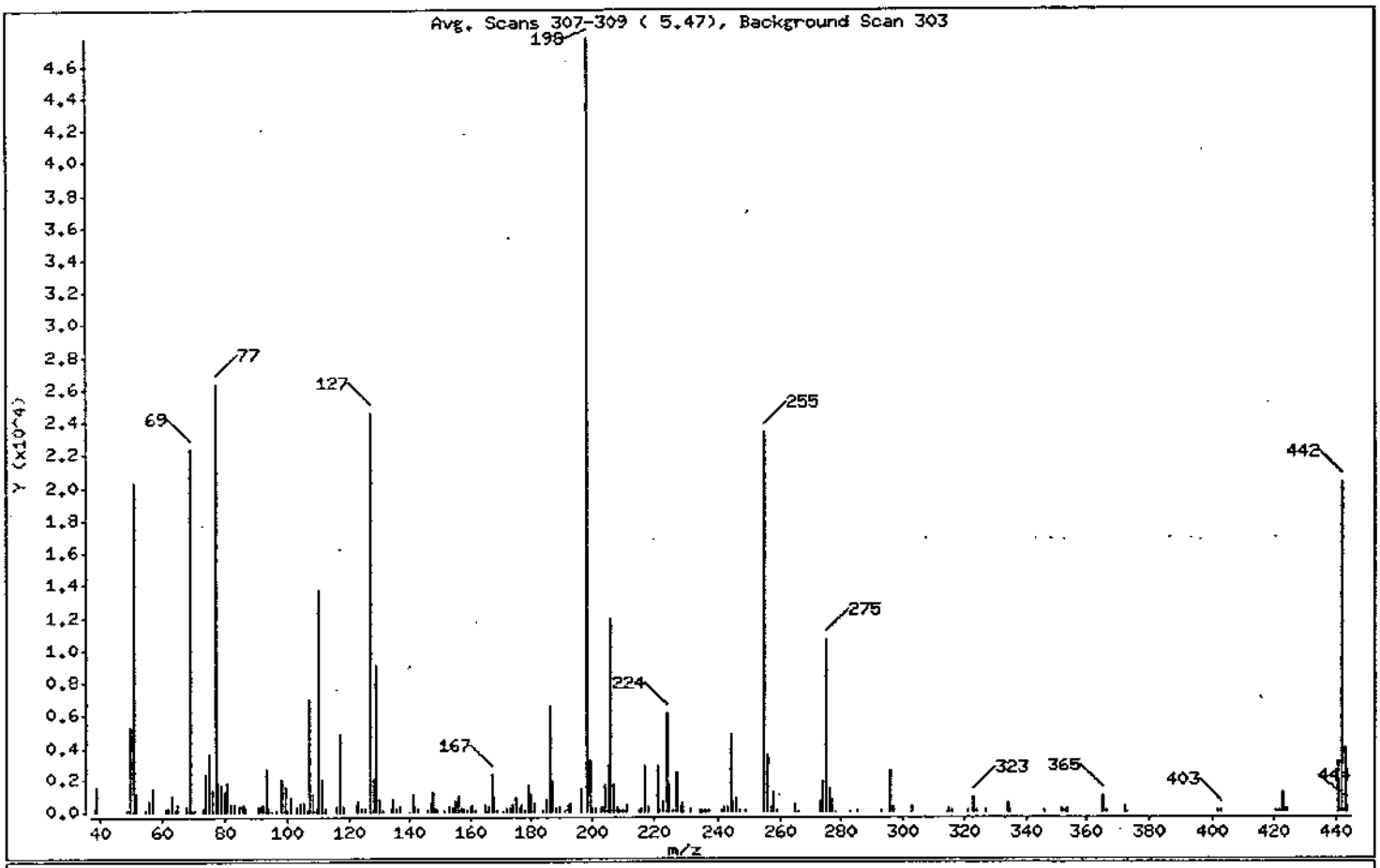
Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: jmg00346

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	42.56
68	Less than 2.00% of mass 69	0.59 (1.27)
69	Mass 69 relative abundance	46.87
70	Less than 2.00% of mass 69	0.24 (0.52)
127	40.00 - 60.00% of mass 198	51.39
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.65
275	10.00 - 30.00% of mass 198	22.40
365	Greater than 1.00% of mass 198	2.11
441	Present, but less than mass 443	6.36
442	40.00 - 99.99% of mass 198	42.53
443	17.00 - 23.00% of mass 442	8.37 (19.69)

USF03 8548

Data File: /chem/HP10623.i/11jul14.b/cg0430.d

Date : 14-JUL-2011 07:08

Client ID: 50 NG/UL

Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: jmg00346

Column phase: DB-5

Column diameter: 0.25

Data File: cg0430.d

Spectrum: Avg, Scans 307-309 (5.47), Background Scan 303

Location of Maximum: 198.00

Number of points: 197

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	222	112.00	216	180.00	1132	249.00	83
39.00	1549	116.00	372	181.00	572	255.00	23392
49.00	150	117.00	4870	184.00	68	256.00	3477
50.00	5284	118.00	382	185.00	775	257.00	280
51.00	20304	122.00	455	186.00	6545	258.00	1231
52.00	1061	123.00	665	187.00	1868	259.00	150
55.00	57	124.00	249	188.00	175	265.00	489
56.00	621	125.00	239	189.00	362	266.00	51
57.00	1429	127.00	24520	191.00	137	273.00	696
61.00	227	128.00	1948	192.00	458	274.00	1874
62.00	246	129.00	9146	193.00	540	275.00	10690
63.00	956	130.00	750	196.00	1476	276.00	1456
64.00	113	131.00	122	198.00	47712	277.00	806
65.00	477	134.00	220	199.00	3171	278.00	51
68.00	283	135.00	736	200.00	201	283.00	53
69.00	22360	136.00	243	201.00	232	285.00	58
70.00	116	137.00	351	203.00	295	293.00	99
73.00	255	140.00	50	204.00	1630	296.00	2496
74.00	2281	141.00	1136	205.00	2871	297.00	326
75.00	3623	142.00	375	206.00	11996	303.00	303
76.00	1348	143.00	206	207.00	1611	314.00	54
77.00	26336	146.00	152	208.00	374	315.00	253
78.00	1778	147.00	557	209.00	59	316.00	89
79.00	1692	148.00	1181	210.00	85	321.00	61
80.00	1239	149.00	182	211.00	397	323.00	870
81.00	1777	151.00	116	215.00	65	324.00	64
82.00	448	153.00	373	216.00	226	327.00	76
83.00	385	154.00	227	217.00	2863	334.00	508
85.00	337	155.00	607	218.00	357	335.00	62
86.00	477	156.00	994	221.00	2842	346.00	70
87.00	228	157.00	179	222.00	79	352.00	217
91.00	370	158.00	168	223.00	679	353.00	67
92.00	433	159.00	147	224.00	6189	354.00	257
93.00	2647	160.00	356	225.00	1648	365.00	1007
94.00	183	161.00	463	226.00	143	366.00	66

USP93 8849

Data File: /chem/HP10623.i/11jul14.b/cg0430.d

Date : 14-JUL-2011 07:08

Client ID: 50 NG/UL

Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: jmg00346

Column phase: DB-5

Column diameter: 0.25

Data File: cg0430.d

Spectrum: Avg. Scans 307-309 (5,47), Background Scan 303

Location of Maximum: 198.00

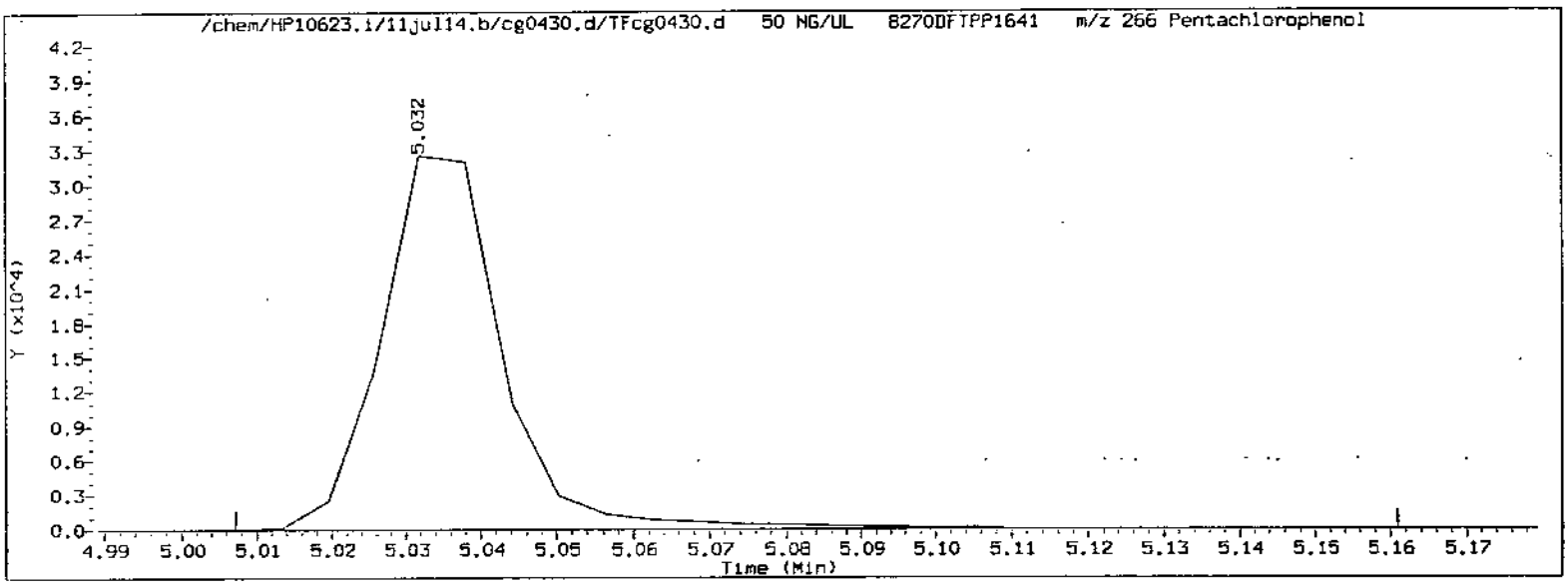
Number of points: 197

m/z	Y	m/z	Y	m/z	Y	m/z	Y
95.00	51	162.00	115	227.00	2457	372.00	369
96.00	61	165.00	429	228.00	339	373.00	53
98.00	1967	166.00	329	229.00	511	402.00	69
99.00	1576	167.00	2279	231.00	207	403.00	122
100.00	128	168.00	926	234.00	70	421.00	71
101.00	916	169.00	134	235.00	140	422.00	140
103.00	276	171.00	53	236.00	57	423.00	1163
104.00	580	172.00	165	237.00	157	424.00	165
105.00	518	173.00	200	241.00	60	441.00	3037
106.00	80	174.00	465	242.00	336	442.00	20288
107.00	7063	175.00	905	243.00	363	443.00	3996
108.00	1095	176.00	227	244.00	4785	444.00	376
109.00	266	177.00	433	245.00	671		
110.00	13688	178.00	62	246.00	824		
111.00	1993	179.00	1630	247.00	140		

USF83 6858

Assessment of GC Column Performance and Injection Port Inertness for

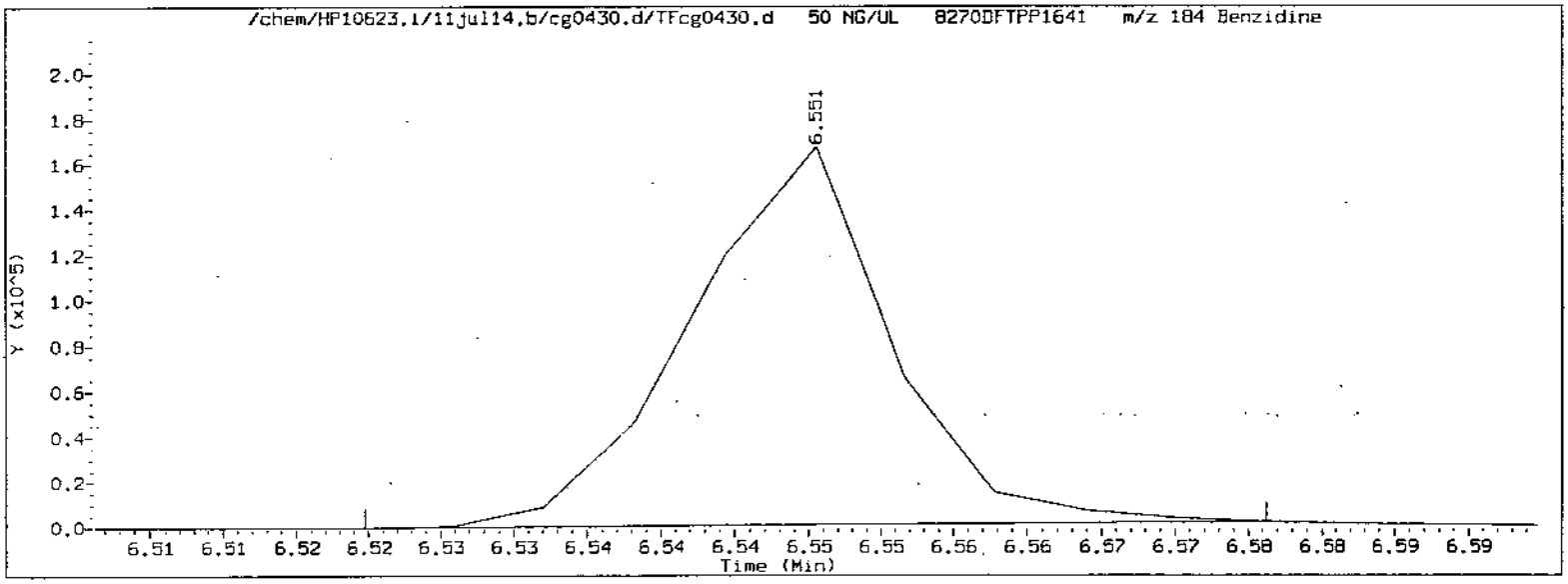
Instrument ID: HP10623.i Injection Date: 14-JUL-2011 07:08 Operator: jmg00346



Pentachlorophenol EICP peak height = 32568 EICP peak height at 10% = 3257 Pentachlorophenol EICP area = 36666

Pentachlorophenol EICP peak apex (min.) = 5.032
RT at 10% of front half of EICP (min.) = 5.020 'Front' peak width (min.) = 0.0118833333
RT at 10% of back half of EICP (min.) = 5.050 'Tailing' peak width (min.) = 0.0182166667

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0182166667}{0.0118833333} = 1.533$



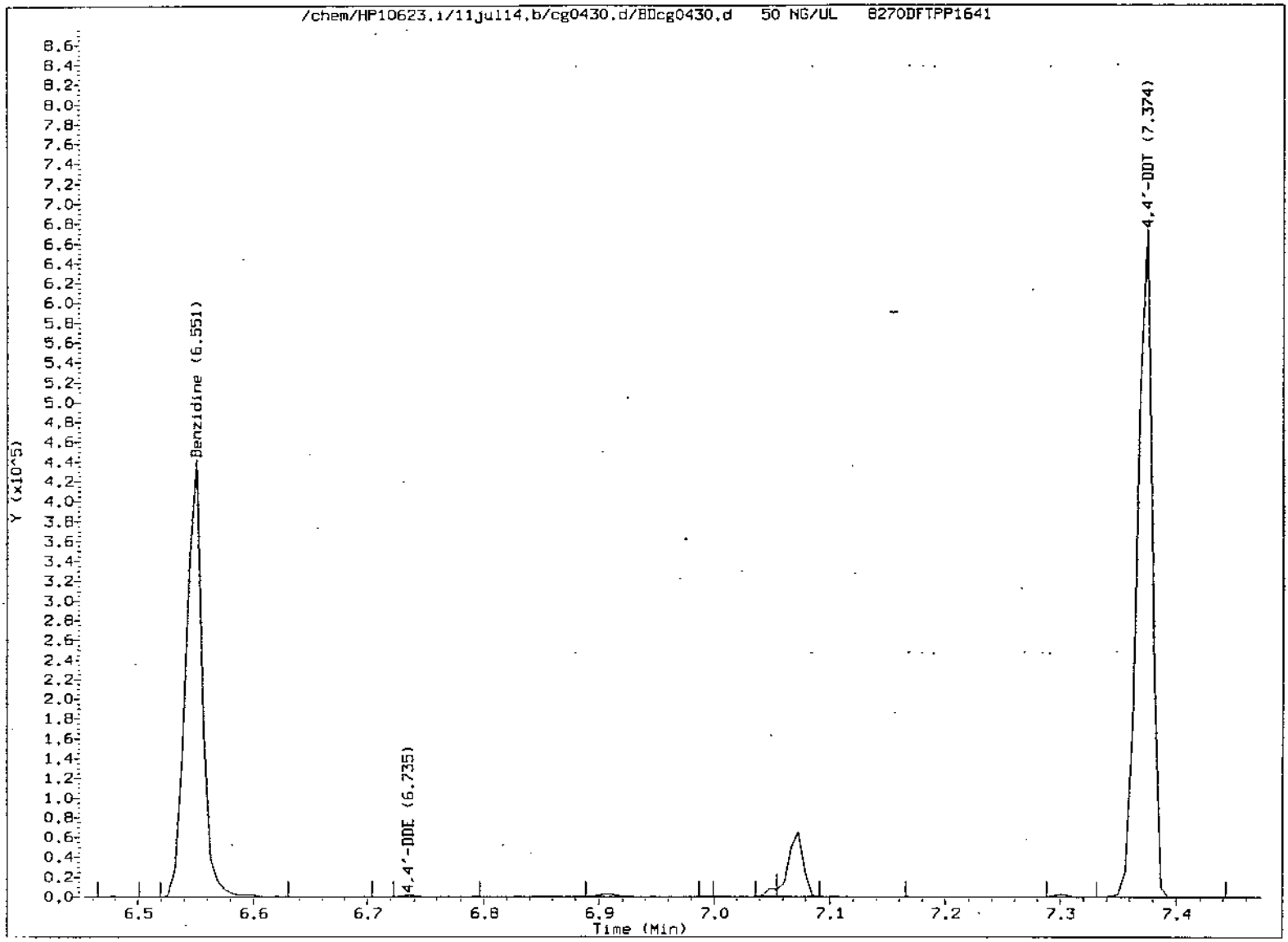
Benzidine EICP peak height = 166594 EICP peak height at 10% = 16659 Benzidine EICP area = 157517

Benzidine EICP peak apex (min.) = 6.551
RT at 10% of front half of EICP (min.) = 6.533 'Front' peak width (min.) = 0.0170333333
RT at 10% of back half of EICP (min.) = 6.563 'Tailing' peak width (min.) = 0.0120000000

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0120000000}{0.0170333333} = 0.705$

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP10623.i Injection Date: 14-JUL-2011 07:08 Operator: jmg00346

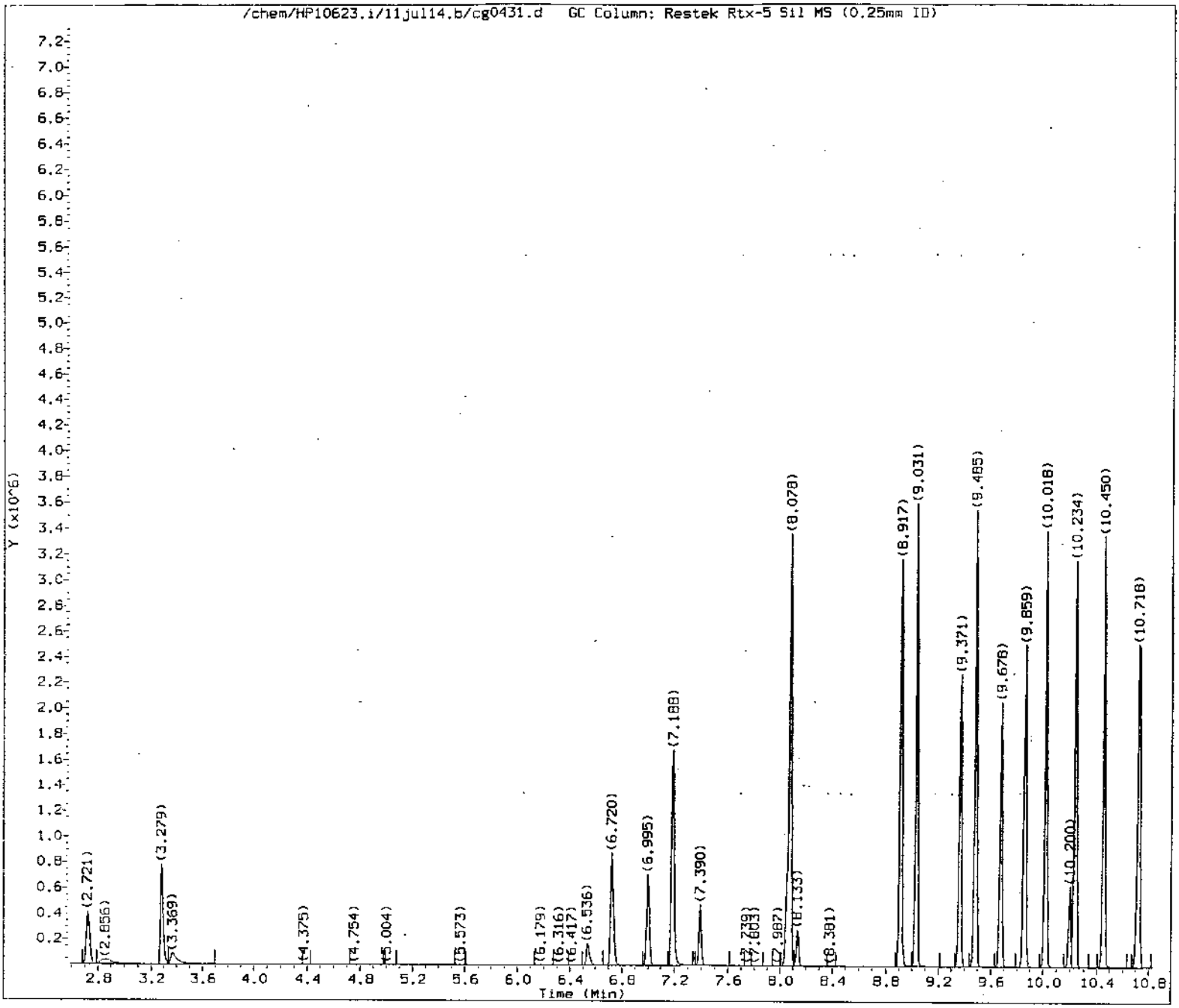


$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{1362 + 0}{1362 + 0 + 599028} \times 100 = 0.2$$

USP83 8852

printed on 07/14/2011 at 08:15



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0431.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 07:27 Analyst ID: jmg00346

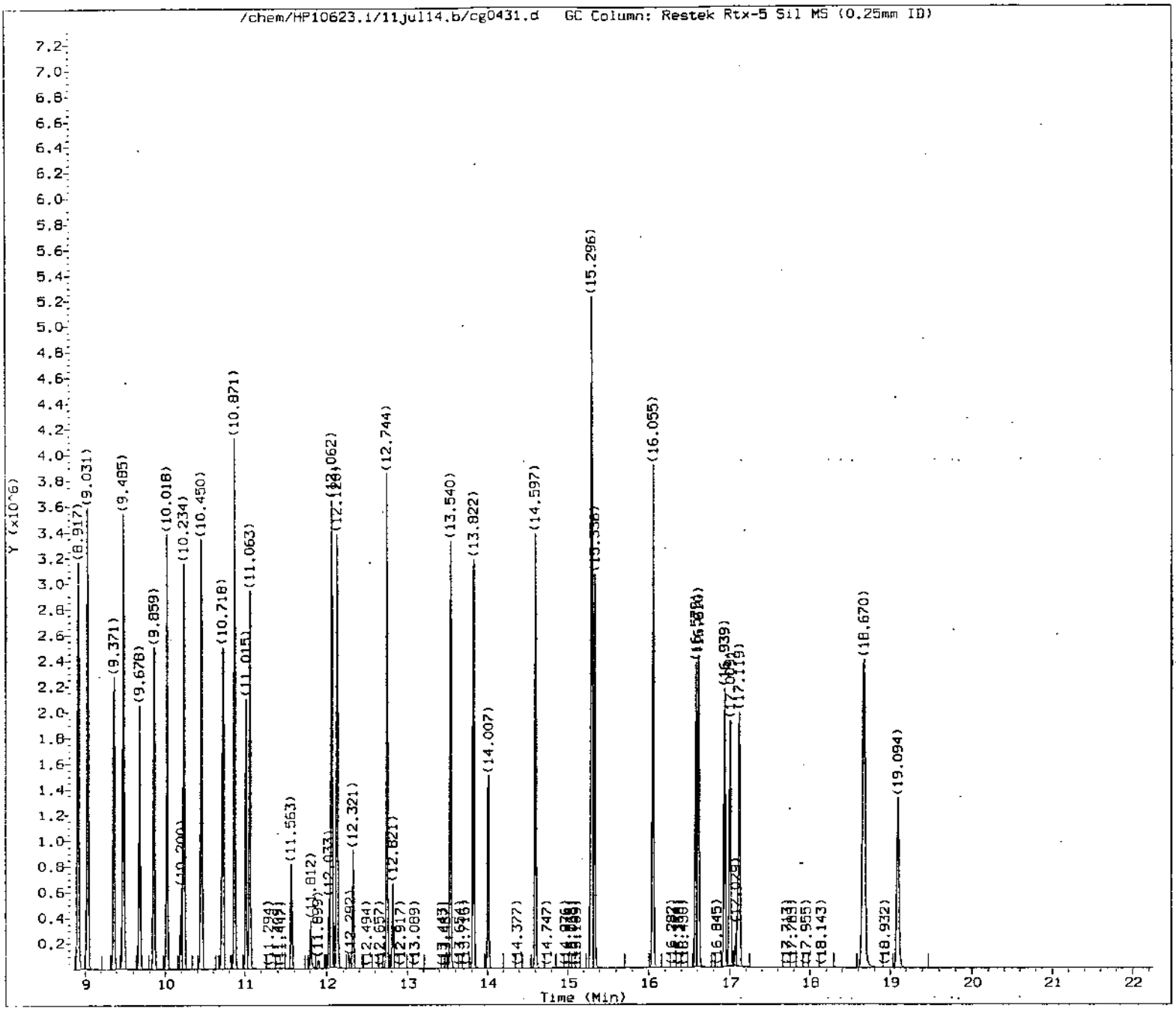
Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 07:54
Date, time and analyst ID of latest file update: 14-Jul-2011 07:54 jmg00346

Sample Name: SSTD005 Lab Sample ID: LPAH1921

USPS® 8853

JUL 14 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0431.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 07:27 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 14-JUL-2011 07:54
Date, time and analyst ID of latest file update: 14-Jul-2011 07:54 jmg00346

Sample Name: SSTD005 Lab Sample ID: LPAH1921

USF03 0054

JUL 14 2011

Jos Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0431.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 07:27 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 07:54
Date, time and analyst ID of latest file update: 14-Jul-2011 07:54 jmg00346

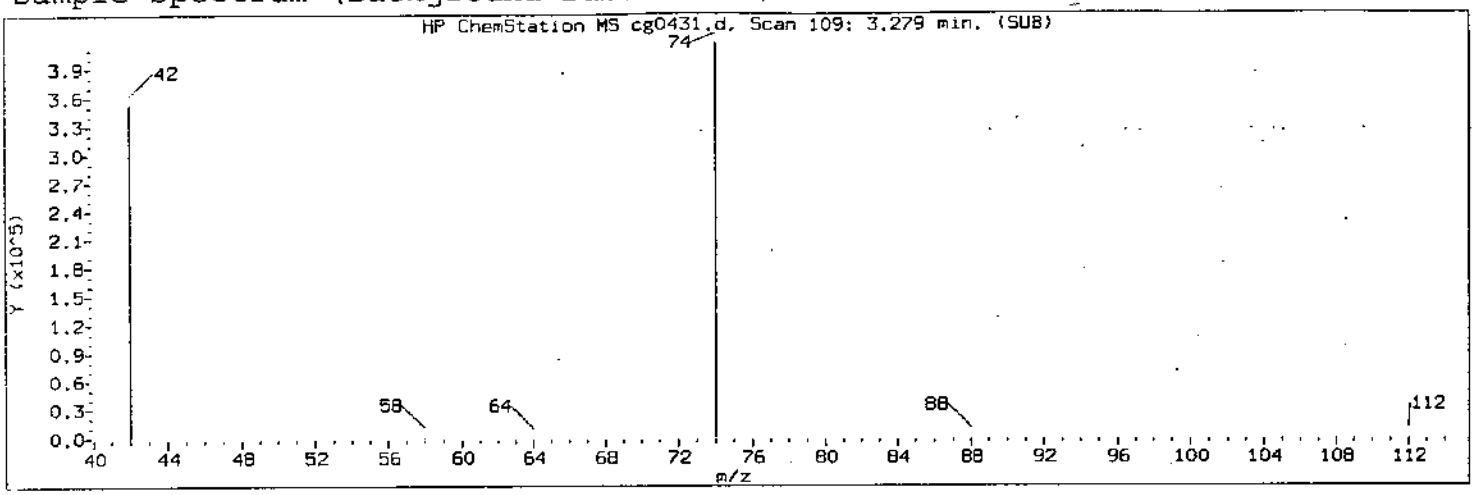
Sample Name: SSTD005 Lab Sample ID: LPAH1921

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.721	88	411504	5.1321
3)	N-Nitrosodimethylamine	(1)	3.279	74	619681 A	5.5780
6)	1,4-Dichlorobenzene-d4	(1)	6.546	152	157648	1.0000
12)	Naphthalene-d8	(2)	8.051	136	624195	1.0000
13)	Naphthalene	(2)	8.078	128	3263837	4.8670
14)	2-Methylnaphthalene	(2)	8.917	142	2167434	5.1272
16)	1-Methylnaphthalene	(2)	9.031	142	1976647	4.8715
18)	Acenaphthylene	(3)	10.018	152	3082413	5.7308
19)	Acenaphthene-d10	(3)	10.200	164	330754	1.0000
20)	Dimethylphthalate	(3)	9.859	163	2184663	5.4432
21)	Acenaphthene	(3)	10.234	154	1907472	5.0563
22)	Diethylphthalate	(3)	10.718	149	2198430	5.3091
23)	Fluorene	(3)	10.871	166	2164380	5.2987
24)	1,2-Diphenylhydrazine	(4)	11.063	77	2589976	5.7845
25)	N-Nitrosodiphenylamine	(4)	11.015	169	1260059	5.1039
26)	NDPA as diphenylamine	(4)	11.015	169	1260059	5.1039
28)	Hexachlorobenzene	(4)	11.572	284	503790	4.8338
30)	Phenanthrene-d10	(4)	12.033	188	522739	1.0000
31)	Phenanthrene	(4)	12.062	178	3089053	5.0288
32)	Anthracene	(4)	12.120	178	3107231	5.3744
33)	Di-n-butylphthalate	(4)	12.744	149	3592253	4.8631
35)	Fluoranthene	(4)	13.540	202	3233385	5.2900
37)	Pyrene	(5)	13.822	202	3418584	5.0564
39)	Butylbenzylphthalate	(5)	14.597	149	1528252	4.9089
40)	bis(2-Ethylhexyl)phthalate	(5)	15.296	149	2351495	5.1110
41)	Benzo(a)anthracene	(5)	15.289	228	2822194	5.2827
42)	Chrysene-d12	(5)	15.304	240	431798	1.0000
43)	Chrysene	(5)	15.336	228	2814864	4.8046
44)	Di-n-octylphthalate	(6)	16.055	149	3796889	4.9839
45)	Benzo(b)fluoranthene	(6)	16.579	252	2402355	5.0924
46)	Benzo(k)fluoranthene	(6)	16.610	252	2578789	5.1027
47)	Benzo(e)pyrene	(6)	16.939	252	2385952	5.0810
48)	Benzo(a)pyrene	(6)	17.009	252	2325016	5.2387
49)	Perylene-d12	(6)	17.079	264	362197	1.0000
50)	Perylene	(6)	17.119	252	2351344	4.8744
51)	Indeno(1,2,3-cd)pyrene	(6)	18.663	276	2424138	5.1281
52)	Dibenz(a,h)anthracene	(6)	18.677	278	1923178	5.0975
53)	Benzo(g,h,i)perylene	(6)	19.094	276	2051626	4.9435
10)	Nitrobenzene-d5	(2)	7.188	82	1248380	5.6130
17)	2-Fluorobiphenyl	(3)	9.371	172	2051054	5.0761
38)	Terphenyl-d14	(5)	14.007	244	1503735	5.0084

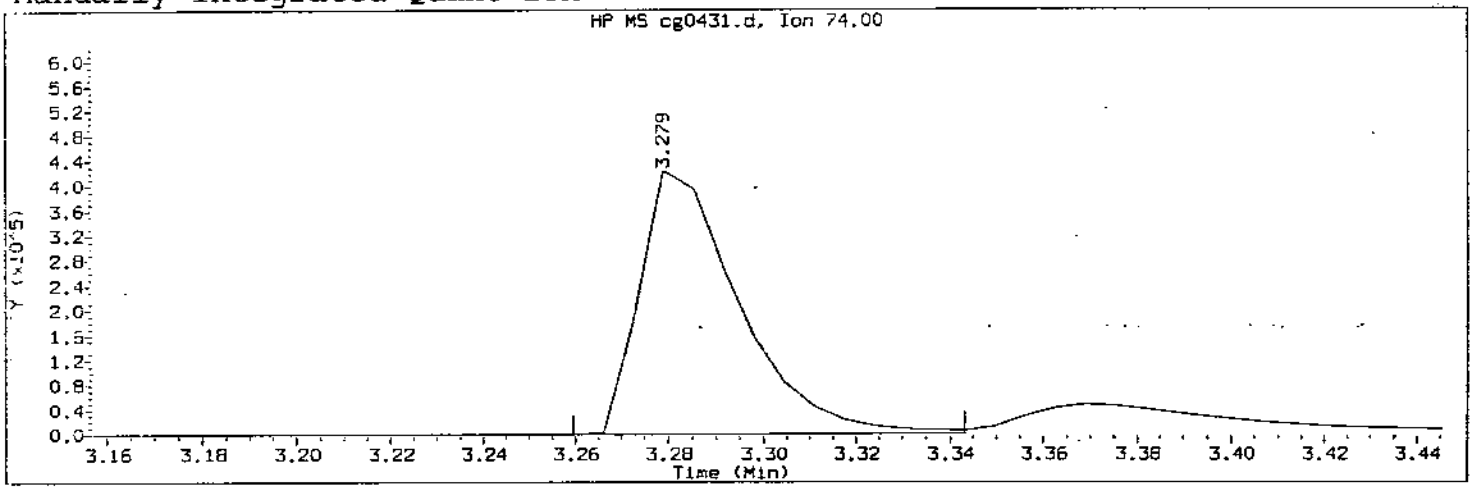
M = Compound was manually integrated. A = User selected an alternate hit

USF03 0055

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14.b/cg0431.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 07:27 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 07:54
Date, time and analyst ID of latest file update: 14-Jul-2011 07:54 jmg00346

Sample Name: SSTD005 Lab Sample ID: LPAH1921

Compound Number	: 3
Compound Name	: N-Nitrosodimethylamine
Scan Number	: 109
Retention Time (minutes)	: 3.279
Quant Ion	: 74
Area (flag)	: 619681A
Concentration (ng/ul)	: 5.5780
Integration start scan	: 105 Integration stop scan: 118
Y at integration start	: 174 Y at integration end: 514

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: _____

JUL 14 2011

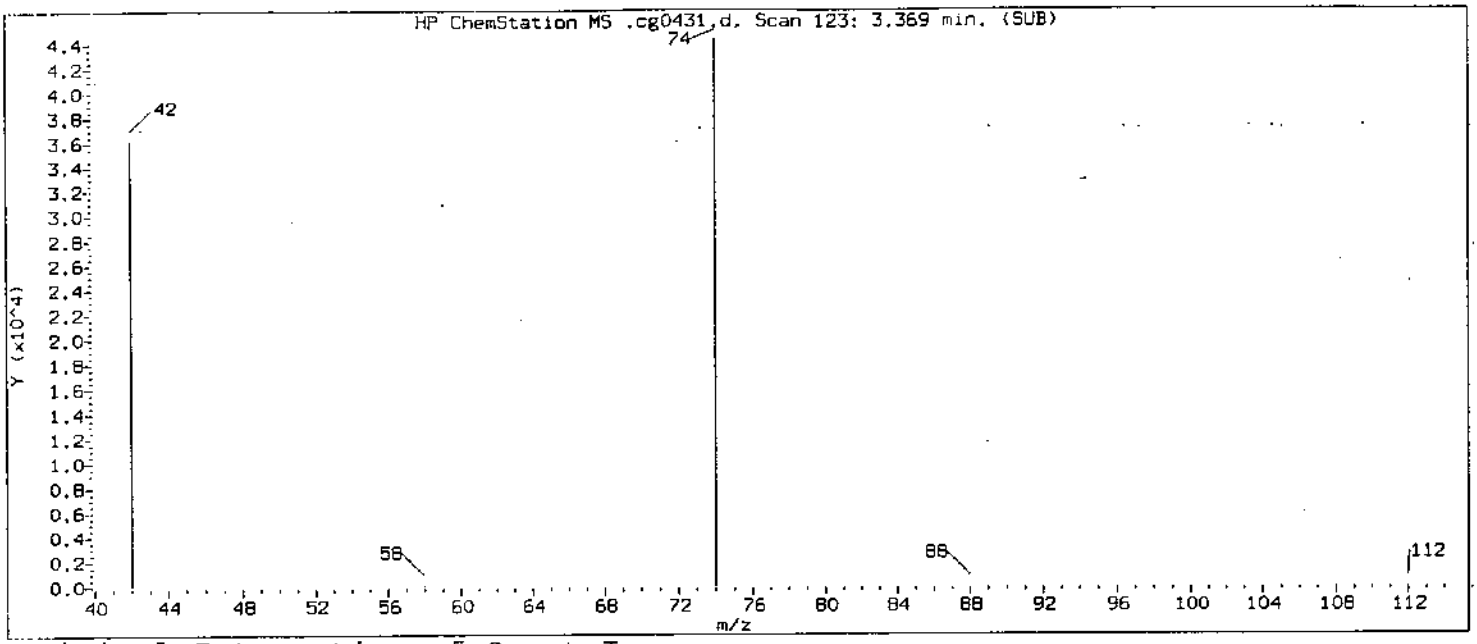
Joe Gambler
Senior Chemist

GC/MS audit/management approval: _____ 8856

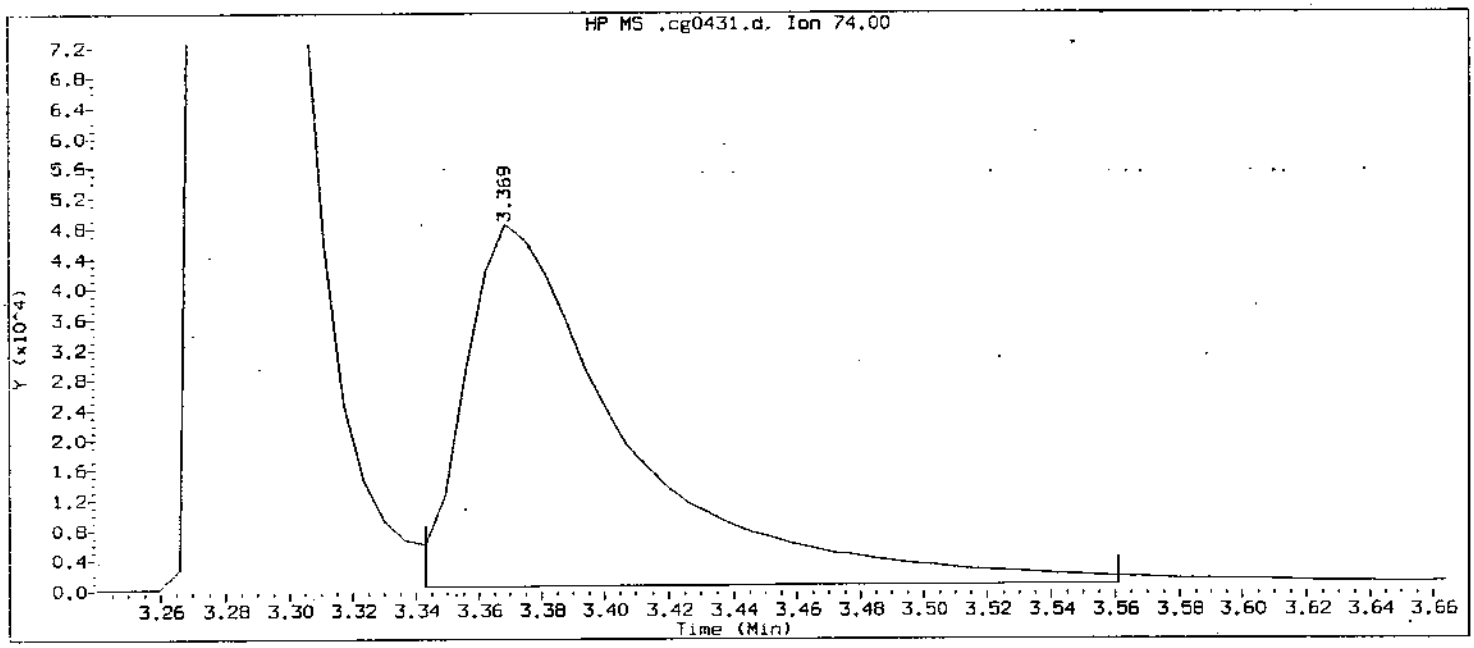
JUL 15 2011

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14.b/cg0431.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 07:27 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 07:52
Date, time and analyst ID of latest file update: 14-Jul-2011 07:52 Automation

Sample Name: SSTD005 Lab Sample ID: LPAH1921

Compound Number : 3
Compound Name : N-Nitrosodimethylamine
Scan Number : 123
Retention Time (minutes): 3.369
Quant Ion : 74
Area : 169191
Concentration (ng/ul) : 1.5230
Integration start scan : 118 Integration stop scan: 152
Y at integration start : 514 Y at integration end: 753

JUL 14 2011

Joe Gambler
Senior Chemist

USF03 0057

Original Integration Report for data file /chem/HP10623.i/11jul14.b/cg0431.d, generated on 07/14/2011 at 07:54

Data File: /chem/HP10623.i/11jul14a.b/cg0450.d

Date : 14-JUL-2011 16:55

Client ID: 50 NG/UL

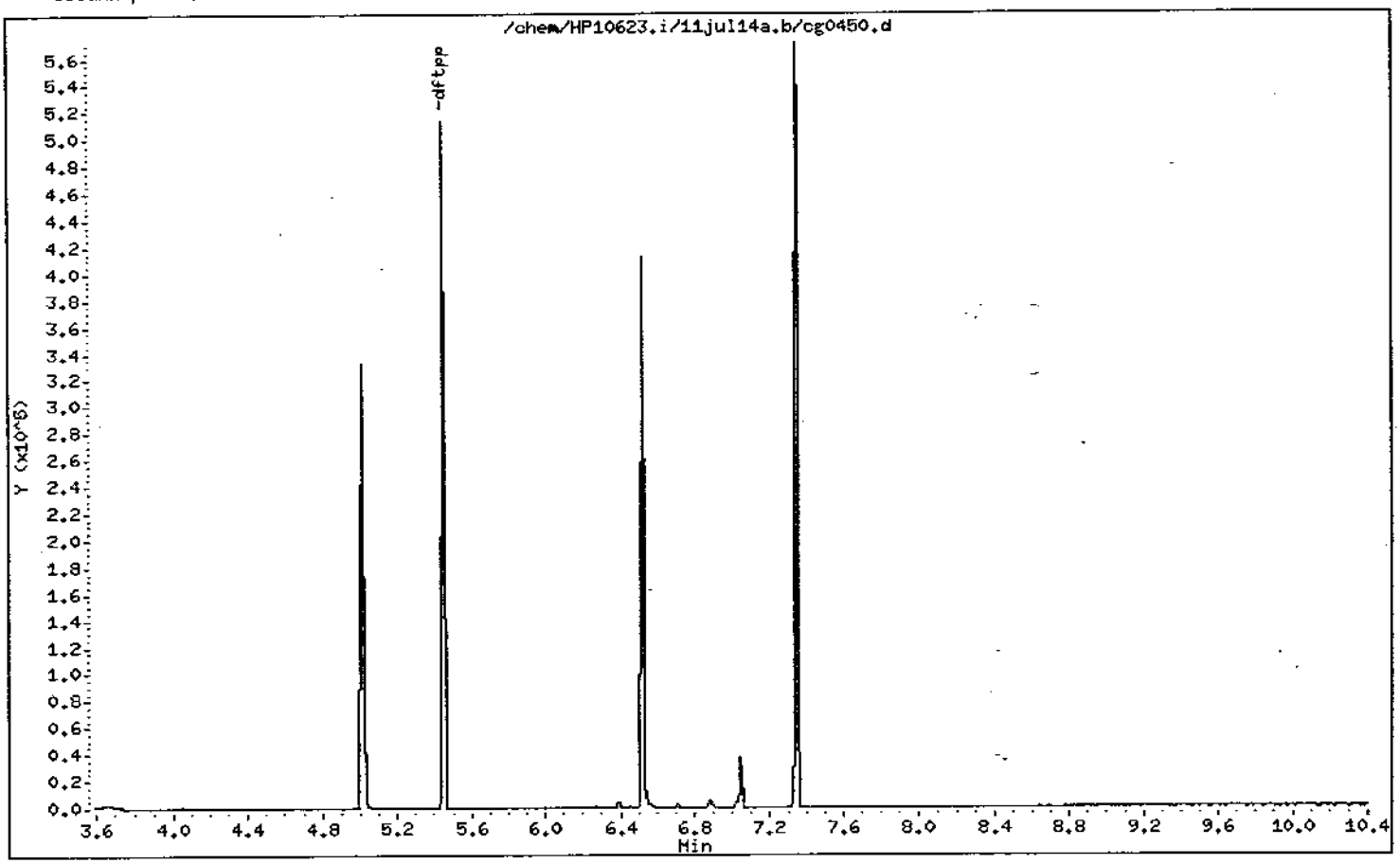
Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP10623.i/11jul14a.b/cg0450.d

Date : 14-JUL-2011 16:55

Client ID: 50 NG/UL

Instrument: HP10623.i

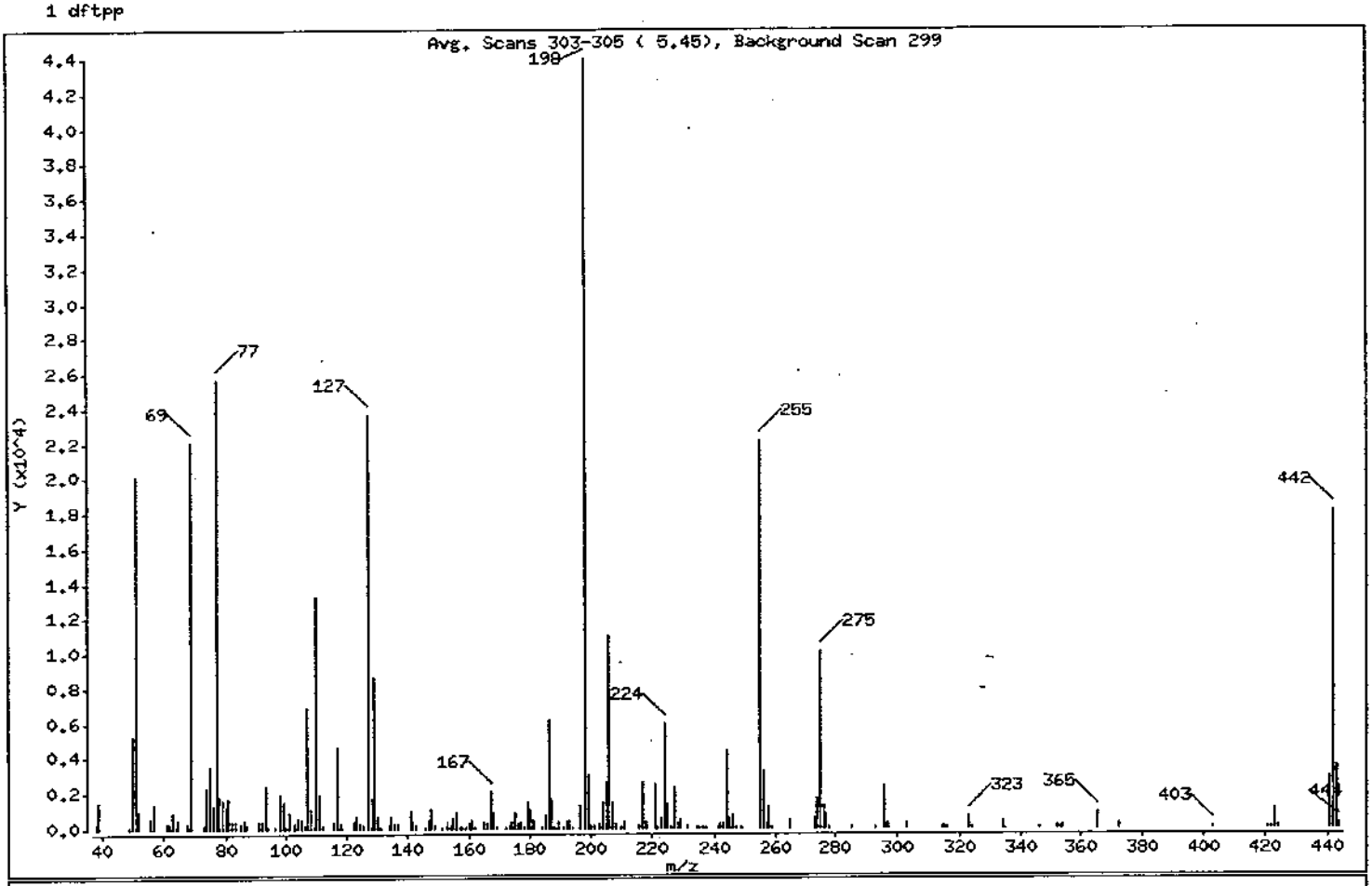
Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.71
68	Less than 2.00% of mass 69	0.64 (1.27)
69	Mass 69 relative abundance	50.06
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	53.80
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 30.00% of mass 198	23.00
365	Greater than 1.00% of mass 198	1.98
441	Present, but less than mass 443	6.56
442	40.00 - 99.99% of mass 198	41.20
443	17.00 - 23.00% of mass 442	7.94 (19.27)

USF03 0059

Data File: /chem/HP10623.i/11jul14a.b/cg0450.d

Date : 14-JUL-2011 16:55

Client ID: 50 NG/UL

Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25

Data File: cg0450.d

Spectrum: Avg. Scans 303-305 (5.45), Background Scan 299

Location of Maximum: 198.00

Number of points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	258	112.00	165	179.00	1506	245.00	626
39.00	1561	116.00	400	180.00	1068	246.00	800
49.00	140	117.00	4611	181.00	475	247.00	132
50.00	5219	118.00	343	184.00	53	249.00	68
51.00	20120	122.00	412	185.00	799	255.00	22112
52.00	1053	123.00	687	186.00	6139	256.00	3221
56.00	599	124.00	288	187.00	1759	257.00	262
57.00	1412	125.00	214	188.00	134	258.00	1164
61.00	261	127.00	23680	189.00	355	259.00	116
62.00	303	128.00	1758	191.00	117	265.00	458
63.00	884	129.00	8675	192.00	446	273.00	625
64.00	57	130.00	735	193.00	529	274.00	1730
65.00	475	131.00	63	194.00	53	275.00	10126
68.00	280	134.00	200	196.00	1334	276.00	1358
69.00	22032	135.00	723	198.00	44016	277.00	792
73.00	233	136.00	268	199.00	3001	278.00	52
74.00	2277	137.00	337	200.00	233	285.00	53
75.00	3580	141.00	1052	201.00	212	293.00	129
76.00	1314	142.00	366	203.00	264	296.00	2383
77.00	25720	143.00	244	204.00	1528	297.00	315
78.00	1784	146.00	150	205.00	2654	303.00	259
79.00	1639	147.00	537	206.00	11047	314.00	51
80.00	1218	148.00	1106	207.00	1538	315.00	179
81.00	1740	149.00	226	208.00	342	316.00	69
82.00	410	151.00	62	210.00	61	323.00	726
83.00	397	153.00	364	211.00	432	324.00	68
85.00	338	154.00	248	216.00	230	334.00	438
86.00	461	155.00	621	217.00	2624	335.00	50
87.00	175	156.00	935	218.00	355	346.00	63
91.00	381	157.00	143	221.00	2547	352.00	159
92.00	398	158.00	147	222.00	84	353.00	109
93.00	2442	159.00	61	223.00	633	354.00	180
94.00	122	160.00	325	224.00	5934	365.00	870
96.00	64	161.00	518	225.00	1456	372.00	353
98.00	1895	162.00	65	226.00	72	403.00	125

USP83 9868

Data File: /chem/HP10623.i/11jul14a.b/cg0450.d

Date : 14-JUL-2011 16:55

Client ID: 50 NG/UL

Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25

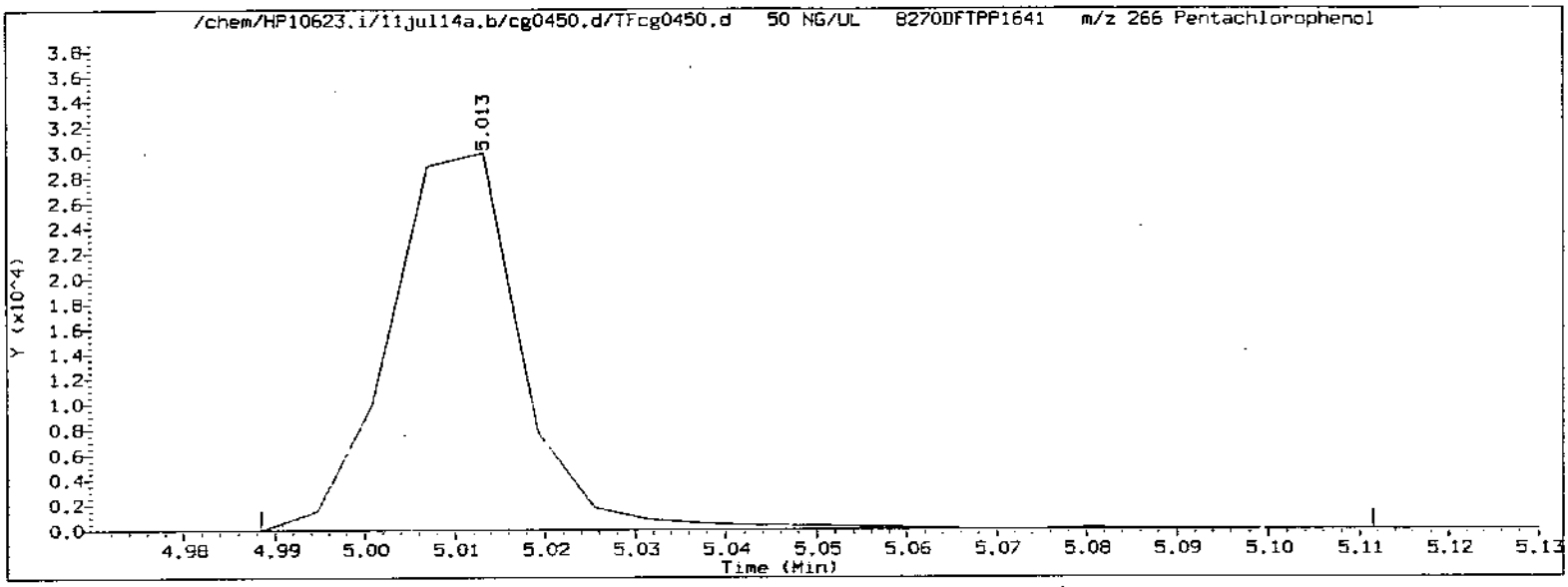
Data File: cg0450.d
Spectrum: Avg. Scans 303-305 (5.45), Background Scan 299
Location of Maximum: 198.00
Number of points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
99.00	1494	165.00	387	227.00	2362	421.00	102
100.00	54	166.00	315	228.00	329	422.00	118
101.00	868	167.00	2133	229.00	477	423.00	1066
103.00	310	168.00	906	231.00	154	424.00	182
104.00	613	169.00	72	234.00	57	441.00	2889
105.00	515	172.00	137	235.00	75	442.00	18136
106.00	166	173.00	237	236.00	56	443.00	3495
107.00	6866	174.00	454	237.00	126	444.00	344
108.00	1079	175.00	880	241.00	58		
109.00	134	176.00	274	242.00	298		
110.00	13293	177.00	402	243.00	321		
111.00	1902	178.00	68	244.00	4459		

USP93 08961

Assessment of GC Column Performance and Injection Port Inertness for

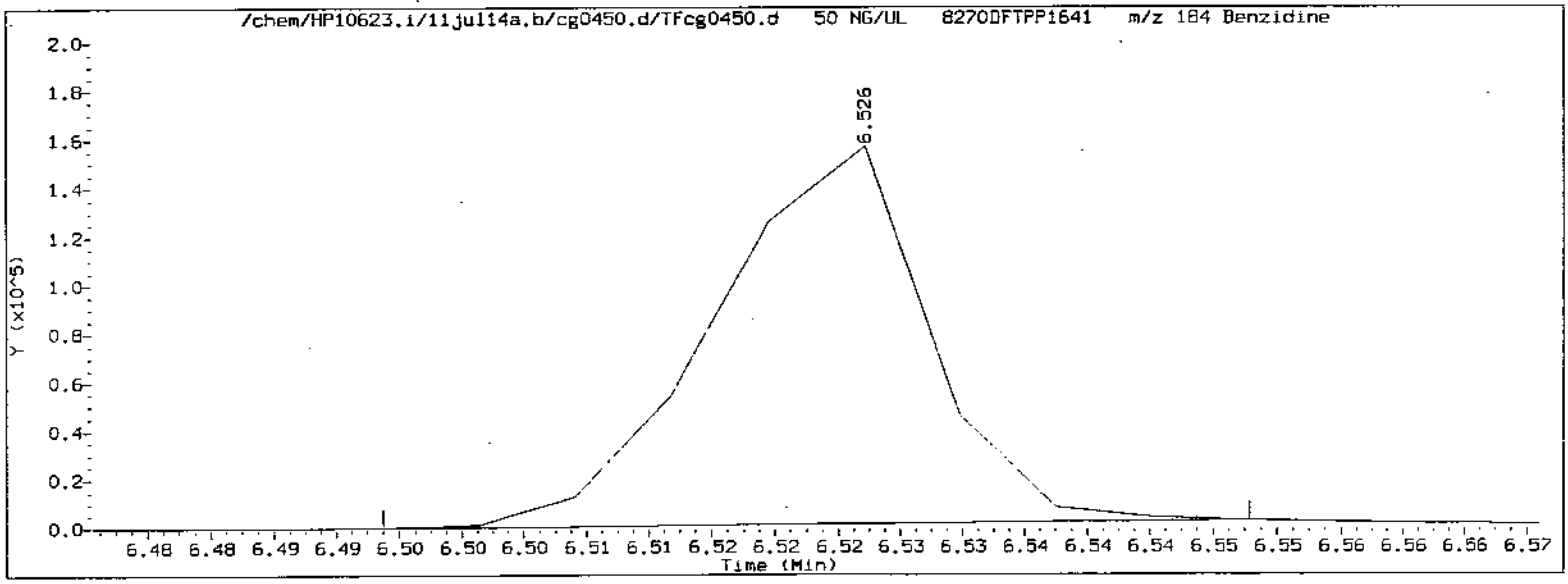
Instrument ID: HP10623.i Injection Date: 14-JUL-2011 16:55 Operator: gjd01970



Pentachlorophenol EICP peak height = 29960 EICP peak height at 10% = 2996 Pentachlorophenol EICP area = 30395

Pentachlorophenol EICP peak apex (min.) = 5.013
RT at 10% of front half of EICP (min.) = 4.996 'Front' peak width (min.) = 0.0173666667
RT at 10% of back half of EICP (min.) = 5.024 'Tailing' peak width (min.) = 0.0110333333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0110333333}{0.0173666667} = 0.635$



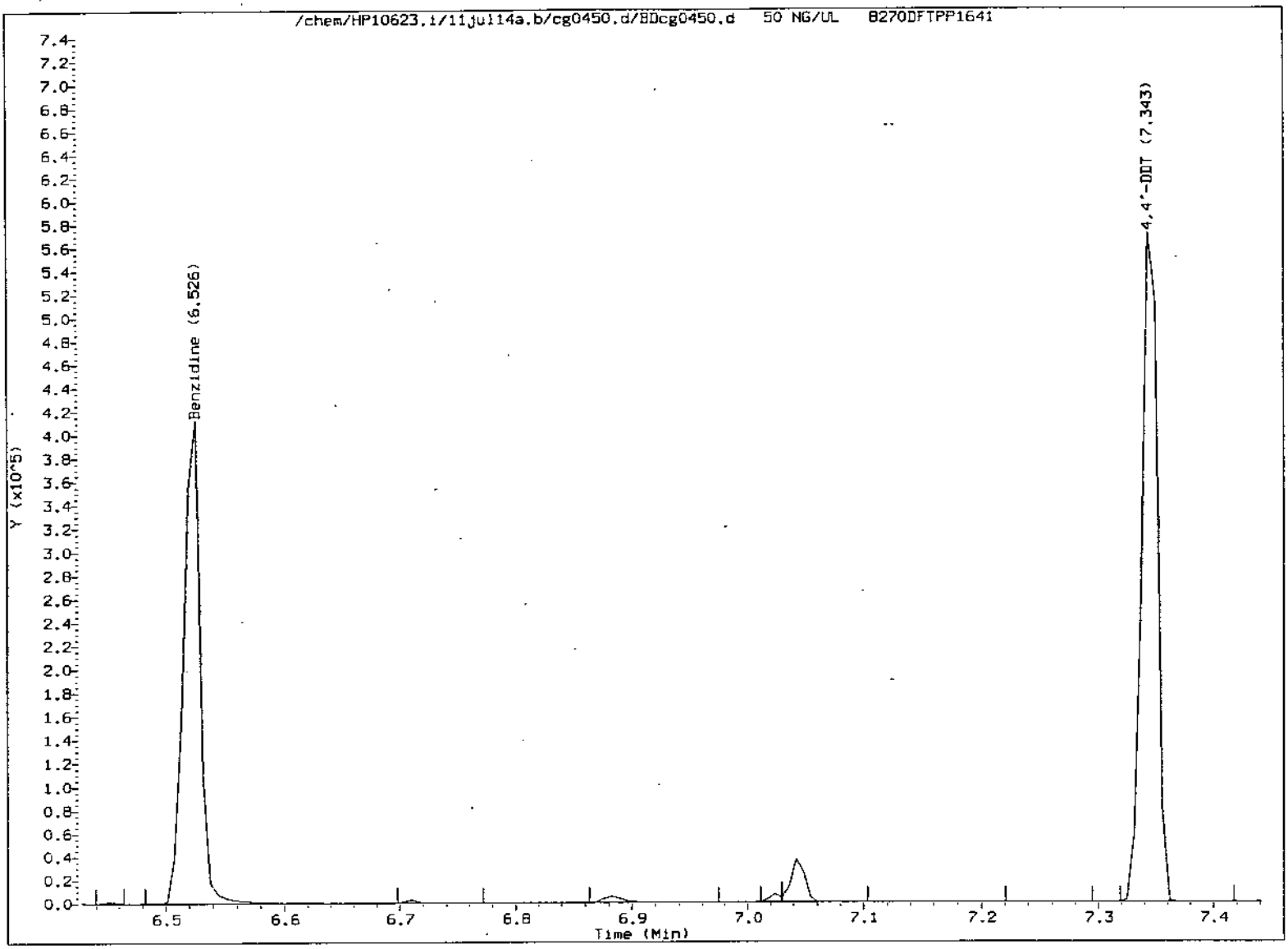
Benzidine EICP peak height = 155529 EICP peak height at 10% = 15553 Benzidine EICP area = 147572

Benzidine EICP peak apex (min.) = 6.526
RT at 10% of front half of EICP (min.) = 6.508 'Front' peak width (min.) = 0.0178166667
RT at 10% of back half of EICP (min.) = 6.537 'Tailing' peak width (min.) = 0.0108666667

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0108666667}{0.0178166667} = 0.610$

Assessment of GC Column Performance and Injection Port Inertness for

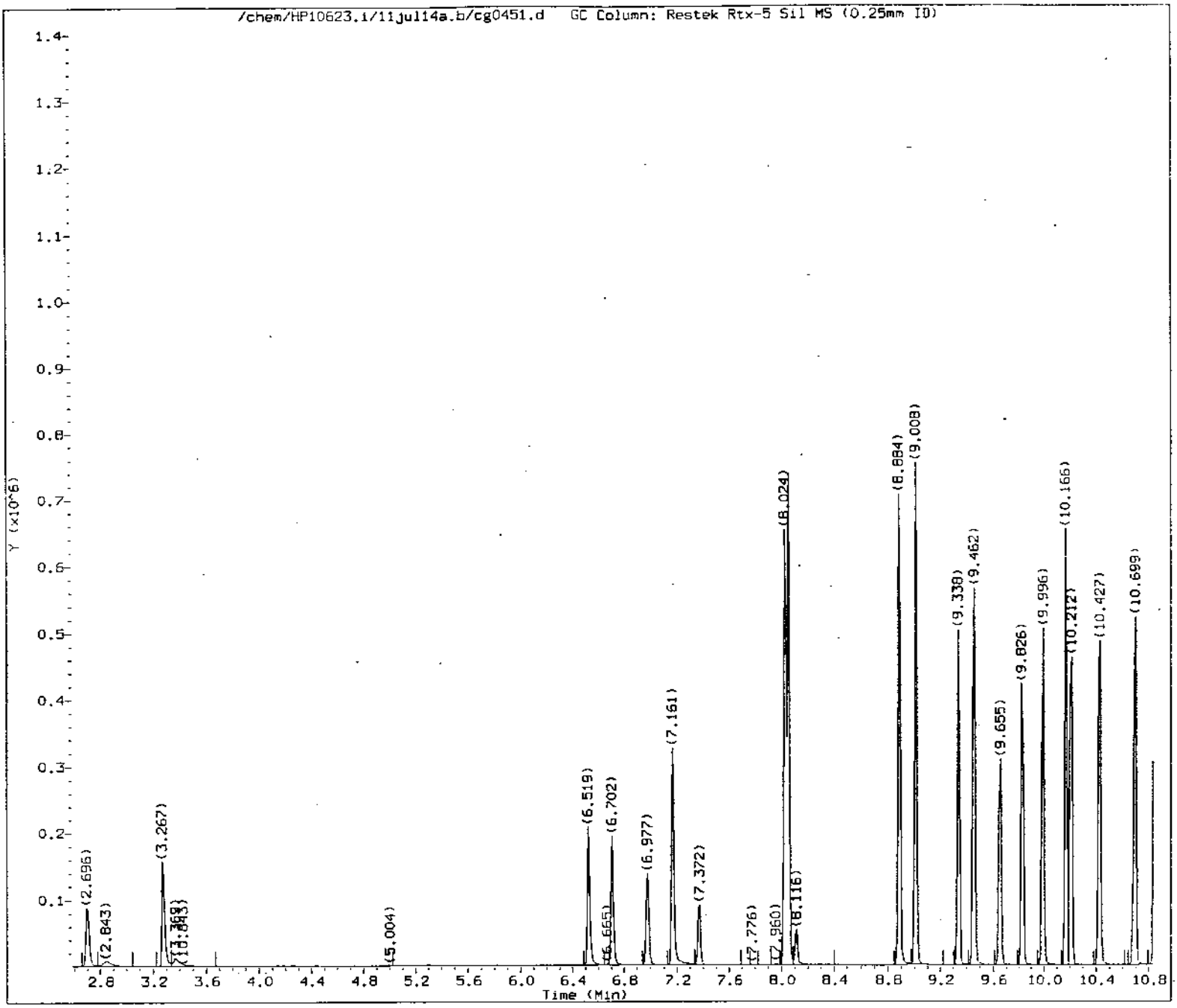
Instrument ID: HP10623.i Injection Date: 14-JUL-2011 16:55 Operator: gjd01970



$$\%\ 4,4'\text{-DDT breakdown} = \frac{4,4'\text{-DDE TIC area} + 4,4'\text{-DDD TIC area}}{4,4'\text{-DDE TIC area} + 4,4'\text{-DDD TIC area} + 4,4'\text{-DDT TIC area}} \times 100$$

$$\%\ 4,4'\text{-DDT breakdown} = \frac{0 + 0}{0 + 0 + 548415} \times 100 = 0.0$$

USP63 8063



Quant Report

Target Revision 3.5

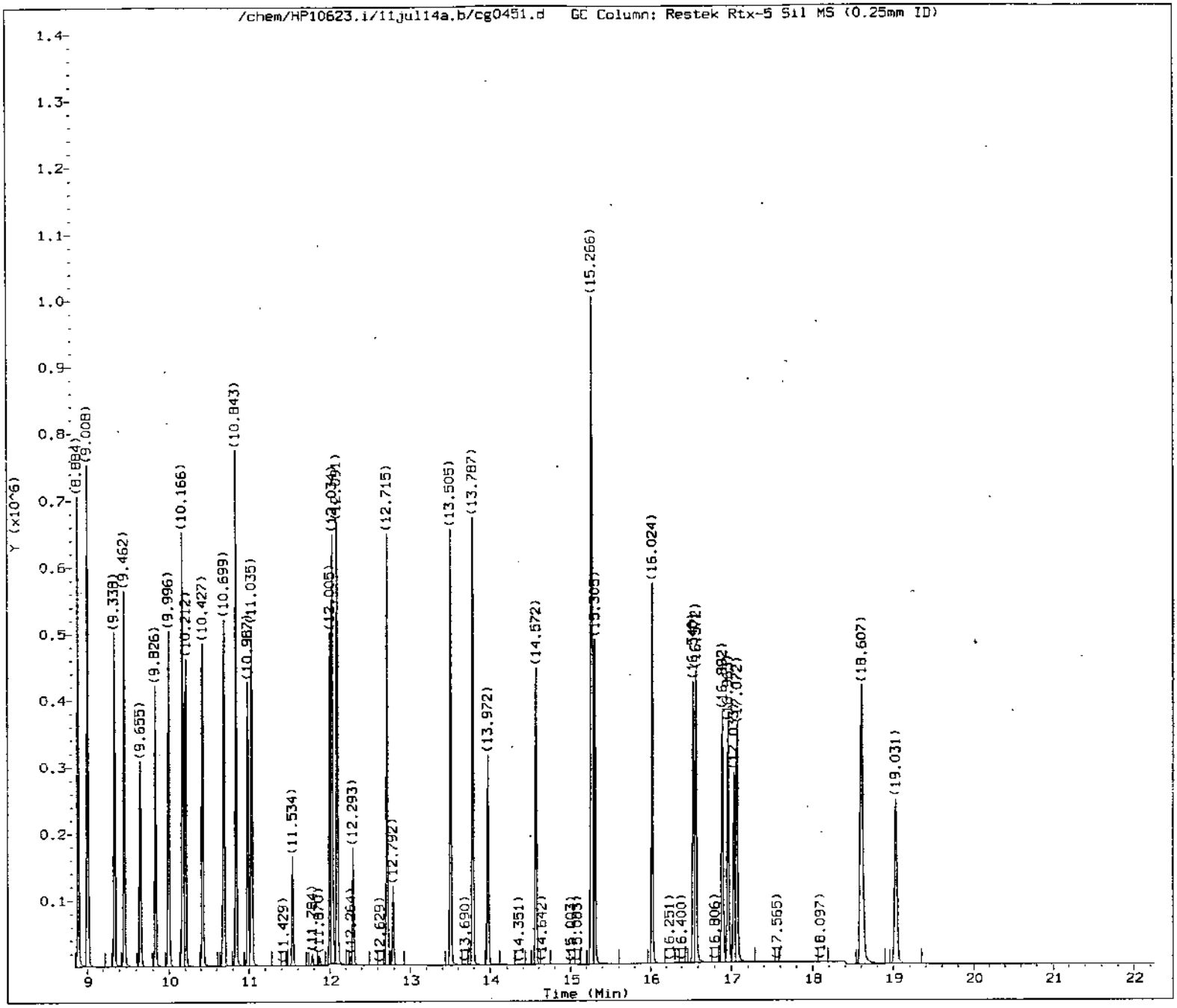
Data File: /chem/HP10623.i/11jul14a.b/cg0451.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 17:16 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 14-JUL-2011 17:42
Date, time and analyst ID of latest file update: 14-Jul-2011 17:42 Automation

Sample Name: SSTD001 Lab Sample ID: LPAH1921

Greg Drahovsky
Senior Chemist

JUL 14 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0451.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 17:16 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/m11pah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 17:42
Date, time and analyst ID of latest file update: 14-Jul-2011 17:42 Automation

Sample Name: SSTD001 Lab Sample ID: LPAH1921

Greg Drahovzky
Senior Chemist

USF83 8865

JUL 14 2011

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0451.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 17:16 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 14-JUL-2011 17:42
Date, time and analyst ID of latest file update: 14-Jul-2011 17:42 Automation

Sample Name: SSTD001 Lab Sample ID: LPAH1921

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.702	88	87221	1.1252
3) N-Nitrosodimethylamine	(1)	3.267	74	125076	1.1646
6) 1,4-Dichlorobenzene-d4	(1)	6.519	152	152402	1.0000
12) Naphthalene-d8	(2)	8.024	136	607340	1.0000
13) Naphthalene	(2)	8.051	128	627595	0.9618
14) 2-Methylnaphthalene	(2)	8.884	142	411469	1.0004
16) 1-Methylnaphthalene	(2)	9.008	142	381459	0.9662
18) Acenaphthylene	(3)	9.996	152	522140	0.9962
19) Acenaphthene-d10	(3)	10.166	164	322323	1.0000
20) Dimethylphthalate	(3)	9.826	163	394334	1.0082
21) Acenaphthene	(3)	10.212	154	356219	0.9690
22) Diethylphthalate	(3)	10.699	149	418328	1.0367
23) Fluorene	(3)	10.843	166	398649	1.0015
24) 1,2-Diphenylhydrazine	(4)	11.035	77	437467	1.0185
25) N-Nitrosodiphenylamine	(4)	10.987	169	243219	1.0270
26) NDPA as diphenylamine	(4)	10.987	169	243219	1.0270
28) Hexachlorobenzene	(4)	11.534	284	94416	0.9444
30) Phenanthrene-d10	(4)	12.005	188	501455	1.0000
31) Phenanthrene	(4)	12.034	178	588621	0.9989
32) Anthracene	(4)	12.091	178	567556	1.0233
33) Di-n-butylphthalate	(4)	12.715	149	575110	0.9712
35) Fluoranthene	(4)	13.505	202	587895	1.0027
37) Pyrene	(5)	13.787	202	628261	0.9986
39) Butylbenzylphthalate	(5)	14.572	149	240650	0.9362
40) bis(2-Ethylhexyl)phthalate	(5)	15.273	149	371474	0.9823
41) Benzo(a)anthracene	(5)	15.258	228	498829	1.0034
42) Chrysene-d12	(5)	15.273	240	401828	1.0000
43) Chrysene	(5)	15.305	228	526233	0.9652
44) Di-n-octylphthalate	(6)	16.024	149	588715	0.9792
45) Benzo(b)fluoranthene	(6)	16.540	252	426561	0.9773
46) Benzo(k)fluoranthene	(6)	16.572	252	448132	0.9584
47) Benzo(e)pyrene	(6)	16.892	252	422748	0.9730
48) Benzo(a)pyrene	(6)	16.963	252	407419	0.9922
49) Perylene-d12	(6)	17.033	264	335122	1.0000
50) Perylene	(6)	17.072	252	419758	0.9405
51) Indeno(1,2,3-cd)pyrene	(6)	18.600	276	443303	1.0135
52) Dibenz(a,h)anthracene	(6)	18.614	278	351288	1.0063
53) Benzo(g,h,i)perylene	(6)	19.031	276	379812	0.9891
10) Nitrobenzene-d5	(2)	7.161	82	221011	1.0213
17) 2-Fluorobiphenyl	(3)	9.338	172	389951	0.9903
38) Terphenyl-d14	(5)	13.972	244	272176	0.9741

M = Compound was manually integrated. A = User selected an alternate hit

USP63 8866

Data File: /chem/HP10623.i/11jul15.b/cg0480z.d

Date : 15-JUL-2011 06:33

Client ID: 50 NG/UL

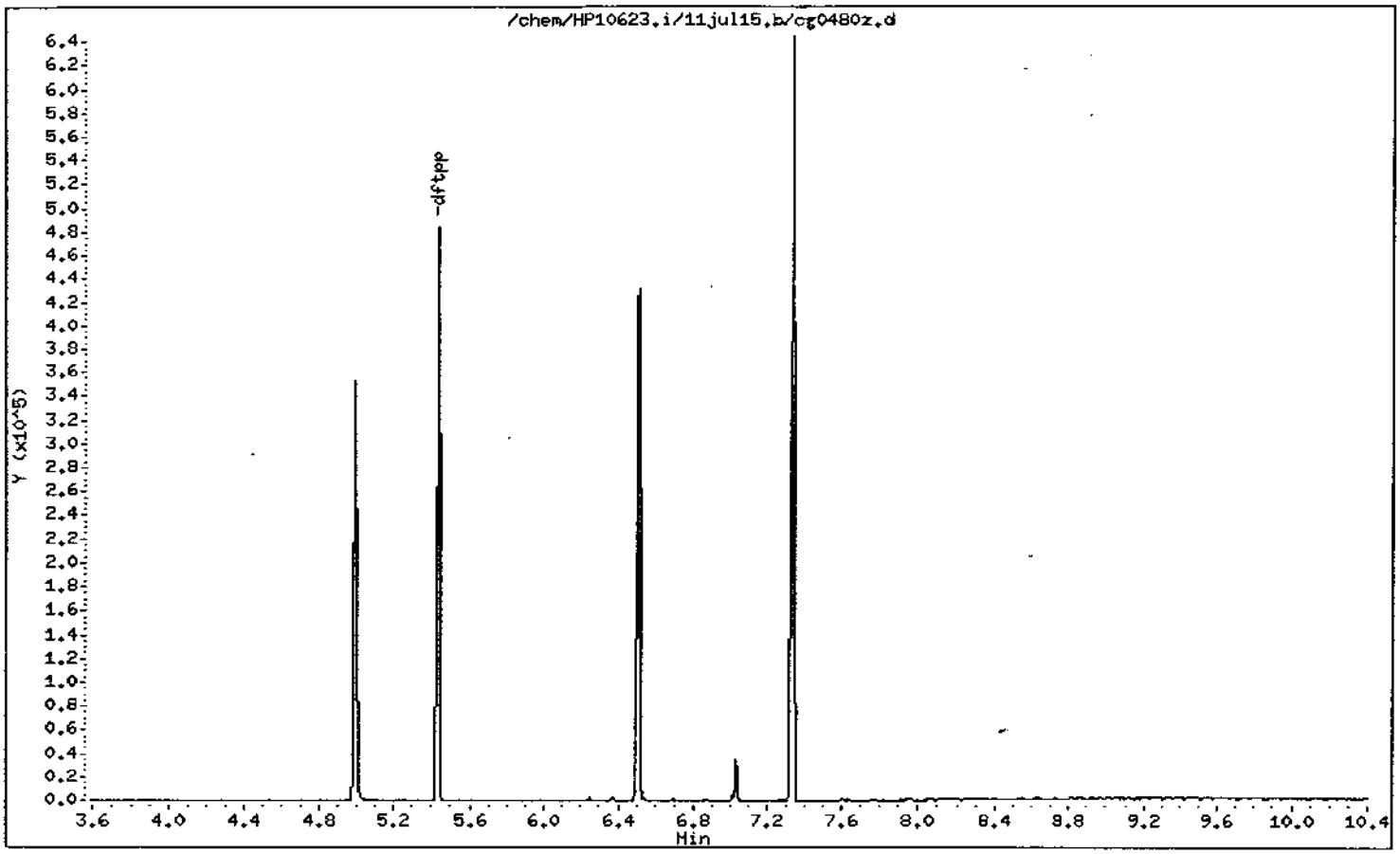
Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: jmg00346

Column phase: DB-5

Column diameter: 0.25



USF03 0867

Data File: /chem/HP10623.i/11jul15.b/cg0480z.d

Date : 15-JUL-2011 06:33

Client ID: 50 NG/UL

Instrument: HP10623.i

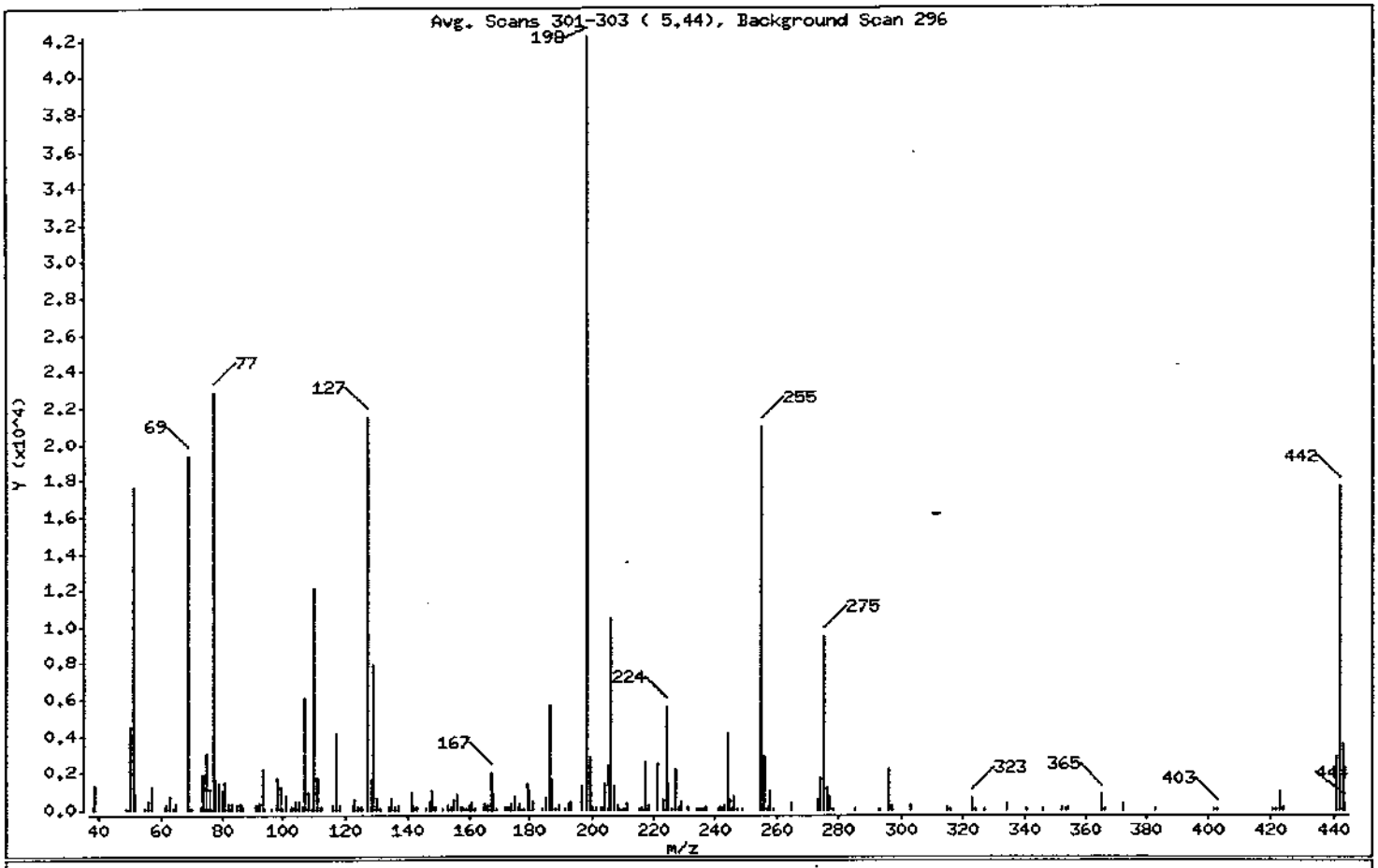
Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: jmg00346

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	41.85
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.03
70	Less than 2.00% of mass 69	0.13 (0.27)
127	40.00 - 60.00% of mass 198	51.04
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.89
275	10.00 - 30.00% of mass 198	22.47
365	Greater than 1.00% of mass 198	2.03
441	Present, but less than mass 443	6.87
442	40.00 - 99.99% of mass 198	41.81
443	17.00 - 23.00% of mass 442	8.56 (20.47)

Data File: /chem/HP10623.i/11jul15.b/cg0480z.d

Date : 15-JUL-2011 06:33

Client ID: 50 NG/UL

Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: jmg00346

Column phase: DB-5

Column diameter: 0.25

Data File: cg0480z.d

Spectrum: Avg. Scans 301-303 (5,44), Background Scan 296

Location of Maximum: 198.00

Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	207	112.00	176	180.00	1030	247.00	73
39.00	1335	116.00	328	181.00	445	249.00	117
49.00	80	117.00	4134	184.00	60	255.00	20896
50.00	4543	118.00	263	185.00	722	256.00	2945
51.00	17640	122.00	334	186.00	5740	257.00	180
52.00	907	123.00	561	187.00	1644	258.00	1085
55.00	111	124.00	237	188.00	144	259.00	71
56.00	533	125.00	229	189.00	318	265.00	420
57.00	1281	127.00	21520	191.00	142	273.00	597
61.00	212	128.00	1651	192.00	429	274.00	1748
62.00	254	129.00	7959	193.00	487	275.00	9475
63.00	770	130.00	683	196.00	1349	276.00	1308
64.00	54	131.00	101	198.00	42160	277.00	742
65.00	359	134.00	190	199.00	2907	278.00	55
69.00	19400	135.00	643	200.00	193	285.00	54
70.00	53	136.00	218	201.00	183	293.00	137
73.00	184	137.00	259	203.00	225	296.00	2206
74.00	1967	141.00	1008	204.00	1471	297.00	303
75.00	3065	142.00	293	205.00	2453	303.00	271
76.00	1160	143.00	195	206.00	10473	315.00	182
77.00	22832	146.00	145	207.00	1353	316.00	67
78.00	1627	147.00	512	208.00	322	323.00	694
79.00	1460	148.00	1045	209.00	55	324.00	61
80.00	1064	149.00	148	210.00	73	327.00	62
81.00	1552	151.00	112	211.00	404	334.00	413
82.00	344	153.00	294	215.00	52	341.00	51
83.00	342	154.00	206	216.00	179	346.00	68
85.00	263	155.00	571	217.00	2575	352.00	209
86.00	352	156.00	871	218.00	260	353.00	68
87.00	176	157.00	148	221.00	2566	354.00	162
91.00	291	158.00	160	223.00	568	365.00	854
92.00	345	159.00	118	224.00	5592	366.00	58
93.00	2193	160.00	267	225.00	1423	372.00	340
94.00	140	161.00	441	226.00	81	383.00	56
96.00	104	162.00	110	227.00	2199	402.00	54

USP53 9869

Data File: /chem/HP10623.i/11jul15.b/cg0480z.d

Date : 15-JUL-2011 06:33

Client ID: 50 NG/UL

Instrument: HP10623.i

Sample Info: 50 NG/UL;8270DFTPP1641;

Operator: jmg00346

Column phase: DB-5

Column diameter: 0.25

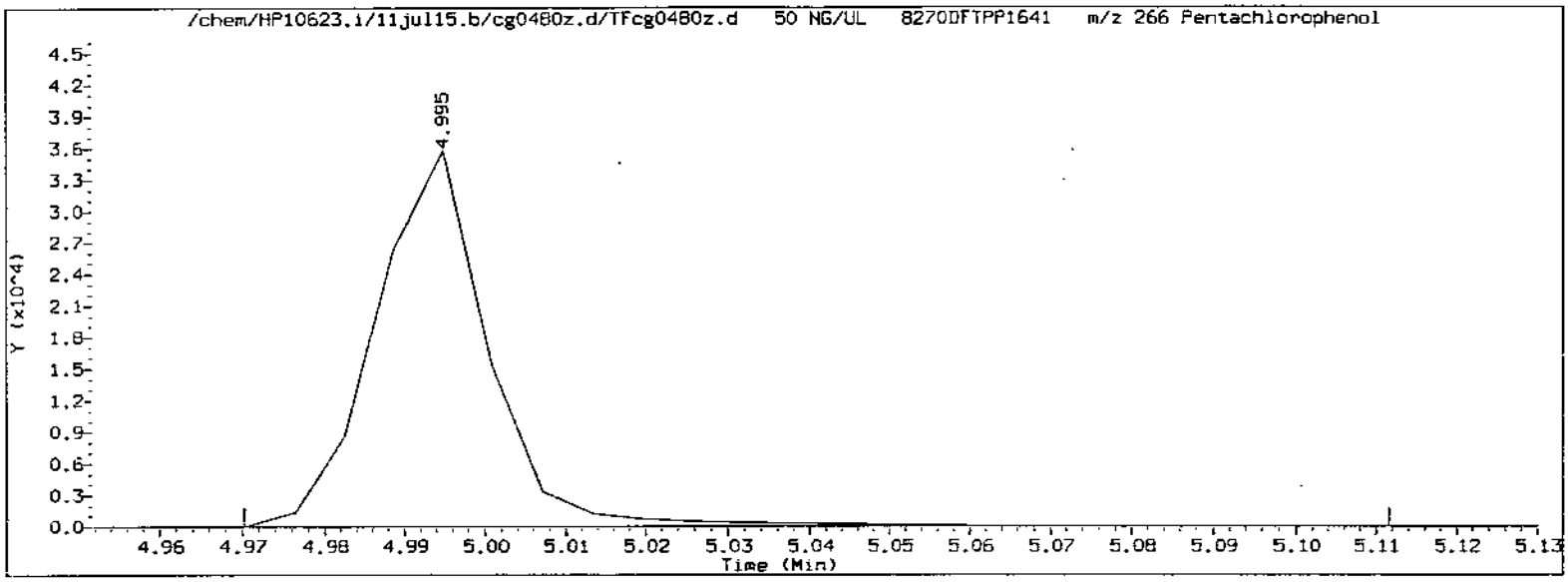
Data File: cg0480z.d
Spectrum: Avg. Scans 301-303 (5.44), Background Scan 296
Location of Maximum: 198.00
Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	1738	165.00	372	228.00	236	403.00	72
99.00	1305	166.00	256	229.00	457	421.00	70
100.00	108	167.00	2020	231.00	162	422.00	65
101.00	813	168.00	865	234.00	63	423.00	1021
103.00	236	169.00	131	235.00	128	424.00	157
104.00	513	172.00	156	236.00	65	441.00	2898
105.00	457	173.00	176	237.00	157	442.00	17624
106.00	172	174.00	352	241.00	56	443.00	3608
107.00	6126	175.00	795	242.00	232	444.00	340
108.00	1000	176.00	200	243.00	276		
109.00	108	177.00	385	244.00	4200		
110.00	12087	178.00	107	245.00	563		
111.00	1725	179.00	1445	246.00	755		

USP93 #878

Assessment of GC Column Performance and Injection Port Inertness for

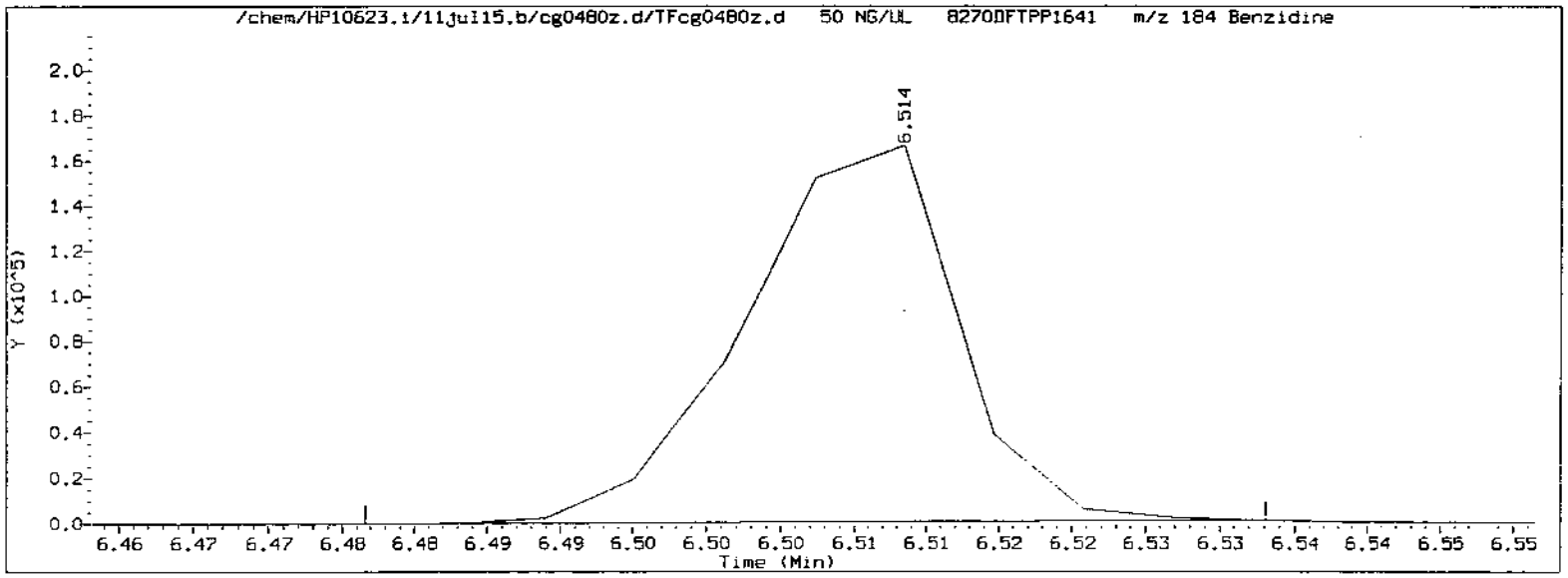
Instrument ID: HP10623.i Injection Date: 15-JUL-2011 06:33 Operator: jmg00346



Pentachlorophenol EICP peak height = 35760 EICP peak height at 10% = 3576 Pentachlorophenol EICP area = 34812

Pentachlorophenol EICP peak apex (min.) = 4.995
RT at 10% of front half of EICP (min.) = 4.978 'Front' peak width (min.) = 0.0165833333
RT at 10% of back half of EICP (min.) = 5.007 'Tailing' peak width (min.) = 0.0121833333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0121833333}{0.0165833333} = 0.735$



Benzidine EICP peak height = 165767 EICP peak height at 10% = 16577 Benzidine EICP area = 167766

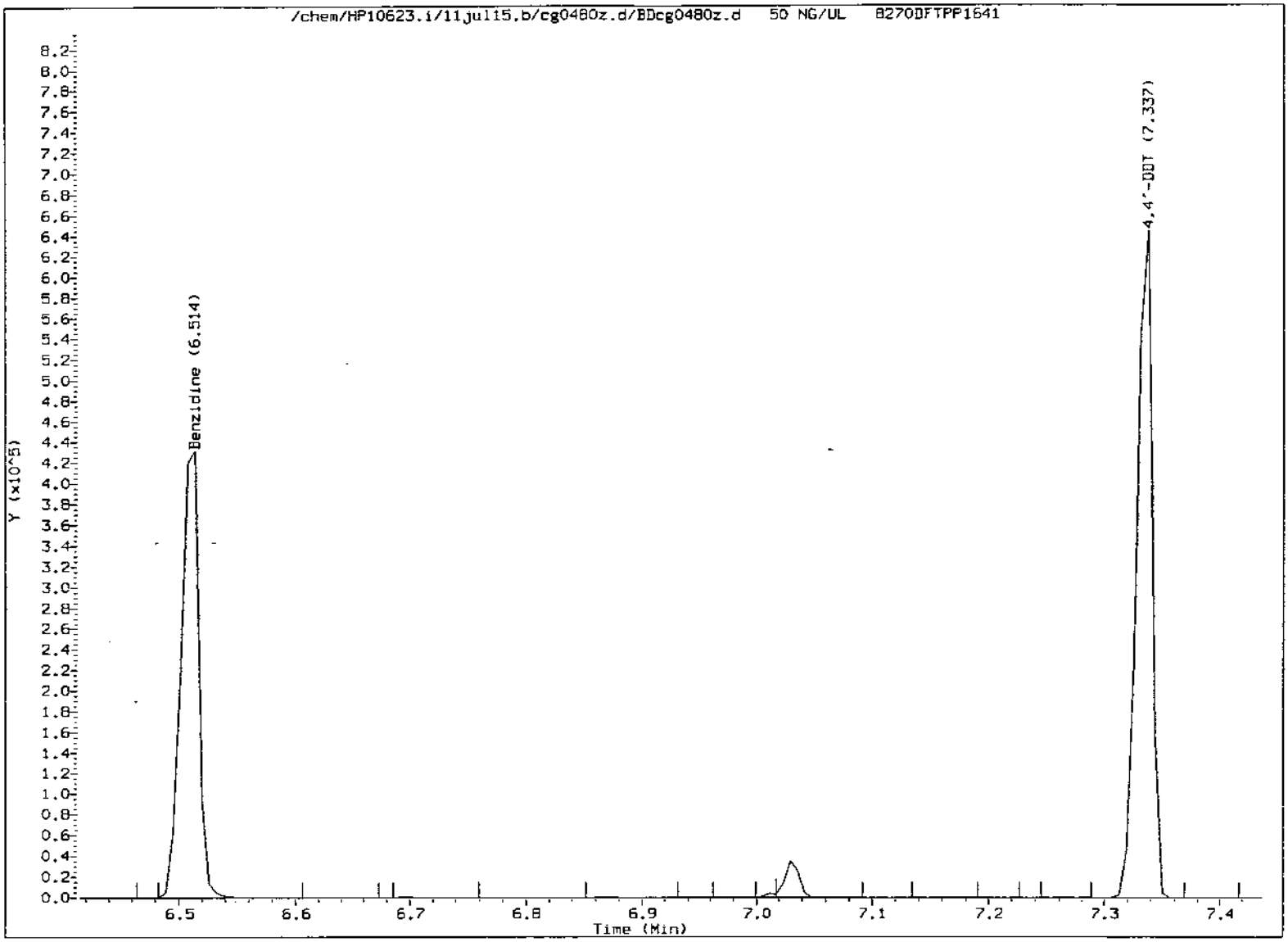
Benzidine EICP peak apex (min.) = 6.514
RT at 10% of front half of EICP (min.) = 6.494 'Front' peak width (min.) = 0.0192333333
RT at 10% of back half of EICP (min.) = 6.524 'Tailing' peak width (min.) = 0.0102666667

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0102666667}{0.0192333333} = 0.534$

USP93 8071

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP10623.i Injection Date: 15-JUL-2011 06:33 Operator: jmg00346

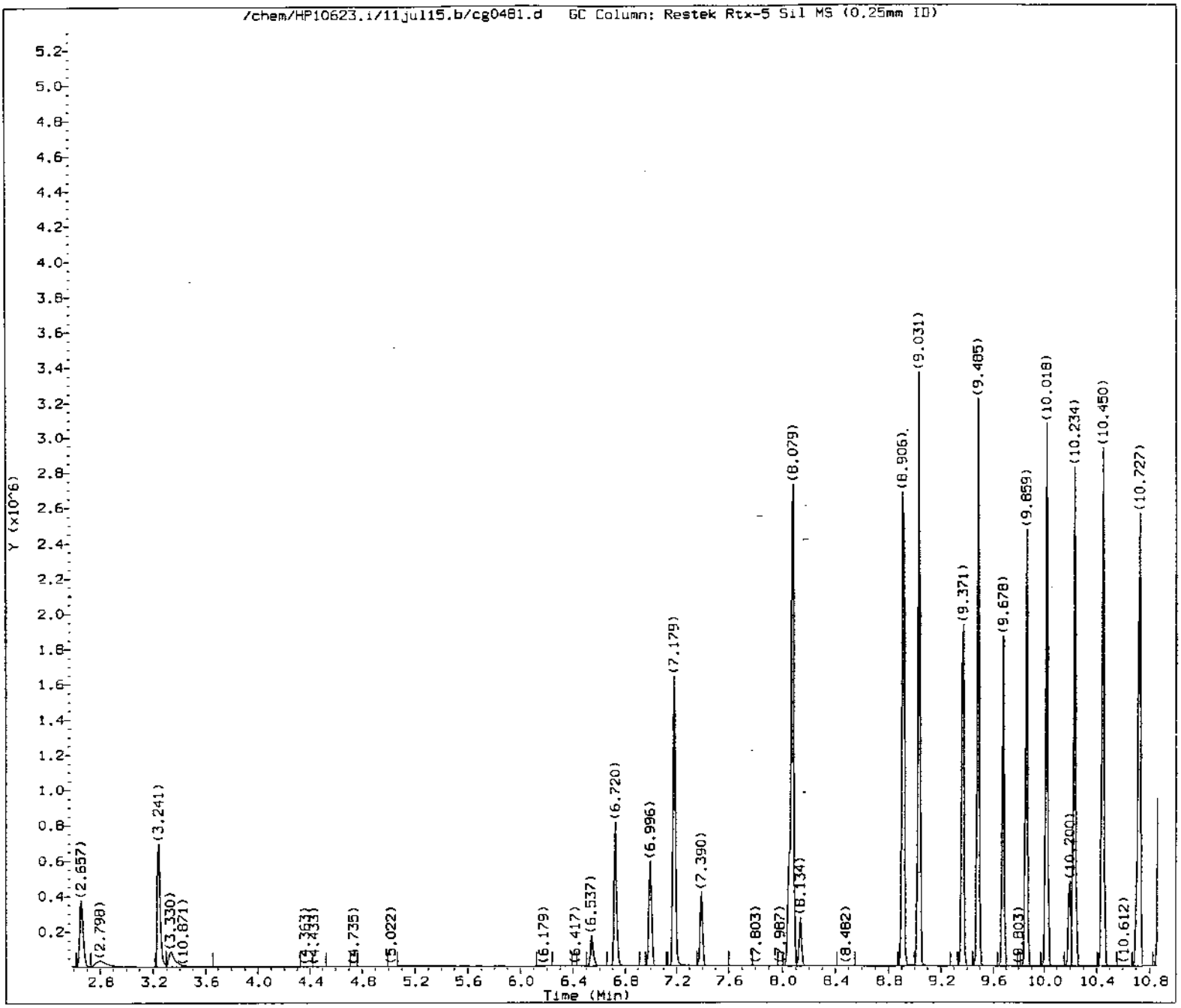


$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 0}{0 + 0 + 603185} \times 100 = 0.0$$

USF03 8872

printed on 07/15/2011 at 06:54



Quant Report

Target Revision 3.5

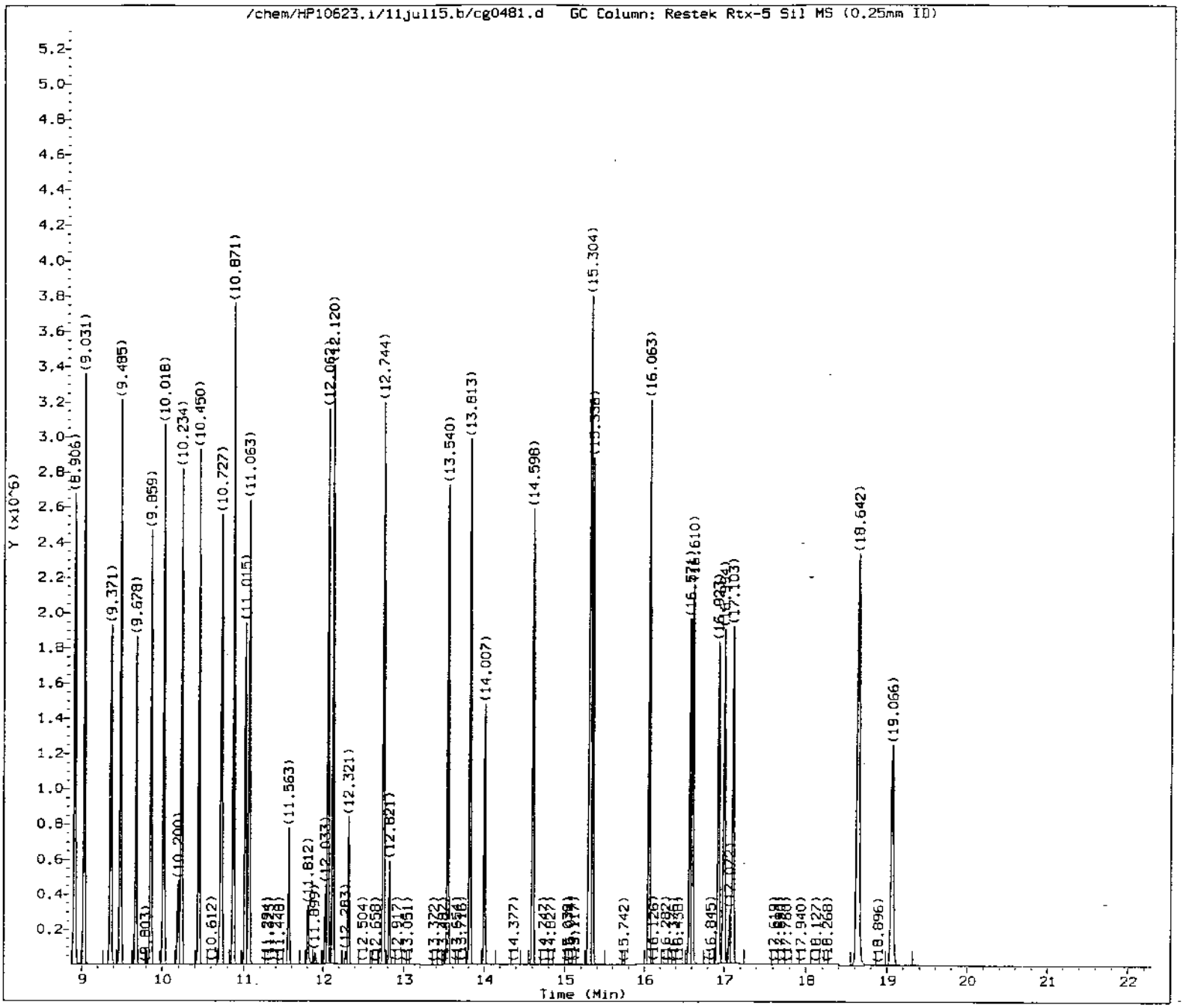
Data File: /chem/HP10623.i/11jul15.b/cg0481.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 06:52 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all
Calibration date and time: 15-JUL-2011 07:19
Date, time and analyst ID of latest file update: 15-Jul-2011 07:19 jmg00346

Sample Name: SSTD005 Lab Sample ID: LPAH1921

JUL 15 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0481.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 06:52 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 15-JUL-2011 07:19
Date, time and analyst ID of latest file update: 15-Jul-2011 07:19 jmg00346

Sample Name: SSTD005 Lab Sample ID: LPAH1921

USPS3 9074

JUL 15 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul15.b/cg0481.d Instrument ID: HP10623.i
Injection date and time: 15-JUL-2011 06:52 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul15.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 15-JUL-2011 07:19
Date, time and analyst ID of latest file update: 15-Jul-2011 07:19 jmg00346

Sample Name: SSTD005 Lab Sample ID: LPAH1921

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.657	88	377744	5.3783
3) N-Nitrosodimethylamine	(1)	3.241	74	546189	5.6127
6) 1,4-Dichlorobenzene-d4	(1)	6.537	152	138091	1.0000
12) Naphthalene-d8	(2)	8.051	136	548146	1.0000
13) Naphthalene	(2)	8.079	128	2861523	4.8591
14) 2-Methylnaphthalene	(2)	8.917	142	1912961	5.1530
16) 1-Methylnaphthalene	(2)	9.031	142	1741176	4.8865
18) Acenaphthylene	(3)	10.018	152	2728056	5.7406
19) Acenaphthene-d10	(3)	10.200	164	292229	1.0000
20) Dimethylphthalate	(3)	9.859	163	1971415	5.5595
21) Acenaphthene	(3)	10.234	154	1689524	5.0690
22) Diethylphthalate	(3)	10.727	149	1970891	5.3871
23) Fluorene	(3)	10.871	166	1952918	5.4113
24) 1,2-Diphenylhydrazine	(4)	11.063	77	2344193	5.8451
25) N-Nitrosodiphenylamine	(4)	11.015	169	1117729	5.0544
26) NDPA as diphenylamine	(4)	11.015	169	1117729	5.0544
28) Hexachlorobenzene	(4)	11.563	284	453596	4.8588
30) Phenanthrene-d10	(4)	12.033	188	468228	1.0000
31) Phenanthrene	(4)	12.062	178	2780379	5.0533
32) Anthracene	(4)	12.120	178	2811614	5.4292
33) Di-n-butylphthalate	(4)	12.744	149	3217677	4.8631
35) Fluoranthene	(4)	13.540	202	2941970	5.3736
37) Pyrene	(5)	13.813	202	3070318	5.0381
39) Butylbenzylphthalate	(5)	14.606	149	1409122	5.0186
40) bis(2-Ethylhexyl)phthalate	(5)	15.304	149	2135311	5.1479
41) Benzo(a)anthracene	(5)	15.289	228	2551926	5.2995
42) Chrysene-d12	(5)	15.304	240	389215	1.0000
43) Chrysene	(5)	15.336	228	2536138	4.8024
44) Di-n-octylphthalate	(6)	16.063	149	3538616	4.9703
45) Benzo(b)fluoranthene	(6)	16.571	252	2074401	4.7049
46) Benzo(k)fluoranthene	(6)	16.610	252	2438105	5.1618
47) Benzo(e)pyrene	(6)	16.923	252	2169725	4.9438
48) Benzo(a)pyrene	(6)	16.994	252	2152270	5.1887
49) Perylene-d12	(6)	17.072	264	338515	1.0000
50) Perylene	(6)	17.103	252	2182308	4.8405
51) Indeno(1,2,3-cd)pyrene	(6)	18.635	276	2274997	5.1492
52) Dibenz(a,h)anthracene	(6)	18.649	278	1806840	5.1242
53) Benzo(g,h,i)perylene	(6)	19.066	276	1931860	4.9806
10) Nitrobenzene-d5	(2)	7.179	82	1133013	5.8011
17) 2-Fluorobiphenyl	(3)	9.371	172	1797573	5.0352
38) Terphenyl-d14	(5)	14.007	244	1353967	5.0030

M = Compound was manually integrated. A = User selected an alternate hit

Raw QC Data

USEPA 9075

SBLKWG1923 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKWG192

Data file: /chem/HP10623.i/11jul14.b/cg0433.d Blank Data file reference:/chem/HP10623.i/11jul14.b/cg0433.d
Injection date and time: 14-JUL-2011 08:29 Instrument ID: HP10623.i Batch: 11192WAG
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time (Last Method Edit): 14-JUL-2011 08:35
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14.b/cg0431.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.537	(0.009)	545	152.0	139743	(-11)	1.00	
12) Naphthalene-d8	8.051	(0.000)	710	136.0	556888	(-11)	1.00	
19) Acenaphthene-d10	10.200	(0.000)	911	164.0	293262	(-11)	1.00	
30) Phenanthrene-d10	12.033	(0.000)	1097	188.0	451946	(-14)	1.00	
42) Chrysene-d12	15.305	(0.000)	1460	240.0	340162	(-21)	1.00	
49) Perylene-d12	17.080	(0.000)	1687	264.0	286225	(-21)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.188	(0.000)	82	213754	1.077	108%		64 - 147
17) 2-Fluorobiphenyl	(3)	9.371	(0.000)	172	354674	0.990	99%		68 - 132
38) Terphenyl-d14	(5)	14.007	(0.000)	244	253881	1.073	107%		53 - 129

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)				Below MDL, Do not report					0.03
14) 2-Methylnaphthalene	(2)				Below MDL, Do not report					0.01
16) 1 Methylnaphthalene	(2)				Below MDL, Do not report					0.01
18) Acenaphthylene	(3)				Below MDL, Do not report					0.01
20) Dimethylphthalate	(3)				Below MDL, Do not report					0.05
21) Acenaphthene	(3)				Below MDL, Do not report					0.01
22) Diethylphthalate	(3)	10.718	(0.000)	149	22852	0.062	0.06			0.05
23) Fluorene	(3)				Below MDL, Do not report					0.01
31) Phenanthrene	(4)				Below MDL, Do not report					0.03
32) Anthracene	(4)				Below MDL, Do not report					0.01
33) Di-n-butylphthalate	(4)	12.744	(0.000)	149	23552	0.227	0.23			0.05
35) Fluoranthene	(4)				Below MDL, Do not report					0.01
37) Pyrene	(5)				Below MDL, Do not report					0.01
39) Butylbenzylphthalate	(5)				ND	ND				0.05
40) bis(2-Ethylhexyl)phthalate	(5)	15.297	(0.000)	149	13268	0.174	0.17			0.05
41) Benzo(a)anthracene	(5)				Below MDL, Do not report					0.01
43) Chrysene	(5)				Below MDL, Do not report					0.01
44) Di-n-octylphthalate	(6)				ND	ND				0.05
45) Benzo(b)fluoranthene	(6)				Below MDL, Do not report					0.01
46) Benzo(k)fluoranthene	(6)				Below MDL, Do not report					0.01
48) Benzo(a)pyrene	(6)				Below MDL, Do not report					0.01
51) Indeno(1,2,3-cd)pyrene	(6)				ND	ND				0.01
52) Dibenz(a,h)anthracene	(6)				ND	ND				0.01
53) Benzo(g,h,i)perylene	(6)				ND	ND				0.01

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 9877

SBLKWG1923 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKWG192

Data file: /chem/HP10623.i/11jul14.b/cg0433.d Blank Data file reference:/chem/HP10623.i/11jul14.b/cg0433.d
Injection date and time: 14-JUL-2011 08:29 Instrument ID: HP10623.i Batch: 11192WAG
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Method used: /chem/HP10623.i/11jul14.b/m11pah_2sim.m Sublist used: WList6910
Calibration date and time (Last Method Edit): 14-JUL-2011 08:35
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14.b/cg0431.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

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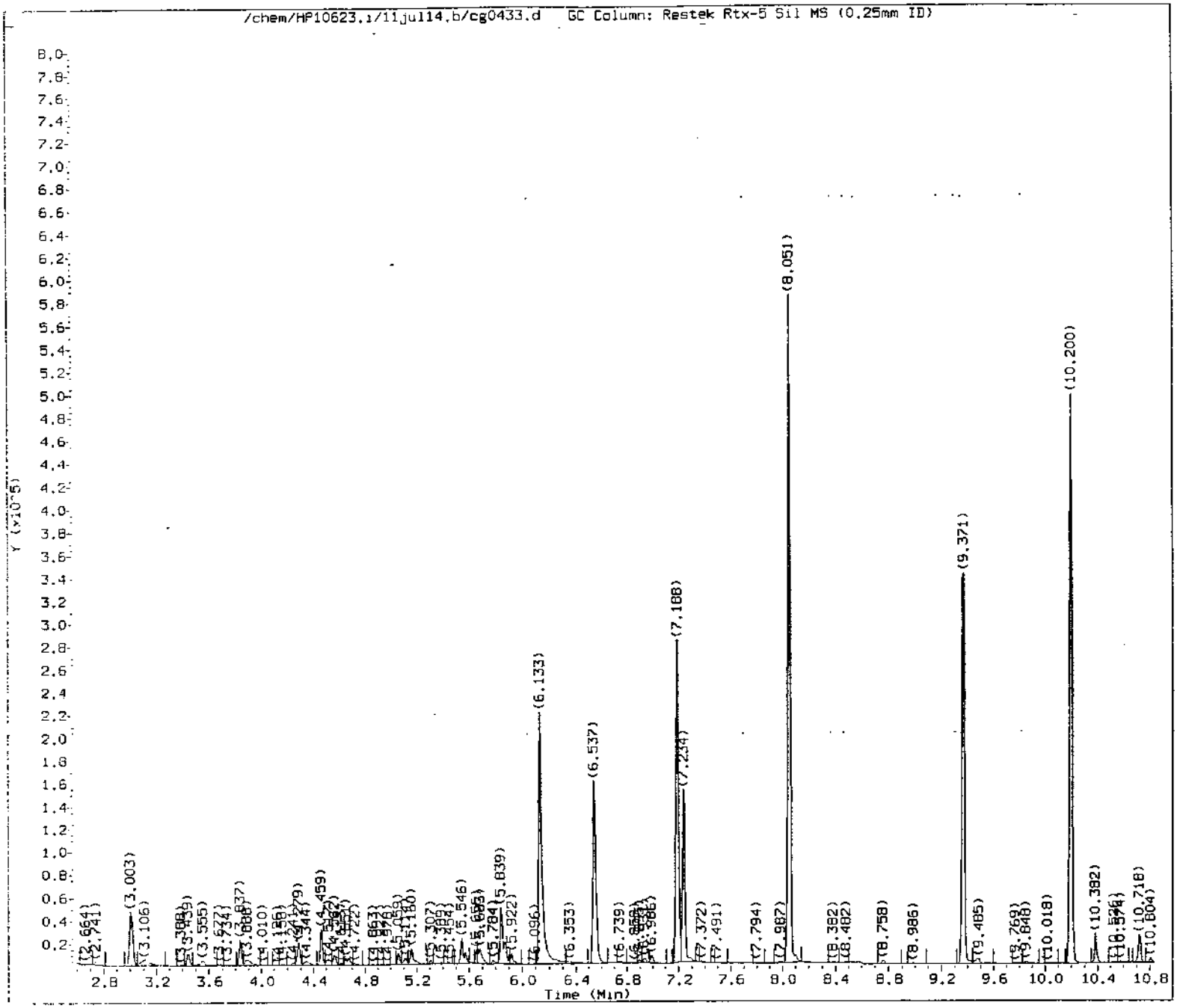
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 24

Comments:

Analyst: Date: 7-14-11
Auditor: Date:

USF03 8878



Quant Report

Target Revision 3.5

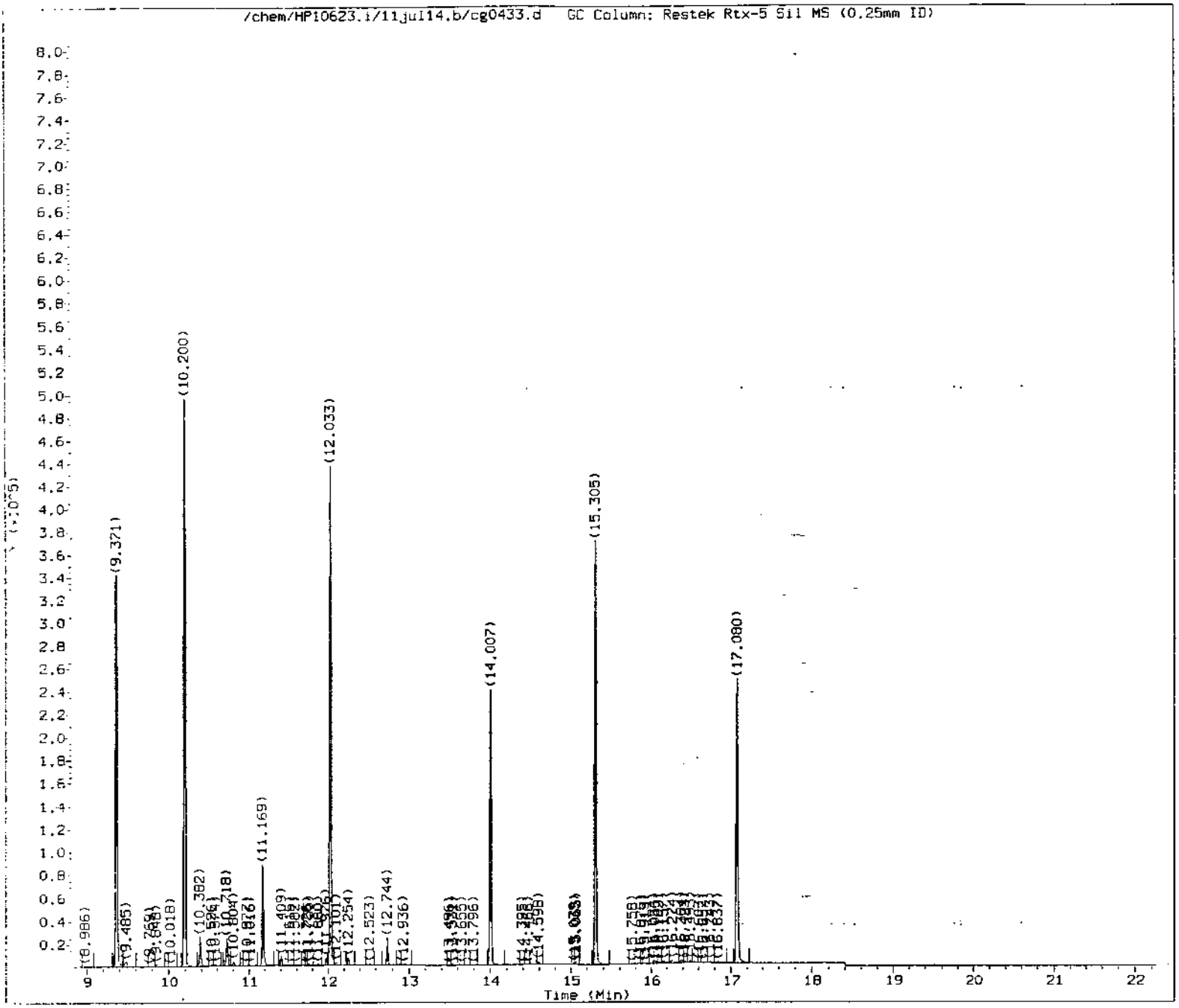
Data File: /chem/HP10623.i/11jul14.b/cg0433.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 08:29 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:14 jmg00346

Sample Name: SBLKWG1923 Lab Sample ID: SBLKWG192

JUL 14 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0433.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 08:29 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:14 jmg00346

Sample Name: SBLKWG1923 Lab Sample ID: SBLKWG192

USPS 7000

JUL 14 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0433.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 08:29 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

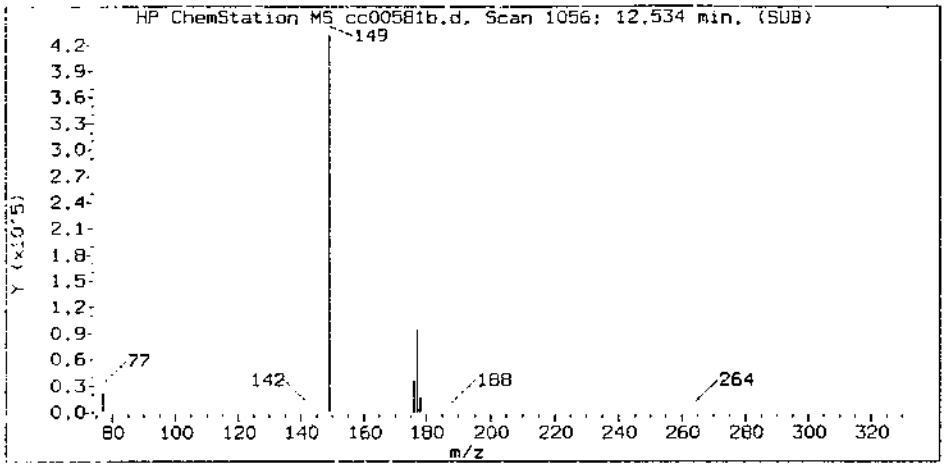
Sample Name: SBLKWG1923 Lab Sample ID: SBLKWG192

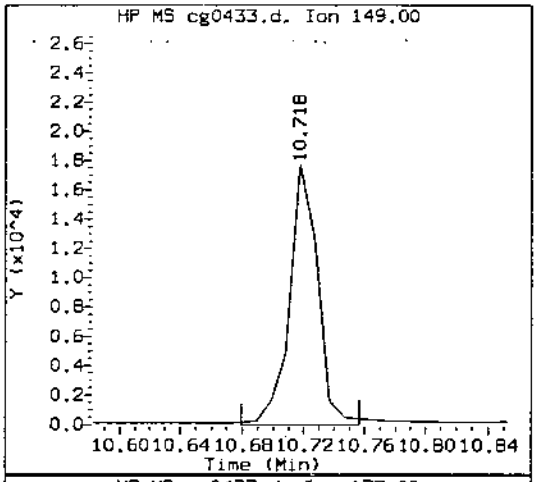
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6)	1,4-Dichlorobenzene-d4	(1)	6.537	152	139743	1.0000
12)	Naphthalene-d8	(2)	8.051	136	556888	1.0000
19)	Acenaphthene-d10	(3)	10.200	164	293262	1.0000
22)	Diethylphthalate	(3)	10.718	149	22852M	0.0622
30)	Phenanthrene-d10	(4)	12.033	188	451946	1.0000
33)	Di-n-butylphthalate	(4)	12.744	149	23552	0.2269
40)	bis(2-Ethylhexyl)phthalate	(5)	15.297	149	13268	0.1737
42)	Chrysene-d12	(5)	15.305	240	340162	1.0000
49)	Perylene-d12	(6)	17.080	264	286225	1.0000
10)	Nitrobenzene-d5	(2)	7.188	82	213754	1.0773
17)	2-Fluorobiphenyl	(3)	9.371	172	354674	0.9900
38)	Terphenyl-d14	(5)	14.007	244	253881	1.0734

M = Compound was manually integrated. A = User selected an alternate hit

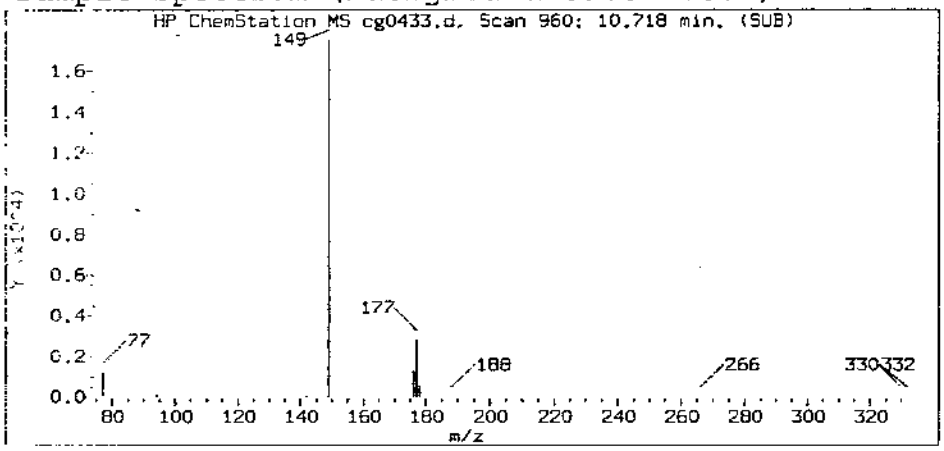
USF63 8881

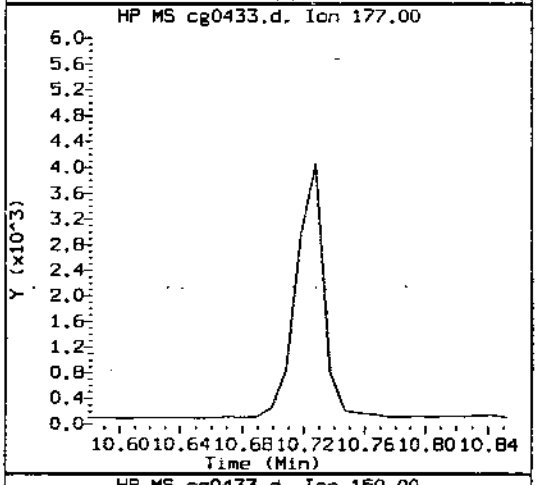
Reference Standard Spectrum for Diethylphthalate



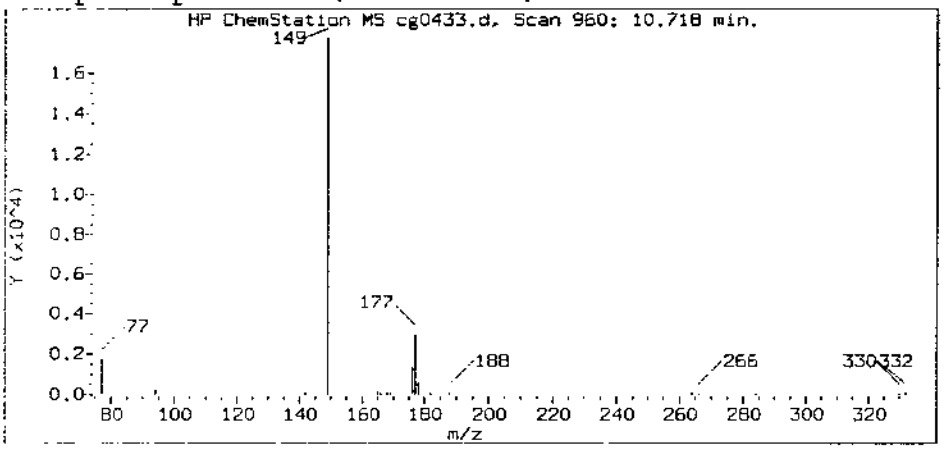


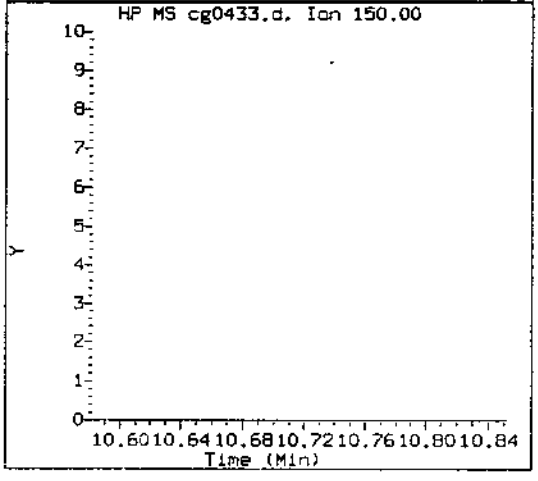
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14.b/cg0433.d
Injection date and time: 14-JUL-2011 08:29

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:14 jmg00346

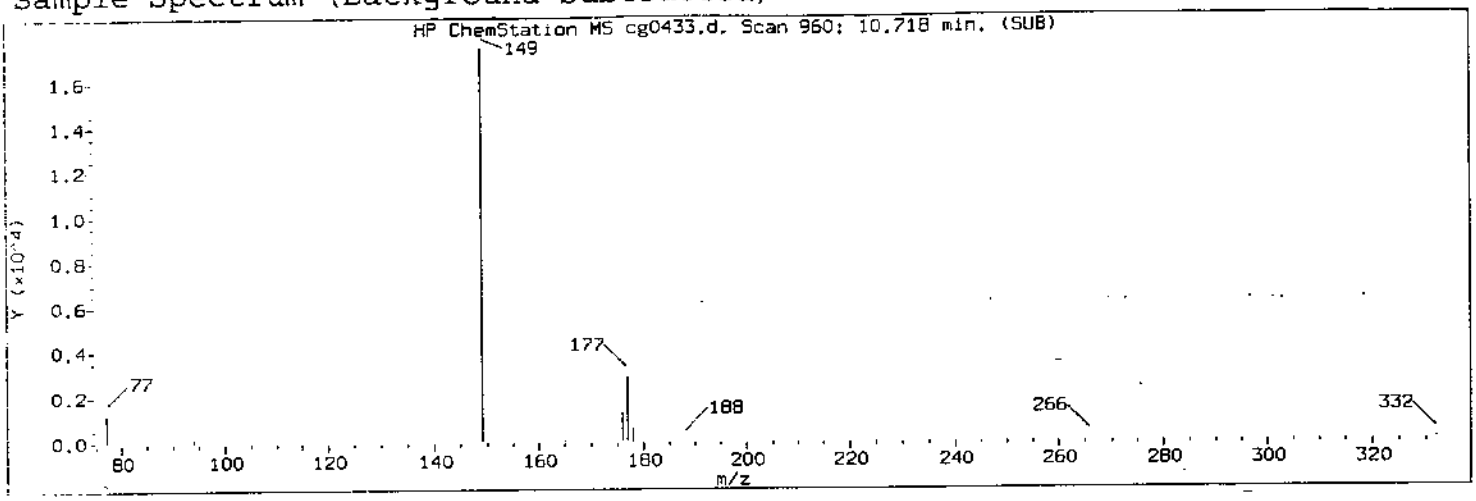
Sample Name: SBLKWG1923

Lab Sample ID: SBLKWG192

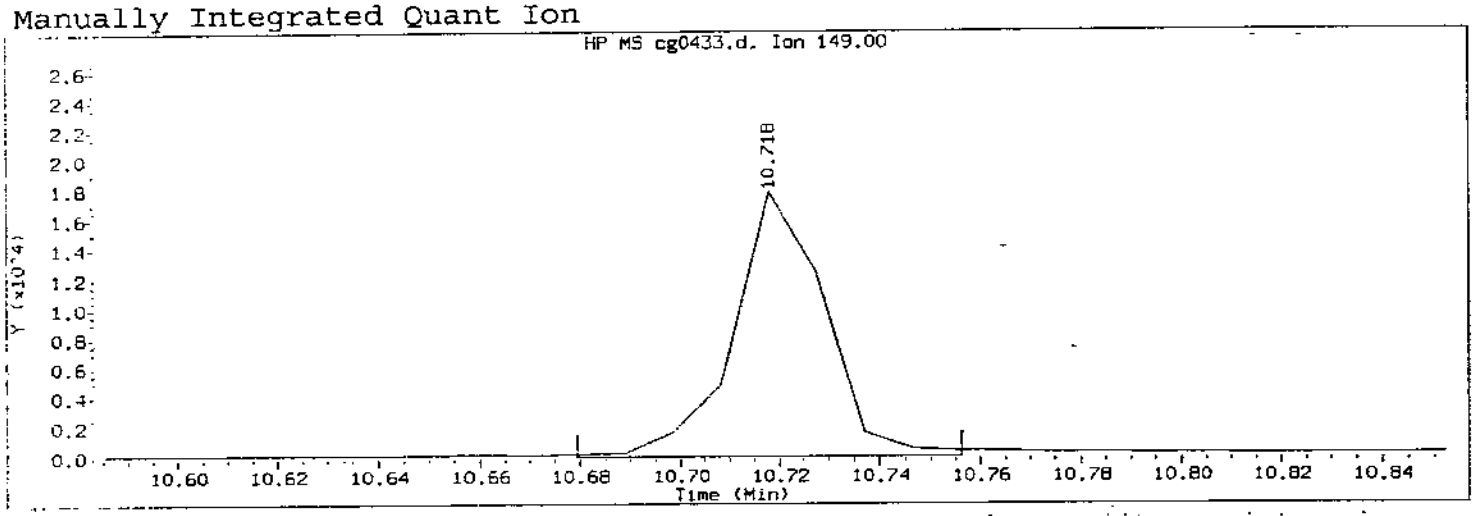
Compound Number	:	22
Compound Name	:	Diethylphthalate
Scan Number	:	960
Retention Time (minutes)	:	10.718
Quant Ion	:	149.0
Area (flag)	:	22852 M
Concentration (ng/ul)	:	0.0622

USEPA 9082

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/11jul14.b/cg0433.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 08:29 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:14 jmg00346

Sample Name: SBLKWG1923 Lab Sample ID: SBLKWG192

Compound Number	: 22
Compound Name	: Diethylphthalate
Scan Number	: 960
Retention Time (minutes)	: 10.718
Quant Ion	: 149
Area (flag)	: 22852 M
Concentration (ng/ul)	: 0.0622
Integration start scan	: 955 Integration stop scan: 963
Y at integration start	: 0 Y at integration end: 0

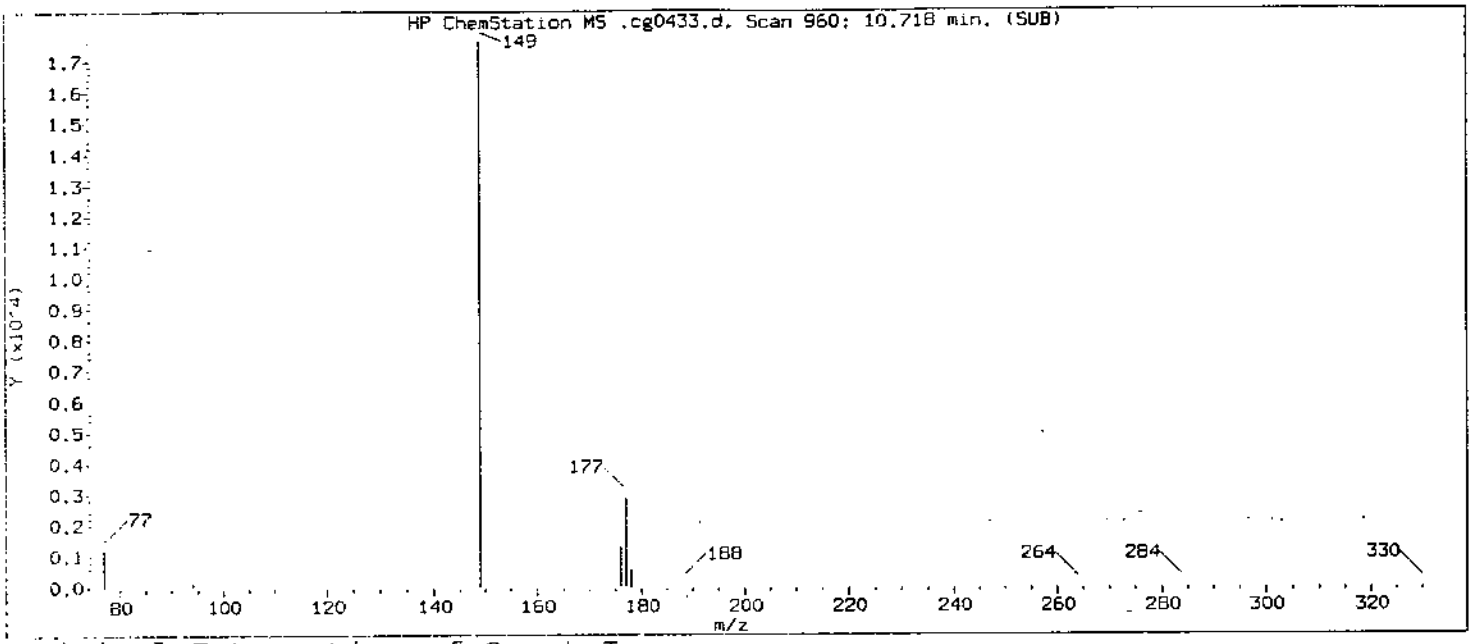
Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: Joe Gambler JUL 14 2011
Joe Gambler
Senior Chemist

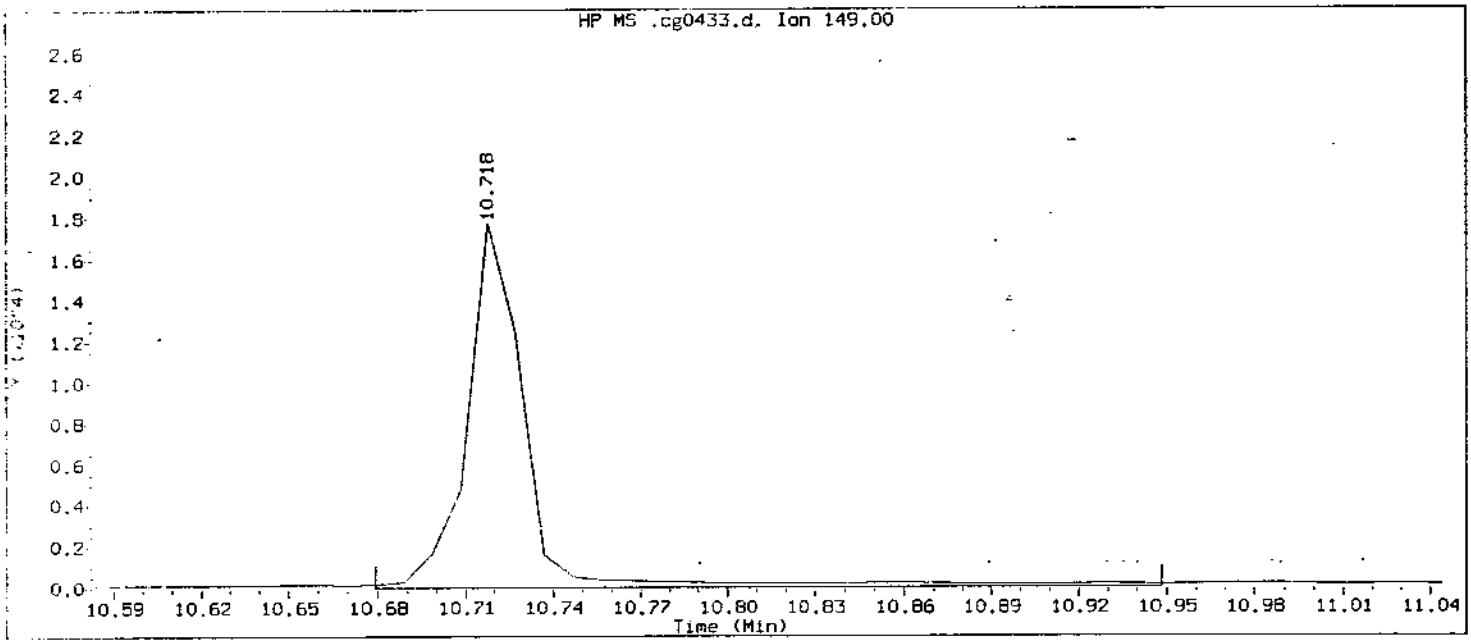
GC/MS audit/management approval: Matthew E. Barton JUL 16 2011
Matthew E. Barton
Senior Specialist

Manual Integration Report for data file /chem/HP10623.i/11jul14.b/cg0433.d, generated on 07/14/2011 at 10:14

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/11jul14.b/cg0433.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 08:29 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: all1
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 08:54 Automation

Sample Name: SBLKWG1923 Lab Sample ID: SBLKWG1923

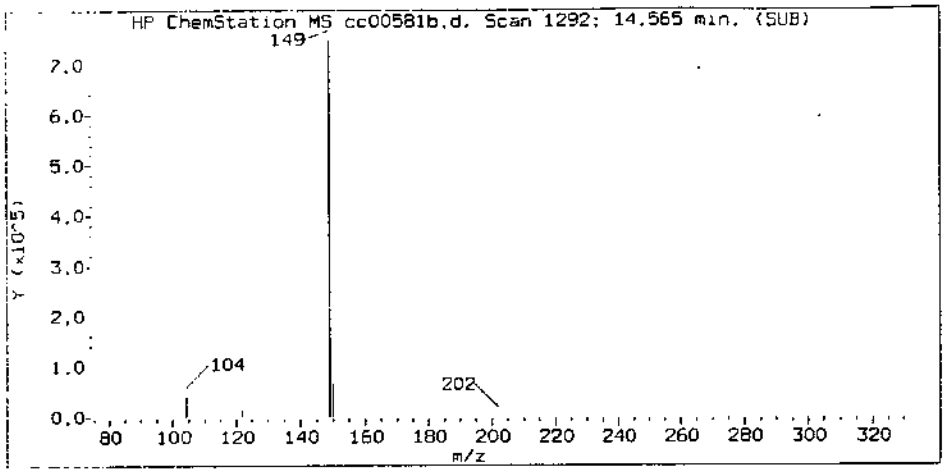
Compound Number	:	22
Compound Name	:	Diethylphthalate
Scan Number	:	960
Retention Time (minutes)	:	10.718
Quant Ion	:	149
Area	:	25233
Concentration (ng/ul)	:	0.0687
Integration start scan	:	955 Integration stop scan: 983
Y at integration start	:	0 Y at integration end: 0

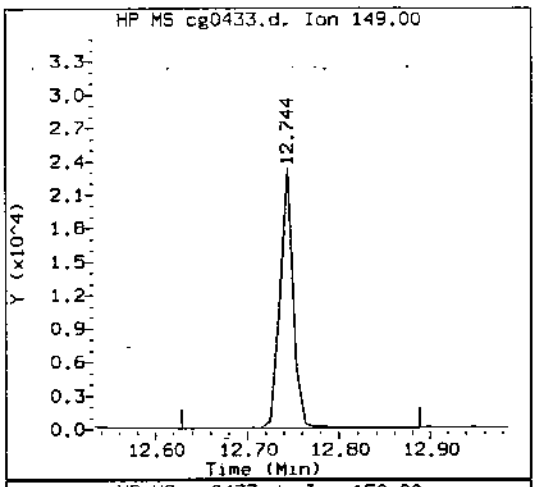
JUL 14 2011

Joe Gambler
Senior Chemist

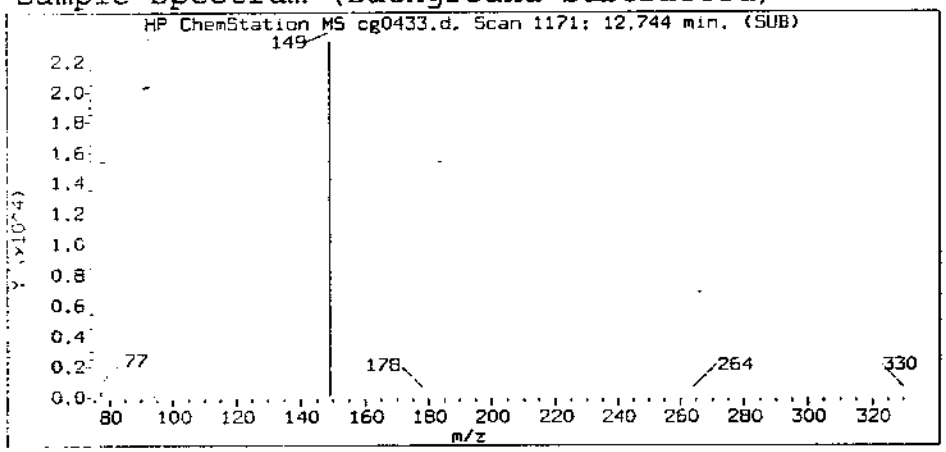
Original Integration Report for data file /chem/HP10623.i/11jul14.b/cg0433.d, generated on 07/14/2011 at 10:14

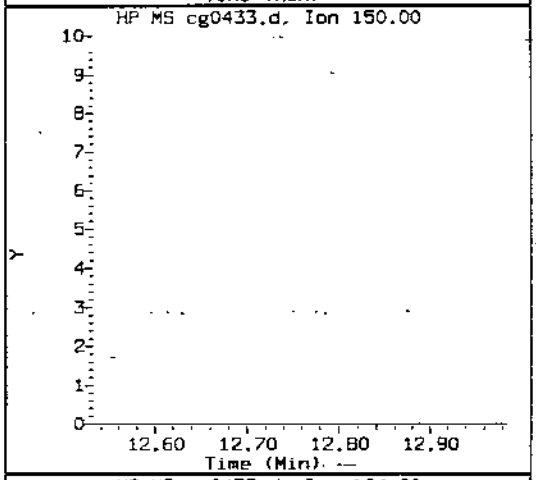
Reference Standard Spectrum for Di-n-butylphthalate



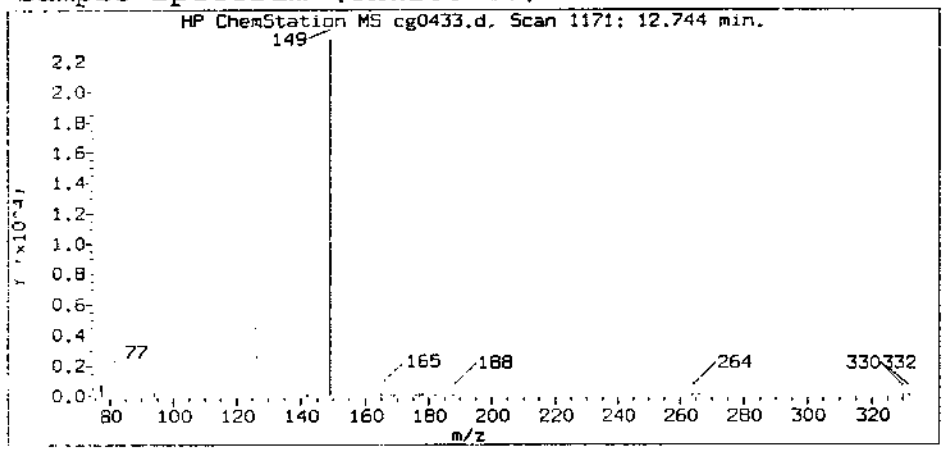


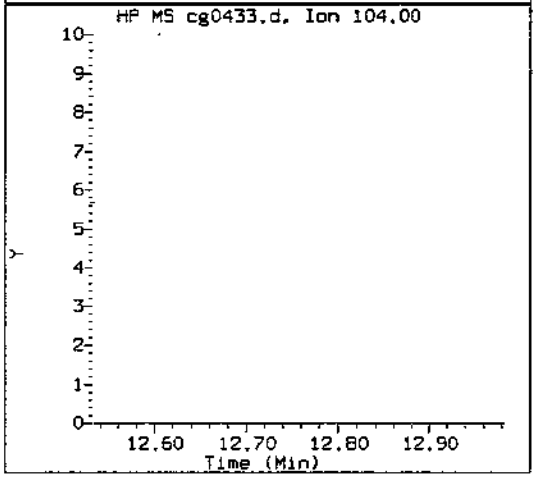
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14.b/cg0433.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 08:29 Analyst ID: jmg00346

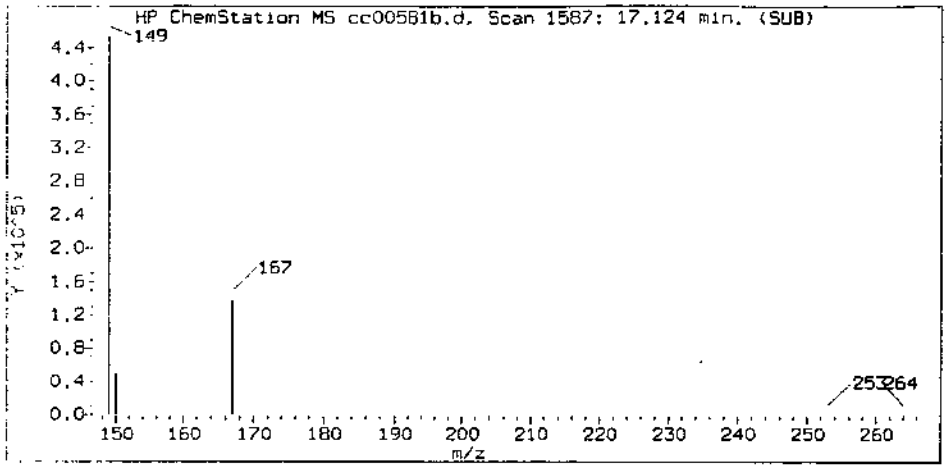
Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:14 jmg00346

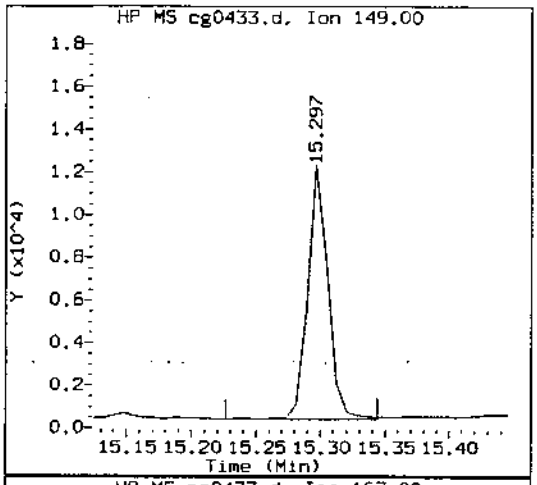
Sample Name: SBLKWG1923 Lab Sample ID: SBLKWG192

Compound Number	: 33
Compound Name	: Di-n-butylphthalate
Scan Number	: 1171
Retention Time (minutes)	: 12.744
Quant Ion	: 149.0
Area (flag)	: 23552
Concentration (ng/ul)	: 0.2269

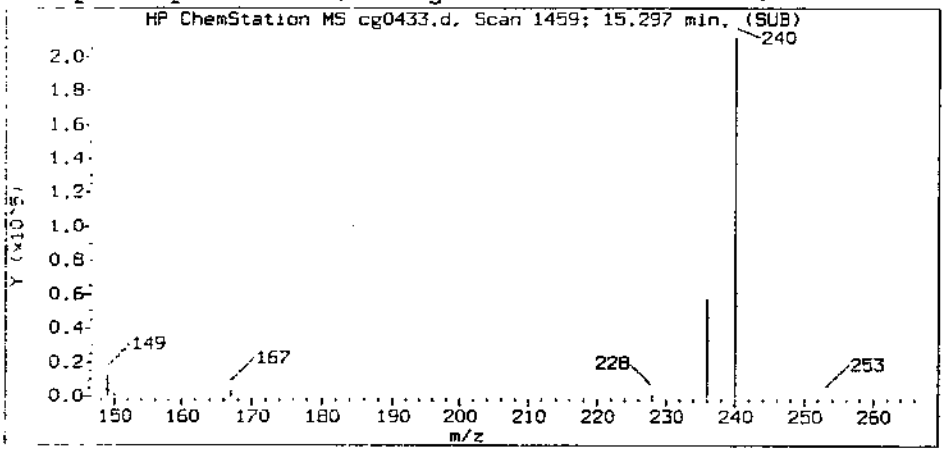
USF03 0005

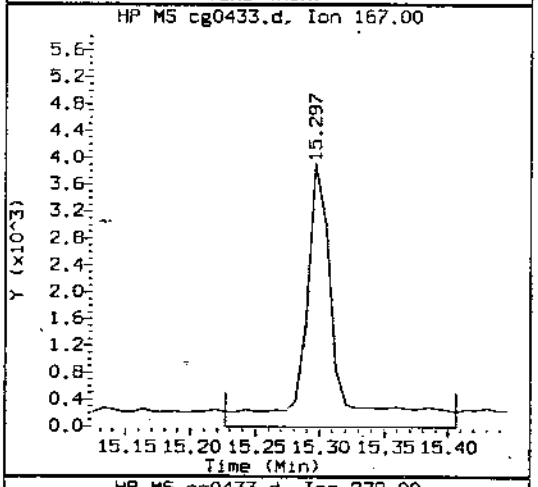
Reference Standard Spectrum for bis(2-Ethylhexyl)phthalate



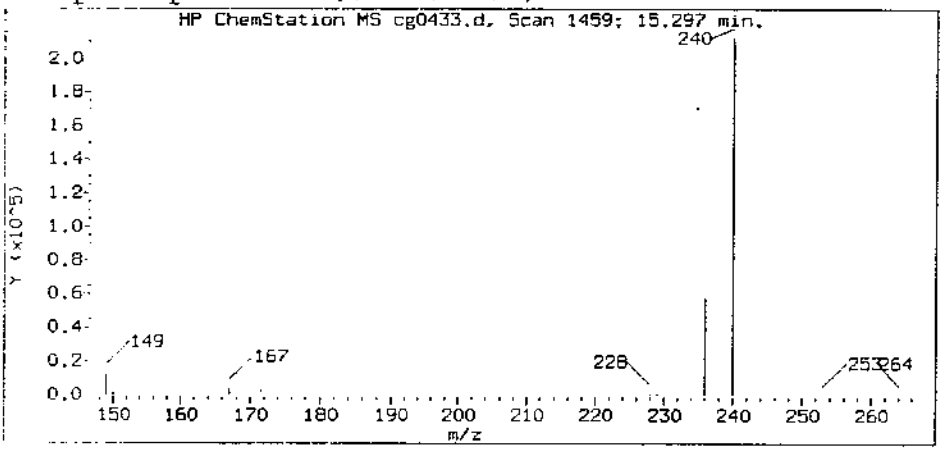


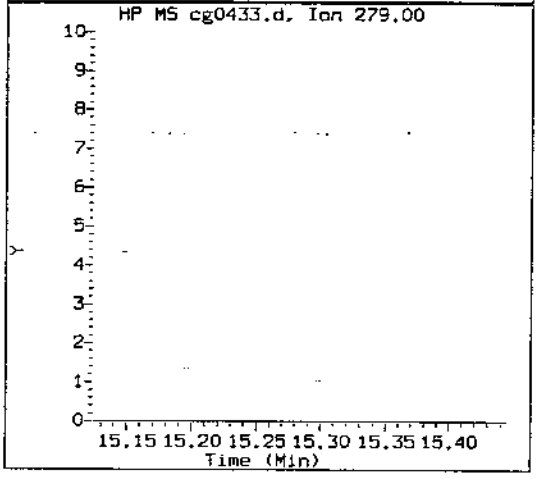
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/11jul14.b/cg0433.d
Injection date and time: 14-JUL-2011 08:29

Instrument ID: HP10623.i
Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:14 jmg00346

Sample Name: SBLKWG1923

Lab Sample ID: SBLKWG192

Compound Number	: 40
Compound Name	: bis(2-Ethylhexyl)phthalate
Scan Number	: 1459
Retention Time (minutes)	: 15.297
Quant Ion	: 149.0
Area (flag)	: 13268
Concentration (ng/ul)	: 0.1737

USF03 0806

SBLKLD1943 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKLD194

Data file: /chem/HP10623.i/11jul14a.b/cg0453.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 18:19 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 14-Jul-2011 19:02 gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.518(0.000)	543	152.0	141160(-7)	1.00	
12) Naphthalene-d8	8.024(0.000)	707	136.0	570111(-6)	1.00	
19) Acenaphthene-d10	10.166(0.000)	908	164.0	301242(-7)	1.00	
30) Phenanthrene-d10	12.005(0.000)	1094	188.0	465256(-7)	1.00	
42) Chrysene-d12	15.273(0.000)	1456	240.0	355220(-12)	1.00	
49) Perylene-d12	17.033(0.000)	1681	264.0	300421(-10)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.161(0.000)	82	221361	1.090	109%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.337(0.000)	172	367487	0.999	100%		63 - 129
38) Terphenyl-d14	(5)	13.972(0.000)	244	281480	1.140	114%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)				Below MDL, Do not report				0.02
14) 2-Methylnaphthalene	(2)				Below MDL, Do not report				0.02
16) 1-Methylnaphthalene	(2)				Below MDL, Do not report				0.02
18) Acenaphthylene	(3)				Below MDL, Do not report				0.01
20) Dimethylphthalate	(3)				Below MDL, Do not report				0.18
21) Acenaphthene	(3)				Below MDL, Do not report				0.02
22) Diethylphthalate	(3)				Below MDL, Do not report				0.18
23) Fluorene	(3)				Below MDL, Do not report				0.02
31) Phenanthrene	(4)				Below MDL, Do not report				0.02
32) Anthracene	(4)				Below MDL, Do not report				0.01
33) Di-n-butylphthalate	(4)				ND	ND			0.18
35) Fluoranthene	(4)				Below MDL, Do not report				0.02
37) Pyrene	(5)				Below MDL, Do not report				0.02
39) Butylbenzylphthalate	(5)				Below MDL, Do not report				0.18
40) bis(2-Ethylhexyl)phthalate	(5)				Below MDL, Do not report				0.18
41) Benzo(a)anthracene	(5)				Below MDL, Do not report				0.02
43) Chrysene	(5)				Below MDL, Do not report				0.01
44) Di-n-octylphthalate	(6)				Below MDL, Do not report				0.18
45) Benzo(b)fluoranthene	(6)				Below MDL, Do not report				0.02
46) Benzo(k)fluoranthene	(6)				Below MDL, Do not report				0.02
48) Benzo(a)pyrene	(6)				Below MDL, Do not report				0.02
51) Indeno(1,2,3-cd)pyrene	(6)				Below MDL, Do not report				0.02
52) Dibenz(a,h)anthracene	(6)				Below MDL, Do not report				0.02
53) Benzo(g,h,i)perylene	(6)				Below MDL, Do not report				0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USP83 0087

SBLKLD1943 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKLD194

Data file: /chem/HP10623.i/11jul14a.b/cg0453.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 18:19 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 14-Jul-2011 19:02 gjd01970

Method used: /chem/HP10623.i/11jul14a.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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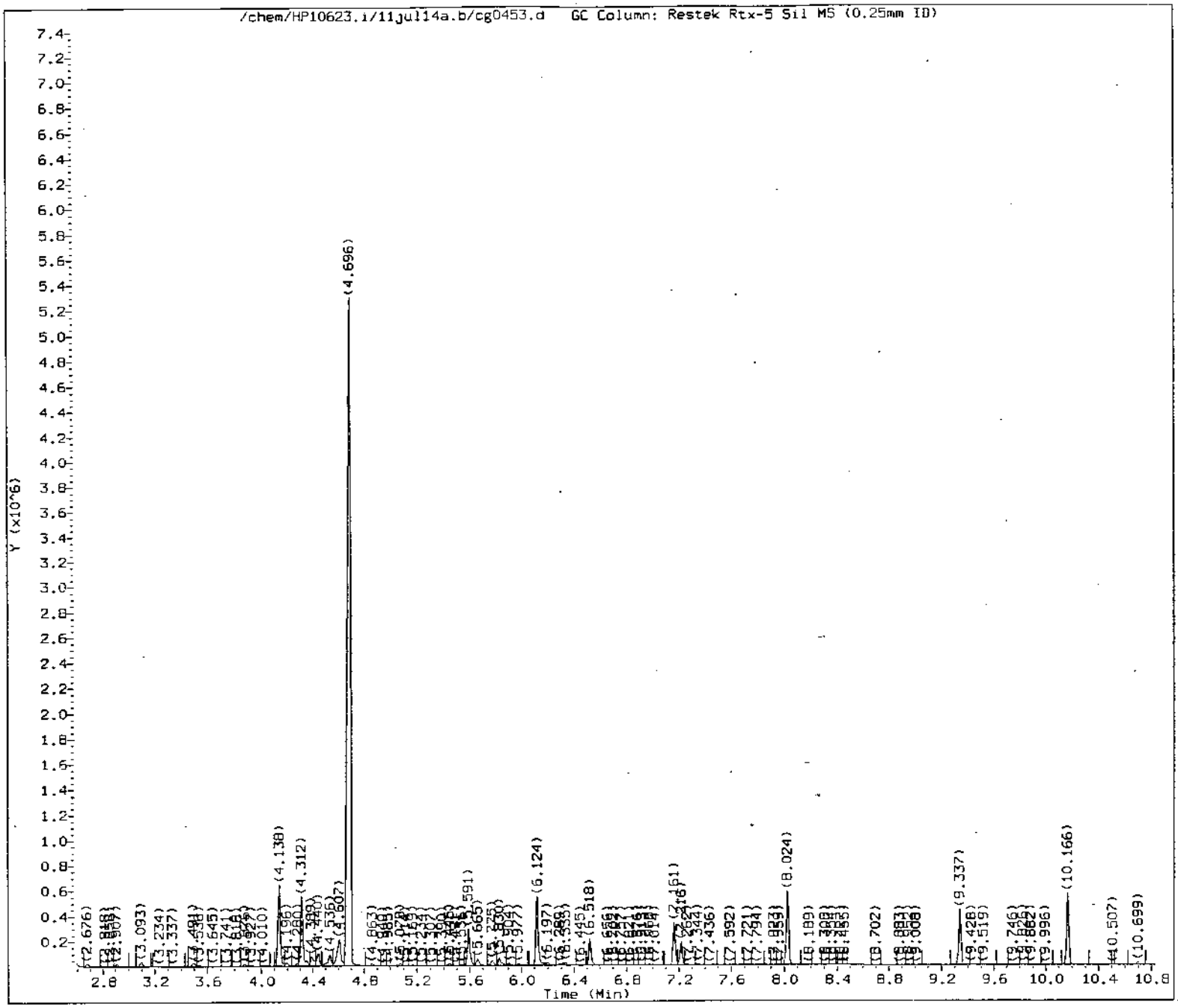
Total number of targets = 24

Comments: _____

Analyst: _____ Date: _____
Greg Drahovsky
Senior Chemist

Auditor: _____ Date: JUL 14 2011
Mark A. Ratcliff
Senior Specialist

JUL 19 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0453.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 18:19 Analyst ID: gjd01970

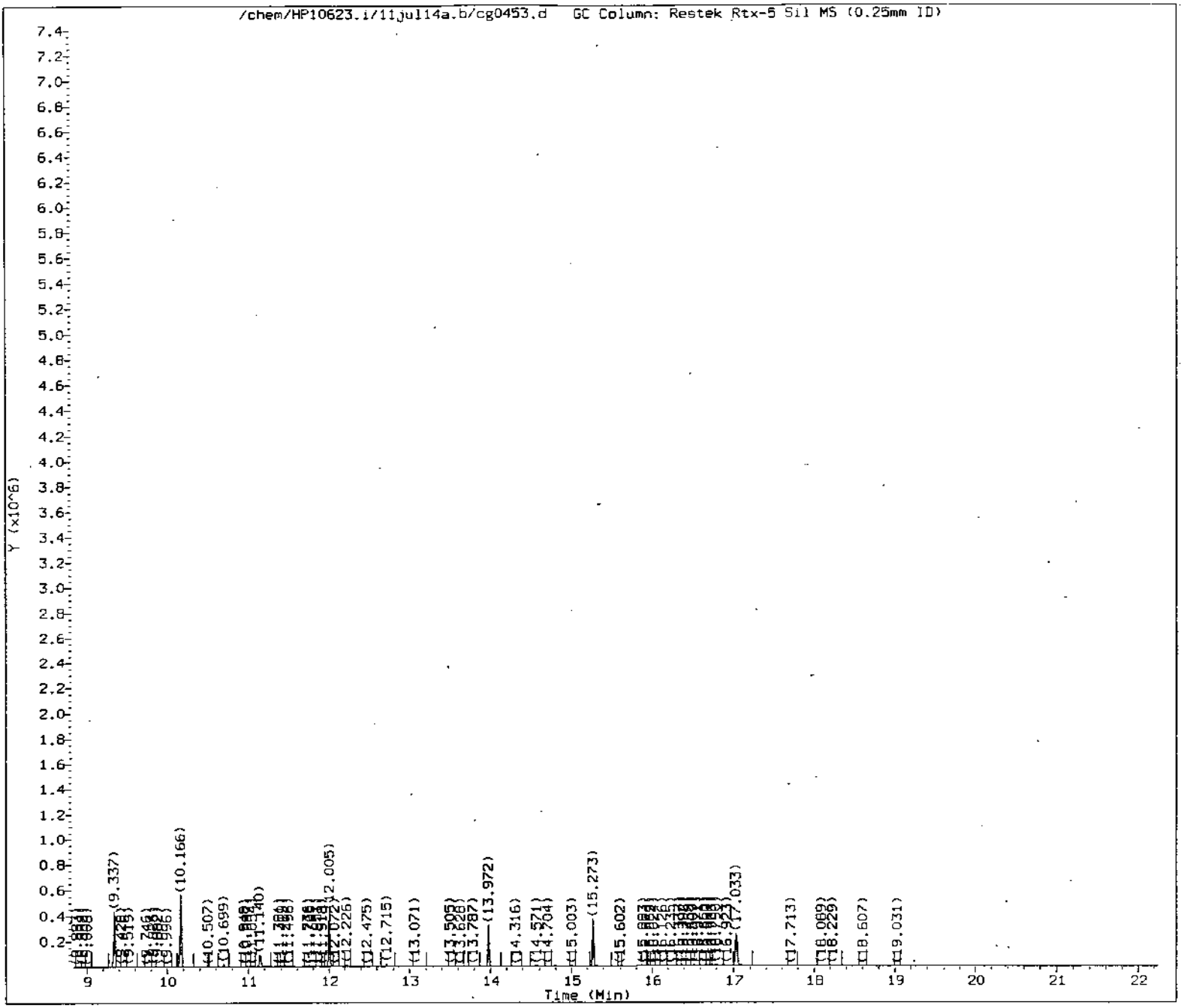
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 14-Jul-2011 19:02 gjd01970

Sample Name: SBLKLD1943 Lab Sample ID: SBLKLD194

Greg Drahovsky
Senior Chemist

USPS 9999

JUL 14 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0453.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 18:19 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 14-Jul-2011 19:02 gjd01970

Sample Name: SBLKLD1943 Lab Sample ID: SBLKLD194

USF93 8098

Greg Grabovsky
Senior Chemist

JUL 14 2011

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0453.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 18:19 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 14-Jul-2011 19:02 gjd01970

Sample Name: SBLKLD1943 Lab Sample ID: SBLKLD194

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.518	152	141160	1.0000
12) Naphthalene-d8	(2)	8.024	136	570111	1.0000
19) Acenaphthene-d10	(3)	10.166	164	301242	1.0000
30) Phenanthrene-d10	(4)	12.005	188	465256	1.0000
42) Chrysene-d12	(5)	15.273	240	355220	1.0000
49) Perylene-d12	(6)	17.033	264	300421	1.0000
10) Nitrobenzene-d5	(2)	7.161	82	221361	1.0897
17) 2-Fluorobiphenyl	(3)	9.337	172	367487	0.9986
38) Terphenyl-d14	(5)	13.972	244	281480	1.1396

M = Compound was manually integrated. A = User selected an alternate hit

USPB3 8891

192WGLCS3

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

192WGLCS

Data file: /chem/HP10623.i/11jul14.b/cg0434.d Blank Data file reference: **/chem/HP10623.i/11jul14.b/cg0433.d**
Injection date and time: 14-JUL-2011 09:01 Instrument ID: HP10623.i Batch: 11192WAG
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: **WList6910**
Calibration date and time (Last Method Edit): 14-JUL-2011 08:35
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14.b/cg0431.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.545	(0.000)	546	152.0	152535	(-3)	1.00	
12) Naphthalene-d8	8.051	(0.000)	710	136.0	617513	(-1)	1.00	
19) Acenaphthene-d10	10.200	(0.000)	911	164.0	326730	(-1)	1.00	
30) Phenanthrene-d10	12.033	(0.000)	1097	188.0	508221	(-3)	1.00	
42) Chrysene-d12	15.305	(0.000)	1460	240.0	400618	(-7)	1.00	
49) Perylene-d12	17.080	(0.000)	1687	264.0	328667	(-9)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.188	(0.000)	82	239403	1.088	109%		64 - 147
17) 2-Fluorobiphenyl	(3)	9.371	(0.000)	172	382644	0.959	96%		68 - 132
38) Terphenyl-d14	(5)	14.007	(0.000)	244	273896	0.983	98%		53 - 129

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)	8.079	(0.000)	128	594969	0.897	0.90			0.03
14) 2-Methylnaphthalene	(2)	8.917	(0.000)	142	369567	0.884	0.88			0.01
16) 1-Methylnaphthalene	(2)	9.031	(0.000)	142	377286	0.940	0.94			0.01
18) Acenaphthylene	(3)	10.018	(0.000)	152	540941	1.018	1.02			0.01
20) Dimethylphthalate	(3)	9.860	(0.000)	163	412344	1.040	1.04			0.05
21) Acenaphthene	(3)	10.234	(0.000)	154	364696	0.979	0.98			0.01
22) Diethylphthalate	(3)	10.718	(0.000)	149	444387	1.086	1.09	0.06	B	0.05
23) Fluorene	(3)	10.871	(0.000)	166	419162	1.039	1.04			0.01
31) Phenanthrene	(4)	12.062	(0.000)	178	571042	0.956	0.96			0.03
32) Anthracene	(4)	12.120	(0.000)	178	555547	0.988	0.99			0.01
33) Di-n-butylphthalate	(4)	12.744	(0.000)	149	673612	1.093	1.09	0.23	B	0.05
36) Fluoranthene	(4)	13.540	(0.000)	202	595966	1.003	1.00			0.01
37) Pyrene	(5)	13.813	(0.001)	202	620399	0.989	0.99			0.01
39) Butylbenzylphthalate	(5)	14.598	(0.000)	149	278660	1.067	1.07			0.05
40) bis(2-Ethylhexyl)phthalate	(5)	15.297	(0.000)	149	427203	1.112	1.11	0.17	B	0.05
41) Benzo(a)anthracene	(5)	15.289	(0.000)	228	510591	1.030	1.03			0.01
43) Chrysene	(5)	15.336	(0.000)	228	525956	0.968	0.97			0.01
44) Di-n-octylphthalate	(6)	16.047	(0.000)	149	660472	1.095	1.10			0.05
45) Benzo(b)fluoranthene	(6)	16.571	(0.000)	252	483928	1.130	1.13			0.01
46) Benzo(k)fluoranthene	(6)	16.610	(0.000)	252	427584	0.932	0.93			0.01
48) Benzo(a)pyrene	(6)	17.002	(0.000)	252	393914	0.978	0.98			0.01
51) Indeno(1,2,3-cd)pyrene	(6)	18.656	(0.000)	276	411986	0.960	0.96			0.01
52) Dibenz(a,h)anthracene	(6)	18.670	(0.000)	278	329599	0.963	0.96			0.01
53) Benzo(g,h,i)perylene	(6)	19.087	(0.000)	276	358097	0.951	0.95			0.01

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USP93 9892

Data file: /chem/HP10623.i/11jul14.b/cg0434.d Blank Data file reference:/chem/HP10623.i/11jul14.b/cg0433.d
Injection date and time: 14-JUL-2011 09:01 Instrument ID: HP10623.i Batch: 11192WAG
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time (Last Method Edit): 14-JUL-2011 08:35
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14.b/cg0431.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

Comments:

JUL 14 2011

Analyst: Joe Gambler
Senior Chemist

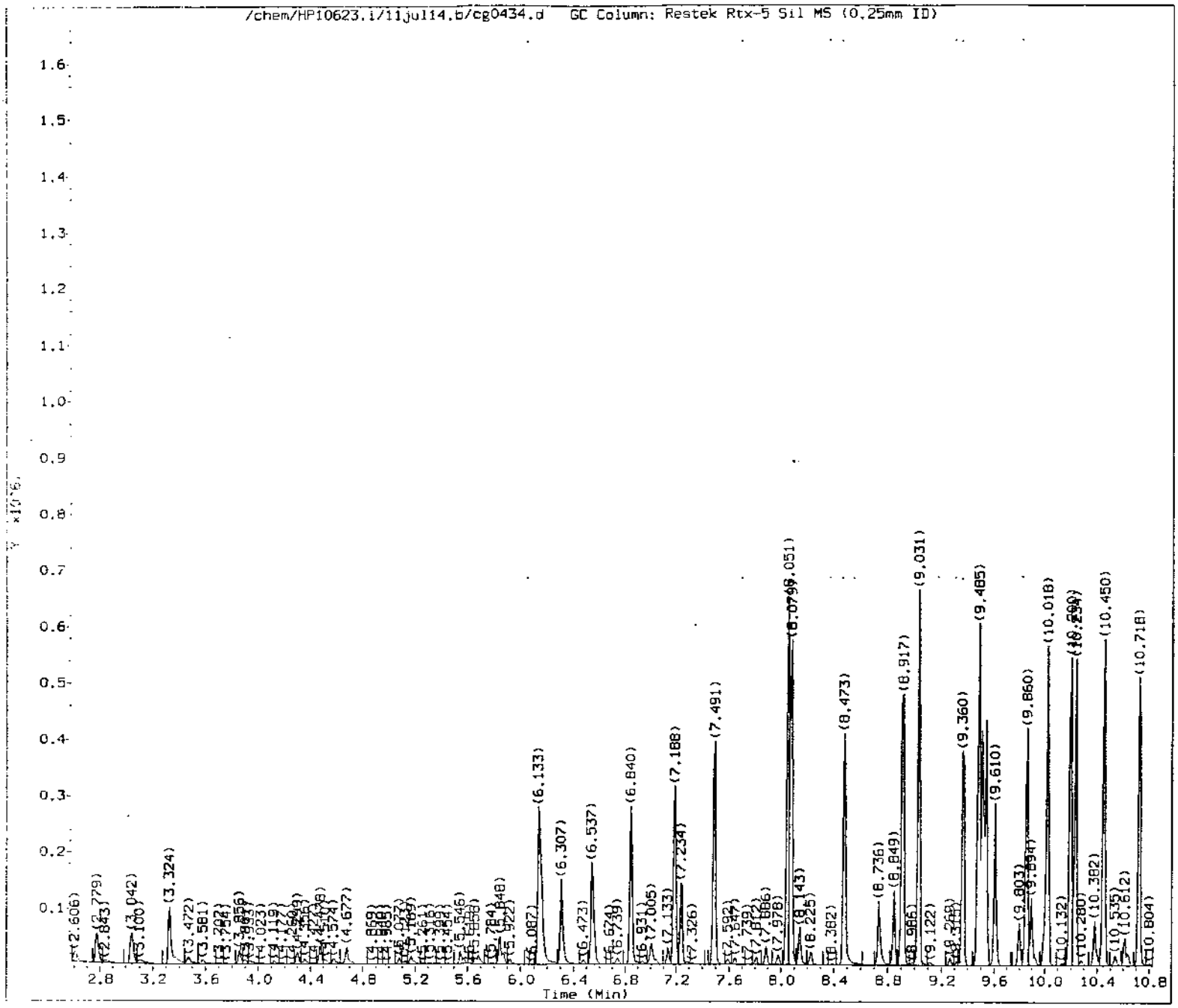
Date:

Auditor:

Date: JUL 16 2011

Matthew E. Barton
Senior Specialist

USF03 8893



Quant Report

Target Revision 3.5

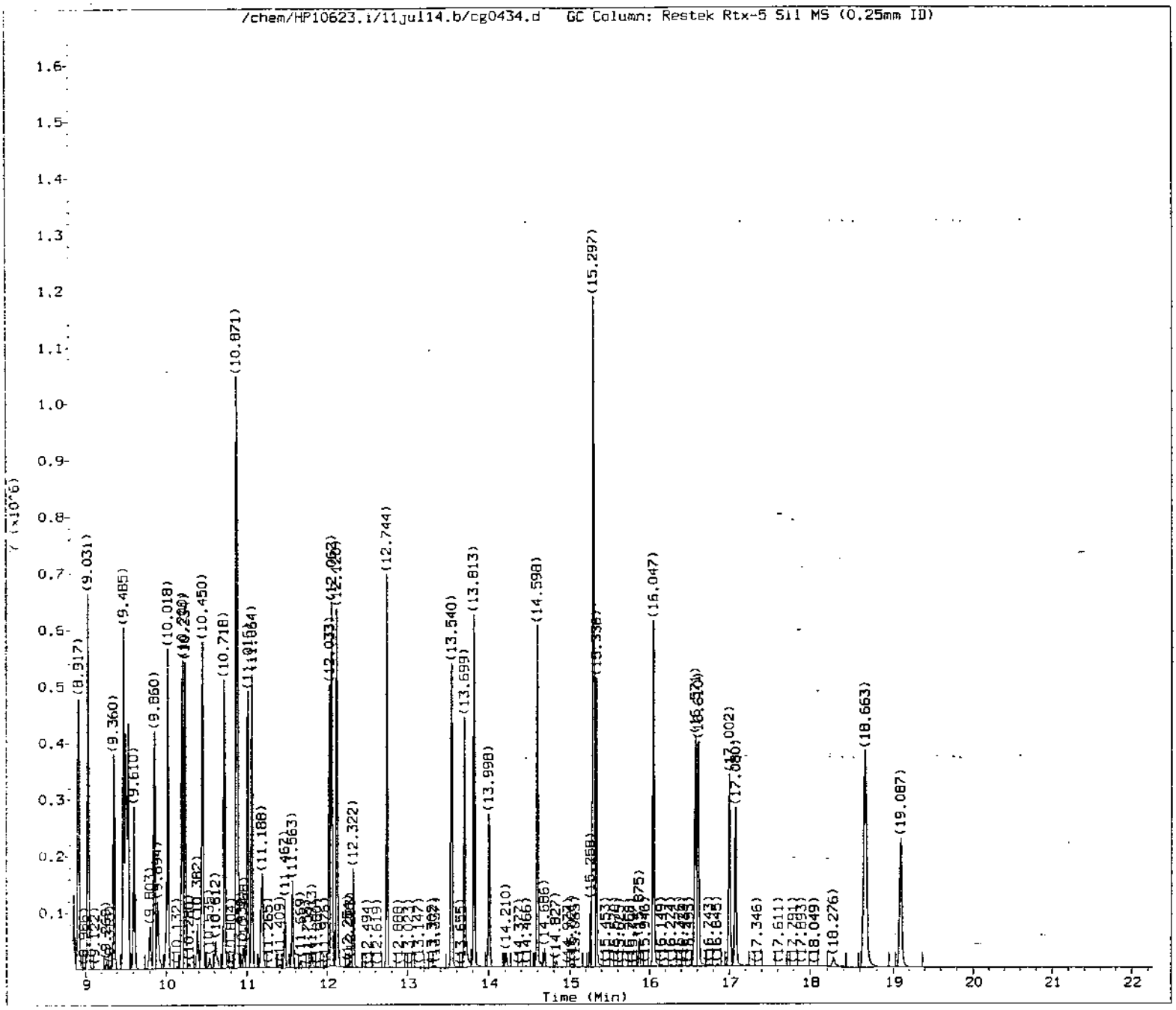
Data File: /chem/HP10623.i/11jul14.b/cg0434.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 09:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Sample Name: 192WGLCS3 Lab Sample ID: 192WGLCS

JUL 14 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0434.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 09:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Sample Name: 192WGLCS3 Lab Sample ID: 192WGLCS

JUL 14 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0434.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 09:01 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Sample Name: 192WGLCS3 Lab Sample ID: 192WGLCS

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.546	152	152535	1.0000
12) Naphthalene-d8	(2)	8.051	136	617513	1.0000
13) Naphthalene	(2)	8.079	128	594969	0.8968
14) 2-Methylnaphthalene	(2)	8.917	142	369567	0.8837
16) 1-Methylnaphthalene	(2)	9.031	142	377286	0.9399
18) Acenaphthylene	(3)	10.018	152	540941	1.0181
19) Acenaphthene-d10	(3)	10.200	164	326730	1.0000
20) Dimethylphthalate	(3)	9.860	163	412344	1.0400
21) Acenaphthene	(3)	10.234	154	364696	0.9786
22) Diethylphthalate	(3)	10.718	149	444387	1.0864
23) Fluorene	(3)	10.871	166	419162	1.0388
30) Phenanthrene-d10	(4)	12.033	188	508221	1.0000
31) Phenanthrene	(4)	12.062	178	571042	0.9562
32) Anthracene	(4)	12.120	178	555547	0.9883
33) Di-n-butylphthalate	(4)	12.744	149	673612	1.0925
35) Fluoranthene	(4)	13.540	202	595966	1.0029
37) Pyrene	(5)	13.813	202	620399	0.9890
39) Butylbenzylphthalate	(5)	14.598	149	278660	1.0668
40) bis(2-Ethylhexyl)phthalate	(5)	15.297	149	427203	1.1119
41) Benzo(a)anthracene	(5)	15.289	228	510591	1.0301
42) Chrysene-d12	(5)	15.305	240	400618	1.0000
43) Chrysene	(5)	15.336	228	525956	0.9676
44) Di-n-octylphthalate	(6)	16.047	149	660472	1.0952
45) Benzo(b)fluoranthene	(6)	16.571	252	483928	1.1305
46) Benzo(k)fluoranthene	(6)	16.610	252	427584	0.9324
48) Benzo(a)pyrene	(6)	17.002	252	393914	0.9781
49) Perylene-d12	(6)	17.080	264	328667	1.0000
51) Indeno(1,2,3-cd)pyrene	(6)	18.656	276	411986	0.9604
52) Dibenz(a,h)anthracene	(6)	18.670	278	329599	0.9628
53) Benzo(g,h,i)perylene	(6)	19.087	276	358097	0.9509
10) Nitrobenzene-d5	(2)	7.188	82	239403	1.0881
17) 2-Fluorobiphenyl	(3)	9.371	172	382644	0.9587
38) Terphenyl-d14	(5)	14.007	244	273896	0.9833

M = Compound was manually integrated. A = User selected an alternate hit

USP83 8096

192WGLCSD3 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 192WGLCSD

Data file: /chem/HP10623.i/11jul14.b/cg0435.d Blank Data file reference:/chem/HP10623.i/11jul14.b/cg0433.d
Injection date and time: 14-JUL-2011 09:32 Instrument ID: HP10623.i Batch: 11192WAG
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time (Last Method Edit): 14-JUL-2011 08:35
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14.b/cg0431.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.546(0.000)	546	152.0	157355(0)	1.00	
12) Naphthalene-d8	8.051(0.000)	710	136.0	633380(1)	1.00	
19) Acenaphthene-d10	10.200(0.000)	911	164.0	337803(2)	1.00	
30) Phenanthrene-d10	12.033(0.000)	1097	188.0	520211(0)	1.00	
42) Chrysene-d12	15.304(0.000)	1460	240.0	413262(-4)	1.00	
49) Perylene-d12	17.080(0.000)	1687	264.0	339522(-6)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.188(0.000)	82	242833	1.076	108%		64 - 147
17) 2-Fluorobiphenyl	(3)	9.360(0.001)	172	389280	0.943	94%		68 - 132
38) Terphenyl-d14	(5)	13.998(0.001)	244	288230	1.003	100%		53 - 129

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)	8.079(0.000)	128	606171	0.891	0.89			0.03
14) 2-Methylnaphthalene	(2)	8.917(0.000)	142	379575	0.885	0.88			0.01
16) 1-Methylnaphthalene	(2)	9.031(0.000)	142	386295	0.938	0.94			0.01
18) Acenaphthylene	(3)	10.018(0.000)	152	557030	1.014	1.01			0.01
20) Dimethylphthalate	(3)	9.859(0.000)	163	436784	1.066	1.07			0.05
21) Acenaphthene	(3)	10.234(0.000)	154	375247	0.974	0.97			0.01
22) Diethylphthalate	(3)	10.718(0.000)	149	470913	1.114	1.11	0.06	B	0.05
23) Fluorene	(3)	10.871(0.000)	166	431549	1.034	1.03			0.01
31) Phenanthrene	(4)	12.062(0.000)	178	600584	0.982	0.98			0.03
32) Anthracene	(4)	12.120(0.000)	178	588726	1.023	1.02			0.01
33) Di-n-butylphthalate	(4)	12.744(0.000)	149	714457	1.125	1.13	0.23	B	0.05
35) Fluoranthene	(4)	13.531(0.001)	202	634634	1.043	1.04			0.01
37) Pyrene	(5)	13.813(0.001)	202	659023	1.018	1.02			0.01
39) Butylbenzylphthalate	(5)	14.598(0.000)	149	299106	1.105	1.10			0.05
40) bis(2-Ethylhexyl)phthalate	(5)	15.297(0.000)	149	457368	1.149	1.15	0.17	B	0.05
41) Benzo(a)anthracene	(5)	15.289(0.000)	228	546932	1.070	1.07			0.01
43) Chrysene	(5)	15.336(0.000)	228	556158	0.992	0.99			0.01
44) Di-n-octylphthalate	(6)	16.047(0.000)	149	709980	1.133	1.13			0.05
45) Benzo(b)fluoranthene	(6)	16.571(0.000)	252	515763	1.166	1.17			0.01
46) Benzo(k)fluoranthene	(6)	16.610(0.000)	252	454861	0.960	0.96			0.01
48) Benzo(a)pyrene	(6)	17.001(0.000)	252	421232	1.012	1.01			0.01
51) Indeno(1,2,3-cd)pyrene	(6)	18.656(0.000)	276	444059	1.002	1.00			0.01
52) Dibenz(a,h)anthracene	(6)	18.670(0.000)	278	355021	1.004	1.00			0.01
53) Benzo(g,h,i)perylene	(6)	19.087(0.000)	276	382462	0.983	0.98			0.01

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USP93 8892

Data file: /chem/HP10623.i/11jul14.b/cg0435.d Blank Data file reference:/chem/HP10623.i/11jul14.b/cg0433.d
Injection date and time: 14-JUL-2011 09:32 Instrument ID: HP10623.i Batch: 11192WAG
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time (Last Method Edit): 14-JUL-2011 08:35
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14.b/cg0431.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

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BLANK INTENTIONALLY

Total number of targets = 24

Comments:

JUL 14 2011

Analyst: Joe Gambler
Senior Chemist

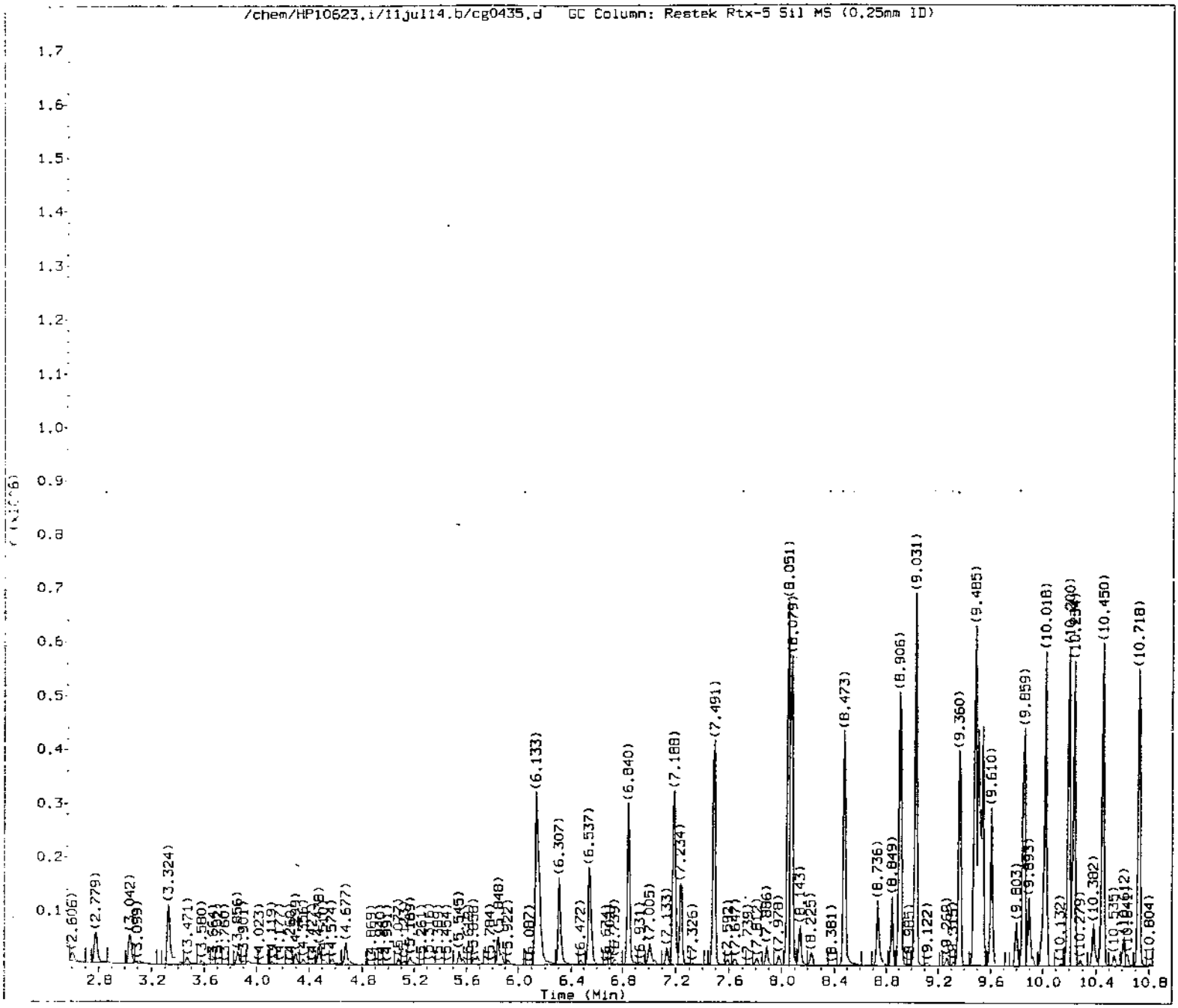
Date:

Auditor:

Date: JUL 16 2011

Matthew E. Barton
Senior Specialist

USP83 8898



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0435.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 09:32 Analyst ID: jmg00346

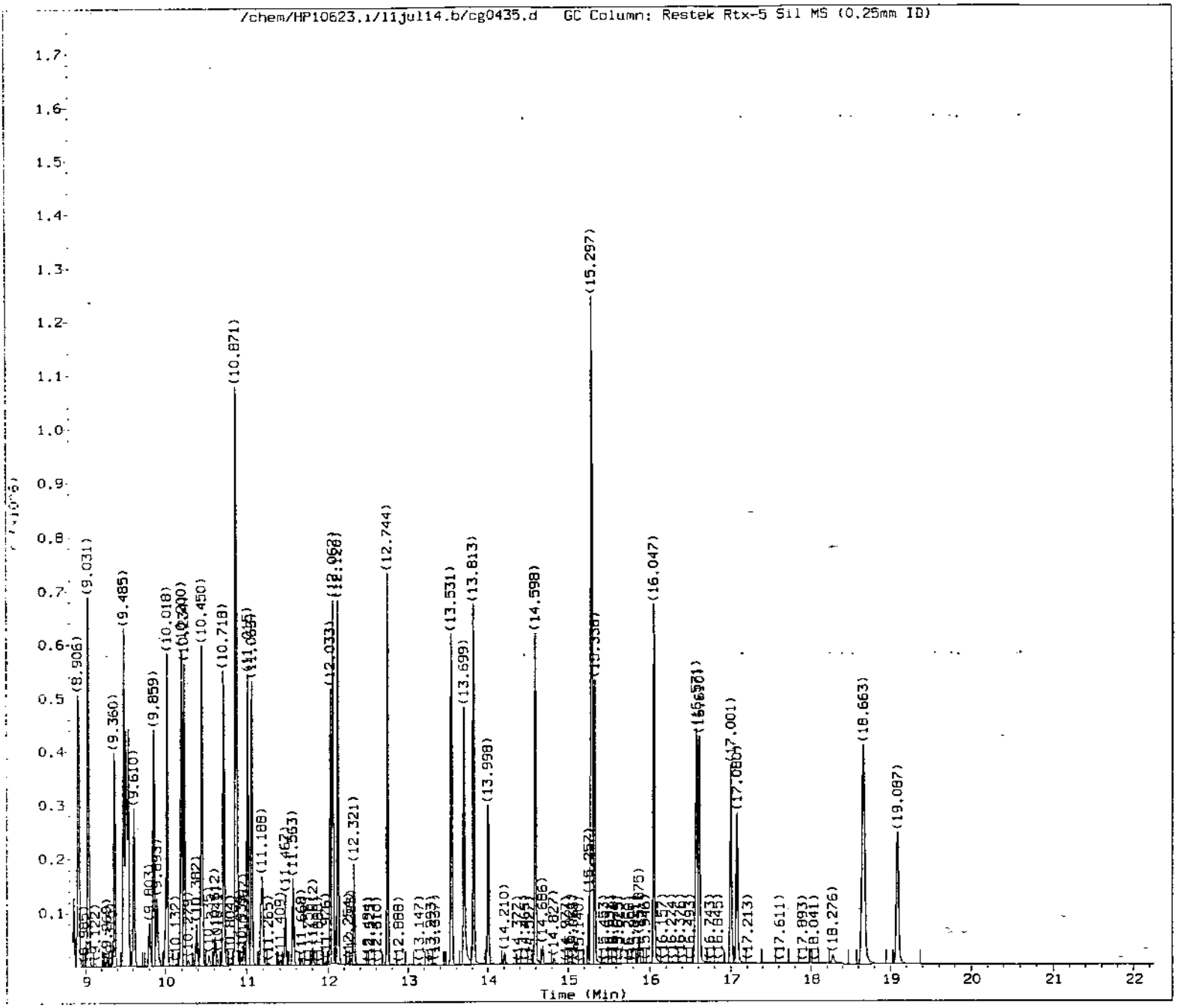
Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Sample Name: 192WGLCSD3 Lab Sample ID: 192WGLCSD

9999

JUL 14 2011

Joe Gambler
Senior Chemist



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0435.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 09:32 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Sample Name: 192WGLCSD3 Lab Sample ID: 192WGLCSD

USPS 9588

JUL 14 2011

Joe Gambler
Senior Chemist

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14.b/cg0435.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 09:32 Analyst ID: jmg00346

Method used: /chem/HP10623.i/11jul14.b/mllpah_2sim.m Sublist used: WList6910
Calibration date and time: 14-JUL-2011 08:35
Date, time and analyst ID of latest file update: 14-Jul-2011 10:18 jmg00346

Sample Name: 192WGLCSD3 Lab Sample ID: 192WGLCSD

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.546	152	157355	1.0000
12) Naphthalene-d8	(2)	8.051	136	633380	1.0000
13) Naphthalene	(2)	8.079	128	606171	0.8908
14) 2-Methylnaphthalene	(2)	8.917	142	379575	0.8849
16) 1-Methylnaphthalene	(2)	9.031	142	386295	0.9382
18) Acenaphthylene	(3)	10.018	152	557030	1.0140
19) Acenaphthene-d10	(3)	10.200	164	337803	1.0000
20) Dimethylphthalate	(3)	9.859	163	436784	1.0656
21) Acenaphthene	(3)	10.234	154	375247	0.9739
22) Diethylphthalate	(3)	10.718	149	470913	1.1135
23) Fluorene	(3)	10.871	166	431549	1.0344
30) Phenanthrene-d10	(4)	12.033	188	520211	1.0000
31) Phenanthrene	(4)	12.062	178	600584	0.9825
32) Anthracene	(4)	12.120	178	588726	1.0232
33) Di-n-butylphthalate	(4)	12.744	149	714457	1.1252
35) Fluoranthene	(4)	13.531	202	634634	1.0433
37) Pyrene	(5)	13.813	202	659023	1.0185
39) Butylbenzylphthalate	(5)	14.598	149	299106	1.1049
40) bis(2-Ethylhexyl)phthalate	(5)	15.297	149	457368	1.1487
41) Benzo(a)anthracene	(5)	15.289	228	546932	1.0697
42) Chrysene-d12	(5)	15.304	240	413262	1.0000
43) Chrysene	(5)	15.336	228	556158	0.9919
44) Di-n-octylphthalate	(6)	16.047	149	709980	1.1326
45) Benzo(b)fluoranthene	(6)	16.571	252	515763	1.1663
46) Benzo(k)fluoranthene	(6)	16.610	252	454861	0.9602
48) Benzo(a)pyrene	(6)	17.001	252	421232	1.0125
49) Perylene-d12	(6)	17.080	264	339522	1.0000
51) Indeno(1,2,3-cd)pyrene	(6)	18.656	276	444059	1.0021
52) Dibenz(a,h)anthracene	(6)	18.670	278	355021	1.0039
53) Benzo(g,h,i)perylene	(6)	19.087	276	382462	0.9831
10) Nitrobenzene-d5	(2)	7.188	82	242833	1.0760
17) 2-Fluorobiphenyl	(3)	9.360	172	389280	0.9433
38) Terphenyl-d14	(5)	13.998	244	288230	1.0031

M = Compound was manually integrated. A = User selected an alternate hit

USF03 8981

194LDLCS3

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

194LDLCS

Data file: /chem/HP10623.i/11jul14a.b/cg0454.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 18:51 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 14-Jul-2011 20:08 gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.518(0.000)	543	152.0	154713(2)	1.00	
12) Naphthalene-d8	8.024(0.000)	707	136.0	625290(3)	1.00	
19) Acenaphthene-d10	10.166(0.000)	908	164.0	332762(3)	1.00	
30) Phenanthrene-d10	12.005(0.000)	1094	188.0	523377(4)	1.00	
42) Chrysene-d12	15.273(0.000)	1456	240.0	410597(2)	1.00	
49) Perylene-d12	17.033(0.000)	1681	264.0	334894(0)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.161(0.000)	82	227232	1.020	102%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.337(0.000)	172	361908	0.890	89%		63 - 129
38) Terphenyl-d14	(5)	13.972(0.000)	244	277673	0.973	97%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)	8.051(0.000)	128	535918	0.798	26.59			0.02
14) 2-Methylnaphthalene	(2)	8.883(0.000)	142	349555	0.825	27.51			0.02
16) 1-Methylnaphthalene	(2)	9.008(0.000)	142	328649	0.809	26.95			0.02
18) Acenaphthylene	(3)	9.996(0.000)	152	494594	0.914	30.47			0.01
20) Dimethylphthalate	(3)	9.825(0.000)	163	407700	1.010	33.66			0.18
21) Acenaphthene	(3)	10.211(0.000)	154	344295	0.907	30.24			0.02
22) Diethylphthalate	(3)	10.699(0.000)	149	431000	1.035	34.49			0.18
23) Fluorene	(3)	10.843(0.000)	166	401680	0.977	32.58			0.02
31) Phenanthrene	(4)	12.033(0.000)	178	571950	0.930	31.00			0.02
32) Anthracene	(4)	12.091(0.000)	178	551868	0.953	31.78			0.01
33) Di-n-butylphthalate	(4)	12.715(0.000)	149	669001	1.060	35.35			0.18
35) Fluoranthene	(4)	13.505(0.000)	202	615225	1.005	33.51			0.02
37) Pyrene	(5)	13.787(0.000)	202	643834	1.001	33.38			0.02
39) Butylbenzylphthalate	(5)	14.571(0.000)	149	282740	1.057	35.25			0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.265(0.001)	149	439972	1.117	37.22			0.18
41) Benzo(a)anthracene	(5)	15.258(0.000)	228	532419	1.048	34.94			0.02
43) Chrysene	(5)	15.297(0.000)	228	543992	0.976	32.55			0.01
44) Di-n-octylphthalate	(6)	16.024(0.000)	149	659740	1.077	35.90			0.18
45) Benzo(b)fluoranthene	(6)	16.540(0.000)	252	487446	1.118	37.25			0.02
46) Benzo(k)fluoranthene	(6)	16.571(0.000)	252	459433	0.983	32.77			0.02
48) Benzo(a)pyrene	(6)	16.962(0.000)	252	409188	0.997	33.24			0.02
51) Indeno(1,2,3-cd)pyrene	(6)	18.600(0.000)	276	452566	1.035	34.51			0.02
52) Dibenz(a,h)anthracene	(6)	18.614(0.000)	278	359676	1.031	34.37			0.02
53) Benzo(g,h,i)perylene	(6)	19.031(0.000)	276	386035	1.006	33.53			0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF83 8982

194LDLCS3 Lancaster Labs 194LDLCS
Quantitation Report GC/MS Semi-Volatiles

Data file: /chem/HP10623.i/11jul14a.b/cg0454.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 18:51 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 14-Jul-2011 20:08 gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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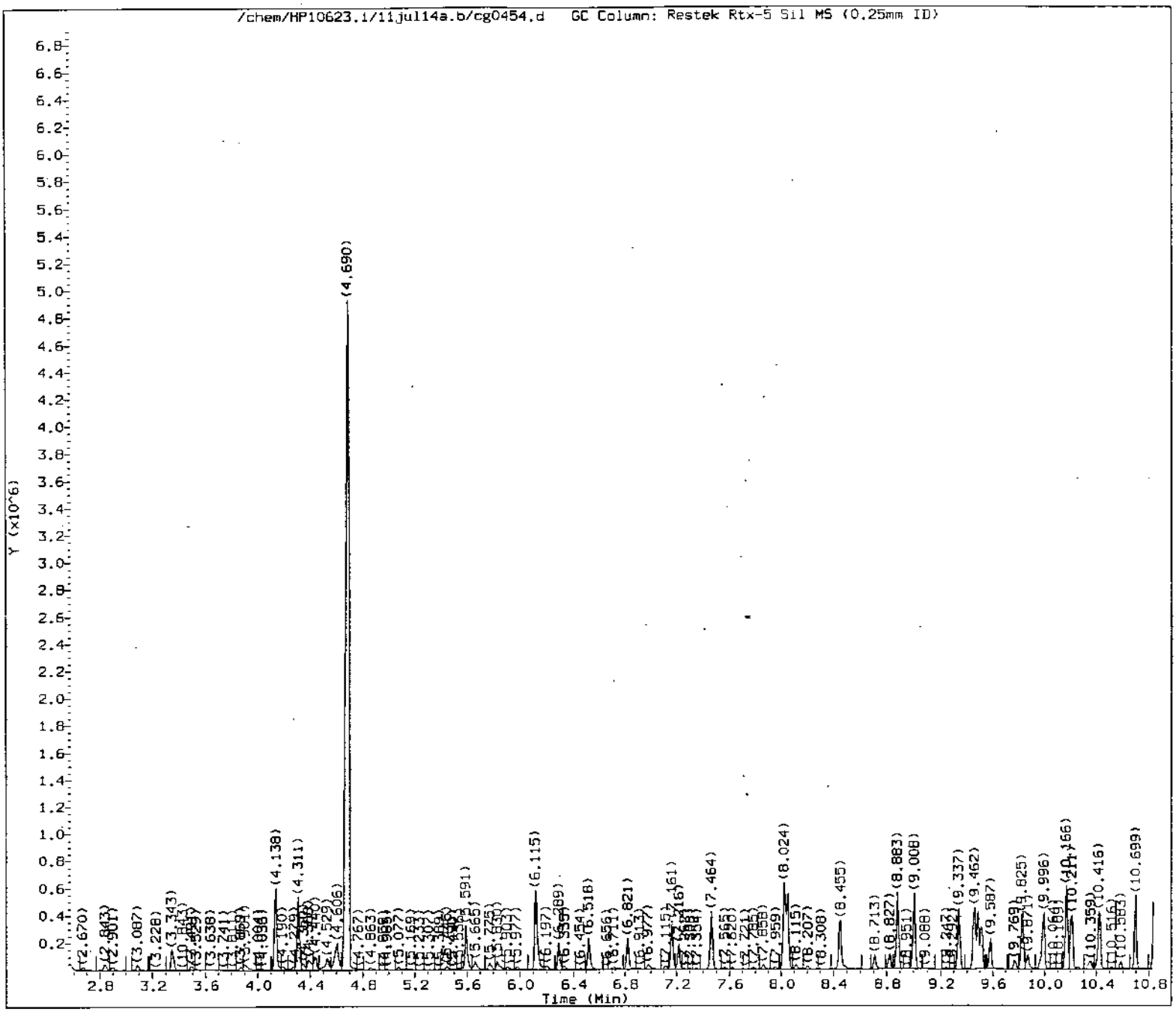
Total number of targets = 24

Comments:

Analyst: Greg Drahovsky Senior Chemist Date: JUL 14 2011
Auditor: Mark A. Ratcliff Senior Specialist Date: JUL 19 2011

USF03 8983



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0454.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 18:51 Analyst ID: gjd01970

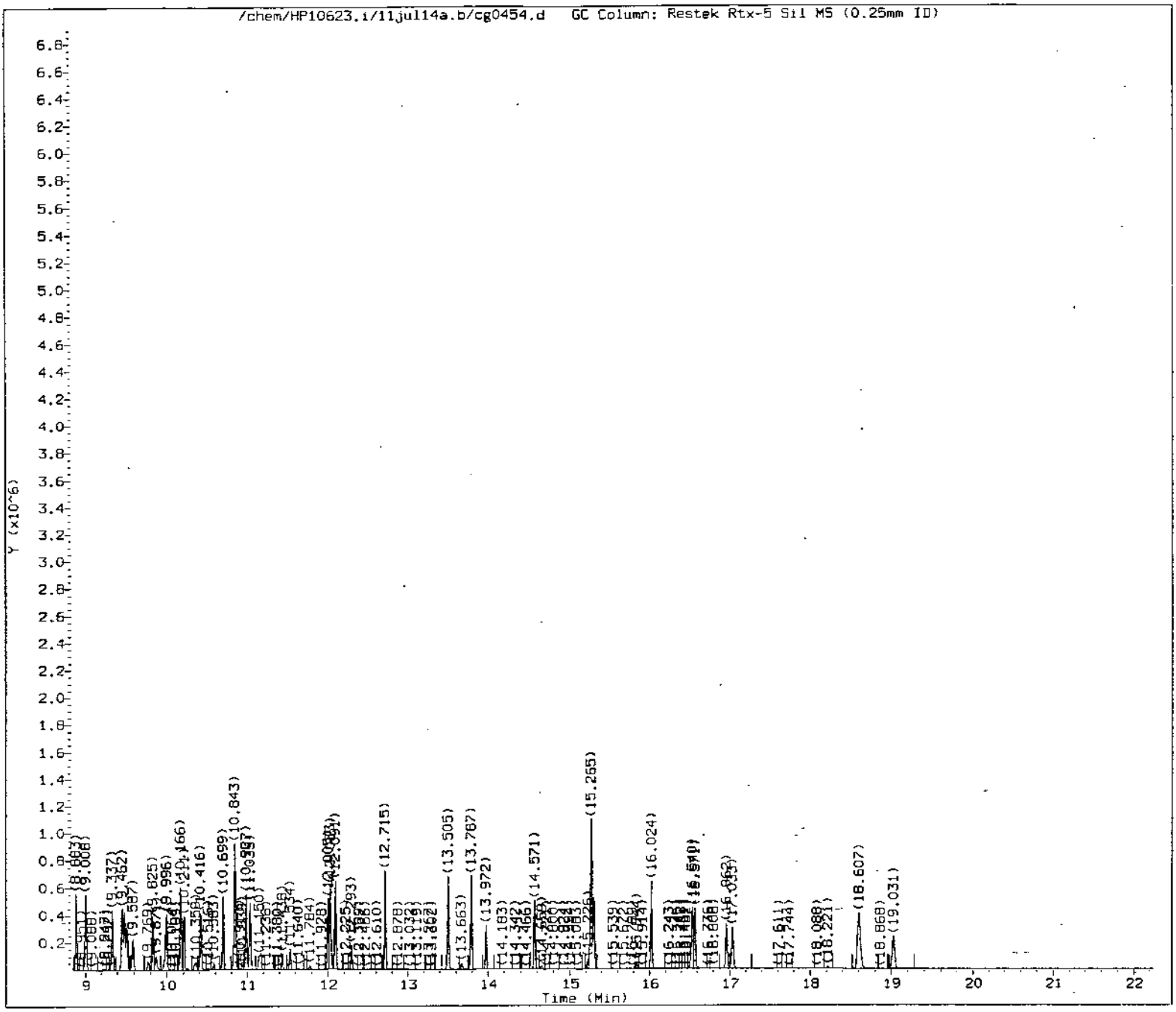
Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 14-Jul-2011 20:08 gjd01970

Sample Name: 194LDLCS3 Lab Sample ID: 194LDLCS

Greg Drabovsky
Senior Chemist

USPS3 6984

JUL 14 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0454.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 18:51 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 14-Jul-2011 20:08 gjd01970

Sample Name: 194LDLCS3 Lab Sample ID: 194LDLCS

Greg Drahovsky
Senior Chemist

JUL 14 2011

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0454.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 18:51 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 14-Jul-2011 20:08 gjd01970

Sample Name: 194LDLCS3 Lab Sample ID: 194LDLCS

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6)	1,4-Dichlorobenzene-d4	(1)	6.518	152	154713	1.0000
12)	Naphthalene-d8	(2)	8.024	136	625290	1.0000
13)	Naphthalene	(2)	8.051	128	535918	0.7978
14)	2-Methylnaphthalene	(2)	8.883	142	349555	0.8254
16)	1-Methylnaphthalene	(2)	9.008	142	328649	0.8085
18)	Acenaphthylene	(3)	9.996	152	494594	0.9140
19)	Acenaphthene-d10	(3)	10.166	164	332762	1.0000
20)	Dimethylphthalate	(3)	9.825	163	407700	1.0097
21)	Acenaphthene	(3)	10.211	154	344295	0.9072
22)	Diethylphthalate	(3)	10.699	149	431000	1.0346
23)	Fluorene	(3)	10.843	166	401680	0.9774
30)	Phenanthrene-d10	(4)	12.005	188	523377	1.0000
31)	Phenanthrene	(4)	12.033	178	571950	0.9300
32)	Anthracene	(4)	12.091	178	551868	0.9534
33)	Di-n-butylphthalate	(4)	12.715	149	669001	1.0605
35)	Fluoranthene	(4)	13.505	202	615225	1.0053
37)	Pyrene	(5)	13.787	202	643834	1.0015
39)	Butylbenzylphthalate	(5)	14.571	149	282740	1.0574
40)	bis(2-Ethylhexyl)phthalate	(5)	15.265	149	439972	1.1166
41)	Benzo(a)anthracene	(5)	15.258	228	532419	1.0481
42)	Chrysene-d12	(5)	15.273	240	410597	1.0000
43)	Chrysene	(5)	15.297	228	543992	0.9765
44)	Di-n-octylphthalate	(6)	16.024	149	659740	1.0770
45)	Benzo(b)fluoranthene	(6)	16.540	252	487446	1.1175
46)	Benzo(k)fluoranthene	(6)	16.571	252	459433	0.9832
48)	Benzo(a)pyrene	(6)	16.962	252	409188	0.9971
49)	Perylene-d12	(6)	17.033	264	334894	1.0000
51)	Indeno(1,2,3-cd)pyrene	(6)	18.600	276	452566	1.0354
52)	Dibenz(a,h)anthracene	(6)	18.614	278	359676	1.0311
53)	Benzo(g,h,i)perylene	(6)	19.031	276	386035	1.0060
10)	Nitrobenzene-d5	(2)	7.161	82	227232	1.0199
17)	2-Fluorobiphenyl	(3)	9.337	172	361908	0.8903
38)	Terphenyl-d14	(5)	13.972	244	277673	0.9726

M = Compound was manually integrated. A = User selected an alternate hit

USF03 8966

194LDLCSD3 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 194LDLCSD

Data file: /chem/HP10623.i/11jul14a.b/cg0455.d . Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 19:23 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 14-Jul-2011 20:09 gjd01970

Method used: /chem/HP10623.i/11jul14a.b/m11pah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
6) 1,4-Dichlorobenzene-d4	6.518	(0.000)	543	152.0	152540	(0)	1.00	
12) Naphthalene-d8	8.024	(0.000)	707	136.0	614634	(1)	1.00	
19) Acenaphthene-d10	10.166	(0.000)	908	164.0	325650	(1)	1.00	
30) Phenanthrene-d10	12.005	(0.000)	1094	188.0	508004	(1)	1.00	
42) Chrysene-d12	15.273	(0.000)	1456	240.0	404981	(1)	1.00	
49) Perylene-d12	17.033	(0.000)	1681	264.0	337386	(1)	1.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
10) Nitrobenzene-d5	(2)	7.161	(0.000)	82	219105	1.000	100%		53 - 152
17) 2-Fluorobiphenyl	(3)	9.337	(0.000)	172	354054	0.890	89%		63 - 129
38) Terphenyl-d14	(5)	13.972	(0.000)	244	282114	1.002	100%		51 - 141

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/ul)
13) Naphthalene	(2)	8.051	(0.000)	128	521854	0.790	26.34			0.02
14) 2-Methylnaphthalene	(2)	8.883	(0.000)	142	342142	0.822	27.40			0.02
16) 1-Methylnaphthalene	(2)	9.008	(0.000)	142	321353	0.804	26.81			0.02
18) Acenaphthylene	(3)	9.996	(0.000)	152	476842	0.900	30.01			0.01
20) Dimethylphthalate	(3)	9.826	(0.000)	163	401010	1.015	33.83			0.18
21) Acenaphthene	(3)	10.211	(0.000)	154	334308	0.900	30.00			0.02
22) Diethylphthalate	(3)	10.699	(0.000)	149	427835	1.049	34.98			0.18
23) Fluorene	(3)	10.843	(0.000)	166	396131	0.985	32.83			0.02
31) Phenanthrene	(4)	12.033	(0.000)	178	566355	0.949	31.62			0.02
32) Anthracene	(4)	12.091	(0.000)	178	552234	0.983	32.76			0.01
33) Di-n-butylphthalate	(4)	12.715	(0.000)	149	660909	1.076	35.86			0.18
35) Fluoranthene	(4)	13.505	(0.000)	202	618272	1.041	34.70			0.02
37) Pyrene	(5)	13.787	(0.000)	202	650966	1.027	34.22			0.02
39) Butylbenzylphthalate	(5)	14.571	(0.000)	149	282221	1.069	35.62			0.18
40) bis(2-Ethylhexyl)phthalate	(5)	15.265	(0.001)	149	439131	1.128	37.61			0.18
41) Benzo(a)anthracene	(5)	15.258	(0.000)	228	537130	1.072	35.73			0.02
43) Chrysene	(5)	15.297	(0.000)	228	550250	1.001	33.38			0.01
44) Di-n-octylphthalate	(6)	16.024	(0.000)	149	668499	1.082	36.08			0.18
45) Benzo(b)fluoranthene	(6)	16.540	(0.000)	252	496385	1.130	37.65			0.02
46) Benzo(k)fluoranthene	(6)	16.571	(0.000)	252	460747	0.979	32.62			0.02
48) Benzo(a)pyrene	(6)	16.962	(0.000)	252	418648	1.013	33.76			0.02
51) Indeno(1,2,3-cd)pyrene	(6)	18.600	(0.000)	276	456480	1.037	34.56			0.02
52) Dibenz(a,h)anthracene	(6)	18.614	(0.000)	278	365081	1.039	34.63			0.02
53) Benzo(g,h,i)perylene	(6)	19.024	(0.000)	276	389697	1.008	33.60			0.02

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

USF03 0987

194LDLCSD3 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 194LDLCSD

Data file: /chem/HP10623.i/11jul14a.b/cg0455.d Blank Data file reference:/chem/HP10623.i/11jul14a.b/cg0453.d
Injection date and time: 14-JUL-2011 19:23 Instrument ID: HP10623.i Batch: 11194SLD
Date, time and analyst ID of latest file update: 14-Jul-2011 20:09 gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time (Last Method Edit): 14-JUL-2011 19:00
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/11jul14a.b/cg0451.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf * Vt/(Vi * Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 24

Comments: _____

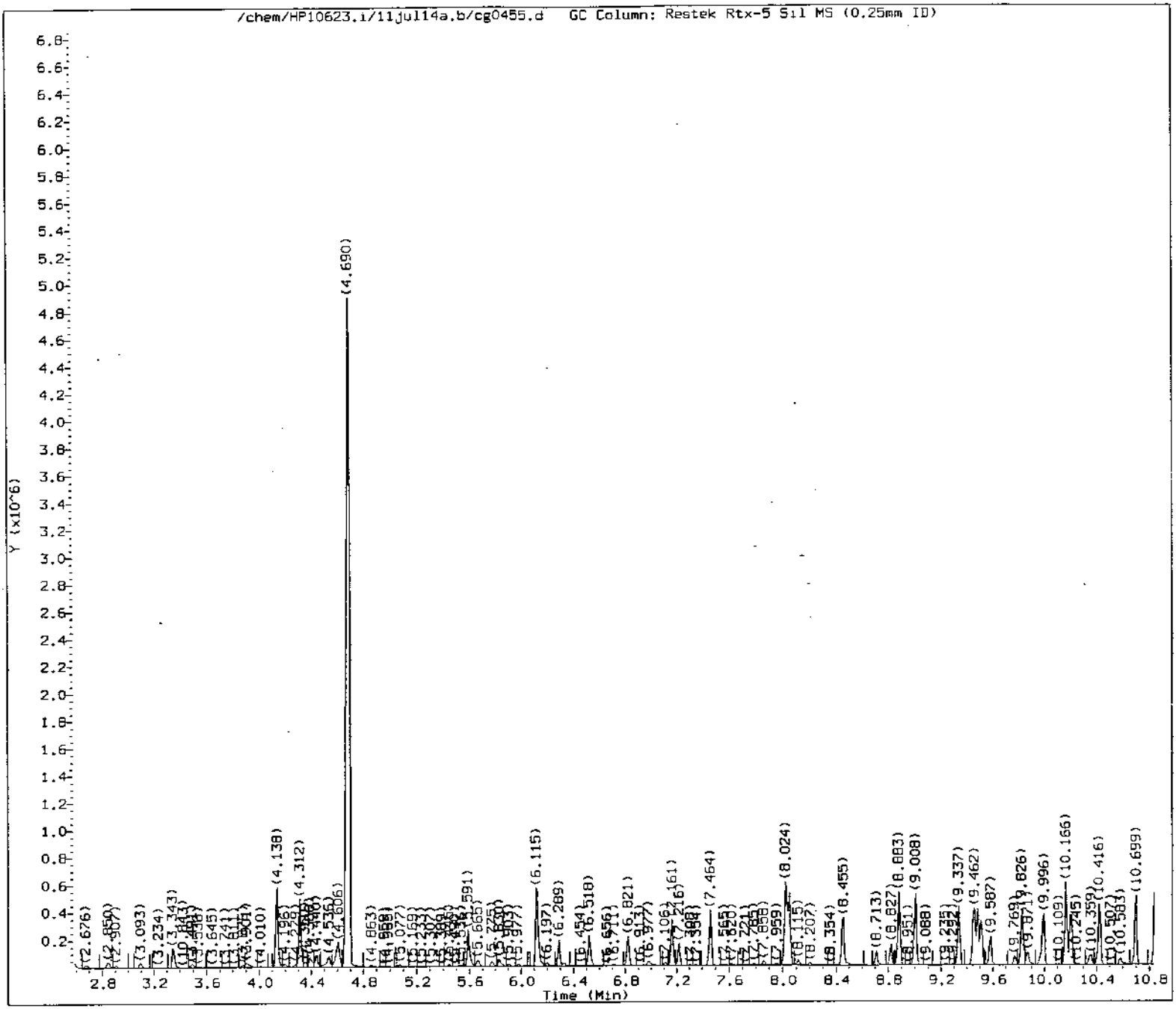
Analyst: _____ Date: _____
Greg Drahovsky
Senior Chemist

Auditor: _____ Date: JUL 14 2011

Mark A. Ratcliff
Senior Specialist

JUL 19 2011

USP03 6980



Quant Report

Target Revision 3.5

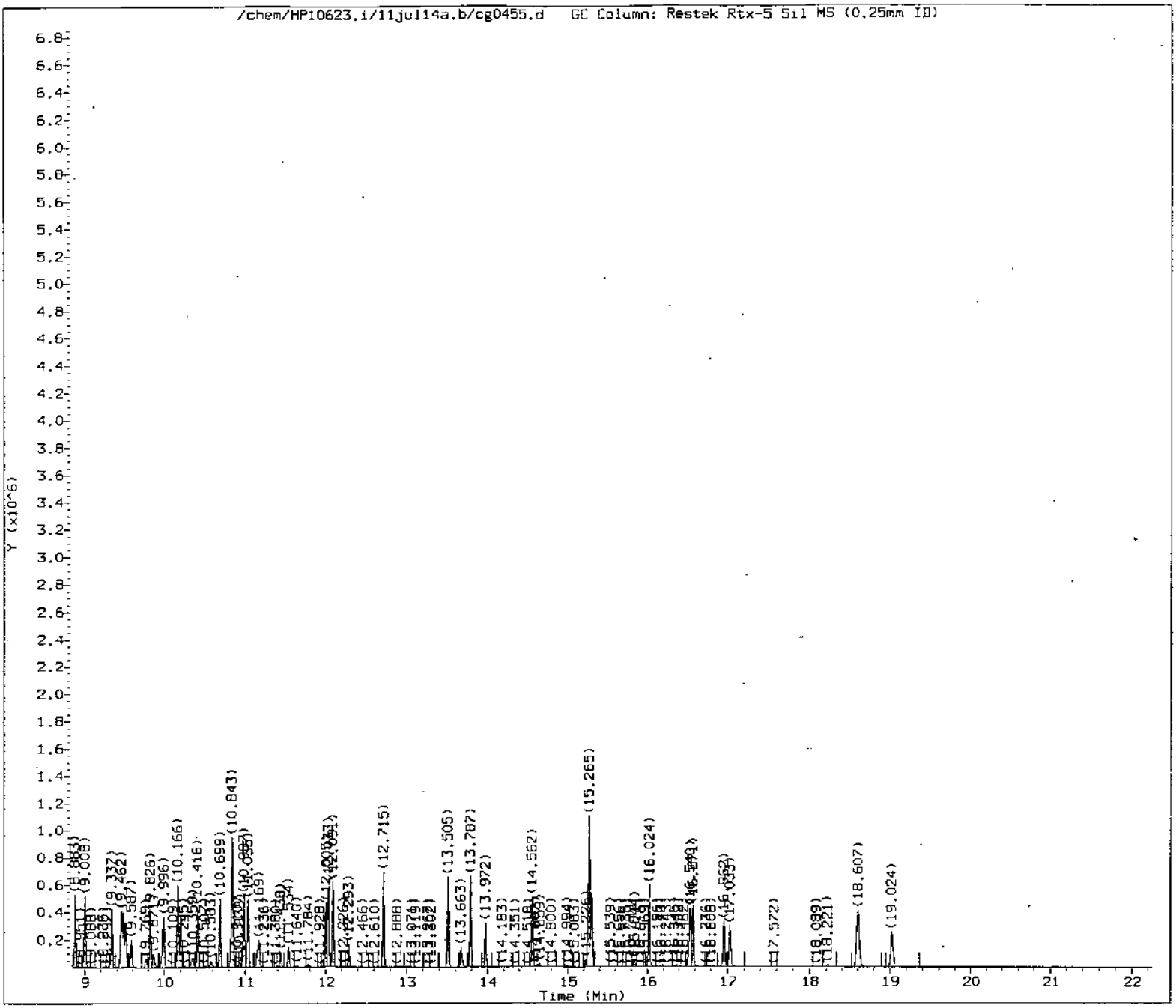
Data File: /chem/HP10623.i/11jul14a.b/cg0455.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 19:23 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 14-Jul-2011 20:09 gjd01970

Sample Name: 194LDLCSD3 Lab Sample ID: 194LDLCSD

Greg Dmitrovsky
Senior Chemist

JUL 14 2011



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0455.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 19:23 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 14-Jul-2011 20:09 gjd01970

Sample Name: 194LDLCSD3 Lab Sample ID: 194LDLCSD

Greg Drahovsky
Senior Chemist

JUL 14 2011

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/11jul14a.b/cg0455.d Instrument ID: HP10623.i
Injection date and time: 14-JUL-2011 19:23 Analyst ID: gjd01970

Method used: /chem/HP10623.i/11jul14a.b/mllpah_2sim.m Sublist used: Slist6454
Calibration date and time: 14-JUL-2011 19:00
Date, time and analyst ID of latest file update: 14-Jul-2011 20:09 gjd01970

Sample Name: 194LDLCSD3 Lab Sample ID: 194LDLCSD

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
6) 1,4-Dichlorobenzene-d4	(1)	6.518	152	152540	1.0000
12) Naphthalene-d8	(2)	8.024	136	614634	1.0000
13) Naphthalene	(2)	8.051	128	521854	0.7903
14) 2-Methylnaphthalene	(2)	8.883	142	342142	0.8219
16) 1-Methylnaphthalene	(2)	9.008	142	321353	0.8043
18) Acenaphthylene	(3)	9.996	152	476842	0.9004
19) Acenaphthene-d10	(3)	10.166	164	325650	1.0000
20) Dimethylphthalate	(3)	9.826	163	401010	1.0148
21) Acenaphthene	(3)	10.211	154	334308	0.9001
22) Diethylphthalate	(3)	10.699	149	427835	1.0494
23) Fluorene	(3)	10.843	166	396131	0.9850
30) Phenanthrene-d10	(4)	12.005	188	508004	1.0000
31) Phenanthrene	(4)	12.033	178	566355	0.9487
32) Anthracene	(4)	12.091	178	552234	0.9829
33) Di-n-butylphthalate	(4)	12.715	149	660909	1.0759
35) Fluoranthene	(4)	13.505	202	618272	1.0409
37) Pyrene	(5)	13.787	202	650966	1.0266
39) Butylbenzylphthalate	(5)	14.571	149	282221	1.0686
40) bis(2-Ethylhexyl)phthalate	(5)	15.265	149	439131	1.1283
41) Benzo(a)anthracene	(5)	15.258	228	537130	1.0720
42) Chrysene-d12	(5)	15.273	240	404981	1.0000
43) Chrysene	(5)	15.297	228	550250	1.0014
44) Di-n-octylphthalate	(6)	16.024	149	668499	1.0823
45) Benzo(b)fluoranthene	(6)	16.540	252	496385	1.1296
46) Benzo(k)fluoranthene	(6)	16.571	252	460747	0.9787
48) Benzo(a)pyrene	(6)	16.962	252	418648	1.0127
49) Perylene-d12	(6)	17.033	264	337386	1.0000
51) Indeno(1,2,3-cd)pyrene	(6)	18.600	276	456480	1.0367
52) Dibenz(a,h)anthracene	(6)	18.614	278	365081	1.0388
53) Benzo(g,h,i)perylene	(6)	19.024	276	389697	1.0081
10) Nitrobenzene-d5	(2)	7.161	82	219105	1.0005
17) 2-Fluorobiphenyl	(3)	9.337	172	354054	0.8900
38) Terphenyl-d14	(5)	13.972	244	282114	1.0018

M = Compound was manually integrated. A = User selected an alternate hit

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog Assigned to: 2257 Cynthia Salvatori Reviewed by: JMG 7-14-11 Start Date: 7/12/11 Start time: 8:52

11192WAG026 Tech 1: CS2257 Tech 2: CRW 2761

Dept: 26 Prep Analysis: 10466 BNA Water Extraction SIM Selected SVOAs in water by SIM

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH 2	pH 11	BC	Comments
BLANKA	SBLKWG192	1000	SS1116026A	1.0			1.0	✓	✓	—	TAT Hour
LCSA	LCSWG192	1000	SS1116026A	1.0	MS1117226B	1.0	1.0	✓	✓	—	
LCSDA	LCSDWG192	1000	SS1116026A	1.0	MS1117226B	1.0	1.0	✓	✓	—	

Solvent Used	Lot No.
10N NaOH	1101427
Methylene Chloride	112968
Sodium Sulfate	111911A
Sulfuric Acid	108088

Spike Solutions: Witness: CRW 2761
MS1117226B SIM LCS SPIKE
SS1116026A SIM BNA SURROGATE

Sample #	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH 2	pH 11	BC	Comments	Analyses	Due Date	Prio
1 6337222	WREBW	1048	SS1116026A	1.0	1.0	✓	✓	43D	CRAV	10137	07/18/2011	S
2 6338269	EBQ02	1046	SS1116026A	1.0	1.0	✓	✓	43A		10137	07/19/2011	S
3 6339388	EBQ03	1014	SS1116026A	1.0	1.0	✓	✓	43A		10137	07/20/2011	S

CS2257
7/12/11

CS2257

Rack ID:		Work Station	H802
Internal Standard	LBS80019	Balance #	15661

DF = Dilution Factor FV = Final Volume

S-bath ID	87 C	S-bath ID	C	N-Evap	C	M-vap	C	11192WAG026

Documented temps are NIST corrected.

Organic Extraction Batchlog

11194SLD026

Assigned to: 2804 Katheryne Sponheimer

Reviewed by: GD MR 7/14/11 Start Date: 7/14/11 Start time: 8:00

Tech 1: KS2804 Tech 2:

Dept: 26 Prep Analysis: 10479 BNA Soil Extraction SIM — Selected SVOAs in soil by SIM

QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6339378MS	82S05	30.5	SS1116026A	1	MS1119326A	1	1	Z	Z	21A	Brown Soil
6339379MSD	82S05	30.3	SS1116026A	1	MS1119326A	1	1	Z	Z	21A	↓
BLANKA	SBLKSD194	30	SS1116026A	1			1	Z	Z		Na2 SO4
LCSA	LCSSD194	30	SS1116026A	1	MS1119326A	1	1	Z	Z		
LCSDA	LCSDSD194	30	SS1116026A	1	MS1119326A	1	1	Z	Z		
MDLV		30	SS1116026A	1	MS1119326C	1	1	Z	Z		↓

Solvent Used	Lot No.
1:1 Methylene Chloride/Acetone	185062511A
Filter paper	51670
Methylene Chloride	112968
Sodium Sulfate	11195A

Spike Solutions: Witness: SGM

MS1119326A SIM LCS SPIKE
MS1119326C SIM PAH MDL SPIKE
SS1116026A SIM BNA SURROGATE

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
2 6337203	WR01S	30.3	SS1116026A	1	1	Z	Z	21A	Brown soil	10138	07/20/2011	S
3 6337205	WR03S	30.1	SS1116026A	1	1	Z	Z	21A		10138	07/20/2011	S
4 6337207	WR05S	30.1	SS1116026A	1	1	Z	Z	21A		10138	07/20/2011	S
5 6337209	WR07S	30.4	SS1116026A	1	1	Z	Z	21A		10138	07/20/2011	S
6 6337212	WR11S	30.1	SS1116026A	1	1	Z	Z	21A		10138	07/20/2011	S
7 6338249	WR09S	30.1	SS1116026A	1	1	Z	Z	21A		10138	07/21/2011	S
8 6338250	WR13S	34.4	SS1116026A	1	1	Z	Z	21A		10138	07/21/2011	S
9 6338252	WR29S	30.5	SS1116026A	1	1	Z	Z	21A		10138	07/21/2011	S
10 6338261	WR88S	30.4	SS1116026A	1	1	Z	Z	21A		10138	07/21/2011	S
11 6338263	WR90S	30.2	SS1116026A	1	1	Z	Z	21A		10138	07/21/2011	S
12 6338264	WR90D	30.0	SS1116026A	1	1	Z	Z	21A		10138	07/21/2011	S
13 6339368	15S05	30.1	SS1116026A	1	1	Z	Z	21A		10138	07/22/2011	S
14 6339370	17S05	30.3	SS1116026A	1	1	Z	Z	21A		10138	07/22/2011	S
15 6339372	19S05	30.1	SS1116026A	1	1	Z	Z	21A		10138	07/22/2011	S
16 6339374	21S05	30.5	SS1116026A	1	1	Z	Z	21A		10138	07/22/2011	S
17 6339375	74S05	30.0	SS1116026A	1	1	Z	Z	21A		10138	07/22/2011	S
18 6339377BKG	82S05	30.4	SS1116026A	1	1	Z	Z	21A	↓	10138	07/22/2011	S
19 6339384	82S05MS	30.2 30	SS1116026A	1	1	Z	Z	–	RLLCS + 1.0mL MS1119326A	10138	07/22/2011	S

Rack ID:		Work Station	Sonic Prep 3
Internal Standard	LL80019	Balance #	10879

S-bath ID	98 C	S-bath ID	C	N-Evap	C	M-vap	C	11194SLD026

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
20 6339386	87S05	30.3	SS1116026A	1	1	Z	Z	21A	Brown Soil	10138	07/22/2011	S

182821

7/14/11

Rack ID:		Work Station	San Hood 3
Internal Standard		Balance #	10879

S-bath ID 6	98 C	S-bath ID	C	N-Evap	C	M-vap	C	11194SLD026

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Formaldehyde Data

USF03 0916

Case Narrative
Conformance/Nonconformance Summary

USF03 0917

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Pesticide Residue Analysis

Fraction: Formaldehyde

Formaldehyde 8315A
Formaldehyde 8315A

Sample #	Client ID	Matrix Liquid	Matrix Solid	Comments
6339368	WRBS0015S005		X	
6339369	WRBS0016S005		X	
6339370	WRBS0017S005		X	
6339371	WRBS0018S005		X	
6339372	WRBS0019S005		X	
6339373	WRBS0020S005		X	
6339374	WRBS0021S005		X	
6339375	WRBS0074S005		X	
6339376	WRBS0074S045		X	
6339377	WRBS0082S005		X	Unspiked
6339378	WRBS0082S005 Matrix Spike		X	Matrix Spike
6339379	WRBS0082S005 Matrix Spike Dup		X	Matrix Spike Duplicate
6339384	RLQQS00003 RL LCS		X	RLQ
6339385	WRBS0082S040		X	
6339386	WRBS0087S005		X	
6339387	WRBS0087S040		X	
6339388	EBQW00003	X		Equipment Blank

See QC Reference List for Associated Batch QC Samples

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples.

ANALYSIS:

There were no dilutions performed for analyses associated with samples in this SDG.

No problems were encountered with the analysis of the samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

All QC is within specification.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

USF03 8918

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Pesticide Residue Analysis

Fraction: Formaldehyde

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 8/1/2011 (Date) by M. Susan Kreider
M. SUSAN KREIDER
SENIOR SPECIALIST

Quality Control and Calibration Summary Forms

Lancaster Laboratories

Quality Control Reference List
Pesticide Residue Analysis

CLIENT: URS Corporation
SDG: USF03

Fraction: Formaldehyde

Analysis	Batch Number	Sample Number	Analysis Date
Formaldehyde 8315A	111920003A	PBLK03192	07/12/2011 11:32:00
		LCS03192	07/12/2011 11:41:00
		LCSD03192	07/12/2011 11:51:00
		6339388	07/12/2011 12:00:00
Formaldehyde 8315A	111950004A	PBLK04195	07/15/2011 23:18:00
		LCS04195	07/15/2011 23:27:00
		LCSD04195	07/15/2011 23:37:00
		6339368	07/15/2011 23:47:00
		6339369	07/15/2011 23:56:00
		6339370	07/16/2011 00:06:00
		6339371	07/16/2011 00:15:00
		6339372	07/16/2011 00:25:00
		6339373	07/16/2011 00:34:00
		6339374	07/16/2011 00:44:00
		6339375	07/16/2011 01:03:00
		6339376	07/16/2011 01:12:00
		6339377 UNSPK	07/16/2011 01:22:00
		6339378 MS	07/16/2011 01:31:00
		6339379 MSD	07/16/2011 01:41:00
		6339384 RLQ	07/16/2011 01:50:00
		6339385	07/16/2011 02:00:00
		6339386	07/16/2011 02:10:00
		6339387	07/16/2011 02:19:00

Lancaster Laboratories

Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: USF03
Matrix: LIQUID

Fraction: Formaldehyde

111920003 / PBLK03192 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Formaldehyde 8315A	07/12/11	N.D.	ug/l	10	50

USF03 8922

Lancaster Laboratories

Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: USF03
Matrix: SOLID

Fraction: Formaldehyde

111950004 / PBLK04195 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Formaldehyde 8315A	07/15/11	N.D.	ug/kg	600	1500

USF03 0023

Lancaster Laboratories

Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: USF03
Matrix: LIQUID

Fraction: Formaldehyde

111920003A	Butyraldehyde	
	Spike Added	398 ug/l
Sample	% Recovery	Limits
6339388	98	45 - 145
LCS03192	86	45 - 145
LCSD03192	86	45 - 145
PBLK03192	94	45 - 145

USF03 0924

Lancaster Laboratories

Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: USF03
Matrix: SOLID

Fraction: Formaldehyde

111950004A	Butyraldehyde	
	Spike Added	3980 ug/kg
Sample	% Recovery	Limits
6339368	92	64 - 126
6339369	87	64 - 126
6339370	93	64 - 126
6339371	94	64 - 126
6339372	92	64 - 126
6339373	91	64 - 126
6339374	93	64 - 126
6339375	92	64 - 126
6339376	93	64 - 126
6339377	95	64 - 126
6339378 MS	72	64 - 126
6339379 MSD	86	64 - 126
6339384	91	64 - 126
6339385	96	64 - 126
6339386	90	64 - 126
6339387	103	64 - 126
LCS04195	87	64 - 126
LCSD04195	90	64 - 126
PBLK04195	92	64 - 126

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: LIQUID

Pesticide Residue Analysis
Fraction: Formaldehyde

LCS: LCS03192 LCSD: LCSD03192 **Analyte**	Batch: **111920003A** (Sample number(s): 6339388) **Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Formaldehyde 8315A	500	450	440	90	88	69-130	2	30

USF03 8926

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: SOLID

Pesticide Residue Analysis
Fraction: Formaldehyde

LCS: LCS04195 LCSD: LCSD04195	Batch: **111950004A** (Sample number(s): 6339368-6339379, 6339384-6339387)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Formaldehyde 8315A	5010	4682.1	4919.45	93	98	80-126	5	50

USF03 0027

Lancaster Laboratories

Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: USF03
Matrix: SOLID

Pesticide Residue Analysis
Fraction: Formaldehyde

UNSPK: 6339377 MS: 6339378 MSD: 6339379 Analyte	Batch: **111950004A** (Sample number(s): 6339368-6339379, 6339384-6339387)								
	Spike Added ug/kg	**Unspiked Conc ug/kg**	**MS Conc ug/kg**	**MSD Conc ug/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Formaldehyde 8315A	5010	N.D.	4663.99	4874.16	93	97	80-120	4	50

USF03 6928

Results are being reported on an as received basis.

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: F6259A Calibration File: 1F4193

GC Column (1) : SUP-PAH ID: 250 (mm) Update File:

Date(s) Analyzed: 7/12/2011 7/12/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Formaldehyde	2.64	2.64	2.64	2.64	2.63	2.64	2.44	2.83
Acetaldehyde	3.22	3.22	3.22	3.22	3.21	3.22	2.89	3.54
Butyraldehyde	6.07	6.07	6.09	6.07	6.06	6.09	5.76	6.41

USF83 8929

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: F6259A Calibration File: 1F4193

GC Column (1): SUP-PAH ID: 250 (mm) Date(s) Analyzed: 7/12/2011 7/12/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Formaldehyde	7.44E+01	7.18E+01	6.55E+01	7.94E+01	6.20E+01	6.90E+01	10.7
Acetaldehyde	5.14E+01	2.95E+01	2.78E+01	4.55E+01	3.63E+01	3.82E+01	23.8
Butyraldehyde	1.25E+01	1.11E+01	1.12E+01		1.11E+01	1.15E+01	5.2
					Average % RSD:		13.2

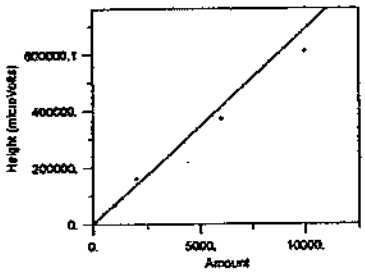
USF83 8936

Calibration File Name: **C:\CPWIN\DATA1\1F4193.CAL** Version = 7
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 0
Amount units =
3 components with 6 levels each

1 Formaldehyde

Retention time = 2.635 min., Search window = 0.196 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	100.100	7449.0	74.41559	Manual	7/12/2011 12:38:
2	500.500	35932.9	71.79411	1F4193.04A	7/12/2011 10:43:
3	1001.000	65523.8	65.45838	1F4193.05A	7/12/2011 10:52:
4	2002.000	158986.0	79.41359	Manual	7/12/2011 12:38:
5	6006.000	372570.5	62.03305	1F4193.07A	7/12/2011 11:11:
6	10010.000	610224.3	60.96147	1F4193.08A	7/12/2011 11:21:



Calibration formula: Y = 69.013 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9691, Average error = 8.98%
Average CF = 69.0127 with RSD = 10.67%

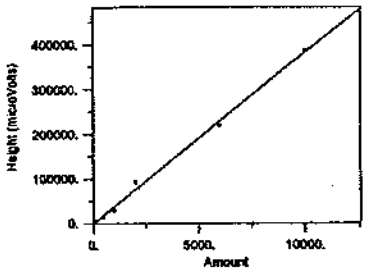
2 Acetaldehyde

Retention time = 3.219 min., Search window = 0.325 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	99.700	5123.0	51.38416	Manual	7/12/2011 12:38:
2	501.500	14796.1	29.50363	1F4193.04A	7/12/2011 10:43:
3	1003.000	27916.5	27.83304	1F4193.05A	7/12/2011 10:52:
4	2006.000	91336.7	45.53176	Manual	7/12/2011 12:38:
5	6018.000	218488.3	36.3058	1F4193.07A	7/12/2011 11:11:

USF83 8931

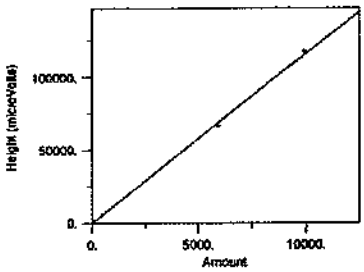
Level	Amount	Height	Height/Amt	Source	Date and time
6	10030.000	386316.5	38.5161	1F4193.08A	7/12/2011 11:21:



Calibration formula: Y = 38.239 X + -1289.234
Fit type = Linear with equal weighting
Coefficient of determination = 0.9958, Average error = 28.62%
Average CF = 38.1791 with RSD = 23.84%

3 Butyraldehyde
Retention time = 6.089 min., Search window = 0.325 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	99.580	1244.0	12.49247	Manual	7/12/2011 12:38:
2	497.900	5545.0	11.13679	1F4193.04A	7/12/2011 10:43:
3	995.800	11148.6	11.1956	1F4193.05A	7/12/2011 10:52:
4	1991.590	-1.0			
5	5974.780	66330.5	11.10174	1F4193.07A	7/12/2011 11:11:
6	9957.960	117482.2	11.79782	1F4193.08A	7/12/2011 11:21:



Calibration formula: Y = 11.545 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9987, Average error = 4.16%
Average CF = 11.5449 with RSD = 5.21%

USF03 0932

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: F6259A Calibration File: 1F4196

GC Column (1) : SUP-PAH ID: 250 (mm) Update File:

Date(s) Analyzed: 7/15/2011 7/15/2011

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	~~MIDPOINT~~ Level 3 RT	RT WINDOW FROM	TO
Formaldehyde	2.64	2.64	2.64	2.64	2.64	2.64	2.44	2.83
Acetaldehyde	3.22	3.22	3.22	3.22	3.22	3.22	2.90	3.55
Butyraldehyde	6.07	6.07	6.07	6.07	6.07	6.07	5.74	6.39

JH566 7/15/11

USF63 8933

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: F6259A Calibration File: 1F4196

GC Column (1) : SUP-PAH ID: 250 (mm) Date(s) Analyzed: 7/15/2011 7/15/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Formaldehyde	6.12E+01	6.40E+01	6.66E+01	6.41E+01	6.49E+01	6.42E+01	3.1
Acetaldehyde	2.74E+01	2.66E+01	3.26E+01	3.79E+01	3.94E+01	3.28E+01	17.8
Butyraldehyde	1.05E+01	1.07E+01	1.16E+01	1.20E+01	1.23E+01	1.14E+01	6.9
						Average % RSD:	9.3

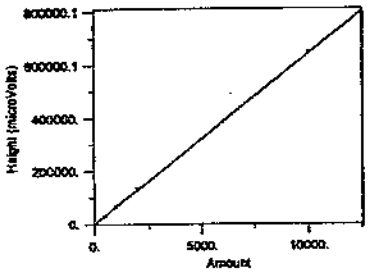
USP93 6934

Calibration File Name: **C:\CPWIN\DATA1\1F4196.CAL** Version = 6
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 0
Amount units =
3 components with 5 levels each

1 Formaldehyde

Retention time = 2.636 min., Search window = 0.196 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	500.500	30607.9	61.15465	1F4196.03A	7/15/2011 3:28:5
2	1001.000	64078.3	64.01427	1F4196.04A	7/15/2011 3:38:2
3	2002.000	133424.3	66.6455	1F4196.05A	7/15/2011 3:47:5
4	6006.000	384987.6	64.1005	1F4196.06A	7/15/2011 3:57:2
5	10010.000	649482.7	64.88338	1F4196.07A	7/15/2011 4:07:0



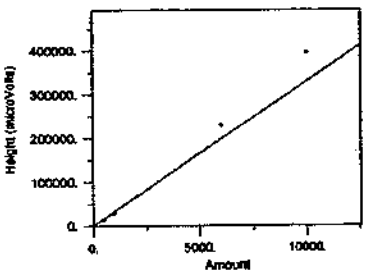
Calibration formula: Y = 64.16 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9997, Average error = 2.00%
Average CF = 64.1597 with RSD = 3.09%

2 Acetaldehyde

Retention time = 3.220 min., Search window = 0.325 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	501.500	13753.4	27.42459	1F4196.03A	7/15/2011 3:28:5
2	1003.000	26673.2	26.59344	1F4196.04A	7/15/2011 3:38:2
3	2006.000	65488.1	32.6461	1F4196.05A	7/15/2011 3:47:5
4	6018.000	227822.0	37.85676	1F4196.06A	7/15/2011 3:57:2
5	10030.000	394863.6	39.36826	1F4196.07A	7/15/2011 4:07:0

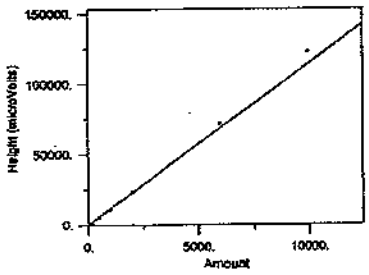
USF83 8935



Calibration formula: Y = 32.778 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9499, Average error = 14.24%
Average CF = 32.7778 with RSD = 17.80%

3 Butyraldehyde
Retention time = 6.069 min., Search window = 0.325 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	497.900	5242.5	10.52931	1F4196.03A	7/15/2011 3:28:5
2	995.800	10624.9	10.66971	1F4196.04A	7/15/2011 3:38:2
3	1991.590	23012.5	11.55485	1F4196.05A	7/15/2011 3:47:5
4	5974.780	71744.0	12.0078	1F4196.06A	7/15/2011 3:57:2
5	9957.960	122557.6	12.3075	1F4196.07A	7/15/2011 4:07:0



Calibration formula: Y = 11.414 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9907, Average error = 5.71%
Average CF = 11.4138 with RSD = 6.94%

USPB3 8936

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: F6259A Init. Calib Date(s): 07/12/11 07/12/11

GC Column (1) : SUP-PAH ID: 250 (mm) Date Analyzed: 07/12/11

Lab File ID: 1F4193.18R Time Analyzed: 12:48

Lab Standard ID: FORM2FY Initial Calibration: 1F4193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Formaldehyde	2.63	2.44	2.83	934.84	1001.00	-6.6
Acetaldehyde	3.22	2.89	3.54	756.90	997.00	-24.1
Butyraldehyde	6.05	5.76	6.41	953.29	995.80	-4.3
					Average of %D:	11.7

USF93 8937

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: F6259A Init. Calib Date(s): 07/15/11 07/15/11

GC Column (1) : SUP-PAH ID: 250 (mm) Date Analyzed: 07/15/11

Lab File ID: 1F4196.52R Time Analyzed: 23:08

Lab Standard ID: FORM3MM Initial Calibration: 1F4196

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Formaldehyde	2.64	2.44	2.83	2036.14	2002.00	1.7
Acetaldehyde	3.22	2.90	3.55	1952.63	1994.00	-2.1
Butyraldehyde	6.07	5.74	6.39	1953.87	1991.59	-1.9
					Average of %D:	1.9

USF83 8936

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: F6259A
Init. Calib Date(s): 07/15/11 07/15/11
GC Column (1) : SUP-PAH ID: 250 (mm)
Date Analyzed: 07/16/11
Lab File ID: 1F4196.63R
Time Analyzed: 0:53
Lab Standard ID: FORM3MM
Initial Calibration: 1F4196

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Formaldehyde	2.64	2.44	2.83	2024.93	2002.00	1.1
Acetaldehyde	3.23	2.90	3.55	1935.33	1994.00	-2.9
Butyraldehyde	6.08	5.74	6.39	1930.62	1991.59	-3.1
					Average of %D:	2.4

USP63 8939

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: F6259A Init. Calib Date(s): 07/15/11 07/15/11

GC Column (1) : SUP-PAH ID: 250 (mm) Date Analyzed: 07/16/11

Lab File ID: 1F4196.73R Time Analyzed: 2:29

Lab Standard ID: FORM3MM Initial Calibration: 1F4196

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Formaldehyde	2.63	2.44	2.83	2024.19	2002.00	1.1
Acetaldehyde	3.22	2.90	3.55	1942.56	1994.00	-2.6
Butyraldehyde	6.08	5.74	6.39	1930.63	1991.59	-3.1
					Average of %D:	2.3

USF03 5949

8D
ANALYTICAL SEQUENCE

Sequence: 1F4193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SUP-PAH ID: 250

Instrument: F6259A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	BTAH
001		CONDITIONER	07/12/2011	10:06:31	1F4193	5.98
002		CONDITIONER	07/12/2011	10:16:04	1F4193	5.96
003		CONDITIONER	07/12/2011	10:25:37	1F4193	6.07
004	FORM1AA	FORM11124AK	07/12/2011	10:35:09	1F4193	6.07
005	FORM2AA	FORM21124AK	07/12/2011	10:44:41	1F4193	6.07
006	FORM3AA	FORM31124AK	07/12/2011	10:54:14	1F4193	6.09
007	FORM4AA	FORM41124AK	07/12/2011	11:03:45	1F4193	6.07
008	FORM5AA	FORM51124AK	07/12/2011	11:13:17	1F4193	6.06
009	MDFRMAA	MDFRMX1124A	07/12/2011	11:22:48	1F4193	6.07
010	PBLK03192	BLANKA	07/12/2011	11:32:20	1F4193	6.06
011	LCS03192	LCSA	07/12/2011	11:41:53	1F4193	6.06
012	LCSD03192	LCSDA	07/12/2011	11:51:26	1F4193	6.06
013	EBQ03	6339388	07/12/2011	12:00:58	1F4193	6.05
014	PBLK04192	BLANKA	07/12/2011	12:10:31	1F4193	6.06
015	LCS04192	LCSA	07/12/2011	12:20:03	1F4193	6.06
016	LCSD04192	LCSDA	07/12/2011	12:29:34	1F4193	6.05
017	E9612	6339516	07/12/2011	12:39:05	1F4193	6.05
018	FORM2FY	FORM21124AK	07/12/2011	12:48:36	1F4193	6.05

	ICAL Dates		ICAL RT QC Limits	
1F4193	07/12/2011 - 07/12/2011	BTAH = Butyraldehyde	6.09	(5.76 - 6.41 Minutes)

USF83 8941

8D
ANALYTICAL SEQUENCE

Sequence: 1F4196 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SUP-PAH ID: 250

Instrument: F6259A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	BTAH
001		CONDITIONER	07/15/2011	15:01:34	1F4196	6.07
002		CONDITIONER	07/15/2011	15:11:07	1F4196	6.07
003	FORM1AA	FORM11124AL	07/15/2011	15:20:40	1F4196	6.07
004	FORM2AA	FORM21124AL	07/15/2011	15:30:12	1F4196	6.07
005	FORM3AA	FORM31124AM	07/15/2011	15:39:44	1F4196	6.07
006	FORM4AA	FORM41124AL	07/15/2011	15:49:16	1F4196	6.07
007	FORM5AA	FORM51124AL	07/15/2011	15:58:48	1F4196	6.07
008	MDFRMAA	MDFRMX1124A	07/15/2011	16:08:19	1F4196	6.07
009	PBLK03195	BLANKA	07/15/2011	16:17:50	1F4196	6.07
010	LCS03195	LCSA	07/15/2011	16:27:22	1F4196	6.06
011	LCSD03195	LCSDA	07/15/2011	16:36:55	1F4196	6.07
012	PZ139	6341535	07/15/2011	16:46:28	1F4196	6.07
013	EB712	6342225	07/15/2011	16:56:01	1F4196	6.06
014	E9921	6343413	07/15/2011	17:05:33	1F4196	6.07
015	PBLK04194	BLANKA	07/15/2011	17:15:05	1F4196	6.07
016	LCS04194	LCSA	07/15/2011	17:24:36	1F4196	6.06
017	LCSD04194	LCSDA	07/15/2011	17:34:08	1F4196	6.06
018	WR01S	6337203	07/15/2011	17:43:39	1F4196	6.06
019	FORM3MJ	FORM31124AM	07/15/2011	17:53:10	1F4196	6.06
020	WR02S	6337204	07/15/2011	18:02:41	1F4196	6.06
021	WR03S	6337205	07/15/2011	18:12:14	1F4196	6.06
022	WR04S	6337206	07/15/2011	18:21:48	1F4196	6.05
023	WR05S	6337207	07/15/2011	18:31:20	1F4196	6.06
024	WR06S	6337208	07/15/2011	18:40:53	1F4196	6.06
025	WR07S	6337209	07/15/2011	18:50:26	1F4196	6.06
026	WR08S	6337210	07/15/2011	18:59:58	1F4196	6.07
027	WR10S	6337211	07/15/2011	19:09:29	1F4196	6.06
028	WR11S	6337212	07/15/2011	19:19:00	1F4196	6.06
029	WR12S	6337213	07/15/2011	19:28:31	1F4196	6.06
030	FORM3MK	FORM31124AM	07/15/2011	19:38:02	1F4196	6.06
031	WR12S	6337214	07/15/2011	19:47:36	1F4196	6.06
032	WR12S	6337215	07/15/2011	19:57:09	1F4196	6.06
033	WR12S	6337220	07/15/2011	20:06:41	1F4196	6.06

ICAL Dates

1F4196 07/15/2011 - 07/15/2011

BTAH = Butyraldehyde

ICAL RT QC Limits

6.07 (5.74 - 6.39 Minutes)

USF83 9942

8D
ANALYTICAL SEQUENCE

Sequence: 1F4196 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SUP-PAH ID: 250

Instrument: F6259A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	BTAH
034	WR10D	6337221	07/15/2011	20:16:14	1F4196	6.07
035	PBLK06194	BLANKA	07/15/2011	20:25:46	1F4196	6.06
036	LCS06194	LCSA	07/15/2011	20:35:18	1F4196	6.06
037	LCSD06194	LCSDA	07/15/2011	20:44:49	1F4196	6.07
038	WR09S	6338249	07/15/2011	20:54:20	1F4196	6.06
039	WR135	6338250	07/15/2011	21:03:51	1F4196	6.07
040	WR134	6338251	07/15/2011	21:13:22	1F4196	6.07
041	FORM3ML	FORM31124AM	07/15/2011	21:22:55	1F4196	6.06
042	WR295	6338252	07/15/2011	21:32:28	1F4196	6.07
043	WR294	6338253	07/15/2011	21:42:01	1F4196	6.07
044	WR294	6338254	07/15/2011	21:51:34	1F4196	6.07
045	WR294	6338255	07/15/2011	22:02:08	1F4196	6.07
046	WR294	6338260	07/15/2011	22:11:41	1F4196	6.06
047	WR885	6338261	07/15/2011	22:21:14	1F4196	6.07
048	WR883	6338262	07/15/2011	22:30:47	1F4196	6.07
049	WR905	6338263	07/15/2011	22:40:19	1F4196	6.07
050	WR90D	6338264	07/15/2011	22:49:51	1F4196	6.07
051	WR903	6338265	07/15/2011	22:59:22	1F4196	6.07
052	FORM3MM	FORM31124AM	07/15/2011	23:08:54	1F4196	6.07
053	PBLK04195	BLANKA	07/15/2011	23:18:25	1F4196	6.07
054	LCS04195	LCSA	07/15/2011	23:27:56	1F4196	6.08
055	LCSD04195	LCSDA	07/15/2011	23:37:30	1F4196	6.07
056	15S05	6339368	07/15/2011	23:47:03	1F4196	6.08
057	16S-5	6339369	07/15/2011	23:56:35	1F4196	6.08
058	17S05	6339370	07/16/2011	00:06:08	1F4196	6.07
059	18S05	6339371	07/16/2011	00:15:40	1F4196	6.08
060	19S05	6339372	07/16/2011	00:25:11	1F4196	6.07
061	20S05	6339373	07/16/2011	00:34:43	1F4196	6.08
062	21S05	6339374	07/16/2011	00:44:14	1F4196	6.08
063	FORM3MM	FORM31124AM	07/16/2011	00:53:45	1F4196	6.08
064	74S05	6339375	07/16/2011	01:03:16	1F4196	6.08
065	74S45	6339376	07/16/2011	01:12:49	1F4196	6.08
066	82S05	6339377	07/16/2011	01:22:22	1F4196	6.08

ICAL Dates

1F4196 07/15/2011 - 07/15/2011

BTAH = Butyraldehyde

ICAL RT QC Limits

6.07 (5.74 - 6.39 Minutes)

USF83 8949

8D
ANALYTICAL SEQUENCE

Sequence: 1F4196 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SUP-PAH ID: 250

Instrument: F6259A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	BTAH
067	82S05	6339378	07/16/2011	01:31:55	1F4196	6.08
068	82S05	6339379	07/16/2011	01:41:27	1F4196	6.09
069	82S05	6339384	07/16/2011	01:50:59	1F4196	6.08
070	82S40	6339385	07/16/2011	02:00:31	1F4196	6.09
071	87S05	6339386	07/16/2011	02:10:02	1F4196	6.09
072	87S40	6339387	07/16/2011	02:19:33	1F4196	6.08
073	FORM3MM	FORM31124AM	07/16/2011	02:29:04	1F4196	6.08
074	PBLK09196	BLANKA	07/16/2011	02:38:35	1F4196	6.09
075	LCS09196	LCSA	07/16/2011	02:48:09	1F4196	6.09
076	LCSD09196	LCSDA	07/16/2011	02:57:42	1F4196	6.09
077	WREB5	6342280	07/16/2011	03:07:14	1F4196	6.09
078	WREB6	6343315	07/16/2011	03:16:47	1F4196	6.09
079	WRFB2	6345377	07/16/2011	03:26:19	1F4196	6.09
080	WREB7	6345378	07/16/2011	03:35:50	1F4196	6.09
081	FORM3MM	FORM31124AM	07/16/2011	03:45:22	1F4196	6.08

ICAL Dates

1F4196 07/15/2011 - 07/15/2011

BTAH = Butyraldehyde

ICAL RT QC Limits

6.07 (5.74 - 6.39 Minutes)

Sample Data

Lancaster Laboratories

LOQ/MDL Summary
Pesticide Residue Analysis

SDG: USF03

Fraction: Formaldehyde

04173: Formaldehyde 8315A Analyte Name	Default MDL	Default LOQ	Units
Formaldehyde 8315A	1,200	3,000	ug/kg

04144: Formaldehyde 8315A Analyte Name	Default MDL	Default LOQ	Units
Formaldehyde 8315A	10	50	ug/l

USF03 5946

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339368 L 15S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 15, 2011 23:47:03
Instrument : CP09–F6259A
Result file : 1F4196.56R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *184.5% (64-126) Conc.: 3674.40429
2 = 92%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	6621	103.203026
Acetaldehyde	2.90	3.22	3.55	1816	55.409294
Butyraldehyde	5.74	6.08	6.39	41939	3674.404297

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	103.203026	<1500	<600			
☐ Acetaldehyde	A	55.409294					
☐ Butyraldehyde	A	3674.404297					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 0947

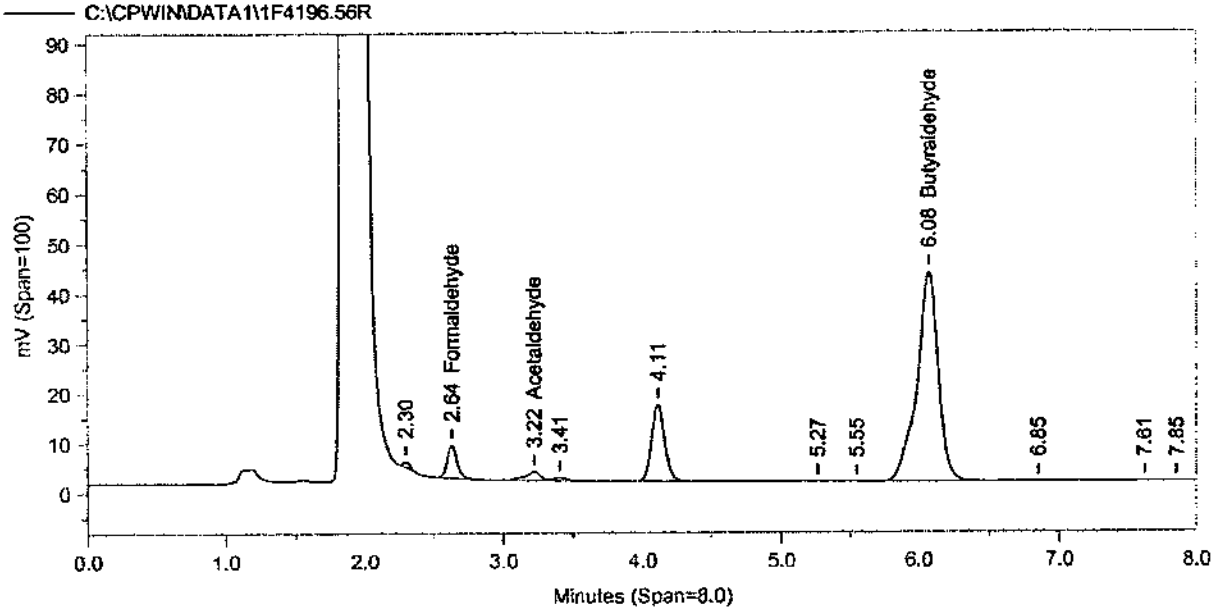
* Recovery outside QC Limits

Printed on: 7/17/11 14:54:38

Formaldehyde Single

6339368L AB15S05 T 111950004A 04173

C:\CPWIN\DATA1\1F4196.56R



Sample Name:6339368L AB15S05 T 111950004A 04173A

Instrument ID:CP09--F6259A
Injected on: 7/15/2011 11:47:02 PM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 20
Dilution Factor: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.56R
Analyst: 1566

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.301	1130	3547	.077	.	
2.638	6621	32642	.078	103.203	Formaldehyde
3.221	1816	14199	.098	55.4093	Acetaldehyde
3.406	739	4925	.123	.	
4.112	15413	102070	.101	.	
5.265	34	260	.178	.	
5.549	45	254	.143	.	
6.079	41939	450237	.151	3674.404	Butyraldehyde
6.847	49	450	.199	.	
7.614	27	97	.092	.	
7.853	45	238	.105	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.56A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 11:55:10 PM
File reported on: 7/15/2011 at 11:55:11 PM

USP53 5949

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339369 L 16S-5 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 15, 2011 23:56:35
Instrument : CP09--F6259A
Result file : 1F4196.57R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *173.3% (64-126) Conc.: 3451.93945
R=87%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	9851	153.537704
Acetaldehyde	2.90	3.22	3.55	1611	49.161434
Butyraldehyde	5.74	6.08	6.39	39400	3451.939453

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	153.537704	<1500	<600			
☐ Acetaldehyde	A	49.161434					
☐ Butyraldehyde	A	3451.939453					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

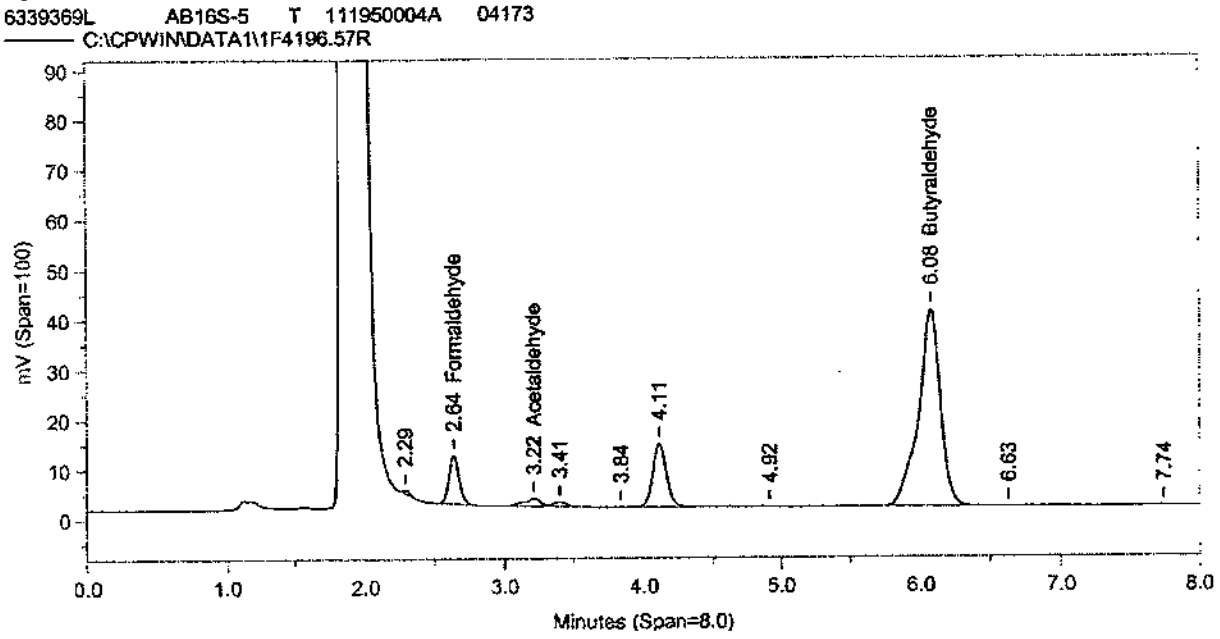
Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 6349

* Recovery outside QC Limits

Printed on: 7/17/11 14:54:52

Formaldehyde Single



Sample Name:6339369L AB16S-5 T 111950004A 04173A

Instrument ID:CP09—F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.57R
Analyst: 1566

Injected on: 7/15/2011 11:56:34 PM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.293	671	1912	.07	.	
2.638	9851	48345	.077	153.5377	Formaldehyde
3.218	1611	13381	.115	49.1614	Acetaldehyde
3.406	943	6395	.117	.	
3.837	41	204	.062	.	
4.111	12721	85604	.102	.	
4.918	76	601	.187	.	
6.077	39400	426147	.152	3451.94	Butyraldehyde
6.635	36	163	.117	.	
7.739	41	408	.263	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.57A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 12:04:42 AM
File reported on: 7/16/2011 at 12:04:44 AM

USP83 6956

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339370L 17S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 00:06:08
Instrument : CP09-F6259A
Result file : 1F4196.58R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *185.3% (64-126) Conc.: 3690.99365
2 = 93%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.63	2.83	3289	51.270454
Acetaldehyde	2.90	3.21	3.55	1347	41.086353
Butyraldehyde	5.74	6.07	6.39	42128	3690.993652

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	51.270454	<1500	<600			
☐ Acetaldehyde	A	41.086353					
☐ Butyraldehyde	A	3690.993652					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 5951

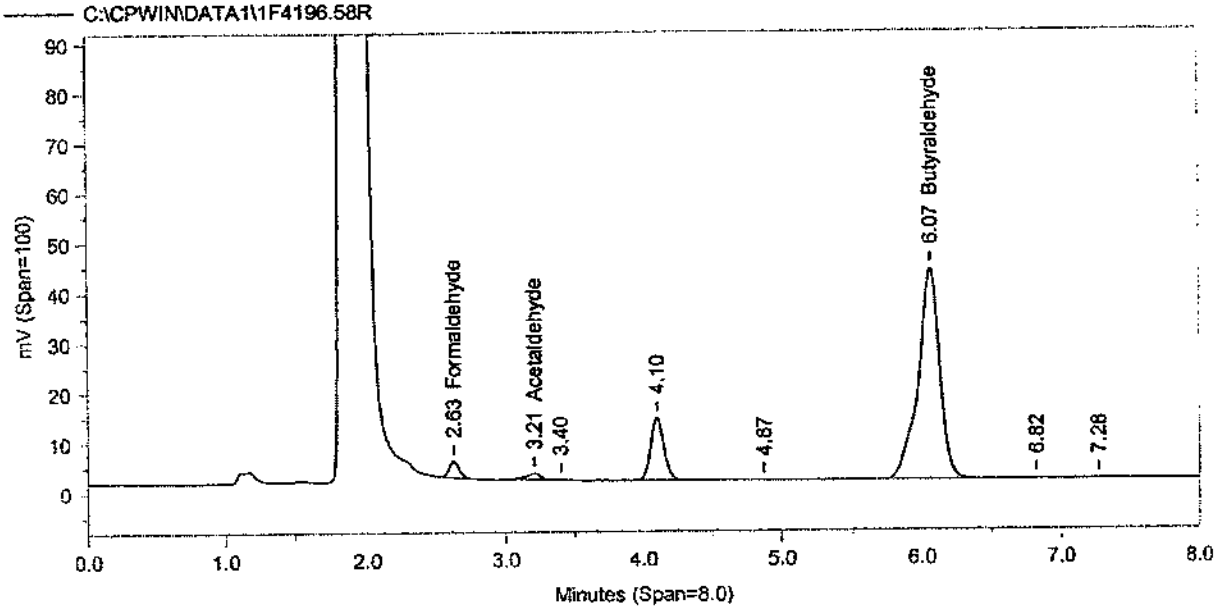
* Recovery outside QC Limits

Printed on: 7/17/11 14:55:10

Formaldehyde Single

6339370L AB17S05 T 111950004A 04173

C:\CPWIN\DATA1\1F4196.58R



Sample Name:6339370L AB17S05 T 111950004A 04173A

Instrument ID:CP09—F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.58R
Analyst: 1566

Injected on: 7/16/2011 12:06:07 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.627	3289	15809	.08	51.2705	Formaldehyde
3.21	1347	10310	.108	41.0864	Acetaldehyde
3.398	234	1440	.132	-	
4.102	12599	84246	.101	-	
4.875	66	785	.283	-	
6.067	42128	451802	.151	3690.994	Butyraldehyde
6.823	46	534	.239	-	
7.275	28	118	.097	-	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.58A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 12:14:14 AM
File reported on: 7/16/2011 at 12:14:16 AM

USF03 8952

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339371 L 18S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 00:15:40
Instrument : CP09--F6259A
Result file : 1F4196.59R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *188.2% (64-126) Conc.: 3748.49072
2 = 94

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	4006	62.439796
Acetaldehyde	2.90	3.22	3.55	1459	44.503078
Butyraldehyde	5.74	6.08	6.39	42785	3748.490723

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	62.439796	<1500	<600			
☐ Acetaldehyde	A	44.503078					
☐ Butyraldehyde	A	3748.490723					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist Date: JUL 17 2011

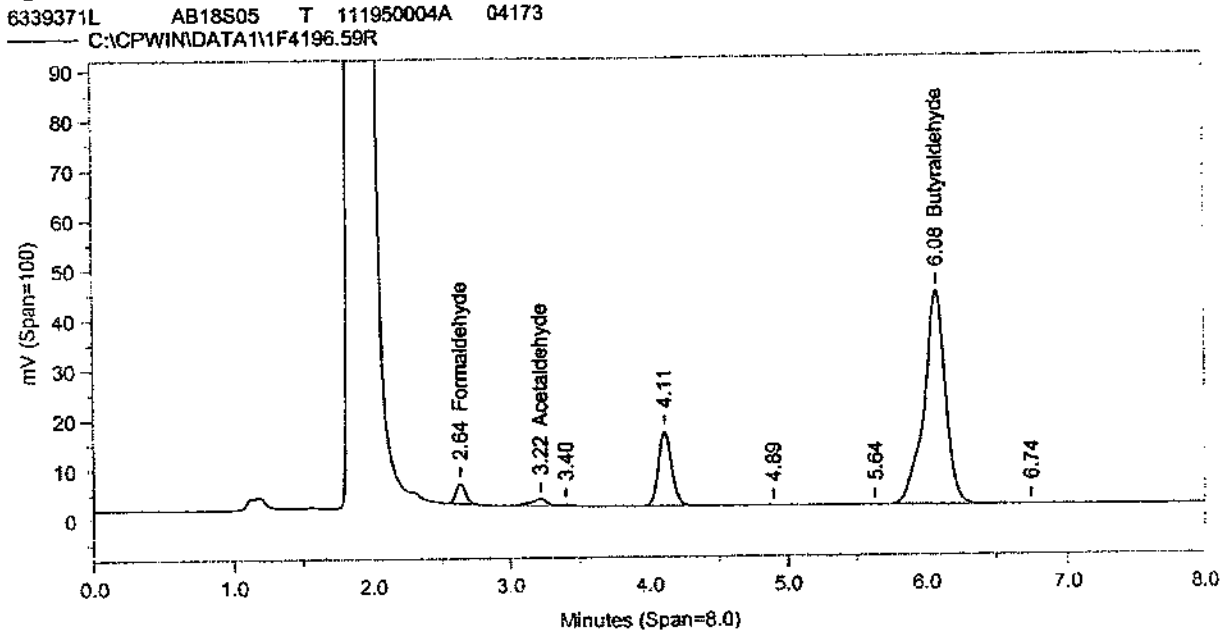
Verified by: Valerie L. Tomayko, Principal Specialist Date: JUL 19 2011

USF03 6953

* Recovery outside QC Limits

Printed on: 7/17/11 14:55:24

Formaldehyde Single



Sample Name:6339371L AB18S05 T 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.59R
Analyst: 1566

Injected on: 7/16/2011 12:15:39 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.638	4006	19684	.081	62.4398	Formaldehyde
3.221	1459	11910	.103	44.5031	Acetaldehyde
3.402	366	2353	.125	-	
4.112	14921	100312	.102	-	
4.895	45	388	.185	-	
5.636	34	173	.119	-	
6.079	42785	461498	.152	3748.491	Butyraldehyde
6.745	88	2773	.701	-	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.59A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 12:23:46 AM
File reported on: 7/16/2011 at 12:23:48 AM

USP63 8954

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339372 L 19S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 00:25:11
Instrument : CP09–F6259A
Result file : 1F4196.60R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *184.8% (64-126) Conc.: 3680.16015
92%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.63	2.83	3843	59.901314
Acetaldehyde	2.90	3.21	3.55	1588	48.433956
Butyraldehyde	5.74	6.07	6.39	42005	3680.160156

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	59.901314	<1500	<600			
☐ Acetaldehyde	A	48.433956					
☐ Butyraldehyde	A	3680.160156					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist Date: JUL 17 2011

Verified by: Valerie L. Tomayko, Principal Specialist Date: JUL 19 2011

USF03 8955

* Recovery outside QC Limits

Printed on: 7/17/11 14:55:39

Formaldehyde Single

6339372L AB19S05 T 111950004A 04173

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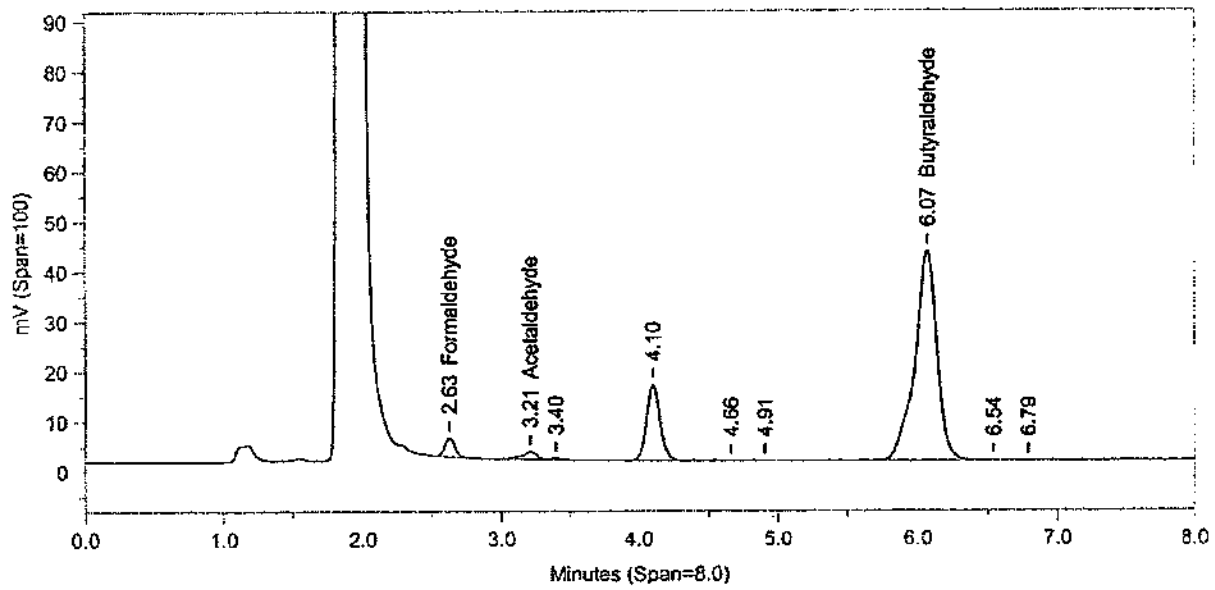


Sample Name:6339372L AB19S05 T 111950004A 04173A

Instrument ID:CP09--F6259A
Injected on: 7/16/2011 12:25:10 AM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 20
Dilution Factor: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.60R
Analyst: 1566

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.629	3843	18700	.078	59.9013	Formaldehyde
3.212	1588	12348	.099	48.434	Acetaldehyde
3.396	334	2125	.125	.	
4.104	15168	100807	.101	.	
4.661	32	128	.076	.	
4.907	79	840	.18	.	
6.071	42005	449740	.151	3680.16	Butyraldehyde
6.542	41	180	.082	.	
6.79	44	246	.074	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.60A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 12:33:18 AM
File reported on: 7/16/2011 at 12:33:20 AM

USF93 8956

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339373L 20S05 Sample ID: AB **Batchnumber:** 111950004A
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 00:34:43
Instrument : CP09--F6259A
Result file : 1F4196.61R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *181.1% (64-126) Conc.: 3606.74658
2 = 9/9%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	10783	168.063843
Acetaldehyde	2.90	3.22	3.55	1751	53.430000
Butyraldehyde	5.74	6.08	6.39	41167	3606.746582

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	168.063843	<1500	<600			
☐ Acetaldehyde	A	53.430000					
☐ Butyraldehyde	A	3606.746582					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist Verified by: Valerie L. Tomayko, Principal Specialist

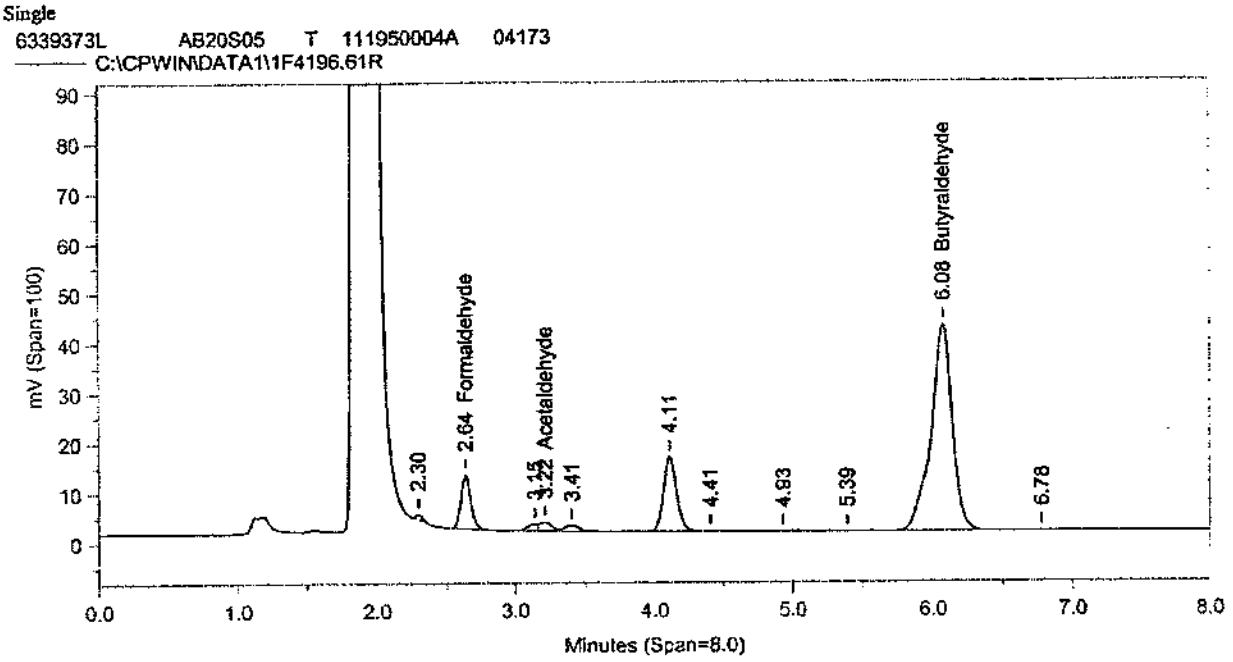
Date: JUL 17 2011 Date: JUL 19 2011

USF03 9957

* Recovery outside QC Limits

Printed on: 7/17/11 14:55:54

Formaldehyde Single



Sample Name:6339373L AB20S05 T 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.61R
Analyst: 1566

Injected on: 7/16/2011 12:34:42 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.298	1031	3038	.073	.	
2.639	10783	53641	.077	168.0638	Formaldehyde
3.146	1363	7165	.081	.	
3.219	1751	10480	.097	53.43	Acetaldehyde
3.408	1194	8048	.114	.	
4.113	14885	99601	.101	.	
4.407	78	592	.117	.	
4.932	76	706	.165	.	
5.391	36	264	.168	.	
6.079	41167	445339	.152	3606.747	Butyraldehyde
6.778	72	1415	.479	.	

FILES:
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Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 12:42:50 AM
File reported on: 7/16/2011 at 12:42:51 AM

USF03 6958

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339374L 21S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 00:44:14
Instrument : CP09-F6259A
Result file : 1F4196.62R
Calibration file : 1F4196.CAL
Method file : FORM.MET
%SSR(Butyraldehyd : *185.8% (64-126) Conc.: 3699.86279
5 = 9390

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	9750	151.961716
Acetaldehyde	2.90	3.22	3.55	1574	48.031597
Butyraldehyde	5.74	6.08	6.39	42230	3699.862793

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	151.961716	<1500	<600			
☐ Acetaldehyde	A	48.031597					
☐ Butyraldehyde	A	3699.862793					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

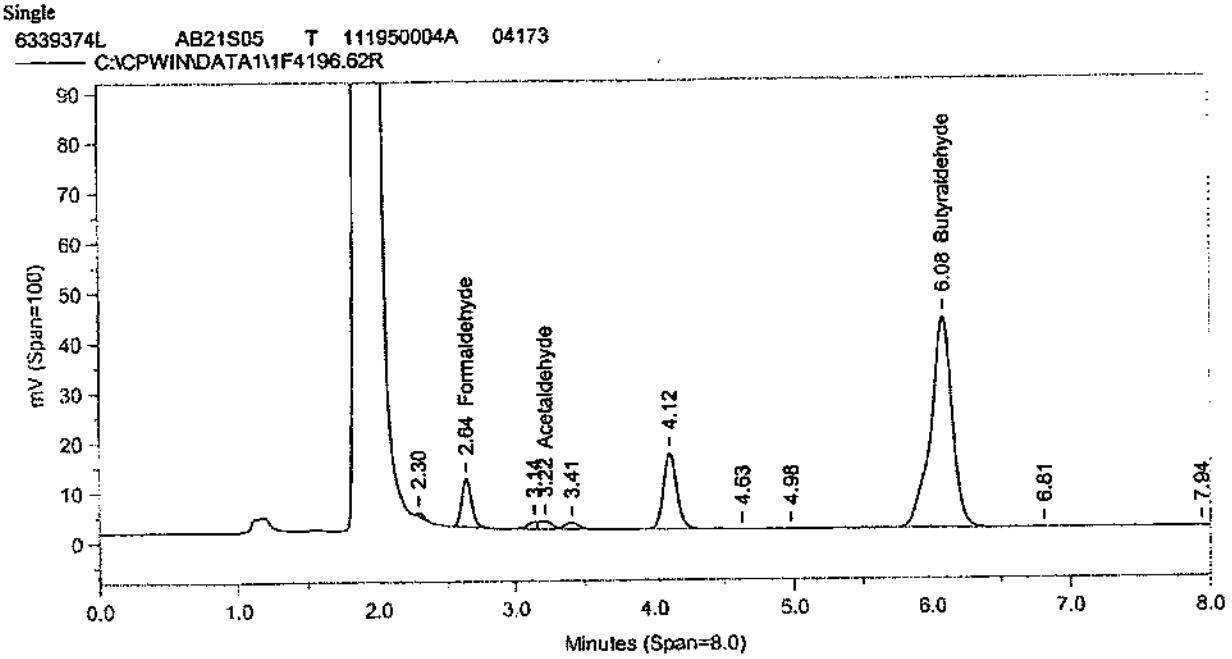
Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 6959

* Recovery outside QC Limits

Printed on: 7/17/11 14:56:08

Formaldehyde Single



Sample Name:6339374L AB21S05 T 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.62R
Analyst: 1566

Injected on: 7/16/2011 12:44:13 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.298	731	2382	.075	-	
2.641	9750	48324	.077	151.9617	Formaldehyde
3.138	1417	7399	.079	-	
3.219	1574	9424	.096	48.0316	Acetaldehyde
3.41	1300	9037	.114	-	
4.115	15128	100680	.101	-	
4.632	47	259	.107	-	
4.979	52	323	.142	-	
6.083	42230	455680	.152	3699.863	Butyraldehyde
6.815	36	380	.251	-	
7.942	22	50	.046	-	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.62A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 12:52:20 AM
File reported on: 7/16/2011 at 12:52:22 AM

USP83 8968

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339375 L 74S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 01:03:16
Instrument : CP09-F6259A
Result file : 1F4196.64R
Calibration file : 1F4196.CAL
Method file : FORM.MET
%SSR(Butyraldehyd : *183.1% (64-126) Conc.: 3646.78051(
2 = 92%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	5555	86.579475
Acetaldehyde	2.90	3.22	3.55	1396	42.601936
Butyraldehyde	5.74	6.08	6.39	41624	3646.780518

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	86.579475	<1500	<600			
☐ Acetaldehyde	A	42.601936					
☐ Butyraldehyde	A	3646.780518					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 89661

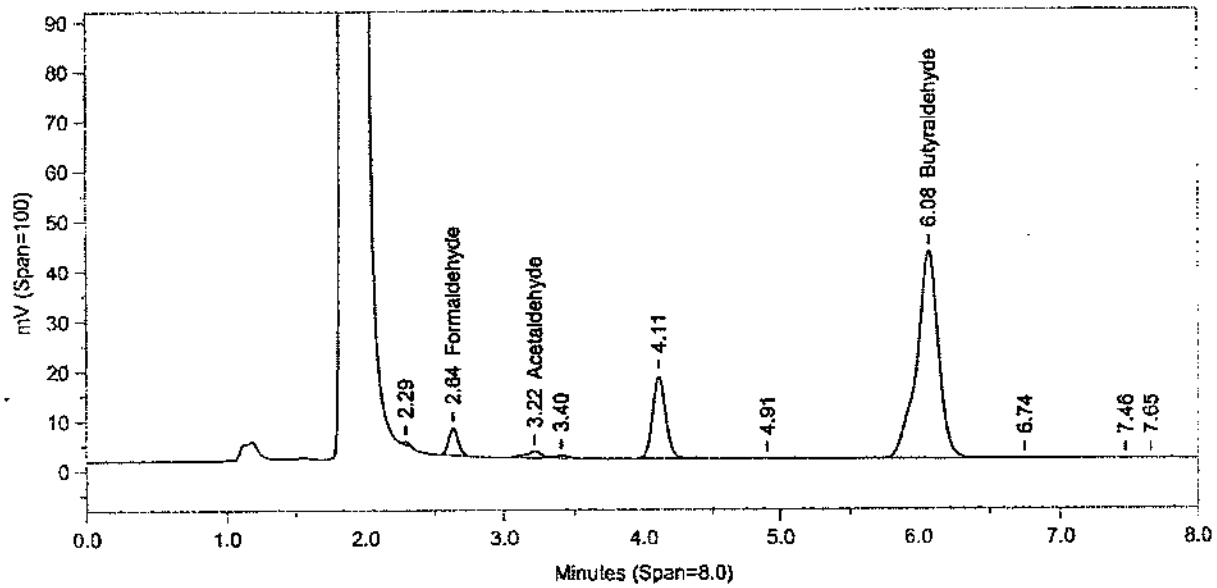
* Recovery outside QC Limits

Printed on: 7/17/11 14:56:30

Formaldehyde Single

6339375L AB74S05 T 111950004A 04173

C:\CPWIN\DATA1\1F4196.64R



Sample Name:6339375L AB74S05 T 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.64R
Analyst: 1566

Injected on: 7/16/2011 1:03:15 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.294	625	1804	.07	.	
2.637	5555	27222	.079	86.5795	Formaldehyde
3.219	1396	11630	.108	42.6019	Acetaldehyde
3.404	567	3687	.131	.	
4.112	16575	111412	.102	.	
4.906	55	613	.226	.	
6.079	41624	451694	.153	3646.781	Butyraldehyde
6.743	77	2104	.642	.	
7.463	32	128	.076	.	
7.646	48	430	.239	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.64A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 1:11:22 AM
File reported on: 7/16/2011 at 1:11:24 AM

USF03 8962

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339376L 74S45 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 01:12:49
Instrument : CP09--F6259A
Result file : 1F4196.65R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *186.1% (64-126) Conc.: 3706.37646
2 = 93%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	9626	150.029236
Acetaldehyde	2.90	3.22	3.55	1363	41.579720
Butyraldehyde	5.74	6.08	6.39	42304	3706.376465

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	150.029236	<1500	<600			
☐ Acetaldehyde	A	41.579720					
☐ Butyraldehyde	A	3706.376465					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

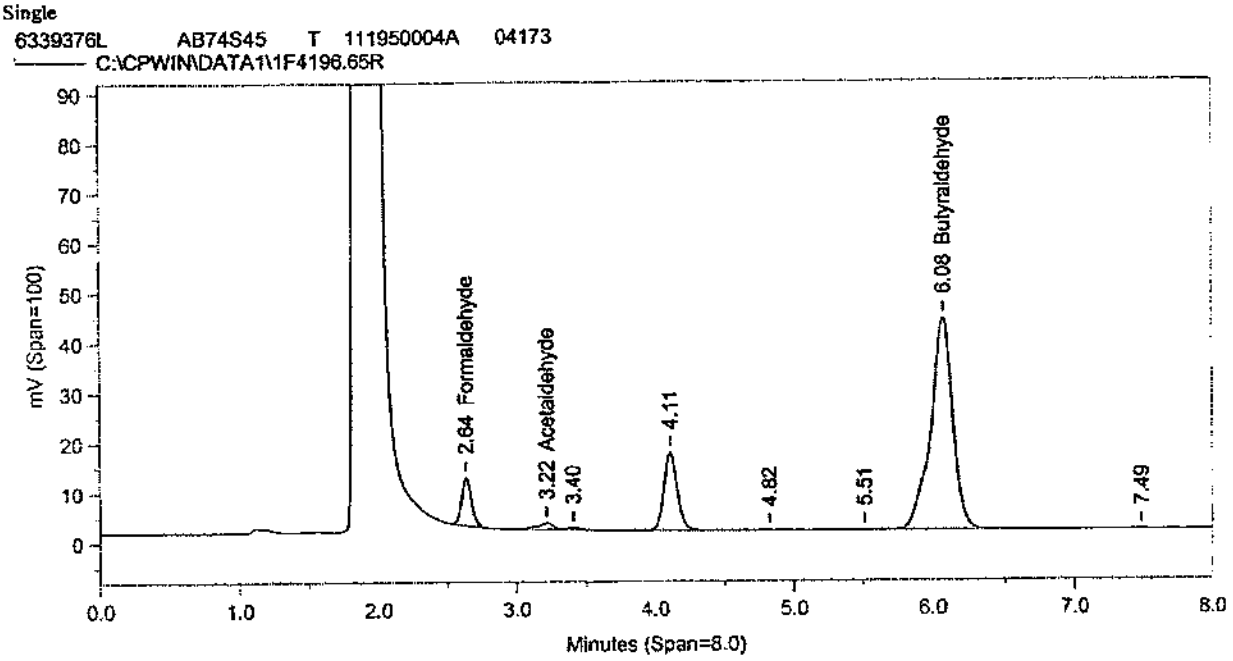
Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 8963

* Recovery outside QC Limits

Printed on: 7/17/11 14:56:44

Formaldehyde Single



Sample Name:6339376L AB74S45 T 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.65R
Analyst: 1566

Injected on: 7/16/2011 1:12:48 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.637	9626	46627	.077	150.0292	Formaldehyde
3.219	1363	11116	.112	41.5797	Acetaldehyde
3.405	478	3280	.142	.	
4.112	15619	104654	.102	.	
4.823	51	637	.222	.	
5.511	30	218	.199	.	
6.08	42304	458833	.153	3706.377	Butyraldehyde
7.489	37	292	.18	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.65A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 1:20:56 AM
File reported on: 7/16/2011 at 1:20:57 AM

USP83 8964

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339377L 82S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 01:22:22
Instrument : CP09--F6259A
Result file : 1F4196.66R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *190.4% (64-126) Conc.: 3792.60083
= 95%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	2850	44.415356
Acetaldehyde	2.90	3.22	3.55	1461	44.559715
Butyraldehyde	5.74	6.08	6.39	43288	3792.600830

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	44.415356	<1500	<600			
☐ Acetaldehyde	A	44.559715					
☐ Butyraldehyde	A	3792.600830					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

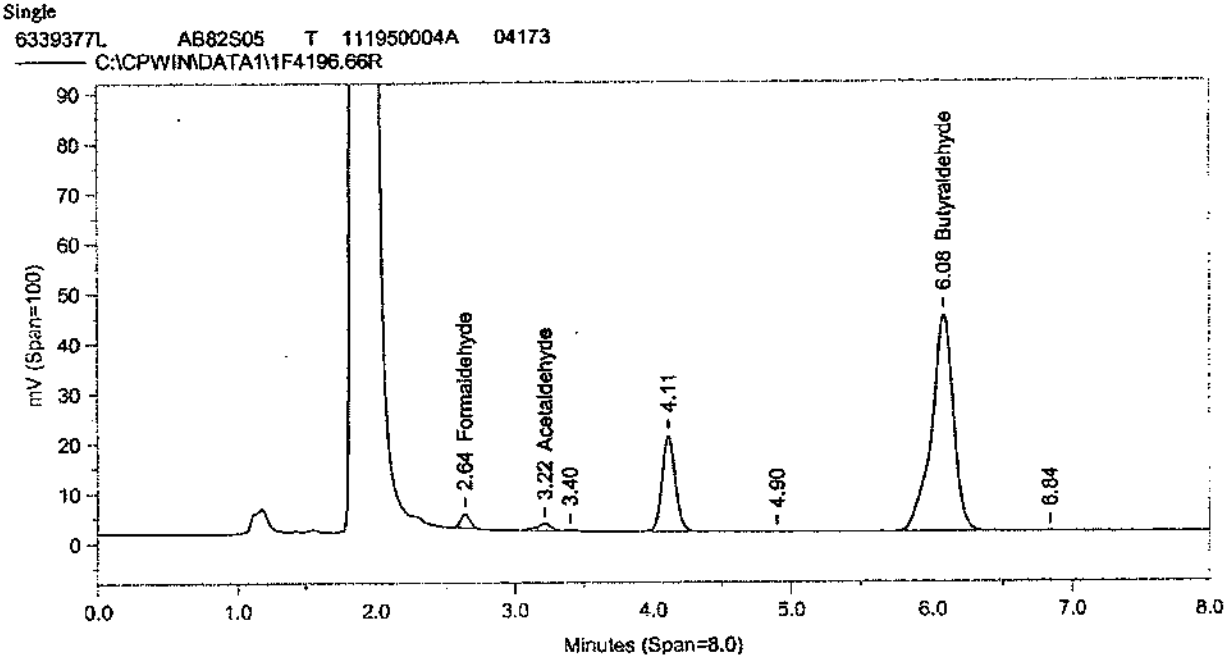
Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 2965

* Recovery outside QC Limits

Printed on: 7/17/11 14:56:57

Formaldehyde Single



Sample Name:6339377L AB82S05 T 111950004A 04173A

Instrument ID:CP09--F6259A
Injected on: 7/16/2011 1:22:21 AM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 20
Dilution Factor: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.66R
Analyst: 1566

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.64	2850	13673	.079	44.4154	Formaldehyde
3.223	1461	11078	.099	44.5597	Acetaldehyde
3.402	256	1673	.127	.	
4.114	19151	127054	.101	.	
4.899	58	862	.327	.	
6.082	43288	461855	.15	3792.601	Butyraldehyde
6.84	63	1016	.392	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.66A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 1:30:30 AM
File reported on: 7/16/2011 at 1:30:31 AM

USF03 8966

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339384L 82S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 01:50:59
Instrument : CP09--F6259A
Result file : 1F4196.69R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *182.9% (64-126) Conc.: 3643.46801
2 = 91%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.63	2.83	103391	1611.467041
Acetaldehyde	2.90	3.22	3.55	58799	1793.873291
Butyraldehyde	5.74	6.08	6.39	41586	3643.468018

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	1611.467041	1500	600			
☐ Acetaldehyde	A	1793.873291					
☐ Butyraldehyde	A	3643.468018					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

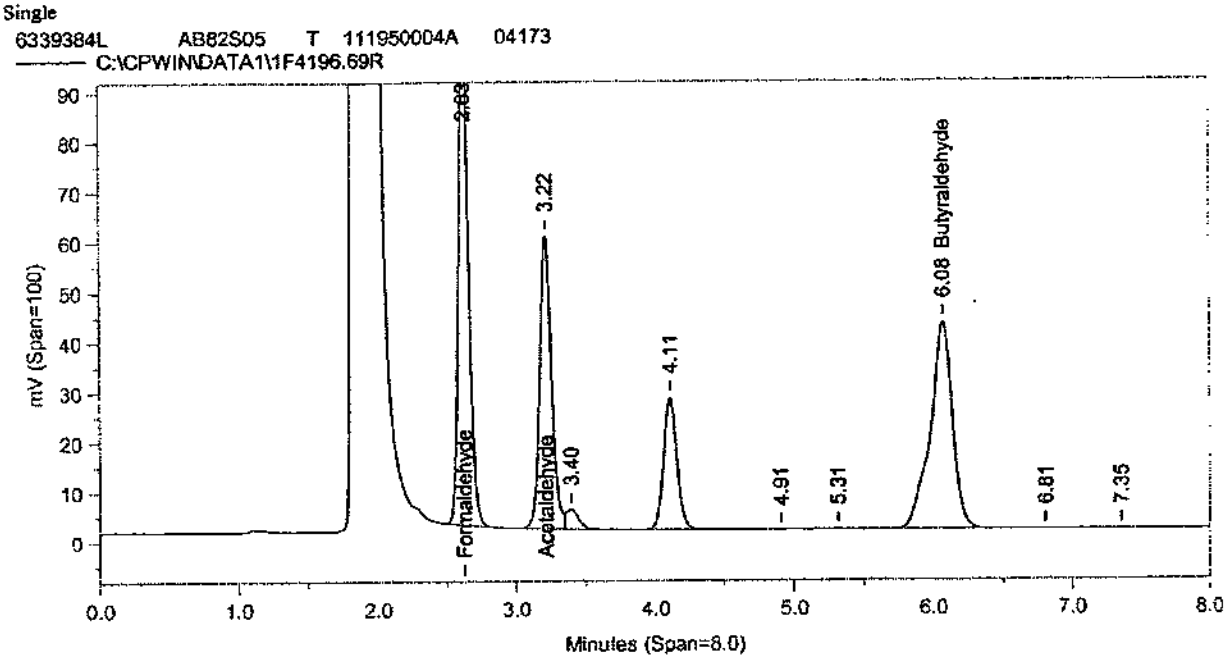
Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 8967

* Recovery outside QC Limits

Printed on: 7/17/11 14:57:34

Formaldehyde Single



Sample Name:6339384L AB82S05 T 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.69R
Analyst: 1566

Injected on: 7/16/2011 1:50:58 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.631	103391	510556	.075	1611.467	Formaldehyde
3.217	58799	346741	.088	1793.873	Acetaldehyde
3.397	3925	23336	.101	.	
4.106	26572	178259	.102	.	
4.905	57	806	.221	.	
5.313	88	490	.099	.	
6.075	41586	463757	.156	3643.468	Butyraldehyde
6.808	44	446	.207	.	
7.35	34	200	.112	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.69A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 1:59:06 AM
File reported on: 7/16/2011 at 1:59:07 AM

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339385L 82S40 Sample ID: AB **Batchnumber:** 111950004A
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 02:00:31
Instrument : CP09-F6259A
Result file : 1F4196.70R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *191.1% (64-126) Conc.: 3806.11987:
2 = 96%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	3113	48.526550
Acetaldehyde	2.90	3.22	3.55	1441	43.964443
Butyraldehyde	5.74	6.09	6.39	43442	3806.119873

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	48.526550	<1500	<600			
☐ Acetaldehyde	A	43.964443					
☐ Butyraldehyde	A	3806.119873					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 6969

* Recovery outside QC Limits

Printed on: 7/17/11 14:57:46

Formaldehyde Single

6339385L AB82S40 T 111950004A 04173

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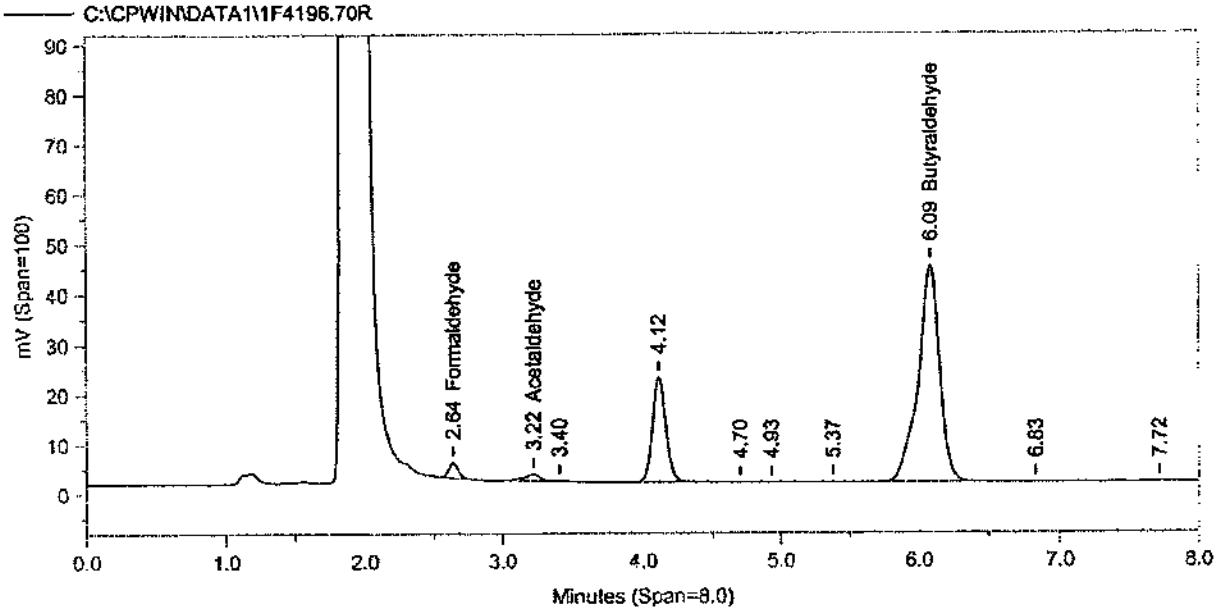


Sample Name:6339385L AB82S40 T 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.70R
Analyst: 1566

Injected on: 7/16/2011 2:00:30 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.64	3113	15167	.081	48.5266	Formaldehyde
3.224	1441	11520	.118	43.9644	Acetaldehyde
3.405	202	1188	.119	.	
4.116	21082	140566	.102	.	
4.7	41	232	.145	.	
4.931	74	790	.289	.	
5.375	38	134	.063	.	
6.086	43442	474262	.154	3806.12	Butyraldehyde
6.827	64	1324	.444	.	
7.715	44	258	.113	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.70A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 2:08:38 AM
File reported on: 7/16/2011 at 2:08:39 AM

USF83 8978

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339386L 87S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 02:10:02
Instrument : CP09--F6259A
Result file : 1F4196.71R
Calibration file : 1F4196.CAL
Method file : FORM.MET
%SSR(Butyraldehyd : *179.8% (64-126) Conc.: 3580.82470
R = 90%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	7819	121.867996
Acetaldehyde	2.90	3.23	3.55	1441	43.952393
Butyraldehyde	5.74	6.09	6.39	40871	3580.824707

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	121.867996	<1500	<600			
☐ Acetaldehyde	A	43.952393					
☐ Butyraldehyde	A	3580.824707					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist Date: JUL 17 2011

Verified by: Valerie L. Tomayko, Principal Specialist Date: JUL 19 2011

USF03 8971

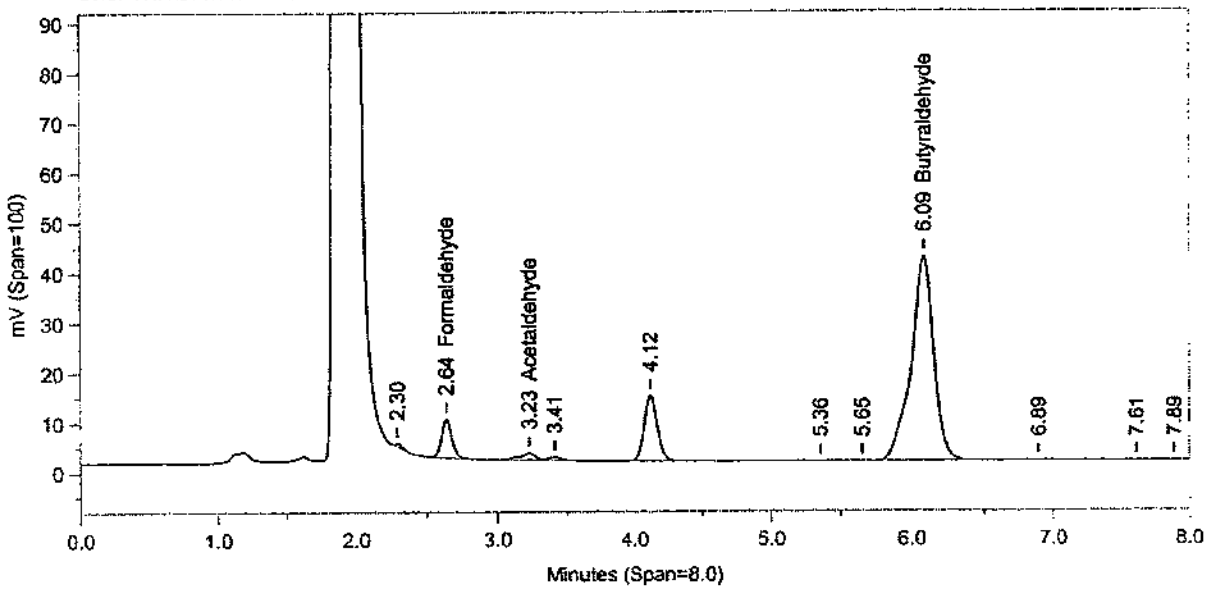
* Recovery outside QC Limits

Printed on: 7/17/11 14:57:59

Formaldehyde Single

6339386L AB87S05 T 111950004A 04173

C:\CPWIN\DATA1\1F4196.71R



Sample Name:6339386L AB87S05 T 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.71R
Analyst: 1566

Injected on: 7/16/2011 2:10:01 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.296	472	1406	.066	.	
2.644	7819	38614	.078	121.868	Formaldehyde
3.229	1441	11750	.106	43.9524	Acetaldehyde
3.413	689	4538	.12	.	
4.121	13261	89309	.102	.	
5.356	38	250	.185	.	
5.651	27	88	.066	.	
6.091	40871	448219	.154	3580.825	Butyraldehyde
6.891	50	725	.322	.	
7.606	42	387	.242	.	
7.889	37	138	.054	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.71A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 2:18:08 AM
File reported on: 7/16/2011 at 2:18:10 AM

USF83 9372

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339387 L 87S40 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 02:19:33
Instrument : CP09-F6259A
Result file : 1F4196.72R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *207% (64-126) Conc.: 4121.69775
2 = 103%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	8036	125.242508
Acetaldehyde	2.90	3.22	3.55	1336	40.760506
Butyraldehyde	5.74	6.08	6.39	47044	4121.697754

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	125.242508	<1500	<600			
☐ Acetaldehyde	A	40.760506					
☐ Butyraldehyde	A	4121.697754					

Units: ug/kg

James H. Place
Senior Chemist
Reviewed by: _____
Date: JUL 17 2011

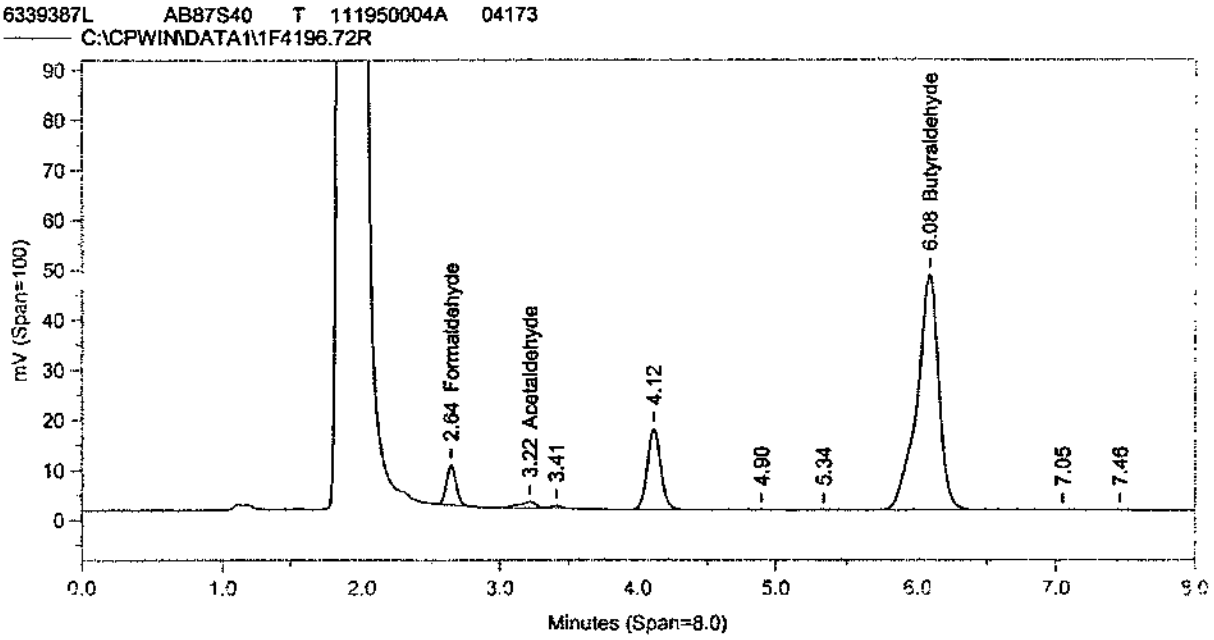
Valerie L. Yamagiwa
Principal Specialist
Verified by: _____
Date: JUL 19 2011

USF03 6973

* Recovery outside QC Limits

Printed on: 7/17/11 14:56:12

Formaldehyde Single



Sample Name:6339387L AB87S40 T 111950004A 04173A

Instrument ID:CP09--F6259A
Injected on: 7/16/2011 2:19:32 AM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 20
Dilution Factor: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.72R
Analyst: 1566

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.639	8036	39487	.078	125.2425	Formaldehyde
3.221	1336	11308	.126	40.7605	Acetaldehyde
3.411	567	3587	.128	.	
4.115	16144	108069	.102	.	
4.899	48	235	.118	.	
5.337	51	764	.291	.	
6.085	47044	515097	.154	4121.698	Butyraldehyde
7.05	55	442	.159	.	
7.463	45	123	.052	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.72A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 2:27:40 AM
File reported on: 7/16/2011 at 2:27:41 AM

USF83 0974

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339388 EBQ03 Sample ID: AA **Batchnumber:** 111920003A
Sample Amount: 100 mL Total Volume: 10 ml Analyst: 709 SDG: USF03 State: CA
Analyses: 04144

Analysis Report (A)

Injected on : JUL 12, 2011 12:00:58
Instrument : CP09--F6259A
Result file : 1F4193.13R
Calibration file : 1F4193.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : 98.1% (45-145) Conc.: 390.873169

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.63	2.83	9481	13.709620
Acetaldehyde	2.89	3.21	3.54	3222	11.796399
Butyraldehyde	5.76	6.05	6.41	45126	390.873169

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	13.709620	<50	10	J		
☐ Acetaldehyde	A	11.796399					
☐ Butyraldehyde	A	390.873169					

Units: ug/l

Reviewed by: Michelle D. Hamilton, Senior Chemist Group Leader

Date: JUL 12 2011

Verified by:

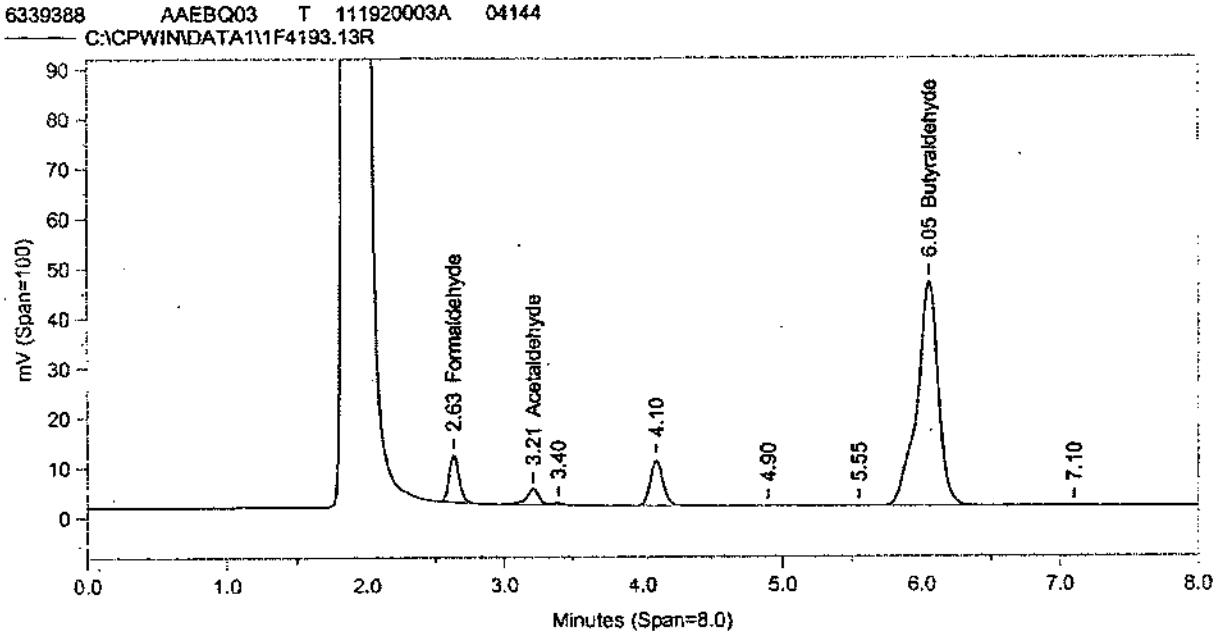
Date: 7-18-11

USF03 8975

* Recovery outside QC Limits

Printed on: 7/12/11 13:34:05

Formaldehyde Single



Sample Name:6339388 AAEBQ03 T 111920003A 04144A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 100
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.13R
Analyst: 709

Injected on: 7/12/2011 12:00:57 PM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 10

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.632	9461	45659	.076	13.7096	Formaldehyde
3.214	3222	20829	.087	11.7964	Acetaldehyde
3.396	458	2699	.11	.	
4.099	9104	59631	.099	.	
4.898	70	876	.19	.	
5.547	40	215	.096	.	
6.055	45126	478973	.147	390.8732	Butyraldehyde
7.102	44	388	.202	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.13A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/12/2011 12:40:14 PM
File reported on: 7/12/2011 at 12:40:17 PM

USP83 8925

Standards Data

USF83 6977

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp9\C-Drive\CPWIN\DATA1\1F4193.seq
Chromatography Directory: \\cp9\C-Drive\CPWIN\DATA1
Method Directory: \\cp9\C-Drive\CPWIN\data1
Number of Entries: 18

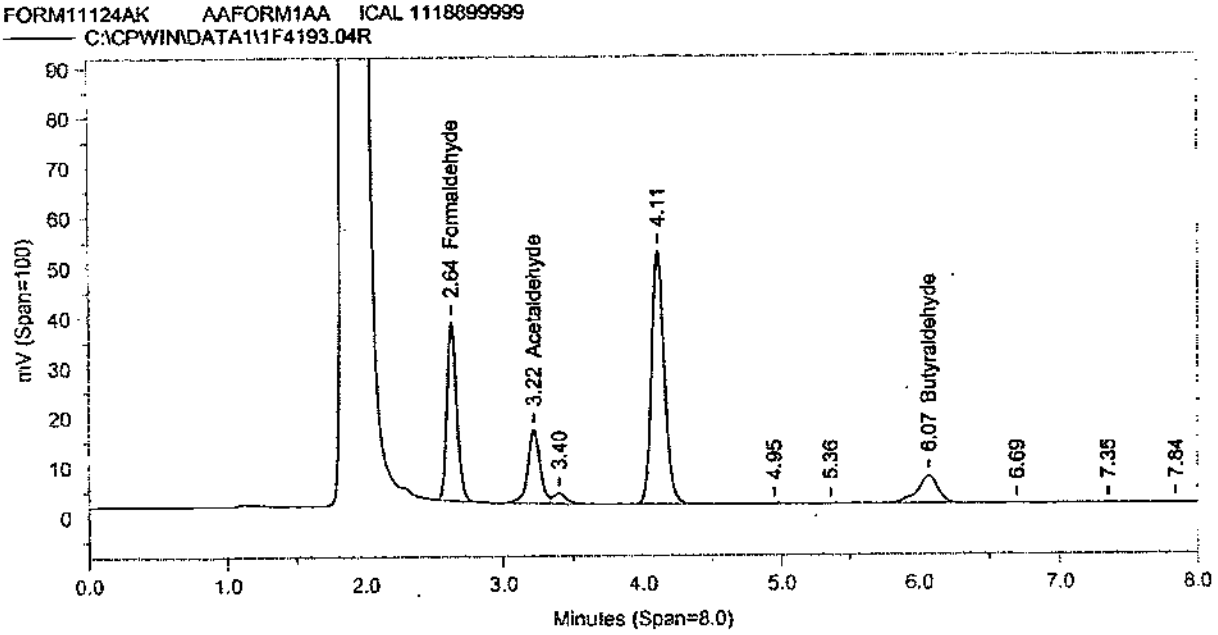
	Samplename	Code	ID	FileName	Method		Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1F4193.01R		FORM.MET	1	1	1	0	1118899999	
2	CONDITIONER	MISC	AA	1F4193.02R		FORM.MET	1	1	1	0	1118899999	
3	CONDITIONER	MISC	AA	1F4193.03R		FORM.MET	1	1	1	0	1118899999	
4	FORM11124AK	ICAL	AA	1F4193.04R		FORM.MET	1	1	1	1	1118899999	
5	FORM21124AK	ICAL	AA	1F4193.05R		FORM.MET	1	1	1	2	1118899999	
6	FORM31124AK	ICAL	AA	1F4193.06R		FORM.MET	1	1	1	3	1118899999	
7	FORM41124AK	ICAL	AA	1F4193.07R		FORM.MET	1	1	1	4	1118899999	
8	FORM51124AK	ICAL	AA	1F4193.08R		FORM.MET	1	1	1	5	1118899999	
9	MDFRMX1124AK	ICAL	AA	1F4193.09R		FORM.MET	1	1	1	0	1118899999	
10	BLANKA 7/11/11	BLK	AA	1F4193.10R		FORM.MET	100	10	1	0	111920003A	04144
11	LCSA 7/11/11	LCS	AA	1F4193.11R		FORM.MET	100	10	1	0	111920003A	04144
12	LCSDA 7/11/11	LCSD	AA	1F4193.12R		FORM.MET	100	10	1	0	111920003A	04144
13	6339388	T	AA	1F4193.13R		FORM.MET	100	10	1	0	111920003A	04144
14	BLANKA 7/11/11	BLK	AA	1F4193.14R		FORM.MET	100	10	1	0	111920004A	04144
15	LCSA 7/11/11	LCS	AA	1F4193.15R		FORM.MET	100	10	1	0	111920004A	04144
16	LCSDA 7/11/11	LCSD	AA	1F4193.16R		FORM.MET	100	10	1	0	111920004A	04144
17	6339516	T	AA	1F4193.17R		FORM.MET	100	10	1	0	111920004A	04144
18	FORM21124AK	CCAL	FY	1F4193.18R		FORM.MET	1	1	1	0	1118899999	

USP93 9978

Set-up by: _____ Date: 7/12/11

7/12/11

Formaldehyde Single



Sample Name:FORM11124AK AAFORM1AA ICAL1118899999A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.04R
Analyst: 709

Injected on: 7/12/2011 10:35:08 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 1

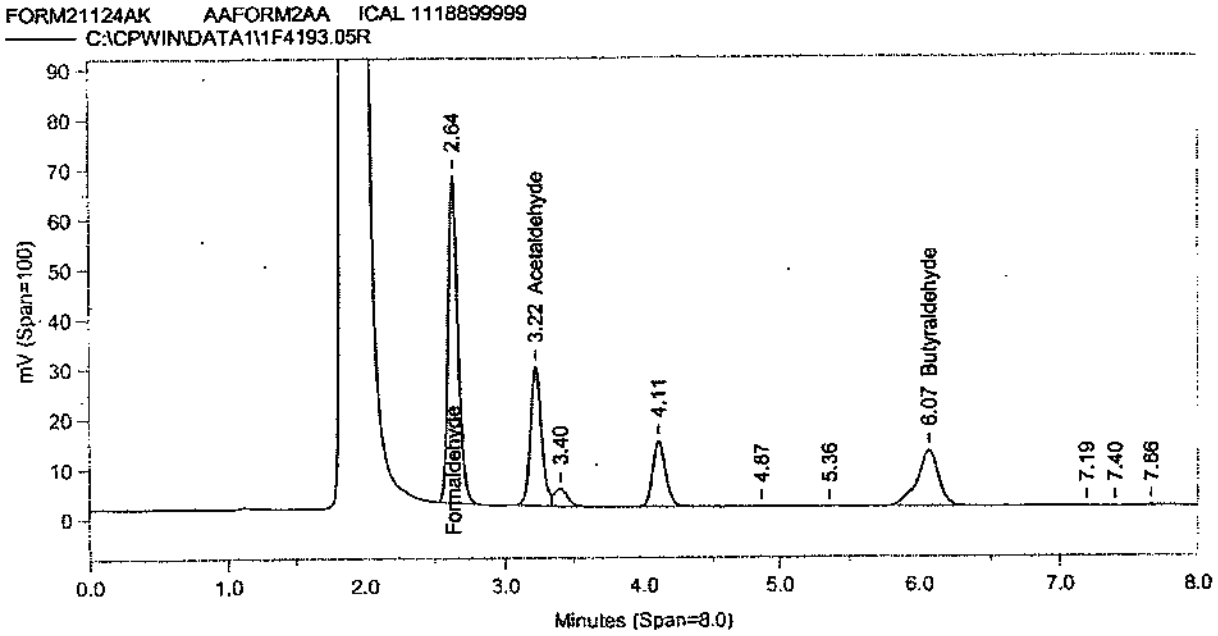
Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.636	35933	173230	.074	547.5918	Formaldehyde
3.221	14796	89137	.087	471.1964	Acetaldehyde
3.4	2041	13201	.118	.	
4.109	50852	328602	.098	.	
4.949	43	583	.299	.	
5.358	31	205	.182	.	
6.073	5545	58356	.147	986.1965	Butyraldehyde
6.694	49	645	.297	.	
7.346	46	262	.123	.	
7.841	35	311	.226	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.04A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/12/2011 10:43:16 AM
File reported on: 7/12/2011 at 10:43:18 AM

USP63 8979

Formaldehyde Single



Sample Name:FORM21124AK AAFORM2AA ICAL 1118899999A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.05R
Analyst: 709

Injected on: 7/12/2011 10:44:40 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 1

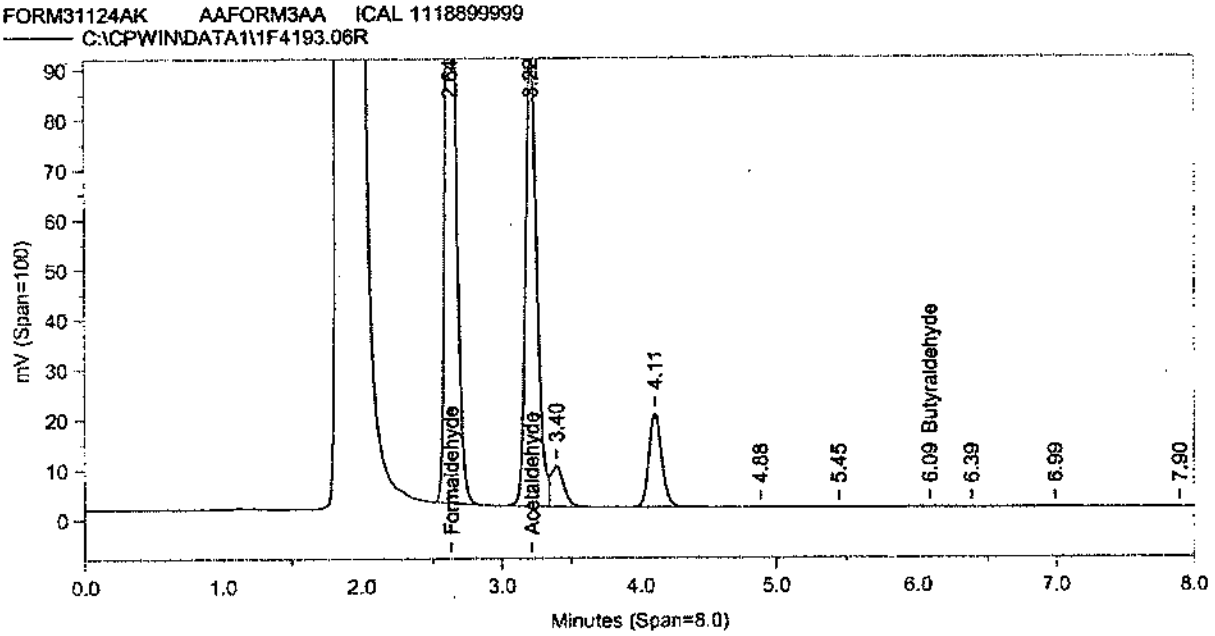
Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.637	65524	314295	.073	982.3885	Formaldehyde
3.222	27917	159554	.086	981.9402	Acetaldehyde
3.402	3489	22992	.119	.	
4.109	13110	85286	.099	.	
4.868	60	671	.205	.	
5.359	35	158	.118	.	
6.072	11149	117468	.146	1788.153	Butyraldehyde
7.193	35	126	.094	.	
7.396	43	264	.218	.	
7.657	39	353	.22	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.05A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/12/2011 10:52:48 AM
File reported on: 7/12/2011 at 10:52:49 AM

USF63 9988

Formaldehyde Single



Sample Name:FORM31124AK AAFORM3AA ICAL 1118899999A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.06R
Analyst: 709

Injected on: 7/12/2011 10:54:13 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 1

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.635	158986	766448	.073	2397.142	Formaldehyde
3.219	91337	518251	.086	3622.408	Acetaldehyde
3.397	8091	50039	.107	.	
4.106	18725	121862	.099	.	
4.884	69	848	.195	.	
5.446	48	569	.296	.	
6.089	62	458	.192	8.8712	Butyraldehyde
6.387	53	420	.281	.	
6.992	60	1190	.537	.	
7.897	34	107	.067	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.06A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
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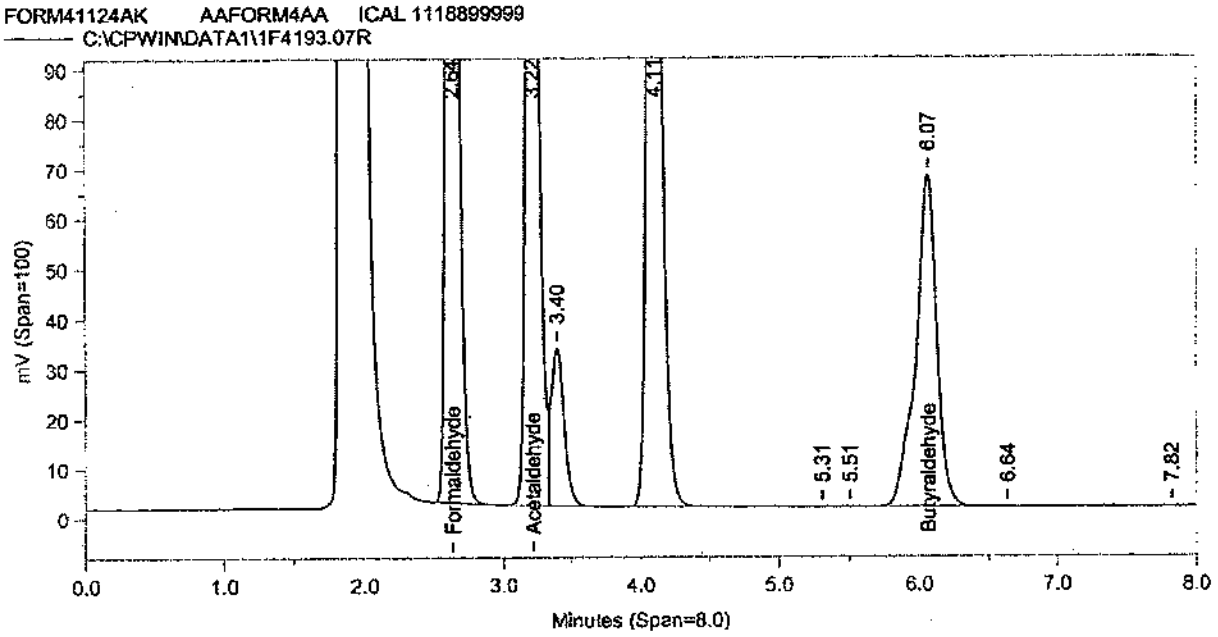
File reported on: 7/12/2011 at 11:02:22 AM

USF03 8981

Formaldehyde Single



Sample Name:FORM41124AK AAFORM4AA ICAL 1118899999A

Instrument ID:CP09--F6259A
Injected on: 7/12/2011 11:03:44 AM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 1
Dilution Factor: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.07R
Analyst: 709

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.636	372571	1809031	.074	5559.829	Formaldehyde
3.221	218488	1243008	.086	9068.135	Acetaldehyde
3.399	31837	206035	.116	.	
4.107	219251	1421864	.099	.	
5.307	38	208	.124	.	
5.507	42	172	.063	.	
6.069	66330	704398	.147	9444.443	Butyraldehyde
6.64	35	314	.2	.	
7.824	46	252	.118	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.07A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
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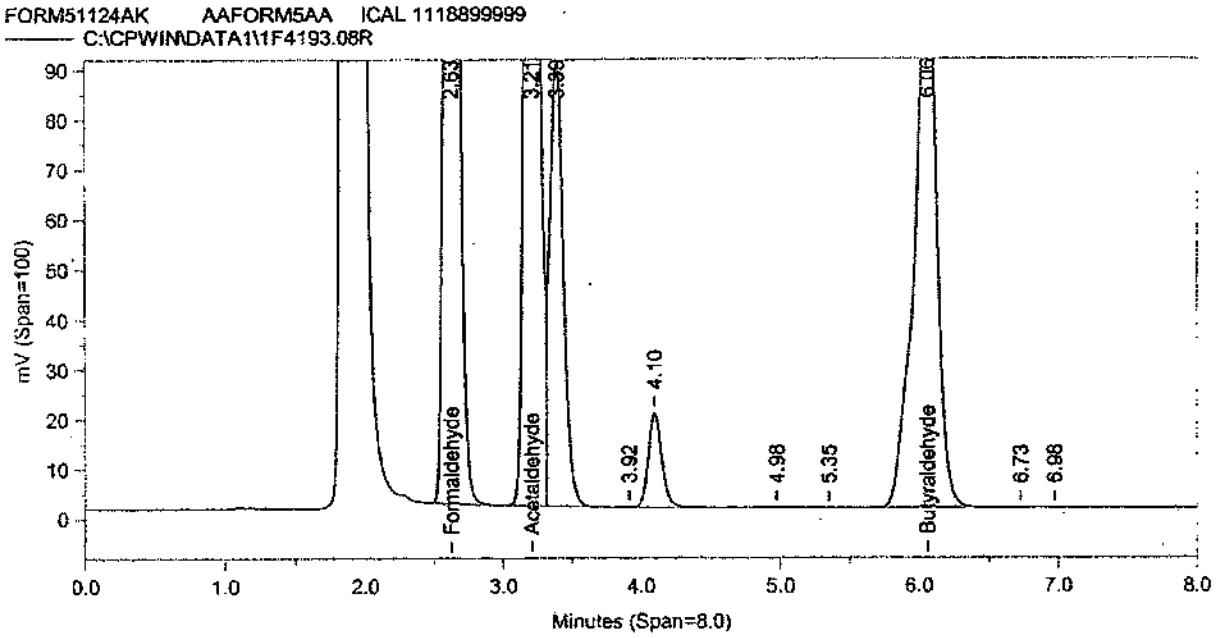
File reported on: 7/12/2011 at 11:11:53 AM

USP83 9982

Formaldehyde Single



Sample Name:FORM51124AK AAFORM5AA ICAL 1118899999A

Instrument ID:CP09—F6259A
Injected on: 7/12/2011 11:13:16 AM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 1
Dilution Factor: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.08R
Analyst: 709

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.627	610224	2993137	.074	9048.812	Formaldehyde
3.212	386317	2219218	.087	14916.52	Acetaldehyde
3.391	90222	594465	.117	.	
3.917	101	628	.108	.	
4.1	19015	127833	.101	.	
4.977	134	2109	.228	.	
5.348	52	297	.14	.	
6.061	117482	1235884	.146	14814.4	Butyraldehyde
6.732	72	376	.091	.	
6.975	139	1864	.231	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.08A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
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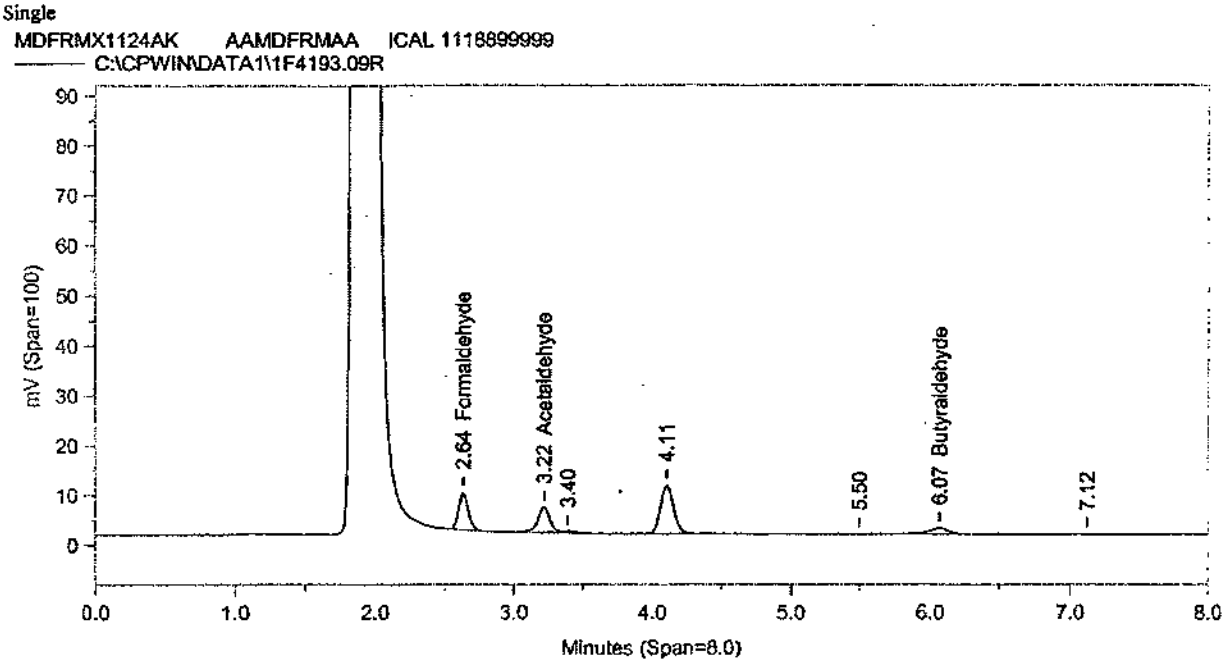
File reported on: 7/12/2011 at 11:21:25 AM

USP83 8983

Formaldehyde Single



Sample Name:MDFRMX1124AK AAMDFRMAA ICAL 1118899999A

Instrument ID:CP09--F6259A
Injected on: 7/12/2011 11:22:47 AM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 1
Dilution Factor: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.09R
Analyst: 709

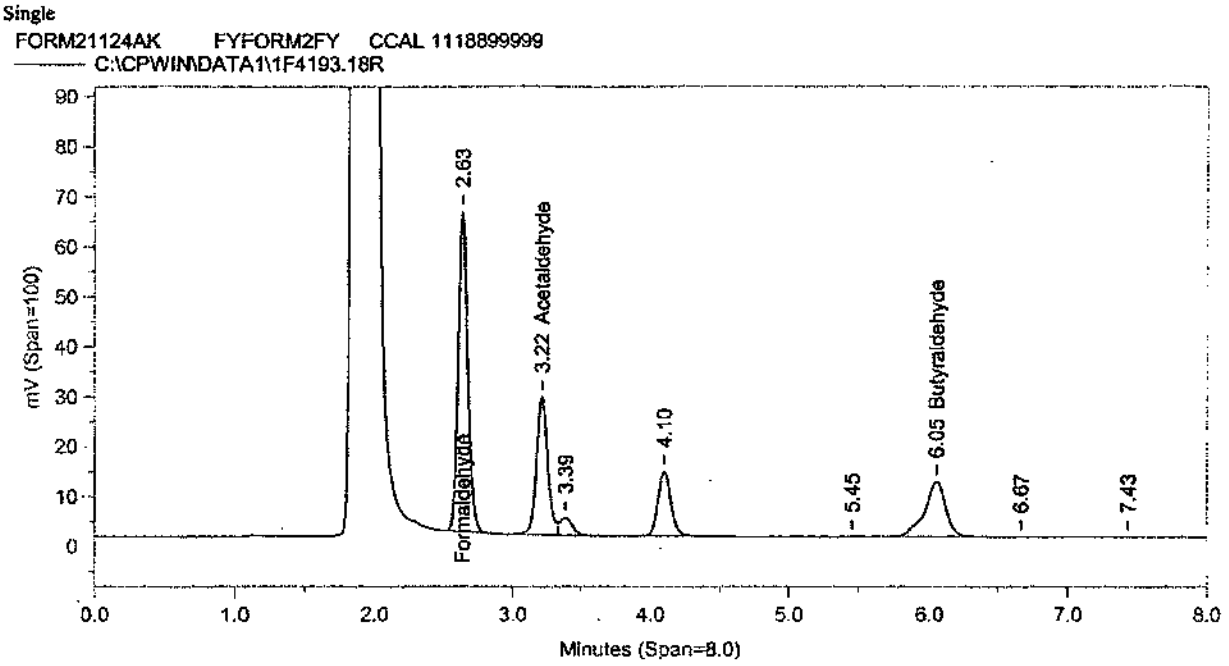
Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.635	7449	35754	.075	109.6552	Formaldehyde
3.22	5123	31769	.087	195.9691	Acetaldehyde
3.396	414	2715	.113	.	
4.105	9777	64142	.1	.	
5.497	39	234	.127	.	
6.067	1244	14243	.149	137.3809	Butyraldehyde
7.123	48	259	.11	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.09A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/12/2011 11:30:54 AM
File reported on: 7/12/2011 at 11:30:57 AM

USF83 9984

Formaldehyde Single



Sample Name:FORM21124AK FYFORM2FY CCAL 1118899999A

Instrument ID:CP09--F6259A
Injected on: 7/12/2011 12:48:35 PM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmXSum
Sample Amount: 1
Dilution Factor: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.18R
Analyst: 709

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.633	64516	309696	.074	934.8367	Formaldehyde
3.215	27654	160478	.086	756.9019	Acetaldehyde
3.39	3470	21280	.108	.	
4.099	12910	83724	.099	.	
5.453	45	633	.455	.	
6.051	11006	116052	.146	953.2885	Butyraldehyde
6.665	41	174	.101	.	
7.428	37	602	.413	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.18A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/12/2011 12:56:44 PM
File reported on: 7/12/2011 at 12:56:45 PM

USP83 8995

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp9\C-Drive\CPWIN\DATA1\1F4196.seq

Chromatography Directory: \\cp9\C-Drive\CPWIN\DATA1

Method Directory: \\cp9\C-Drive\CPWIN\data1

Number of Entries: 81

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1	CONDITIONER	MISC	AA	1F4196.01R	FORM.MET	1	1	1	0	1119599999	
2	CONDITIONER	MISC	AA	1F4196.02R	FORM.MET	1	1	1	0	1119599999	
3	FORM11124AL	ICAL	AA	1F4196.03R	FORM.MET	1	1	1	1	1119599999	
4	FORM21124AL	ICAL	AA	1F4196.04R	FORM.MET	1	1	1	2	1119599999	
5	FORM31124AM	ICAL	AA	1F4196.05R	FORM.MET	1	1	1	3	1119599999	
6	FORM41124AL	ICAL	AA	1F4196.06R	FORM.MET	1	1	1	4	1119599999	
7	FORM51124AL	ICAL	AA	1F4196.07R	FORM.MET	1	1	1	5	1119599999	
8	MDFRMX1124AL	ICAL	AA	1F4196.08R	FORM.MET	1	1	1	0	1119599999	
9	BLANKA 7/14/11	BLK	AA	1F4196.09R	FORM.MET	100	10	1	0	111950003A	04144
10	LCSA 7/14/11	LCS	AA	1F4196.10R	FORM.MET	100	10	1	0	111950003A	04144
11	LCSDA 7/14/11	LCSD	AA	1F4196.11R	FORM.MET	100	10	1	0	111950003A	04144
12	6341535	T	AA	1F4196.12R	FORM.MET	100	10	1	0	111950003A	04144
13	6342225	T	AA	1F4196.13R	FORM.MET	100	10	1	0	111950003A	04144
14	6343413	T	AA	1F4196.14R	FORM.MET	100	10	1	0	111950003A	04144
15	BLANKA 7/13/11L	BLK	AB	1F4196.15R	FORM.MET	20	20	1	0	111940004A	04173
16	LCSA 7/13/11L	LCS	AB	1F4196.16R	FORM.MET	20	20	1	0	111940004A	04173
17	LCSDA 7/13/11L	LCSD	AB	1F4196.17R	FORM.MET	20	20	1	0	111940004A	04173
18	6337203L	T	AB	1F4196.18R	FORM.MET	20	20	1	0	111940004A	04173
19	FORM31124AM	CCAL	MJ	1F4196.19R	FORMCC.MET	1	1	1	0	1119599999	
20	6337204L	T	AB	1F4196.20R	FORM.MET	20	20	1	0	111940004A	04173
21	6337205L	T	AB	1F4196.21R	FORM.MET	20	20	1	0	111940004A	04173
22	6337206L	T	AB	1F4196.22R	FORM.MET	22.1	20	1	0	111940004A	04173
23	6337207L	T	AB	1F4196.23R	FORM.MET	20	20	1	0	111940004A	04173
24	6337208L	T	AB	1F4196.24R	FORM.MET	20	20	1	0	111940004A	04173
25	6337209L	T	AB	1F4196.25R	FORM.MET	20	20	1	0	111940004A	04173
26	6337210L	T	AB	1F4196.26R	FORM.MET	20	20	1	0	111940004A	04173
27	6337211L	T	AB	1F4196.27R	FORM.MET	20	20	1	0	111940004A	04173
28	6337212L	T	AB	1F4196.28R	FORM.MET	20	20	1	0	111940004A	04173
29	6337213L	T	AB	1F4196.29R	FORM.MET	20	20	1	0	111940004A	04173
30	FORM31124AM	CCAL	MK	1F4196.30R	FORMCC.MET	1	1	1	0	1119599999	
31	6337214MSL	MS	AB	1F4196.31R	FORM.MET	20	20	1	0	111940004A	04173
32	6337215MSDL	MSD	AB	1F4196.32R	FORM.MET	20	20	1	0	111940004A	04173
33	6337220L	T	AB	1F4196.33R	FORM.MET	20	20	1	0	111940004A	04173
34	6337221L	T	AB	1F4196.34R	FORM.MET	20	20	1	0	111940004A	04173
35	BLANKA 7/13/11L	BLK	AB	1F4196.35R	FORM.MET	20	20	1	0	111940006A	04173
36	LCSA 7/13/11L	LCS	AB	1F4196.36R	FORM.MET	20	20	1	0	111940006A	04173
37	LCSDA 7/13/11L	LCSD	AB	1F4196.37R	FORM.MET	20	20	1	0	111940006A	04173
38	6338249L	T	AB	1F4196.38R	FORM.MET	20	20	1	0	111940006A	04173
39	6338250L	T	AB	1F4196.39R	FORM.MET	22.8	20	1	0	111940006A	04173
40	6338251L	T	AB	1F4196.40R	FORM.MET	22.9	20	1	0	111940006A	04173
41	FORM31124AM	CCAL	ML	1F4196.41R	FORMCC.MET	1	1	1	0	1119599999	
42	6338252L	T	AB	1F4196.42R	FORM.MET	20	20	1	0	111940006A	04173
43	6338253L	T	AB	1F4196.43R	FORM.MET	20	20	1	0	111940006A	04173
44	6338254MSL	MS	AB	1F4196.44R	FORM.MET	20	20	1	0	111940006A	04173
45	6338255MSDL	MSD	AB	1F4196.45R	FORM.MET	20	20	1	0	111940006A	04173
46	6338260L	T	AB	1F4196.46R	FORM.MET	20	20	1	0	111940006A	04173
47	6338261L	T	AB	1F4196.47R	FORM.MET	20	20	1	0	111940006A	04173
48	6338262L	T	AB	1F4196.48R	FORM.MET	22.1	20	1	0	111940006A	04173
49	6338263L	T	AB	1F4196.49R	FORM.MET	20	20	1	0	111940006A	04173
50	6338264L	T	AB	1F4196.50R	FORM.MET	20	20	1	0	111940006A	04173

NSF 03989

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CHROM PERFECT SEQUENCE FILE

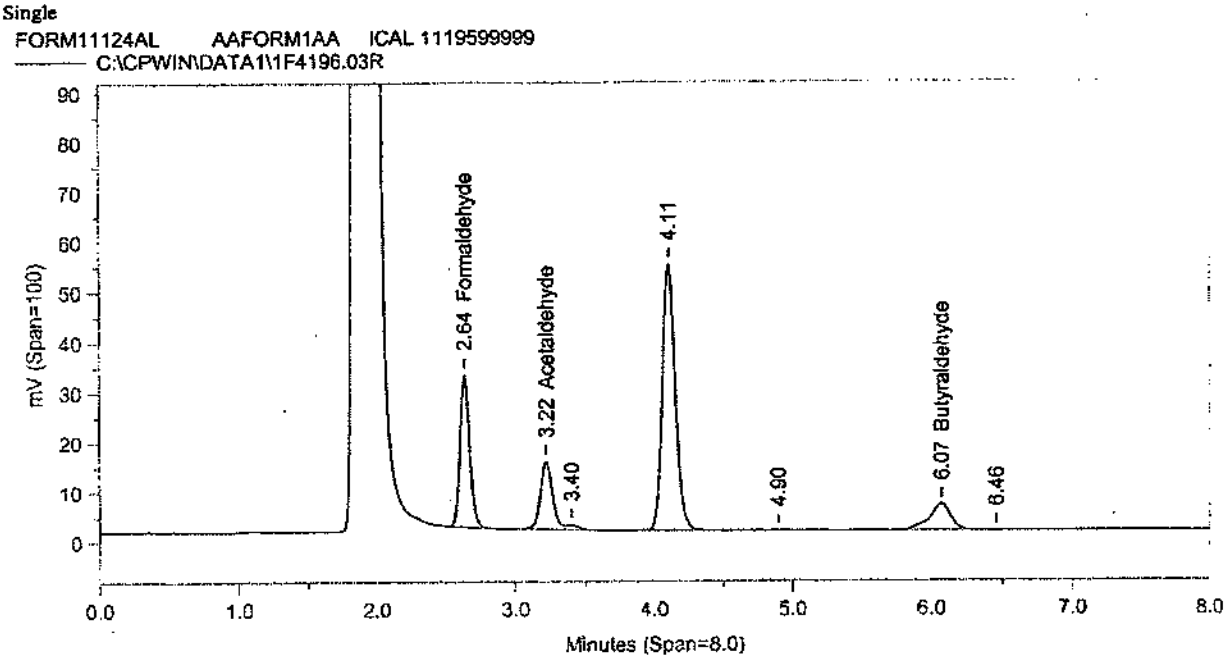
Sequence File: \\cp9\C-Drive\CPWIN\DATA1\1F4196.seq
Chromatography Directory: \\cp9\C-Drive\CPWIN\DATA1
Method Directory: \\cp9\C-Drive\CPWIN\data1
Number of Entries: 81

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51	6338265L	T	AB	1F4196.51R	FORM.MET	20	20	1	0	111940006A	04173
52	FORM31124AM	CCAL	MM	1F4196.52R	FORMCC.MET	1	1	1	0	1119599999	
53	BLANKA 7/14/11L	BLK	AB	1F4196.53R	FORM.MET	20	20	1	0	111950004A	04173
54	LCSA 7/14/11L	LCS	AB	1F4196.54R	FORM.MET	20	20	1	0	111950004A	04173
55	LCSDA 7/14/11L	LCSD	AB	1F4196.55R	FORM.MET	20	20	1	0	111950004A	04173
56	6339368L	T	AB	1F4196.56R	FORM.MET	20	20	1	0	111950004A	04173
57	6339369L	T	AB	1F4196.57R	FORM.MET	20	20	1	0	111950004A	04173
58	6339370L	T	AB	1F4196.58R	FORM.MET	20	20	1	0	111950004A	04173
59	6339371L	T	AB	1F4196.59R	FORM.MET	20	20	1	0	111950004A	04173
60	6339372L	T	AB	1F4196.60R	FORM.MET	20	20	1	0	111950004A	04173
61	6339373L	T	AB	1F4196.61R	FORM.MET	20	20	1	0	111950004A	04173
62	6339374L	T	AB	1F4196.62R	FORM.MET	20	20	1	0	111950004A	04173
63	FORM31124AM	CCAL	MM	1F4196.63R	FORMCC.MET	1	1	1	0	1119599999	
64	6339375L	T	AB	1F4196.64R	FORM.MET	20	20	1	0	111950004A	04173
65	6339376L	T	AB	1F4196.65R	FORM.MET	20	20	1	0	111950004A	04173
66	6339377L	T	AB	1F4196.66R	FORM.MET	20	20	1	0	111950004A	04173
67	6339378MSL	MS	AB	1F4196.67R	FORM.MET	20	20	1	0	111950004A	04173
68	6339379MSDL	MSD	AB	1F4196.68R	FORM.MET	20	20	1	0	111950004A	04173
69	6339384L	T	AB	1F4196.69R	FORM.MET	20	20	1	0	111950004A	04173
70	6339385L	T	AB	1F4196.70R	FORM.MET	20	20	1	0	111950004A	04173
71	6339386L	T	AB	1F4196.71R	FORM.MET	20	20	1	0	111950004A	04173
72	6339387L	T	AB	1F4196.72R	FORM.MET	20	20	1	0	111950004A	04173
73	FORM31124AM	CCAL	MM	1F4196.73R	FORMCC.MET	1	1	1	0	1119599999	
74	BLANKA 7/15/11	BLK	AA	1F4196.74R	FORM.MET	100	10	1	0	111960009A	04144
75	LCSA 7/15/11	LCS	AA	1F4196.75R	FORM.MET	100	10	1	0	111960009A	04144
76	LCSDA 7/15/11	LCSD	AA	1F4196.76R	FORM.MET	100	10	1	0	111960009A	04144
77	6342280	T	AA	1F4196.77R	FORM.MET	100	10	1	0	111960009A	04144
78	6343315	T	AA	1F4196.78R	FORM.MET	100	10	1	0	111960009A	04144
79	6345377	T	AA	1F4196.79R	FORM.MET	100	10	1	0	111960009A	04144
80	6345378	T	AA	1F4196.80R	FORM.MET	100	10	1	0	111960009A	04144
81	FORM31124AM	CCAL	MM	1F4196.81R	FORMCC.MET	1	1	1	0	1119599999	

USF83 8987

Set-up by: _____ Date: 7/15/11
7/15/11

Formaldehyde Single



Sample Name:FORM11124AL AAFORM1AA ICAL 1119599999A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.03R
Analyst: 1566

Injected on: 7/15/2011 3:20:39 PM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 1

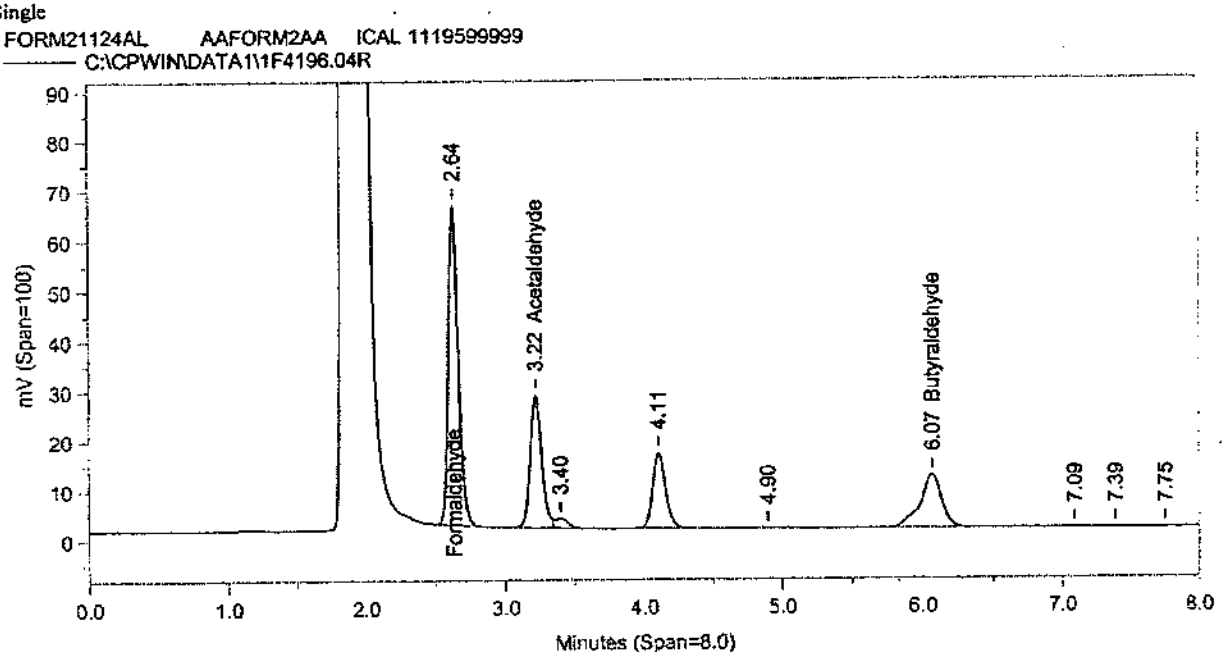
Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.636	30608	147478	.074	489.1662	Formaldehyde
3.222	13753	80520	.086	530.4943	Acetaldehyde
3.4	1036	6372	.106	.	
4.109	53200	343612	.098	.	
4.899	59	398	.118	.	
6.074	5243	55545	.146	593.9735	Butyraldehyde
6.455	46	1029	.522	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.03A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 3:28:46 PM
File reported on: 7/15/2011 at 3:28:48 PM

USF83 8988

Formaldehyde Single



Sample Name:FORM21124AL AAFORM2AA ICAL 1119599999A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.04R
Analyst: 1566

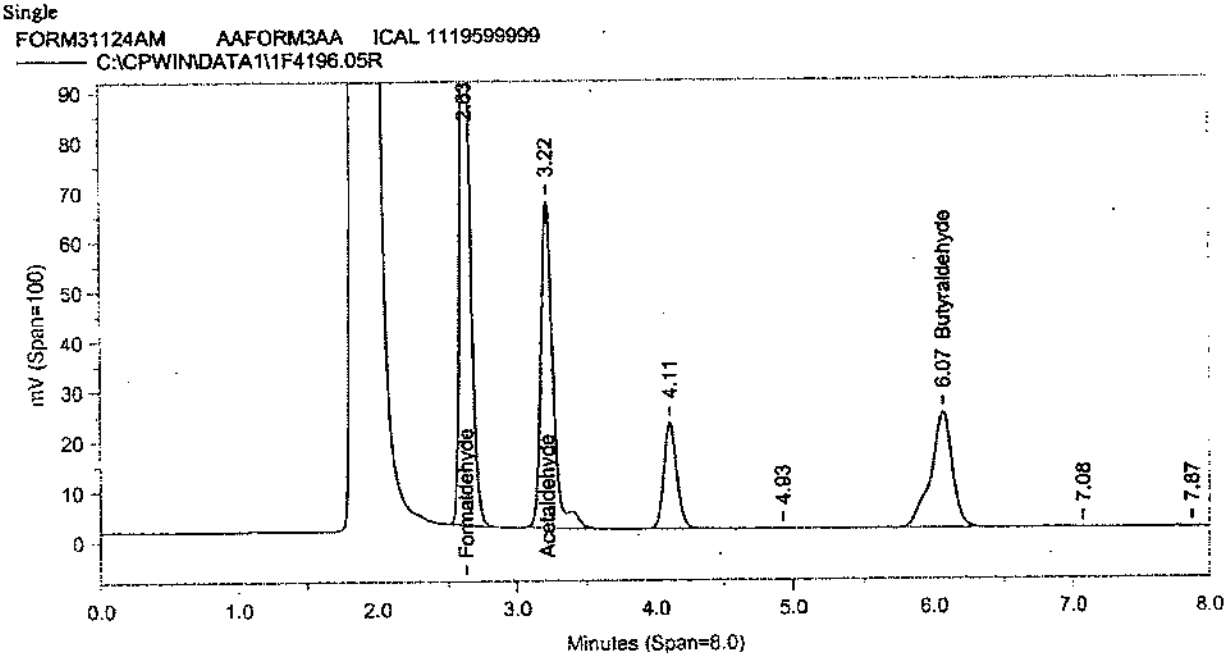
Injected on: 7/15/2011 3:30:11 PM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 1

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.636	64078	307814	.073	1025.829	Formaldehyde
3.22	26673	152643	.086	996.0267	Acetaldehyde
3.397	1948	12356	.111	.	
4.108	15106	98337	.099	.	
4.896	48	498	.273	.	
6.071	10625	111568	.145	1163.678	Butyraldehyde
7.094	53	539	.298	.	
7.386	55	443	.184	.	
7.75	31	162	.116	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.04A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 3:38:18 PM
File reported on: 7/15/2011 at 3:38:20 PM

Formaldehyde Single



Sample Name:FORM31124AM AAFORM3AA ICAL 1119599999A

Instrument ID:CP09--F6259A
Injected on: 7/15/2011 3:39:43 PM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 1
Dilution Factor: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.05R
Analyst: 1566

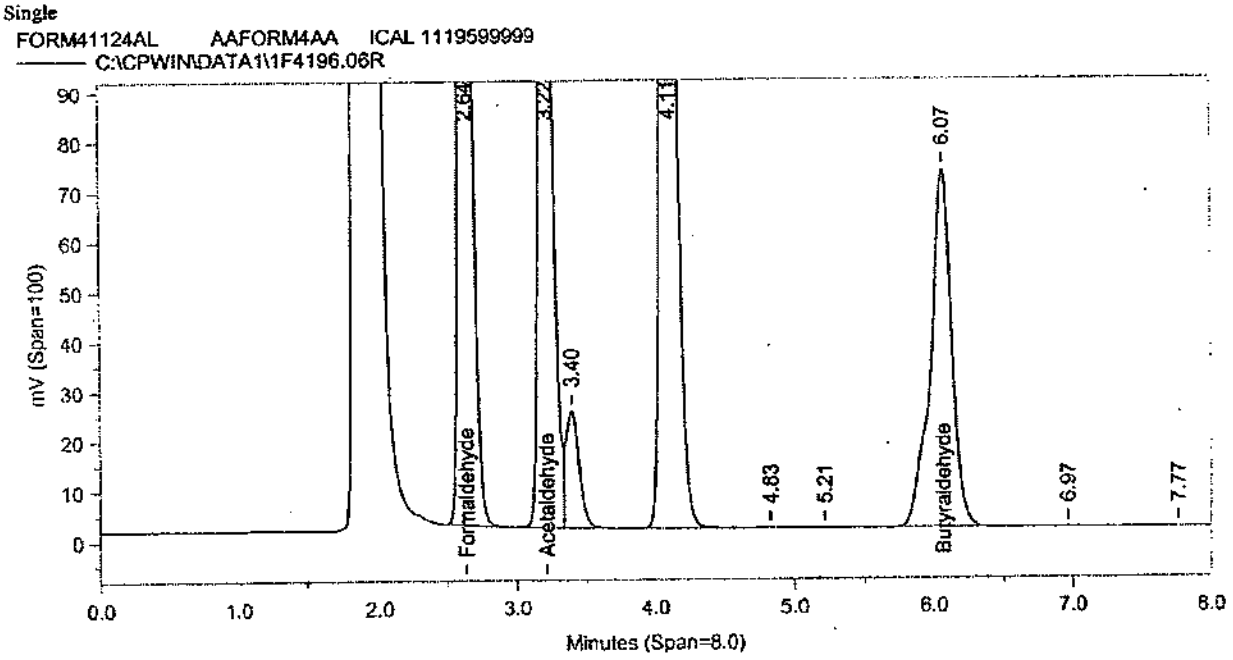
Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.635	133424	646534	.074	2125.332	Formaldehyde
3.219	65488	393849	.086	2363.634	Acetaldehyde
4.106	21212	137870	.099	.	
4.929	50	397	.141	.	
6.07	23013	247357	.147	2425.406	Butyraldehyde
7.079	48	476	.22	.	
7.872	55	236	.063	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.05A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 3:47:50 PM
File reported on: 7/15/2011 at 3:47:52 PM

USP63 8998

Formaldehyde Single



Sample Name:FORM41124AL AAFORM4AA ICAL 1119599999A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.06R
Analyst: 1566

Injected on: 7/15/2011 3:49:15 PM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 1

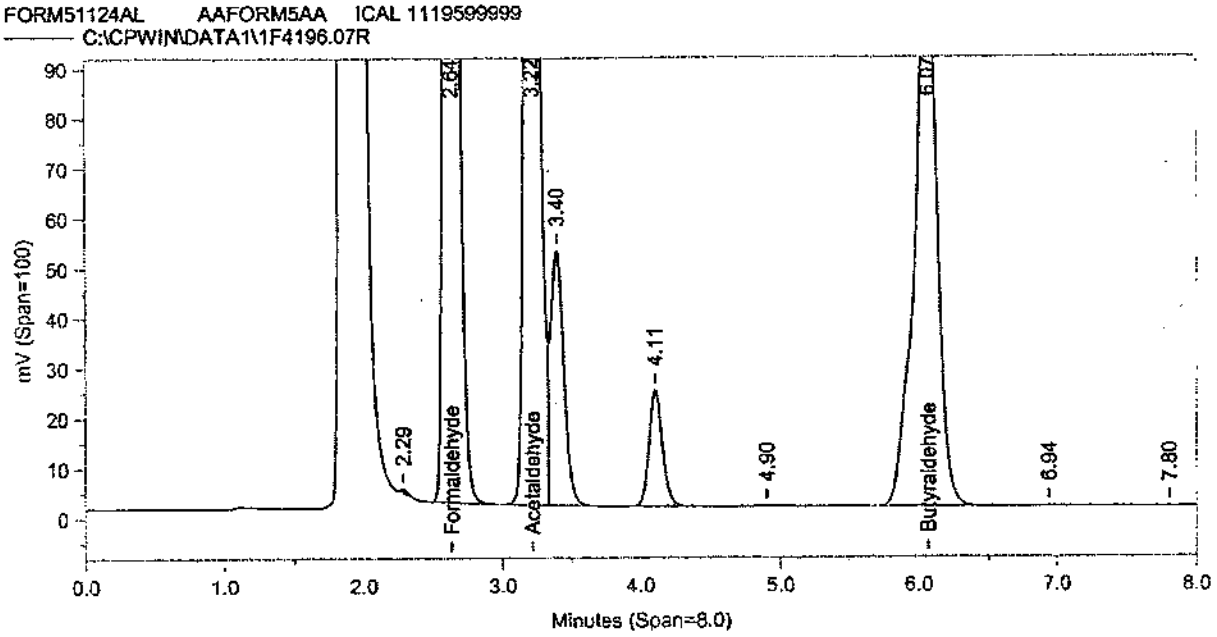
Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.637	384988	1874509	.074	6098.083	Formaldehyde
3.221	227822	1300996	.086	7860.515	Acetaldehyde
3.4	23351	146753	.109	-	
4.108	290268	1880345	.099	-	
4.834	21	184	.151	-	
5.214	49	764	.376	-	
6.071	71744	754770	.145	7134.717	Butyraldehyde
6.966	73	1240	.342	-	
7.765	31	267	.203	-	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.06A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 3:57:22 PM
File reported on: 7/15/2011 at 3:57:24 PM

USF03 8991

Formaldehyde Single



Sample Name:FORM51124AL AAFORM5AA ICAL 1119599999A

Instrument ID:CP09--F6259A
Injected on: 7/15/2011 3:58:47 PM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 1
Dilution Factor: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.07R
Analyst: 1566

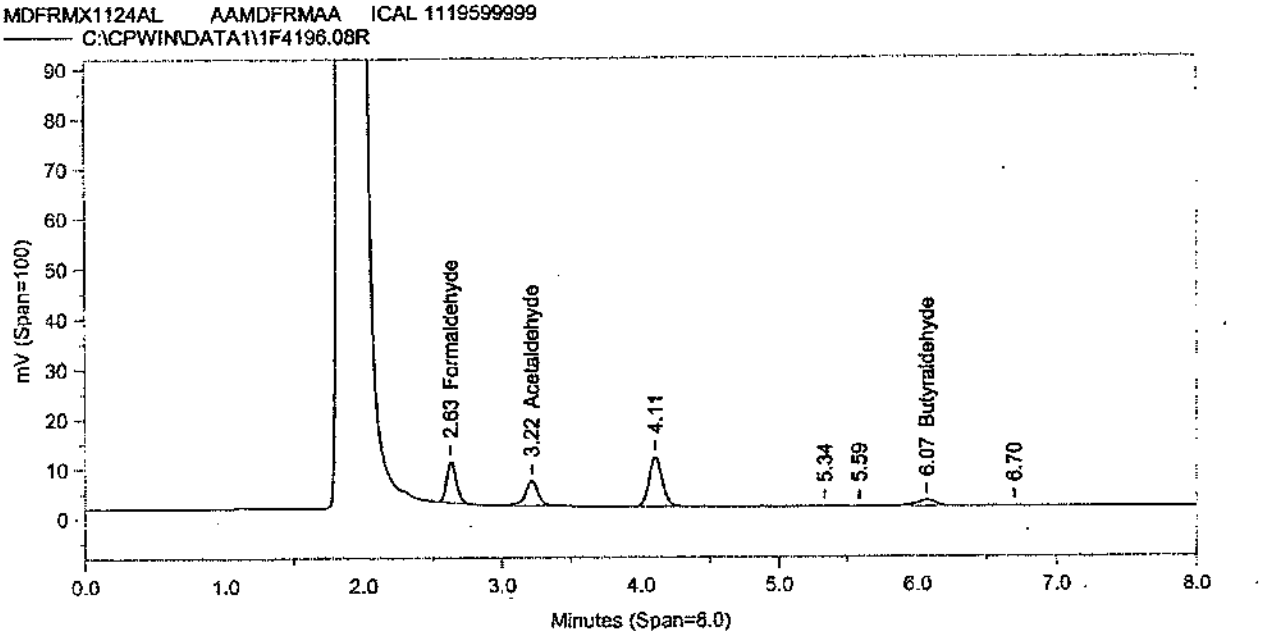
Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.291	703	1786	.065	.	
2.636	649483	3183202	.074	10269.12	Formaldehyde
3.22	394864	2257229	.087	12803.97	Acetaldehyde
3.399	51065	331361	.116	.	
4.107	23262	154751	.101	.	
4.903	207	2575	.214	.	
6.069	122558	1276927	.145	11423.04	Butyraldehyde
6.943	125	1695	.236	.	
7.8	38	85	.034	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.07A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 4:06:54 PM
File reported on: 7/15/2011 at 4:06:56 PM

USE83 9992

Formaldehyde Single



Sample Name:MDFRMX1124AL AAMDFRMAA ICAL 1119599999A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 1
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.08R
Analyst: 1566

Injected on: 7/15/2011 4:08:18 PM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 1

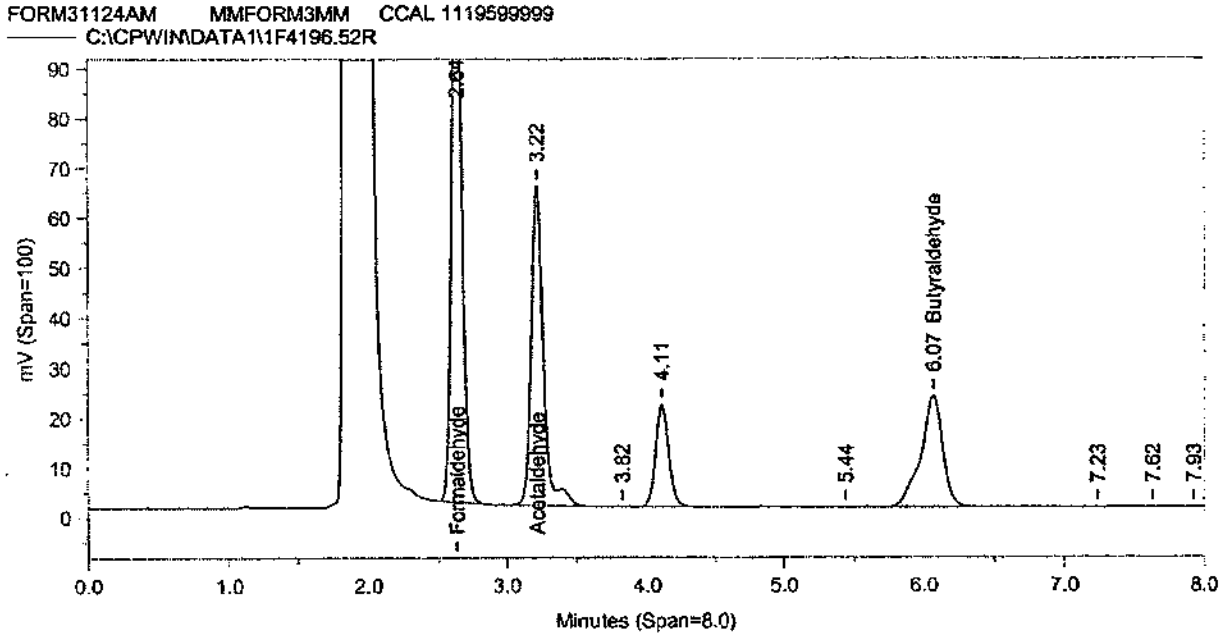
Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.635	8310	40001	.076	129.5281	Formaldehyde
3.219	5049	32756	.091	154.0396	Acetaldehyde
4.106	9995	64963	.099	.	
5.338	34	272	.175	.	
5.588	37	160	.064	.	
6.069	1237	14060	.151	108.3755	Butyraldehyde
6.697	57	1058	.416	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.08A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 4:16:28 PM
File reported on: 7/15/2011 at 4:16:30 PM

USF03 8993

Formaldehyde Single



Sample Name:FORM31124AM MMFORM3MM CCAL 1119599999A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 1

Injected on: 7/15/2011 11:08:53 PM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 1

Raw File: C:\CPWIN\DATA1\1F4196.52R
Analyst: 1566

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

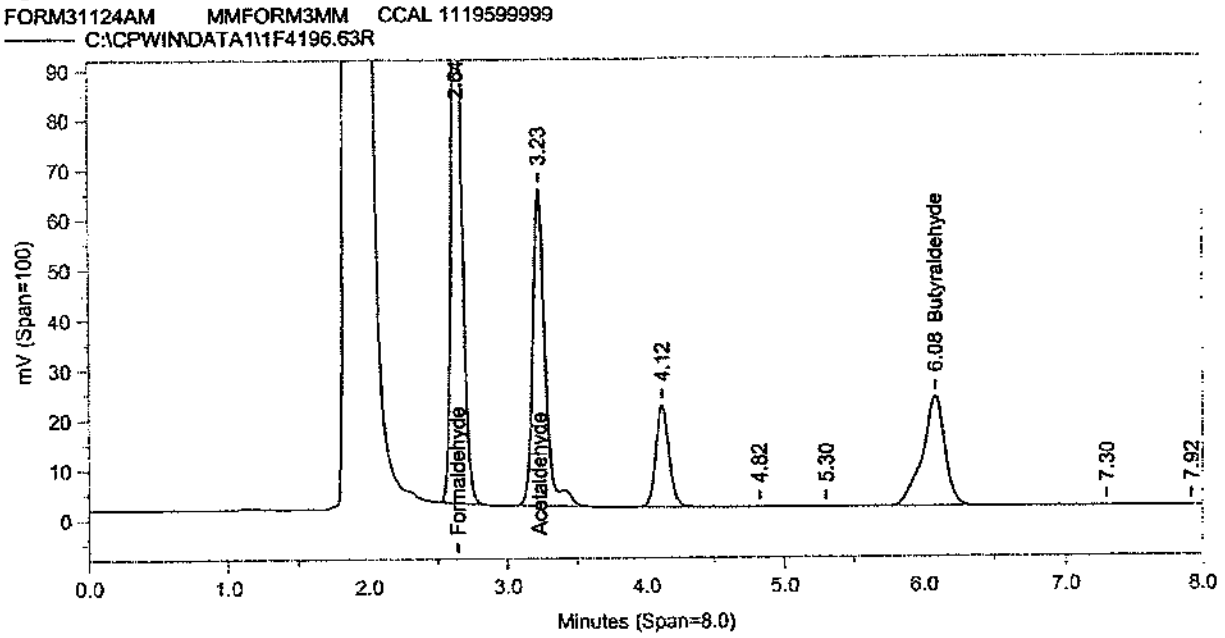
Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name	RPD
2.635	130638	639538	.074	2036.14	Formaldehyde	1.7
3.22	64003	390216	.087	1952.63	Acetaldehyde	-2.7
6.069	22301	245422	.153	1953.87	Butyraldehyde	-1.9

ERR

Files:
Area file: C:\CPWIN\DATA1\1F4196.52A
Method file: C:\CPWIN\DATA1\FORMCC.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORMCC.FMT
Area file created on: 7/15/2011 11:17:04 PM
File reported on: 7/15/2011 at 11:17:07 PM

U3F83 6994

Formaldehyde Single



Sample Name:FORM31124AM MMFORM3MM CCAL 1119599999A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 1

Injected on: 7/16/2011 12:53:44 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 1

Raw File: C:\CPWIN\DATA1\1F4196.63R
Analyst: 1566

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

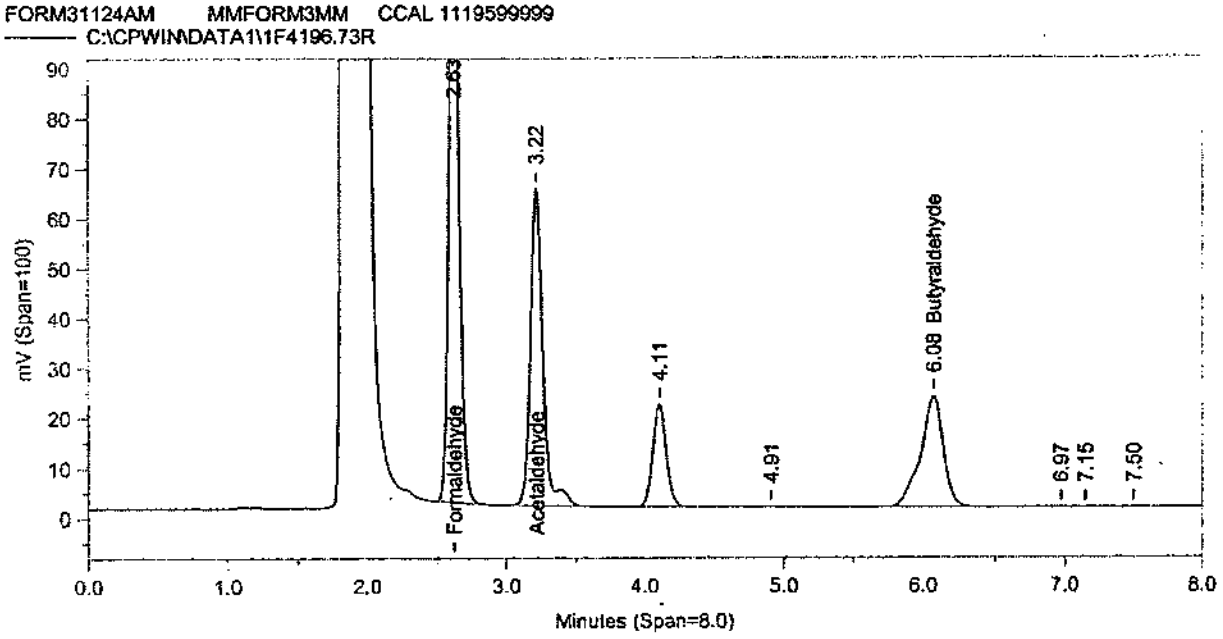
Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name	RPD
2.643	129919	640783	.075	2024.93	Formaldehyde	1.1
3.229	63436	389850	.088	1935.33	Acetaldehyde	-3.5
6.085	22036	245113	.156	1930.62	Butyraldehyde	-3.1

ERR

Files:
Area file: C:\CPWIN\DATA1\1F4196.63A
Method file: C:\CPWIN\DATA1\FORMCC.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORMCC.FMT
Area file created on: 7/16/2011 1:01:52 AM
File reported on: 7/16/2011 at 1:01:53 AM

USF03 0995

Formaldehyde Single



Sample Name:FORM31124AM MMFORM3MM CCAL 1119599999A

Instrument ID:CP09--F6259A
Injected on: 7/16/2011 2:29:03 AM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 1
Dilution Factor: 1

Raw File: C:\CPWIN\DATA1\1F4196.73R
Analyst: 1566

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name	RPD
2.629	129871	645725	.075	2024.19	Formaldehyde	1.1
3.215	63673	394598	.089	1942.56	Acetaldehyde	-3.2
6.076	22036	248003	.158	1930.63	Butyraldehyde	-3.1

ERR

Files:
Area file: C:\CPWIN\DATA1\1F4196.73A
Method file: C:\CPWIN\DATA1\FORMCC.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORMCC.FMT
Area file created on: 7/16/2011 2:37:12 AM
File reported on: 7/16/2011 at 2:37:13 AM

Raw QC Data

USF63 2997

Lancaster Laboratories-Single Component Data Summary

Sample Name: BLANKA 7/11/11 PBLK03192Sample ID: AA **Batchnumber: 111920003A**
Sample Amount: 100 mL Total Volume: 10 ml Analyst: 709 SDG: State:
Analyses: 04144

Analysis Report (A)

Injected on : JUL 12, 2011 11:32:20
Instrument : CP09--F6259A
Result file : 1F4193.10R
Calibration file : 1F4193.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : 94% (45-145) Conc.: 374.536407

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.63	2.83	2678	3.879934
Acetaldehyde	2.89	3.21	3.54	1323	6.831696
Butyraldehyde	5.76	6.06	6.41	43240	374.536407

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	3.879934	<50	<10			
☐ Acetaldehyde	A	6.831696					
☐ Butyraldehyde	A	374.536407					

Units: ug/l

Reviewed by: Michele D. Hamilton, Senior Chemist Group Leader
Date: JUL 12 2011

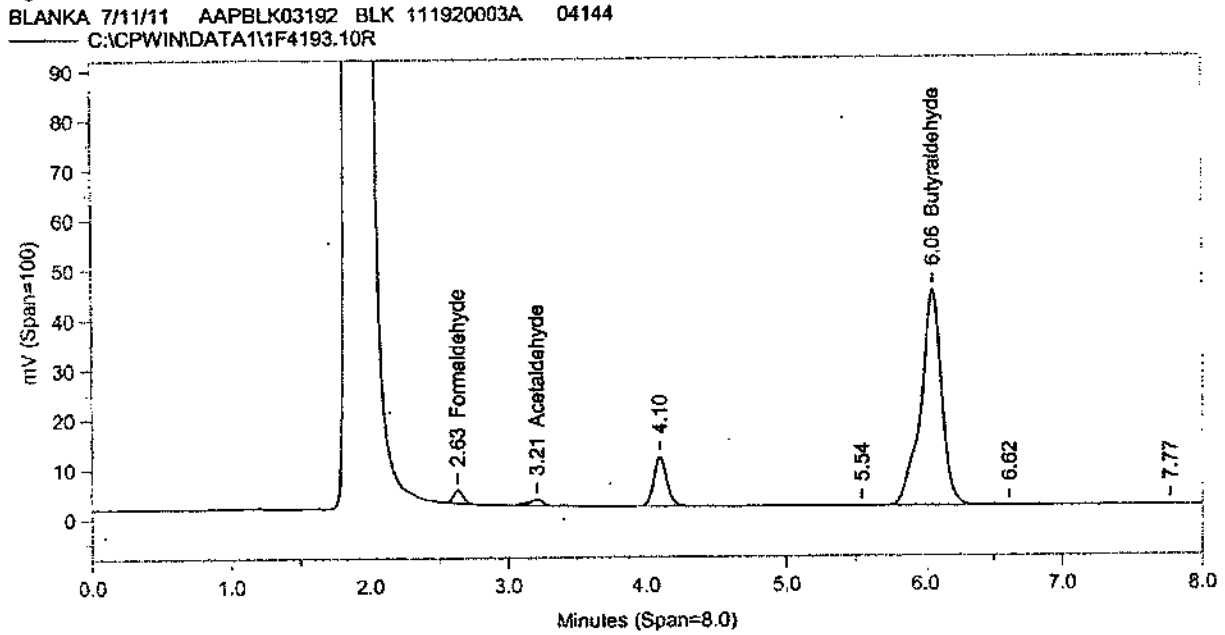
Verified by:
Date: 7.18.11

USF83 8998

* Recovery outside QC Limits

Printed on: 7/12/11 13:33:19

Formaldehyde Single



Sample Name:BLANKA 7/11/11 AAPBLK03192 BLK 111920003A 04144A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 100
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.10R
Analyst: 709

Injected on: 7/12/2011 11:32:19 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 10

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.634	2678	12630	.08	3.8799	Formaldehyde
3.215	1323	11167	.147	6.8317	Acetaldehyde
4.102	9875	64805	.1	-	
5.545	28	236	.187	-	
6.06	43240	455628	.146	374.5364	Butyraldehyde
6.617	46	1201	.501	-	
7.771	42	275	.157	-	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.10A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/12/2011 12:39:36 PM
File reported on: 7/12/2011 at 12:39:38 PM

USF83 0999

Lancaster Laboratories Single Component Data Summary

Sample Name: **LCSA** 7/11/11 LCS03192 Sample ID: AA **Batchnumber: 111920003A**
Sample Amount: 100 mL Total Volume: 10 ml Analyst: 709 SDG: State:
Analyses: 04144

Analysis Report (A)

Injected on : JUL 12, 2011 11:41:53
Instrument : CP09--F6259A
Result file : 1F4193.11R
Calibration file : 1F4193.CAL
Method file : FORM.MET
%SSR(Butyraldehyd : 86% (45-145) Conc.: 342.519562

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	310753	450.283234
Acetaldehyde	2.89	3.22	3.54	154336	406.979614
Butyraldehyde	5.76	6.06	6.41	39543	342.519562

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	450.283234	50	10			
☐ Acetaldehyde	A	406.979614					
☐ Butyraldehyde	A	342.519562					

Units: ug/l

Reviewed by: Michelle D. Hamilton, Senior Chemist Group Leader
Date: JUL 12 2011

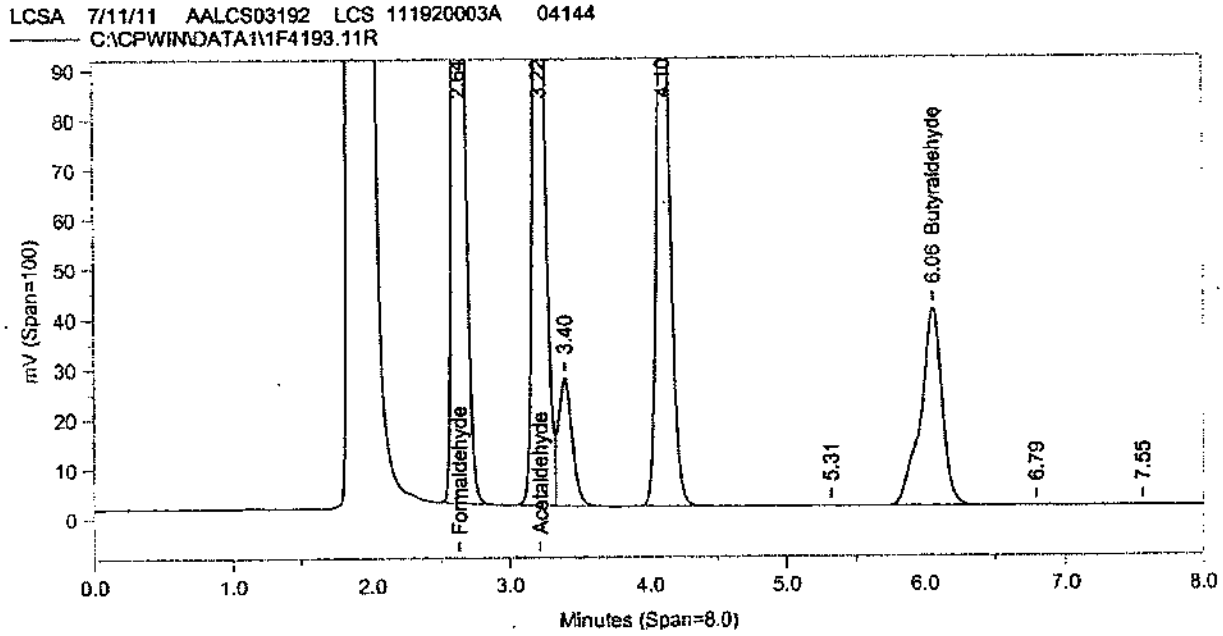
Verified by:
Date: 7-18-11

USF63 1888

* Recovery outside QC Limits

Printed on: 7/12/11 13:33:36

Formaldehyde Single



Sample Name:LCSA 7/11/11 AALCS03192 LCS 111920003A 04144A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 100
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.11R
Analyst: 709

Injected on: 7/12/2011 11:41:52 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 10

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.636	310753	1493347	.073	450.2832	Formaldehyde
3.219	154336	865848	.085	406.9796	Acetaldehyde
3.397	25617	167812	.121	.	
4.105	125774	808441	.098	.	
5.312	123	917	.129	.	
6.062	39543	422411	.147	342.5196	Butyraldehyde
6.791	44	313	.113	.	
7.552	33	347	.245	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.11A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/12/2011 12:39:50 PM
File reported on: 7/12/2011 at 12:39:51 PM

USF00 1981

Lancaster Laboratories-Single Component Data Summary

Sample Name: LCSDA 7/11/11 LCSD03192 Sample ID: AA **Batchnumber: 111920003A**
Sample Amount: 100 mL Total Volume: 10 ml Analyst: 709 SDG: State:
Analyses: 04144

Analysis Report (A)

Injected on : JUL 12, 2011 11:51:26
Instrument : CP09-F6259A
Result file : 1F4193.12R
Calibration file : 1F4193.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : 86.1% (45-145) Conc.: 343.033936

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.63	2.83	306264	443.779602
Acetaldehyde	2.89	3.22	3.54	151995	400.857941
Butyraldehyde	5.76	6.06	6.41	39603	343.033936

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	443.779602	50	10			
☐ Acetaldehyde	A	400.857941					
☐ Butyraldehyde	A	343.033936					

Units: ug/l

Reviewed by: Michele D. Hamilton, Senior Chemist Group Leader
Date: JUL 12 2011

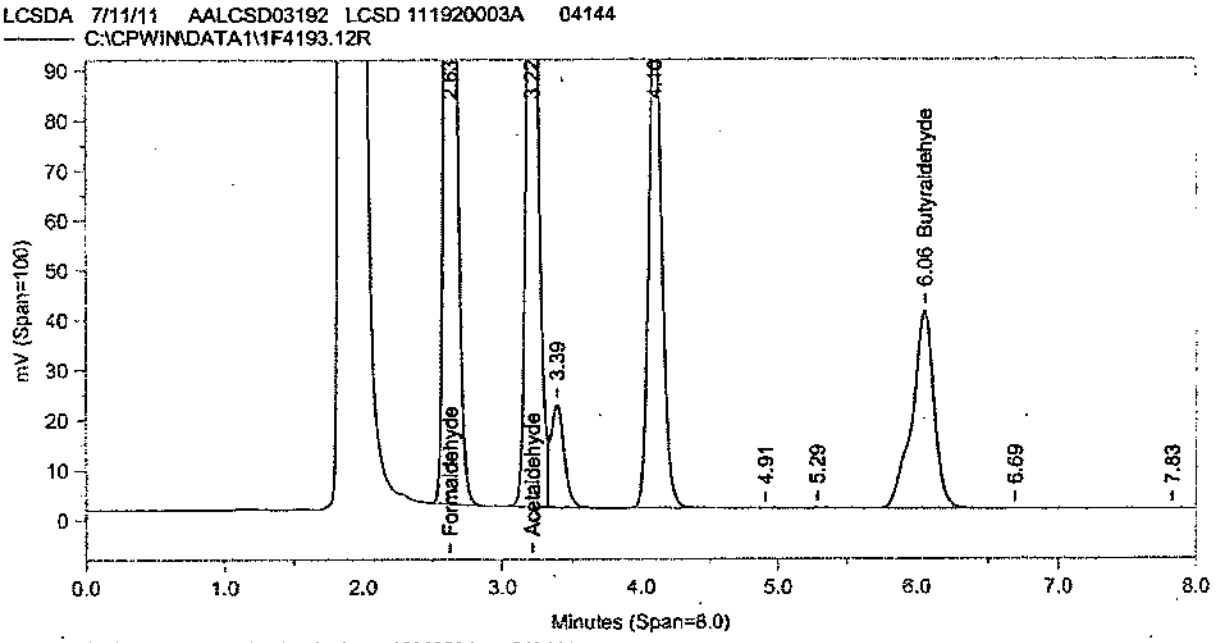
Verified by:
Date: 7-18-11

USF03 1882

* Recovery outside QC Limits

Printed on: 7/12/11 13:33:51

Formaldehyde Single



Sample Name:LCSDA 7/11/11 AALCSD03192 LCSD 111920003A 04144A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 100
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4193.12R
Analyst: 709

Injected on: 7/12/2011 11:51:25 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 10

Integration & Calculation Parameters:
Threshold: -t Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.633	306264	1483873	.074	443.7796	Formaldehyde
3.217	151995	861662	.086	400.8579	Acetaldehyde
3.393	20534	134585	.118	.	
4.102	101238	652719	.098	.	
4.91	80	880	.246	.	
5.286	94	1164	.174	.	
6.058	39603	426914	.148	343.0339	Butyraldehyde
6.691	27	204	.188	.	
7.828	45	228	.112	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4193.12A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4193.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/12/2011 12:40:02 PM
File reported on: 7/12/2011 at 12:40:04 PM

USF03 1503

Lancaster Laboratories Single Component Data Summary

Sample Name: BLANKA 7/14/11L PBLK04195 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: State:
Analyses: 04173

Analysis Report (A)

Injected on : JUL 15, 2011 23:18:25
Instrument : CP09--F6259A
Result file : 1F4196.53R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *184.3% (64-126) Conc.: 3669.58740
2 = 92%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.63	2.83	3311	51.610512
Acetaldehyde	2.90	3.22	3.55	1368	41.747341
Butyraldehyde	5.74	6.07	6.39	41884	3669.587402

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	51.610512	<1500	<600			
☐ Acetaldehyde	A	41.747341					
☐ Butyraldehyde	A	3669.587402					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

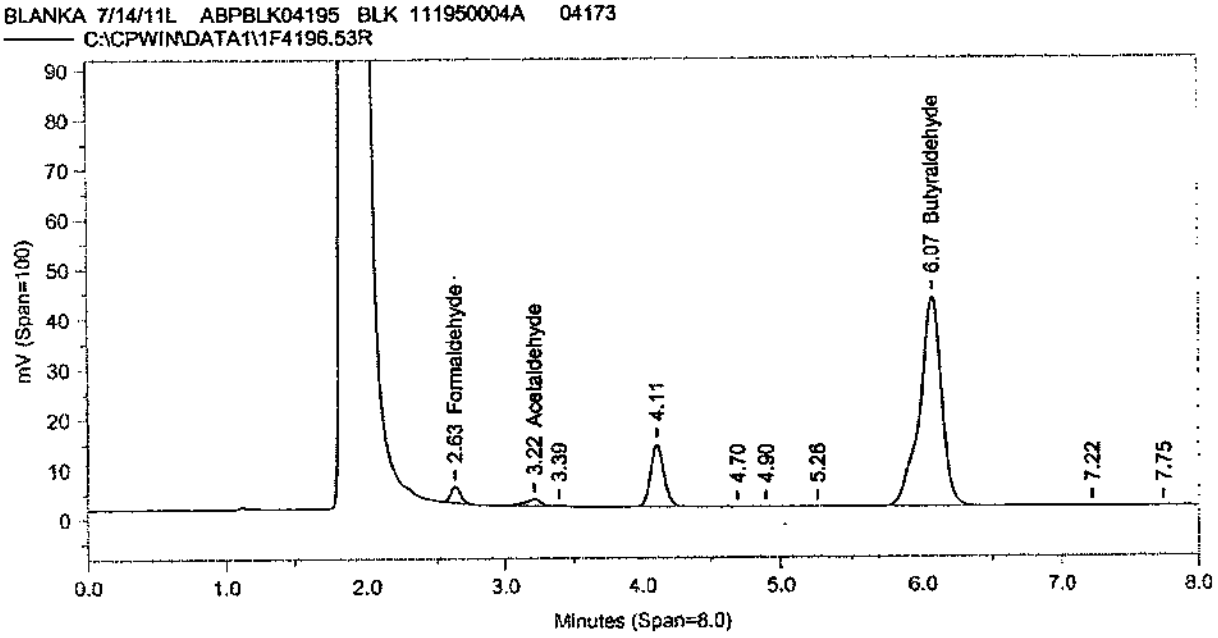
Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF93 1994

* Recovery outside QC Limits

Printed on: 7/17/11 14:53:56

Formaldehyde Single



Sample Name:BLANKA 7/14/11L ABPBLK04195 BLK 111950004A 04173A

Instrument ID:CP09--F6259A
Injected on: 7/15/2011 11:18:24 PM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 20
Dilution Factor: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.53R
Analyst: 1566

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.635	3311	16010	.082	51.6105	Formaldehyde
3.216	1368	11260	.135	41.7473	Acetaldehyde
3.393	185	1063	.107	.	
4.107	12521	83163	.101	.	
4.696	41	345	.149	.	
4.899	76	601	.182	.	
5.26	34	74	.037	.	
6.07	41884	450990	.151	3669.587	Butyraldehyde
7.225	39	181	.077	.	
7.747	43	323	.184	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.53A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 11:26:32 PM
File reported on: 7/15/2011 at 11:26:33 PM

USP83 1085

Lancaster Laboratories-Single Component Data Summary

Sample Name: **LCSA** 7/14/11L LCS04195 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: State:
Analyses: 04173

Analysis Report (A)

Injected on : JUL 15, 2011 23:27:56
Instrument : CP09-F6259A
Result file : 1F4196.54R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *173.7% (64-126) Conc.: 3458.49853!
2 = 87%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	300402	4682.095215
Acetaldehyde	2.90	3.22	3.55	161698	4933.149902
Butyraldehyde	5.74	6.08	6.39	39475	3458.498535

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	4682.095215	1500	600			
☐ Acetaldehyde	A	4933.149902					
☐ Butyraldehyde	A	3458.498535					

Units: ug/kg

James H. Place
Senior Chemist
Reviewed by: _____
Date: JUL 17 2011

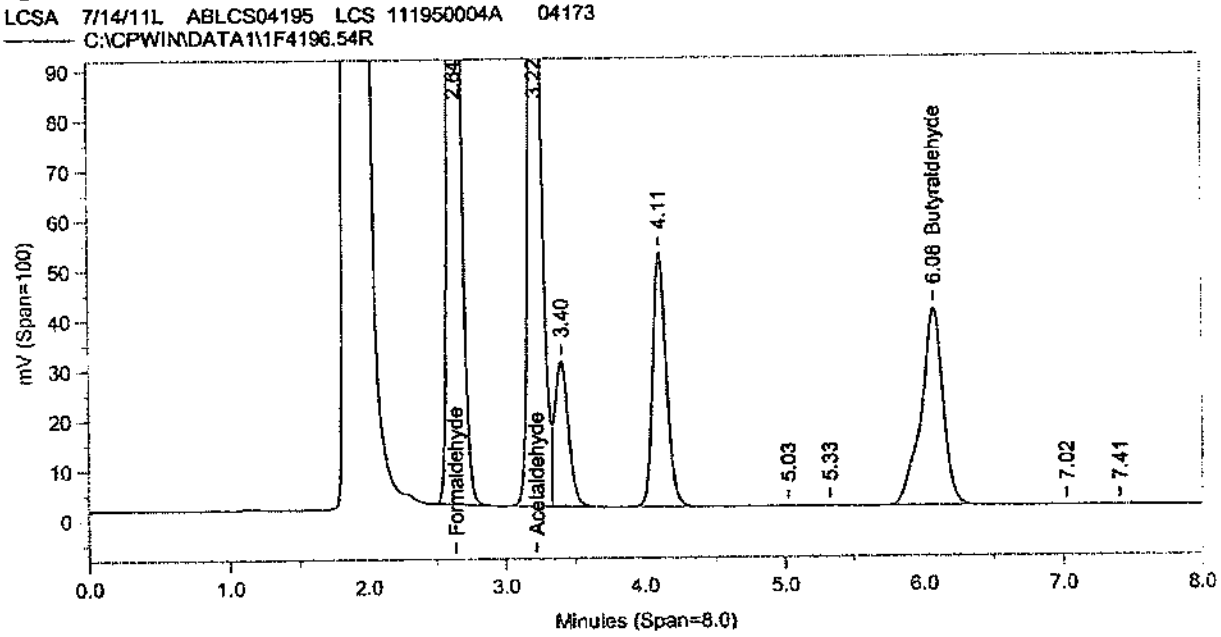
Valerie L. Tomayko
Principal Specialist
Verified by: _____
Date: JUL 19 2011

USF63 1886

* Recovery outside QC Limits

Printed on: 7/17/11 14:54:09

Formaldehyde Single



Sample Name:LCSA 7/14/11L ABLCS04195 LCS 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.54R
Analyst: 1566

Injected on: 7/15/2011 11:27:55 PM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.639	300402	1493412	.075	4682.095	Formaldehyde
3.224	161698	948586	.089	4933.15	Acetaldehyde
3.404	29061	192837	.121	-	
4.112	50919	340180	.101	-	
5.027	65	652	.25	-	
5.329	210	1918	.146	-	
6.076	39475	434396	.154	3458.499	Butyraldehyde
7.025	71	972	.259	-	
7.411	44	294	.166	-	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.54A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 11:36:02 PM
File reported on: 7/15/2011 at 11:36:04 PM

USF03 1887

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSDA 7/14/11L LCSD04195 **Sample ID:** AB **Batchnumber:** 111950004A
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: State:
Analyses: 04173

Analysis Report (A)

Injected on : JUL 15, 2011 23:37:30
Instrument : CP09-F8259A
Result file : 1F4196.55R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *179.9% (64-126) Conc.: 3582.22583
2 = 90%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	315630	4919.453613
Acetaldehyde	2.90	3.22	3.55	164305	5012.689941
Butyraldehyde	5.74	6.07	6.39	40887	3582.225830

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	4919.453613	1500	600			
☐ Acetaldehyde	A	5012.689941					
☐ Butyraldehyde	A	3582.225830					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

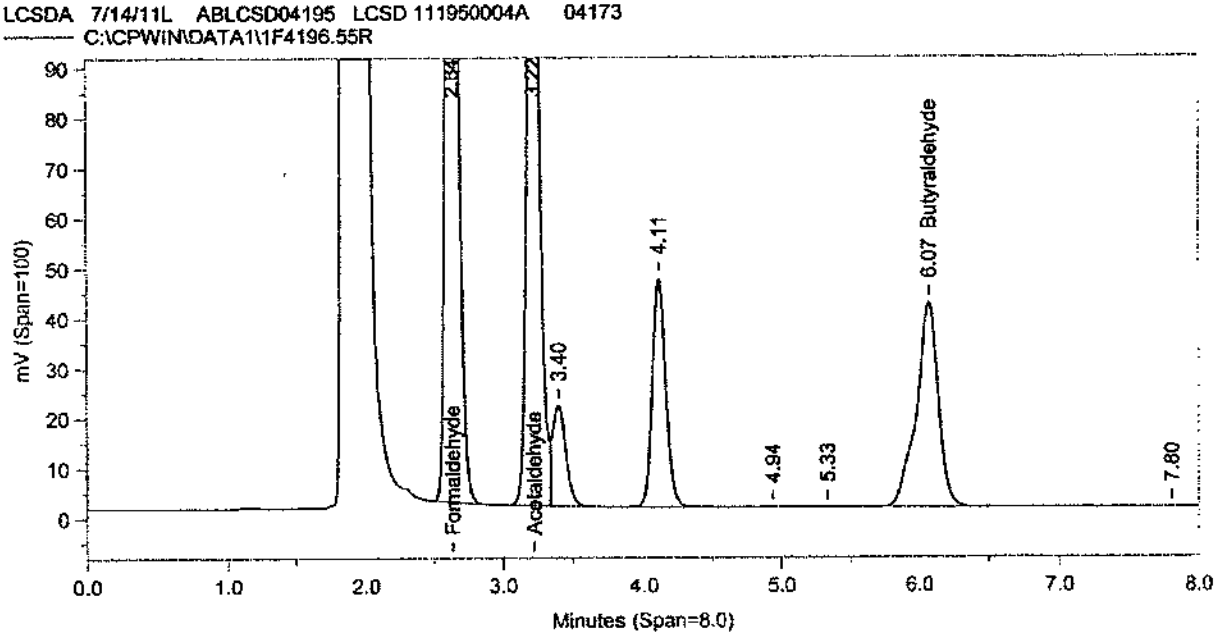
Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

03F83 1288

* Recovery outside QC Limits

Printed on: 7/17/11 14:54:22

Formaldehyde Single



Sample Name:LCSDA 7/14/11L ABLCSD04195 LCSD 111950004A 04173A

Instrument ID:CP09--F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.55R
Analyst: 1566

Injected on: 7/15/2011 11:37:29 PM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.638	315630	1554888	.075	4919.454	Formaldehyde
3.222	164305	955562	.088	5012.69	Acetaldehyde
3.402	20170	128054	.112	.	
4.111	45854	304841	.101	.	
4.936	71	977	.329	.	
5.333	191	1709	.143	.	
6.075	40887	450499	.154	3582.226	Butyraldehyde
7.8	38	316	.222	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.55A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/15/2011 11:45:36 PM
File reported on: 7/15/2011 at 11:45:38 PM

USP93 1889

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339378 MSL 82S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 01:31:55
Instrument : CP09--F6259A
Result file : 1F4196.67R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *144.7% (64-126) Conc.: 2882.25390(
2 = 72%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	299240	4663.990723
Acetaldehyde	2.90	3.23	3.55	154285	4707.004395
Butyraldehyde	5.74	6.08	6.39	32898	2882.253906

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	4663.990723	1500	600			
☐ Acetaldehyde	A	4707.004395					
☐ Butyraldehyde	A	2882.253906					

Units: ug/kg

Reviewed by: James H. Place, Senior Chemist
Date: JUL 17 2011

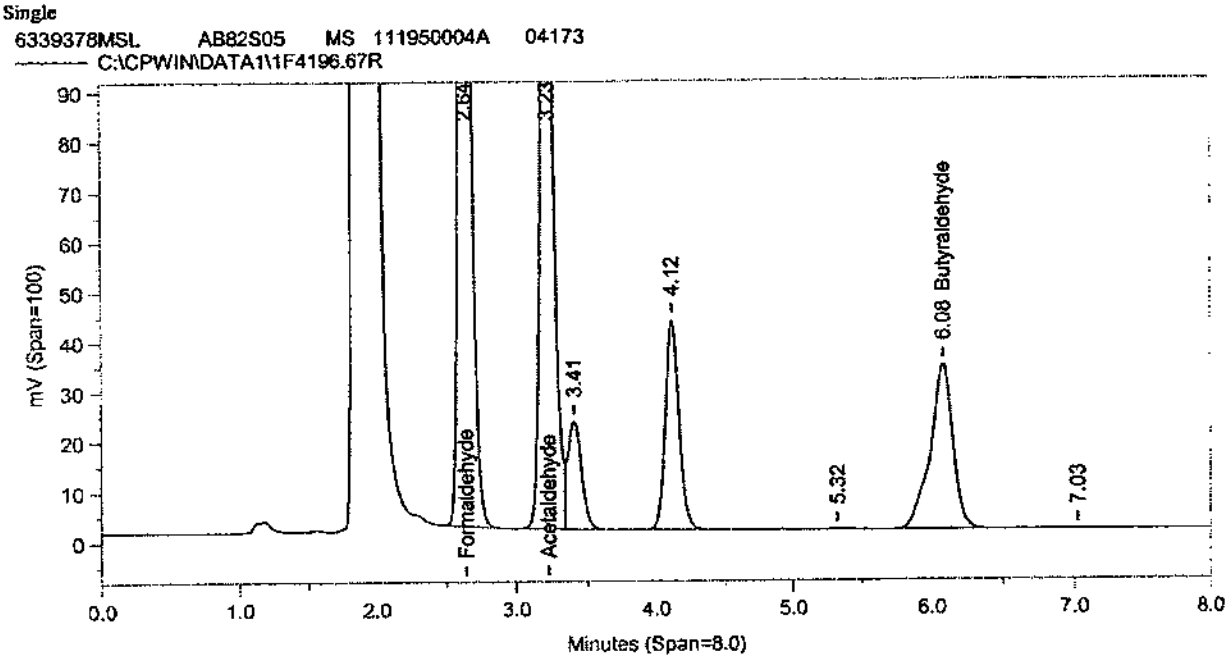
Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 19 2011

USF03 1819

* Recovery outside QC Limits

Printed on: 7/17/11 14:57:09

Formaldehyde Single



Sample Name:6339378MSL AB82S05 MS 111950004A 04173A

Instrument ID:CP09—F6259A
Volume Inj. per column: 1
Sample Amount: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.67R
Analyst: 1566

Injected on: 7/16/2011 1:31:54 AM
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Dilution Factor: 20

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.641	299240	1483977	.075	4663.991	Formaldehyde
3.227	154285	902466	.088	4707.004	Acetaldehyde
3.408	21581	141566	.118	-	
4.116	41986	281034	.102	-	
5.322	170	1449	.142	-	
6.084	32898	364530	.155	2882.254	Butyraldehyde
7.026	54	367	.14	-	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.67A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 1:40:02 AM
File reported on: 7/16/2011 at 1:40:03 AM

USF&G 1811

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339379 MSDL 82S05 Sample ID: AB **Batchnumber: 111950004A**
Sample Amount: 20 g Total Volume: 20 ml Analyst: 1566 SDG: USF03 State: CA
Analyses: 04173

Analysis Report (A)

Injected on : JUL 16, 2011 01:41:27
Instrument : CP09-F6259A
Result file : 1F4196.68R
Calibration file : 1F4196.CAL
Method file : FORM.MET

%SSR(Butyraldehyd : *171.4% (64-126) Conc.: 3412.84057(
2 = 86%

Peak name	Min	R.T.	Max	Height	Amount
Formaldehyde	2.44	2.64	2.83	312725	4874.163574
Acetaldehyde	2.90	3.23	3.55	159798	4875.182617
Butyraldehyde	5.74	6.09	6.39	38954	3412.840576

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Formaldehyde	A	4874.163574	1500	600			
☐ Acetaldehyde	A	4875.182617					
☐ Butyraldehyde	A	3412.840576					

Units: ug/kg

James H. Place
Senior Chemist
Reviewed by: _____
Date: JUL 17 2011

Valerie L. Tomayko
Principal Specialist
Verified by: _____
Date: JUL 19 2011

USF03 1812

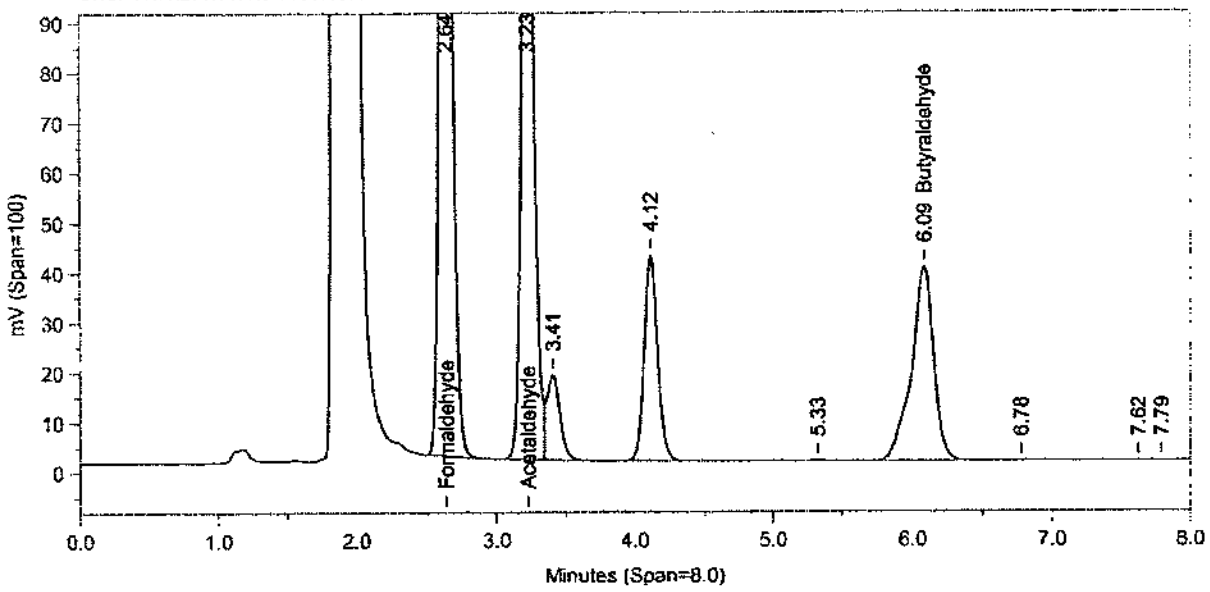
* Recovery outside QC Limits

Printed on: 7/17/11 14:57:22

Formaldehyde Single

6339379MSDL AB82S05 MSD 111950004A 04173

C:\CPWIN\DATA1\1F4196.68R



Sample Name:6339379MSDL AB82S05 MSD 111950004A 04173A

Instrument ID:CP09--F6259A
Injected on: 7/16/2011 1:41:26 AM
Volume Inj. per column: 1
HPLC Column ID: Supelcosil LC-18 250mmX4.6mmX5um
Sample Amount: 20
Dilution Factor: 20
Heading 2 = 60%ACN:40%NaC2H3O2
Raw File: C:\CPWIN\DATA1\1F4196.68R
Analyst: 1566

Integration & Calculation Parameters:
Threshold: -1 Area Width: 0.1 Area Reject: 0
Calib. Type: External Quantitation: HEIGHT

Ret Time (min)	Peak Height	Peak Area	Peak Width	Amount ppb	Peak Name
2.64	312725	1546639	.075	4874.164	Formaldehyde
3.226	159798	930033	.088	4875.183	Acetaldehyde
3.407	17045	112390	.118	.	
4.116	41163	274412	.101	.	
5.326	176	1633	.13	.	
6.085	38954	428000	.154	3412.841	Butyraldehyde
6.778	45	260	.101	.	
7.622	38	231	.162	.	
7.792	41	319	.213	.	

FILES:
Area file: C:\CPWIN\DATA1\1F4196.68A
Method file: C:\CPWIN\DATA1\FORM.MET
Calibration File: C:\CPWIN\DATA1\1F4196.CAL
Format File: C:\CPWIN\DATA1\FORM.FMT
Area file created on: 7/16/2011 1:49:34 AM
File reported on: 7/16/2011 at 1:49:36 AM

USP83 1813

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog Assigned to: 2125 Kelli Barto

Reviewed by: mnhon Start Date: 7/11/11 Start time: 14:30

111920003A

Tech 1: KMB2125 Tech 2: _____

Dept: 24 Prep Analysis: 01013 Formaldehyde Extraction Formaldehyde in Water

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANKA	PBLK03192	100	SS1117424A	1.0			10	5	2	2	DI H2O
LCSA	LCS03192	100	SS1117424A	1.0	MS1117424A	1.0	10	5			
LCSDA	LCSD03192	100	SS1117424A	1.0	MS1117424A	1.0	10	5			

Solvent Used	Lot No.
5M Acetate Buffer	212061611D
Acetonitrile	111753
SPE cartridge	142554
dilute buffer	2770 7911A

Start Time: 15:00
Stop Time: 16:00

Spike Solutions: Witness: KMB2125
MS1117424A FORMALDEHYDE SPIKE
SS1117424A FORMALDEHYDE SURROGATE

Sample #	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1 6339388	EBQ03	100	SS1117424A	1.0	10	5	—	104		04144	07/20/2011	S

Std. 1	100	NA	NA	10	5	NA	NA	+1.0mL IN1117824B	- Form1 11 24 AK
Std. 2	100			10	5			+1.0mL	C - Form2 11 24 AK
Std. 3	100			10	5			+1.0mL	D Form3 11 24 AK
Std. 4	100			10	5			+1.0mL	E - Form4 11 24 AK
Std. 5	100			10	5			+1.0mL	F - Form5 11 24 AK
MDL	100			10	5			+1.0mL	G MDFRM 11 24 K

KMB2125 7/11/11

Rack ID:		Work Station	Form. Room
Internal Standard		Balance #	15

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	111920003A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Organic Extraction Batchlog Assigned to: 2125 Kelli Barto

Reviewed by: [illegible] Start Date: 7/15/11 Start time: 13:45

111950004A

Tech 1: KMB2125 Tech 2: _____

Dept: 24 Prep Analysis: 05876 Formaldehyde Solid Extraction — Formaldehyde in Solids

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6339378MS	82S05	100	~~SS1117424A~~	1.0	~~MS1118224C~~ *	1.0	10	5	Z	21A	clear
6339379MSD	82S05	100	SS1117424A	1.0	~~MS1118224C~~ *	1.0	10	5	Z	21A	↓
BLANKA	PBLK04195	100	SS1117424A	1.0			10	5	Z		QC fluid
LCSA	LCS04195	100	SS1117424A	1.0	~~MS1118224C~~ *	1.0	10	5	Z	2	
LCSDA	LCSD04195	100	~~SS1117424A~~	1.0	~~MS1118224C~~ *	1.0	10	5	Z	2	↓

③ KMB2125 7/15/11

Start Time: 14:30
Stop Time: 15:30

Solvent Used	Lot No.
5M acetate buffer	212507141110
Acetonitrile	111753
Extraction fluid	212507141A
Filter paper	49768
SPE cartridge	1C12554
dilute buffer	212507141E

Spike Solutions: Witness: [illegible]

~~MS1118224C~~ * FORMALDEHYDE SPIKE

~~SS1117424A~~ ② FORMALDEHYDE SURROGATE

Sample #	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1 6339368	15S05	100	~~SS1117424A~~	1.0	10	5	Z	21A	clear yellow	04173	07/22/2011	S
2 6339369	16S-5	100	SS1117424A	1.0	10	5	Z	21A	yellow	04173	07/22/2011	S
3 6339370	17S05	100	SS1117424A	1.0	10	5	Z	21A		04173	07/22/2011	S
4 6339371	18S05	100	SS1117424A	1.0	10	5	Z	21A	yellow	04173	07/22/2011	S
5 6339372	19S05	100	SS1117424A	1.0	10	5	Z	21A		04173	07/22/2011	S
6 6339373	20S05	100	SS1117424A	1.0	10	5	Z	21A	yellow	04173	07/22/2011	S
7 6339374	21S05	100	SS1117424A	1.0	10	5	Z	21A	yellow	04173	07/22/2011	S
8 6339375	74S05	100	SS1117424A	1.0	10	5	Z	21A		04173	07/22/2011	S
9 6339376	74S45	100	SS1117424A	1.0	10	5	Z	21A		04173	07/22/2011	S
10 6339377BKG	82S05	100	SS1117424A	1.0	10	5	Z	21A	↓	04173	07/22/2011	S
11 6339384	82S05	100	SS1117424A	1.0	10	5	Z	NA	RL LCS - 0.33mL ~~MS1118224C~~ *	04173	07/22/2011	S
12 6339385	82S40	100	SS1117424A	1.0	10	5	Z	21A	clear	04173	07/22/2011	S
13 6339386	87S05	100	SS1117424A	1.0	10	5	Z	21A	yellow	04173	07/22/2011	S
14 6339387	87S40	100	~~SS1117424A~~	1.0	10	5	Z	21A	↓	04173	07/22/2011	S

② KMB2125 7/15/11

* MS1119624A

② SS1119224A

KMB2125 7/15/11

Rack ID:		Work Station	Form Room
Internal Standard		Balance #	15

S-bath ID C S-bath ID C N-Evap C M-vap C 111950004A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Prep-Process Worksheet

Leachate

Prep: 05876 Formaldehyde Solid Extraction

Batch No: 111950004A

Verified: [illegible]
Start Date: 7/14/11
Start Time: 12:00
Tech 1: KMBUCK
Tech 2: _____

	Sample #	QC	Aliquot(mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	6339368		20.0	200				04173
2	6339369		20.0	200				04173
3	6339370		20.0	200			End Time 14:00	04173
4	6339371		20.0	200			End Time 0820	04173
5	6339372		20.0	200				04173
6	6339373		20.0	200				04173
7	6339374		20.0	200				04173
8	6339375		20.0	200				04173
9	6339376		20.0	200				04173
10	6339377		20.0	200				04173
11	6339378	MS	20.0	200				04173
12	6339379	MSD	20.0	200				04173
13	6339384		20.0	200				04173
14	6339385		20.0	200				04173
15	6339386		20.0	200				04173
16	6339387		20.0	200				04173
17	BLANKA		20.0	200				
18	LCSA		20.0	200				
19	LCSDA		20.0	200				

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
Ether	7258714		

USP83 1817

Organic Extraction Batchlog

Prep Analysis #

Prep Group # formaldehyde/aldehyde Dept: Std.

Reviewed: [illegible]

Start Date: 7/15/11

Start Time: 1345

Tech 1: KMB 2/25

Tech 2:

BATCH NO. 111950004A

QC	Sample Code	Amt ( )	SS Sol	Amt (mL)	MS Sol	Amt (mL)	FV (mL)	pH	pH	Comments
BLANKA										
LCSA										

KMB 2/25 7/15/11

Sample #	Sample Code	Amt (ml)	SS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments	Analyses	Due Date	Pri
std. 1		100	NA		10	✓	NA	+1.0 ml IN1178244B			
std 2		100						+1.0	C		
std-3		100						+1.0	D		
std-4		100						+1.0	E		
std.5		100						+1.0	F		
MDL		100						+1.0	G		

KMB 2/25 7/15/11

Additional Comment:

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.

Internal Standar Balance #

S-Evap/bath	°C	S-Evap/bath	°C	N-Evap	°C

USP83 1818

Herbicides Data

USF03 1819

Case Narrative
Conformance/Nonconformance Summary

USFB3 1829

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Pesticide Residue Analysis

Fraction: Herbicides

Herbicide soils 8151A Master
Herb water 8151A Master

Sample #	Client ID	Matrix Liquid	Matrix Solid	Comments
6339368	WRBS0015S005		X	
6339370	WRBS0017S005		X	
6339372	WRBS0019S005		X	
6339374	WRBS0021S005		X	
6339375	WRBS0074S005		X	
6339377	WRBS0082S005		X	Unspiked
6339378	WRBS0082S005 Matrix Spike		X	Matrix Spike
6339379	WRBS0082S005 Matrix Spike Dup		X	Matrix Spike Duplicate
6339384	RLQQS00003 RL LCS		X	RLQ
6339386	WRBS0087S005		X	
6339388	EBQW00003	X		Equipment Blank

See QC Reference List for Associated Batch QC Samples

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples.

ANALYSIS:

There were no dilutions performed for analyses associated with samples in this SDG.

(Sample number(s): 6339368, 6339372, 6339374, 6339377, 6339386: Analysis: 10401)
Reporting limits were raised for 2,4-DB due to interference from the sample matrix.

(Sample number(s): 6339370, 6339375: Analysis: 10401)
Reporting limits were raised for 2,4-DB and MCPA due to interference from the sample matrix.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

Please note that US EPA Methods for organic compounds do not require action by the laboratory based on out-of-specification MS/MSD results.

All QC is within specification.

USF03 1021

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Pesticide Residue Analysis

Fraction: Herbicides

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 8/1/2011 (Date) by M. Susan Kreider
M. SUSAN KREIDER
SENIOR SPECIALIST

Quality Control and Calibration Summary Forms

USFB3 1823

Lancaster Laboratories

Quality Control Reference List
Pesticide Residue Analysis

CLIENT: URS Corporation
SDG: USF03

Fraction: Herbicides

Analysis	Batch Number	Sample Number	Analysis Date
Herb water 8151A Master	111930002A	PBLK02193	07/13/2011 19:20:00
		LCS02193	07/13/2011 19:47:00
		LCSD02193	07/13/2011 20:15:00
		6339388	07/13/2011 21:10:00
Herbicide soils 8151A Master	111930026A	PBLK26193	07/15/2011 00:13:00
		LCS26193	07/15/2011 00:41:00
		LCSD26193	07/15/2011 01:08:00
		6339368	07/15/2011 12:07:00
		6339370	07/15/2011 12:35:00
		6339372	07/15/2011 13:03:00
		6339374	07/15/2011 19:56:00
		6339375	07/15/2011 20:24:00
		6339377 UNSPK	07/15/2011 04:47:00
		6339378 MS	07/15/2011 05:15:00
		6339379 MSD	07/15/2011 05:42:00
		6339384 RLQ	07/15/2011 04:20:00
		6339386	07/15/2011 20:51:00

Lancaster Laboratories

Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: USF03
Matrix: LIQUID

Fraction: Herbicides

111930002 / PBLK02193 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Dalapon	07/13/11	N.D.	ug/l	0.25	1.3
Dicamba	07/13/11	N.D.	ug/l	0.080	0.30
MCPP	07/13/11	N.D.	ug/l	50	200
MCPA	07/13/11	N.D.	ug/l	300	1000
2,4-DP (Dichlorprop)	07/13/11	N.D.	ug/l	0.16	0.50
2,4-D	07/13/11	N.D.	ug/l	0.16	0.50
2,4,5-TP	07/13/11	N.D.	ug/l	0.010	0.050
2,4,5-T	07/13/11	N.D.	ug/l	0.015	0.050
2,4-DB	07/13/11	N.D.	ug/l	0.30	1.0
Dinoseb	07/13/11	N.D.	ug/l	0.10	0.50

Lancaster Laboratories

Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: USF03
Matrix: SOLID

Fraction: Herbicides

111930026 / PBLK26193 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
2,4-D	07/15/11	N.D.	ug/kg	1.2	3.6
Dalapon	07/15/11	N.D.	ug/kg	4.4	9.0
2,4,5-TP	07/15/11	N.D.	ug/kg	0.075	0.17
Dicamba	07/15/11	N.D.	ug/kg	0.40	1.2
MCPP (Mecoprop)	07/15/11	N.D.	ug/kg	75	250
Dinoseb	07/15/11	N.D.	ug/kg	0.80	2.4
MCPA	07/15/11	N.D.	ug/kg	76	250
2,4-DP (Dichloroprop)	07/15/11	N.D.	ug/kg	0.80	1.7
2,4,5-T	07/15/11	N.D.	ug/kg	0.082	0.17
2,4-DB	07/15/11	N.D.	ug/kg	0.62	1.7

Lancaster Laboratories

Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: USF03
Matrix: LIQUID

Fraction: Herbicides

111930002A	2,4-Dichlorophenylacetic acid	
	Spike Added	1.93 ug/l
Sample	**% Recovery**	**Limits**
6339388	71	35 - 144
LCS02193	98	35 - 144
LCSD02193	93	35 - 144
PBLK02193	62	35 - 144

USF03 1827

Lancaster Laboratories

Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: USF03
Matrix: SOLID

Fraction: Herbicides

111930026A	2,4-Dichlorophenylacetic acid	
	Spike Added	6.66 ug/kg
Sample	% Recovery	Limits
6339368	84	36 - 156
6339370	86	36 - 156
6339372	81	36 - 156
6339374	84	36 - 156
6339375	79	36 - 156
6339377	81	36 - 156
6339378 MS	82	36 - 156
6339379 MSD	81	36 - 156
6339384	93	36 - 156
6339386	81	36 - 156
LCS26193	80	36 - 156
LCSD26193	89	36 - 156
PBLK26193	82	36 - 156

USF03 1528

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: LIQUID

Pesticide Residue Analysis

Fraction: Herbicides

LCS: LCS02193 LCSD: LCSD02193 **Analyte**	Batch: **111930002A** (Sample number(s): 6339388) **Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Dalapon	6.3	5.2	3.9	83	62	40-100	29	30
Dicamba	.25	.26	.26	104	104	68-135	0	30
MCPP	250	250	240	100	96	67-137	4	30
MCPA	500	410.	410.	82	82	65-128	0	30
2,4-DP (Dichlorprop)	2.5	3.2	3.2	128	128	76-170	0	30
2,4-D	2.5	2.5	2.5	100	100	73-157	0	30
2,4,5-TP	.25	.24	.24	96	96	63-134	0	30
2,4,5-T	.25	.23	.24	92	96	63-147	4	30
2,4-DB	2.5	2.2	2.2	88	88	65-130	0	30
Dinoseb	4.3	3.4	3.2	79	74	32-91	6	30

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: SOLID

Pesticide Residue Analysis
Fraction: Herbicides

LCS: LCS26193 LCSD: LCSD26193	Batch: **111930026A** (Sample number(s): 6339368, 6339370, 6339372, 6339374-6339375, 6339377-6339379, 6339384, 6339386)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
2,4-D	8.33	7.15	7.74	86	93	73-146	8	35
Dalapon	20.88	10.73	10.72	51	51	11-116	0	50
2,4,5-TP	.83	.63	.67	76	81	68-114	6	35
Dicamba	.83	.78	.95	94	114	54-121	20	50
MCPP (Mecoprop)	834.5	691.13	827.93	83	99	54-137	18	50
Dinoseb	14.18	1.79	1.94	13	14	10-36	8	35
MCPA	836.5	693.28	747.82	83	89	60-130	8	50
2,4-DP (Dichloroprop)	8.37	9.4	10.33	112	123	62-170	9	50
2,4,5-T	.83	.66	.71	80	86	73-143	7	35
2,4-DB	8.35	6.73	7.36	81	88	62-131	9	50

USF03 1038

Lancaster Laboratories

Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: USF03
Matrix: SOLID

Pesticide Residue Analysis

Fraction: Herbicides

UNSPK: 6339377 MS: 6339378 MSD: 6339379 **Analyte**	Batch: **111930026A** (Sample number(s): 6339368, 6339370, 6339372, 6339374-6339375, 6339377-6339379, 6339384, 6339386)								
	Spike Added ug/kg	**Unspiked Conc ug/kg**	**MS Conc ug/kg**	**MSD Conc ug/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
2,4-D	8.28	N.D.	6.91	6.79	83	82	17-180	2	35
Dalapon	20.75	N.D.	9.33	8.8	45	42	10-125	6	50
2,4,5-TP	.83	N.D.	.62	.61	75	73	24-141	2	35
Dicamba	.83	N.D.	.59	.56	71	67	10-190	5	50
MCPP (Mecoprop)	828.97	N.D.	685.12	622.88	83	75	10-184	10	50
Dinoseb	14.09	N.D.	1.43	1.22	10	9 *	10-46	16	35
MCPA	830.96	N.D.	642.54	597.01	77	72	10-213	7	50
2,4-DP (Dichloroprop)	8.31	N.D.	9.04	8.62	109	104	33-178	5	50
2,4,5-T	.83	N.D.	.4	.4	48	48	10-156	0	35
2,4-DB	8.29	N.D.	7.37	8.55	89	103	10-201	15	50

Results are being reported on an as received basis.

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Calibration File: 1H15193

GC Column (1) : ZB-XLB ID: 0.32 (mm) Update File:

Date(s) Analyzed: 7/12/2011 7/12/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Dalapon	2.69	2.69	2.69	2.69	2.69	2.69	2.66	2.72
Dichlorophenylacetic acid	8.40	8.40	8.40	8.40	8.40	8.40	8.37	8.43
Dicamba	8.47	8.47	8.47	8.47	8.47	8.47	8.44	8.50
Mcpp	8.74	8.75	8.74	8.75	8.75	8.74	8.71	8.77
Mcpa	9.01	9.01	9.01	9.01	9.02	9.01	8.98	9.04
2,4-DP	9.38	9.38	9.38	9.38	9.37	9.38	9.35	9.41
2,4-D	9.69	9.69	9.69	9.69	9.68	9.69	9.66	9.72
PCP	10.43	10.43	10.43	10.43	10.43	10.43	10.40	10.46
2,4,5-TP	10.63	10.64	10.64	10.63	10.63	10.63	10.60	10.66
2,4,5-T	11.00	11.00	11.00	11.00	11.00	11.00	10.97	11.03
2,4-DB	11.54	11.54	11.54	11.54	11.54	11.54	11.51	11.57
Dinoseb	11.66	11.66	11.66	11.66	11.66	11.65	11.62	11.68

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6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Calibration File: 1H15193

GC Column (1) : ZB-XLB ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/12/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Dalapon	1.72E-01	1.68E-01	1.61E-01	1.37E-01	1.45E-01	1.56E-01	9.6
Dichlorophenylacetic acid	1.21E-01	1.12E-01	1.08E-01	1.01E-01	9.27E-02	1.07E-01	10.2
Dicamba	4.00E-01	4.30E-01	4.59E-01	4.46E-01	4.26E-01	4.32E-01	5.1
Mcpp	5.36E-04	5.21E-04	4.79E-04	4.23E-04	3.68E-04	4.65E-04	15.0
Mcpa	8.28E-04	7.47E-04	6.75E-04	5.80E-04	5.02E-04	6.66E-04	19.5
2,4-DP	1.33E-01	1.27E-01	1.20E-01	1.12E-01	1.00E-01	1.18E-01	11.0
2,4-D	1.39E-01	1.34E-01	1.29E-01	1.18E-01	1.10E-01	1.26E-01	9.5
PCP	1.81E+00	1.86E+00	1.88E+00	1.86E+00	1.73E+00	1.83E+00	3.4
2,4,5-TP	6.69E-01	6.75E-01	7.05E-01	7.12E-01	6.77E-01	6.88E-01	2.8
2,4,5-T	6.98E-01	6.65E-01	6.74E-01	6.55E-01	6.34E-01	6.65E-01	3.5
2,4-DB	8.27E-02	8.00E-02	7.74E-02	7.53E-02	6.81E-02	7.67E-02	7.3
Dinoseb	5.41E-01	4.31E-01	3.83E-01	3.96E-01	3.81E-01	4.26E-01	15.8

Average % RSD: 9.4

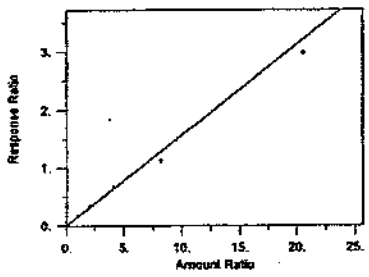
USEPA 1933

Calibration File Name: **C:\CPWIN\DATA1\1H15193.CAL** Version = 13
Internal standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 0
Amount units = PPB
13 components with 5 levels each

1 Dalapon

Retention time = 2.687 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	102.600	6429.9	62.6698	1.0260	0.1762	1H15193.07A	7/13/2011 8:30:5
2	205.200	13279.1	64.71316	2.0520	0.3441	1H15193.08A	7/13/2011 8:31:1
3	410.400	25488.3	62.10602	4.1040	0.6607	1H15193.09A	7/13/2011 8:56:1
4	820.800	44721.2	54.48487	8.2080	1.1213	1H15193.10A	7/13/2011 8:31:5
5	2052.000	110845.1	54.01808	20.5200	2.9772	1H15193.11A	7/13/2011 8:32:1



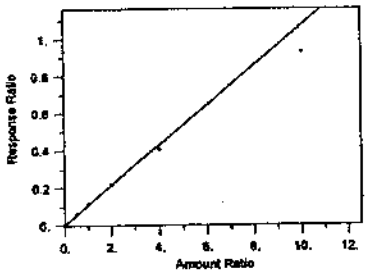
Calibration formula: Y = 0.156 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9841, Average error = 7.97%
Average CF = 0.1564 with RSD = 9.61%

2 DCAA

Retention time = 8.396 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	50.130	2213.0	44.14602	0.5013	0.0607	1H15193.07A	7/13/2011 8:30:5
2	100.260	4352.7	43.41424	1.0026	0.1128	1H15193.08A	7/13/2011 8:31:1
3	200.520	8352.9	41.65597	2.0052	0.2165	1H15193.09A	7/13/2011 8:56:1
4	401.040	16105.2	40.15861	4.0104	0.4038	1H15193.10A	7/13/2011 8:31:5

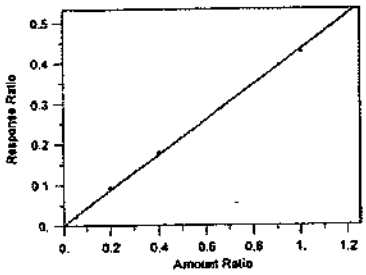
Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
5	1002.600	34604.6	34.51482	10.0260	0.9295	1H15193.11A	7/13/2011 8:32:1



Calibration formula: Y = 0.107 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9573, Average error = 7.69%
Average CF = 0.1070 with RSD = 10.15%

3 DICAMBA
Retention time = 8.469 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	5.005	731.2	146.1001	0.0501	0.0200	1H15193.07A	7/13/2011 8:30:5
2	10.010	1659.2	165.7576	0.1001	0.0430	1H15193.08A	7/13/2011 8:31:1
3	20.020	3543.8	177.0143	0.2002	0.0919	1H15193.09A	7/13/2011 8:56:1
4	40.040	7116.7	177.7404	0.4004	0.1784	1H15193.10A	7/13/2011 8:31:5
5	100.100	15876.7	158.6082	1.0010	0.4264	1H15193.11A	7/13/2011 8:32:1



Calibration formula: Y = 0.432 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9991, Average error = 3.73%
Average CF = 0.4321 with RSD = 5.10%

4 MCPP
Retention time = 8.744 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0

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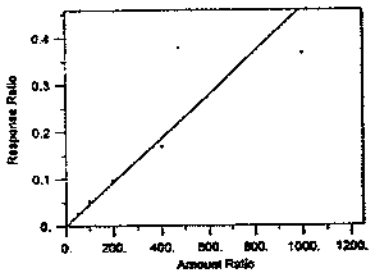
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

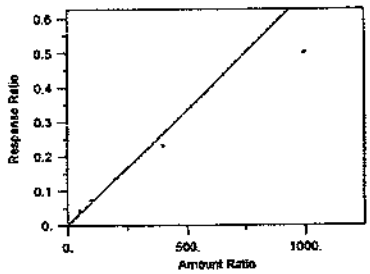
Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	4996.000	977.1	0.19557	49.9600	0.0268	1H15193.07A	7/13/2011 8:30:5
2	9992.000	2007.9	0.2009534	99.9200	0.0520	1H15193.08A	7/13/2011 8:31:1
3	19984.000	3689.3	0.1846123	199.8400	0.0956	1H15193.09A	7/13/2011 8:56:1
4	39968.000	6736.3	0.1685427	399.6800	0.1689	1H15193.10A	7/13/2011 8:31:5
5	99920.000	13681.7	0.1369263	999.2000	0.3675	1H15193.11A	7/13/2011 8:32:1



Calibration formula: Y = 4.651E-4 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.8695, Average error = 12.03%
Average CF = 0.0005 with RSD = 15.04%

5 MCPA
Retention time = 9.008 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	4989.000	1507.9	0.3022393	49.8900	0.0413	1H15193.07A	7/13/2011 8:30:5
2	9978.000	2876.1	0.2882418	99.7800	0.0745	1H15193.08A	7/13/2011 8:31:1
3	19956.000	5197.1	0.2604257	199.5600	0.1347	1H15193.09A	7/13/2011 8:56:1
4	39912.000	9228.2	0.2312139	399.1200	0.2314	1H15193.10A	7/13/2011 8:31:5
5	99780.000	18649.3	0.1869046	997.8000	0.5009	1H15193.11A	7/13/2011 8:32:1



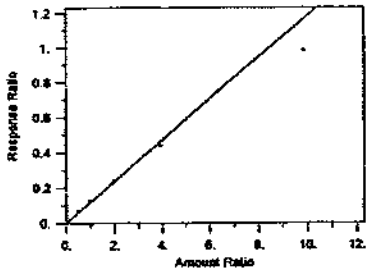
USF03 1936

Calibration formula: Y = 0.001 X

Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.7934, Average error = 15.07%
Average CF = 0.0007 with RSD = 19.47%

6 2,4-DP
Retention time = 9.377 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	49.150	2391.5	48.65738	0.4915	0.0655	1H15193.07A	7/13/2011 8:30:5
2	98.300	4802.1	48.8514	0.9830	0.1244	1H15193.08A	7/13/2011 8:31:1
3	196.600	9127.8	46.42851	1.9660	0.2366	1H15193.09A	7/13/2011 8:56:1
4	393.200	17495.3	44.49466	3.9320	0.4387	1H15193.10A	7/13/2011 8:31:5
5	983.000	36639.5	37.27316	9.8300	0.9841	1H15193.11A	7/13/2011 8:32:1



Calibration formula: Y = 0.118 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9400, Average error = 8.49%
Average CF = 0.1184 with RSD = 10.98%

7 2,4-D
Retention time = 9.688 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	50.150	2541.3	50.67431	0.5015	0.0697	1H15193.07A	7/13/2011 8:30:5
2	100.300	5205.0	51.89434	1.0030	0.1349	1H15193.08A	7/13/2011 8:31:1
3	200.600	10016.5	49.9329	2.0060	0.2596	1H15193.09A	7/13/2011 8:56:1
4	401.200	18898.1	47.10389	4.0120	0.4738	1H15193.10A	7/13/2011 8:31:5
5	1003.000	41025.7	40.90302	10.0300	1.1019	1H15193.11A	7/13/2011 8:32:1

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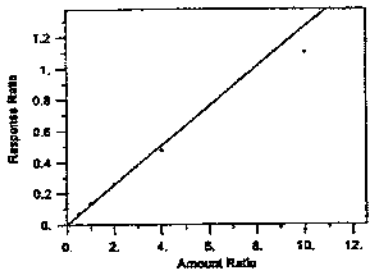
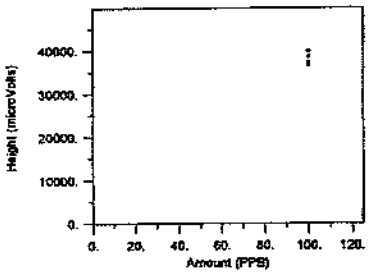


Calibration formula: Y = 0.126 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9600, Average error = 7.72%
Average CF = 0.1262 with RSD = 9.48%

8 DBOFB * Internal Standard * * Retention Time Reference *
Retention time = 9.871 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	100.000	36484.2	364.8421	1H15193.07A	7/13/2011 8:30:5
2	100.000	38592.7	385.9266	1H15193.08A	7/13/2011 8:31:1
3	100.000	38579.0	385.79	1H15193.09A	7/13/2011 8:56:1
4	100.000	39884.4	398.8438	1H15193.10A	7/13/2011 8:31:5
5	100.000	37231.2	372.3121	1H15193.11A	7/13/2011 8:32:1



Calibration formula: Y = 1.0 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.0000, Average error = 0.00%
Average CF = 381.5429 with RSD = 3.47%

9 PCP
Retention time = 10.431 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

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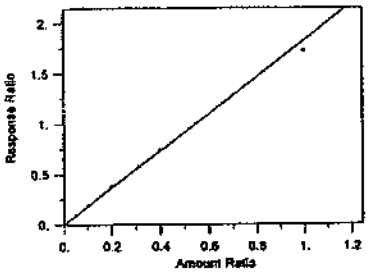
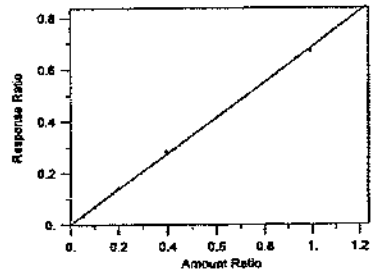
Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	4.985	3288.9	659.7523	0.0499	0.0901	1H15193.07A	7/13/2011 8:30:5
2	9.970	7140.9	716.2343	0.0997	0.1850	1H15193.08A	7/13/2011 8:31:1
3	19.940	14447.5	724.5496	0.1994	0.3745	1H15193.09A	7/13/2011 8:56:1
4	39.880	29574.5	741.5862	0.3988	0.7415	1H15193.10A	7/13/2011 8:31:5
5	99.700	64033.5	642.2614	0.9970	1.7199	1H15193.11A	7/13/2011 8:32:1



Calibration formula: Y = 1.825 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9941, Average error = 2.57%
Average CF = 1.8253 with RSD = 3.38%

10 2,4,5-TP
Retention time = 10.635 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	4.950	1207.6	243.9543	0.0495	0.0331	1H15193.07A	7/13/2011 8:30:5
2	9.900	2580.4	260.6473	0.0990	0.0669	1H15193.08A	7/13/2011 8:31:1
3	19.800	5383.3	271.8823	0.1980	0.1395	1H15193.09A	7/13/2011 8:56:1
4	39.600	11244.3	283.9457	0.3960	0.2819	1H15193.10A	7/13/2011 8:31:5
5	99.000	24969.4	252.2162	0.9900	0.6707	1H15193.11A	7/13/2011 8:32:1



Calibration formula: Y = 0.688 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9992, Average error = 2.41%
Average CF = 0.6876 with RSD = 2.81%

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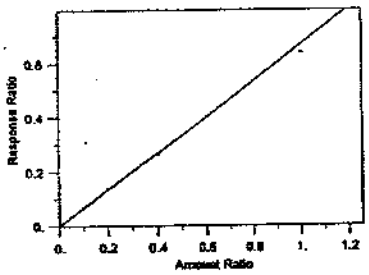
11 2,4,5-T
Retention time = 10.999 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	5.020	1278.2	254.6147	0.0502	0.0350	1H15193.07A	7/13/2011 8:30:5
2	10.040	2578.6	256.8321	0.1004	0.0668	1H15193.08A	7/13/2011 8:31:1
3	20.080	5220.5	259.9861	0.2008	0.1353	1H15193.09A	7/13/2011 8:56:1
4	40.160	10493.0	261.2799	0.4016	0.2631	1H15193.10A	7/13/2011 8:31:5
5	100.400	23699.2	236.0479	1.0040	0.6365	1H15193.11A	7/13/2011 8:32:1

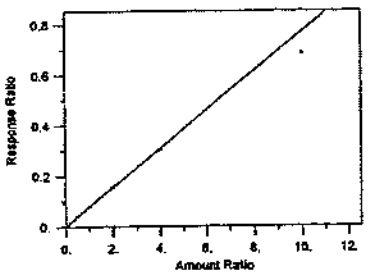


Calibration formula: Y = 0.665 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9958, Average error = 2.49%
Average CF = 0.6653 with RSD = 3.54%

12 2,4-DB
Retention time = 11.539 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	50.150	1512.8	30.16608	0.5015	0.0415	1H15193.07A	7/13/2011 8:30:5
2	100.300	3097.0	30.87745	1.0030	0.0802	1H15193.08A	7/13/2011 8:31:1
3	200.600	5988.7	29.85379	2.0060	0.1552	1H15193.09A	7/13/2011 8:56:1
4	401.200	12051.9	30.03966	4.0120	0.3022	1H15193.10A	7/13/2011 8:31:5
5	1003.000	25413.0	25.33698	10.0300	0.6826	1H15193.11A	7/13/2011 8:32:1

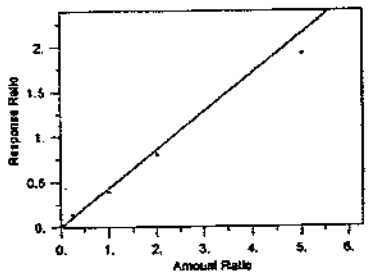
USF03 1848



Calibration formula: Y = 0.077 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9721, Average error = 5.22%
Average CF = 0.0767 with RSD = 7.26%

13 DINOSEB
Retention time = 11.655 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #8, DBOFB
Single peak quantification by height
Internal standard reference component = #8, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	25.170	4970.9	197.4931	0.2517	0.1362	1H15193.07A	7/13/2011 8:30:5
2	50.350	8379.2	166.4187	0.5035	0.2171	1H15193.08A	7/13/2011 8:31:1
3	100.700	14892.9	147.8934	1.0070	0.3860	1H15193.09A	7/13/2011 8:56:1
4	201.400	31781.7	157.8038	2.0140	0.7968	1H15193.10A	7/13/2011 8:31:5
5	503.500	71361.9	141.7317	5.0350	1.9167	1H15193.11A	7/13/2011 8:32:1



Calibration formula: Y = 0.426 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9721, Average error = 11.22%
Average CF = 0.4264 with RSD = 15.78%

USF83 1041

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Calibration File: 1H15193B

GC Column (2) : ZB-35 ID: 0.32 (mm) Update File:

Date(s) Analyzed: 7/12/2011 7/12/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Dalapon	2.58	2.58	2.58	2.58	2.58	2.58	2.55	2.61
Dichlorophenylacetic acid	8.13	8.13	8.13	8.13	8.13	8.13	8.10	8.16
Dicamba	8.34	8.34	8.34	8.35	8.34	8.34	8.31	8.37
Mcpp	8.41	8.42	8.41	8.42	8.42	8.41	8.38	8.44
Mcpa	8.75	8.75	8.75	8.75	8.76	8.75	8.72	8.78
2,4-DP	9.08	9.08	9.08	9.08	9.07	9.08	9.05	9.11
2,4-D	9.48	9.48	9.48	9.48	9.48	9.48	9.45	9.51
PCP	9.88	9.88	9.88	9.88	9.87	9.88	9.85	9.91
2,4,5-TP	10.24	10.24	10.24	10.24	10.24	10.24	10.21	10.27
2,4,5-T	10.70	10.70	10.70	10.70	10.69	10.70	10.67	10.73
Dinoseb	10.99	10.99	10.99	10.99	10.98	10.99	10.96	11.02
2,4-DB	11.16	11.16	11.15	11.15	11.15	11.15	11.12	11.18

USF03 1042

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Calibration File: 1H15193B

GC Column (2) : ZB-35 ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/12/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Dalapon	1.65E-01	1.59E-01	1.52E-01	1.31E-01	1.38E-01	1.49E-01	9.6
Dichlorophenylacetic acid	1.43E-01	1.30E-01	1.23E-01	1.12E-01	1.02E-01	1.22E-01	12.9
Dicamba	4.10E-01	4.63E-01	5.00E-01	4.93E-01	4.63E-01	4.66E-01	7.6
Mcpp	3.12E-04	3.67E-04	3.80E-04	3.60E-04	3.30E-04	3.50E-04	8.0
Mcpa	7.08E-04	6.72E-04	6.30E-04	5.63E-04	5.01E-04	6.15E-04	13.6
2,4-DP	1.06E-01	1.12E-01	1.23E-01	9.28E-02	9.69E-02	1.06E-01	11.4
2,4-D	1.56E-01	1.51E-01	1.43E-01	1.27E-01	1.18E-01	1.39E-01	11.6
PCP	1.82E+00	1.86E+00	1.84E+00	1.78E+00	1.66E+00	1.79E+00	4.4
2,4,5-TP	7.28E-01	7.38E-01	7.56E-01	7.49E-01	7.01E-01	7.34E-01	2.9
2,4,5-T	7.23E-01	7.18E-01	7.12E-01	6.77E-01	6.52E-01	6.96E-01	4.4
Dinoseb	5.09E-01	4.05E-01	3.69E-01	3.85E-01	3.72E-01	4.08E-01	14.3
2,4-DB	9.37E-02	8.83E-02	8.52E-02	8.12E-02	7.33E-02	8.44E-02	9.1

Average % RSD: 9.2

USPB3 1843

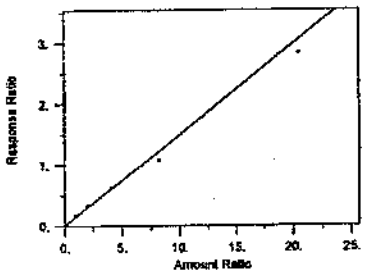
FORM VI-2

Calibration File Name: **C:\CPWIN\DATA1\1H15193B.CAL** Version = 19
Internal standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 0
Amount units = PPB
13 components with 5 levels each

1 Dalapon

Retention time = 2.579 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	102.600	13031.5	127.0127	1.0260	0.1697	1H15193B.07A	7/13/2011 10:49:
2	205.200	26751.5	130.3679	2.0520	0.3266	1H15193B.08A	7/13/2011 10:49:
3	410.400	51128.3	124.5817	4.1040	0.6244	1H15193B.09A	7/13/2011 10:53:
4	820.800	91326.8	111.2656	8.2080	1.0768	1H15193B.10A	7/13/2011 10:50:
5	2052.000	225573.9	109.9288	20.5200	2.8319	1H15193B.11A	7/13/2011 10:50:



Calibration formula: Y = 0.149 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9838, Average error = 7.82%
Average CF = 0.1492 with RSD = 9.60%

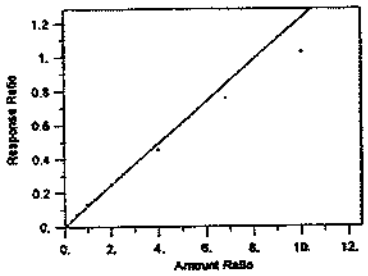
2 DCAA

Retention time = 8.130 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	50.130	5514.8	110.0104	0.5013	0.0718	1H15193B.07A	7/13/2011 10:49:
2	100.260	10658.6	106.3095	1.0026	0.1301	1H15193B.08A	7/13/2011 10:49:
3	200.520	20262.8	101.0511	2.0052	0.2475	1H15193B.09A	7/13/2011 10:53:
4	401.040	38207.1	95.27007	4.0104	0.4505	1H15193B.10A	7/13/2011 10:50:

USF03 1844

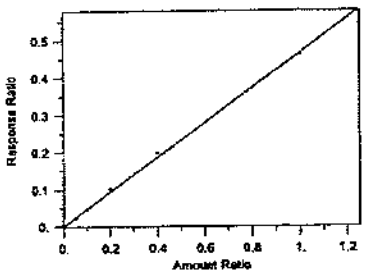
Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
5	1002.600	81664.2	81.45247	10.0260	1.0252	1H15193B.11A	7/13/2011 10:50:



Calibration formula: Y = 0.122 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9299, Average error = 9.76%
Average CF = 0.1222 with RSD = 12.92%

3 DICAMBA
Retention time = 8.343 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	5.005	1575.9	314.8749	0.0501	0.0205	1H15193B.07A	7/13/2011 10:49:
2	10.010	3797.8	379.4022	0.1001	0.0464	1H15193B.08A	7/13/2011 10:49:
3	20.020	8194.0	409.292	0.2002	0.1001	1H15193B.09A	7/13/2011 10:53:
4	40.040	16746.6	418.246	0.4004	0.1975	1H15193B.10A	7/13/2011 10:50:
5	100.100	36956.5	369.1954	1.0010	0.4640	1H15193B.11A	7/13/2011 10:50:



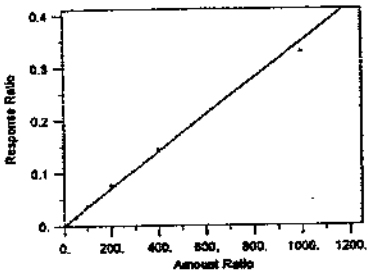
Calibration formula: Y = 0.466 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9986, Average error = 5.25%
Average CF = 0.4659 with RSD = 7.61%

4 MCPP
Retention time = 8.414 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0

USPB3 1845

Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

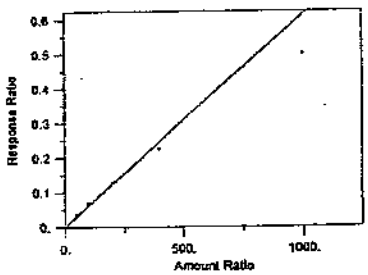
Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	4996.000	1195.6	0.2393028	49.9600	0.0156	1H15193B.07A	7/13/2011 10:49:
2	9992.000	3006.8	0.300923	99.9200	0.0367	1H15193B.08A	7/13/2011 10:49:
3	19984.000	6217.6	0.3111274	199.8400	0.0759	1H15193B.09A	7/13/2011 10:53:
4	39968.000	12195.5	0.3051319	399.6800	0.1438	1H15193B.10A	7/13/2011 10:50:
5	99920.000	26245.7	0.2626674	999.2000	0.3295	1H15193B.11A	7/13/2011 10:50:



Calibration formula: Y = 3.497E-4 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9929, Average error = 6.64%
Average CF = 0.0003 with RSD = 8.06%

5 MCPA
Retention time = 8.751 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	4989.000	2711.3	0.5434496	49.8900	0.0353	1H15193B.07A	7/13/2011 10:49:
2	9978.000	5489.4	0.5501511	99.7800	0.0670	1H15193B.08A	7/13/2011 10:49:
3	19956.000	10289.6	0.5156149	199.5600	0.1257	1H15193B.09A	7/13/2011 10:53:
4	39912.000	19061.4	0.4775867	399.1200	0.2248	1H15193B.10A	7/13/2011 10:50:
5	99780.000	39842.8	0.3993067	997.8000	0.5002	1H15193B.11A	7/13/2011 10:50:



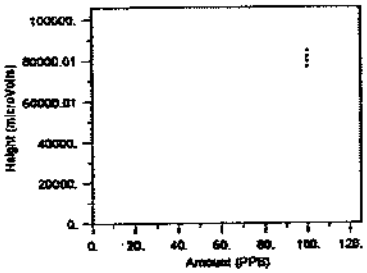
USF03 1046

Calibration formula: Y = 0.001 X

Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9055, Average error = 10.74%
Average CF = 0.0006 with RSD = 13.52%

6 DBOFB * Internal Standard * * Retention Time Reference *
Retention time = 8.961 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	100.000	76795.3	767.9532	1H15193B.07A	7/13/2011 10:49:
2	100.000	81908.9	819.0892	1H15193B.08A	7/13/2011 10:49:
3	100.000	81878.9	818.789	1H15193B.09A	7/13/2011 10:53:
4	100.000	84809.7	848.0973	1H15193B.10A	7/13/2011 10:50:
5	100.000	79655.5	796.5553	1H15193B.11A	7/13/2011 10:50:

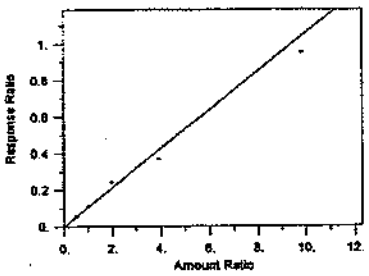


Calibration formula: Y = 1.0 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.0000, Average error = 0.00%
Average CF = 810.0968 with RSD = 3.68%

7 2,4-DP
Retention time = 9.077 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	49.150	4001.2	81.40722	0.4915	0.0521	1H15193B.07A	7/13/2011 10:49:
2	98.300	8979.3	91.34595	0.9830	0.1096	1H15193B.08A	7/13/2011 10:49:
3	196.600	19850.7	100.97	1.9660	0.2424	1H15193B.09A	7/13/2011 10:53:
4	393.200	30953.5	78.72192	3.9320	0.3650	1H15193B.10A	7/13/2011 10:50:
5	983.000	75912.0	77.2248	9.8300	0.9530	1H15193B.11A	7/13/2011 10:50:

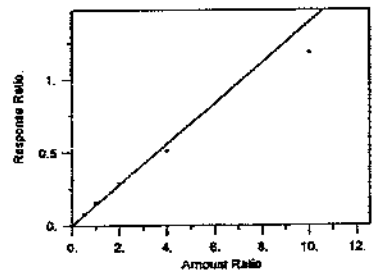
USP83 1947



Calibration formula: Y = 0.106 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9769, Average error = 8.52%
Average CF = 0.1061 with RSD = 11.40%

8 2,4-D
Retention time = 9.481 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	50.150	6006.8	119.7771	0.5015	0.0782	1H15193B.07A	7/13/2011 10:49:
2	100.300	12409.0	123.719	1.0030	0.1515	1H15193B.08A	7/13/2011 10:49:
3	200.600	23462.6	116.9619	2.0060	0.2866	1H15193B.09A	7/13/2011 10:53:
4	401.200	43189.3	107.6504	4.0120	0.5092	1H15193B.10A	7/13/2011 10:50:
5	1003.000	94196.8	93.9151	10.0300	1.1826	1H15193B.11A	7/13/2011 10:50:

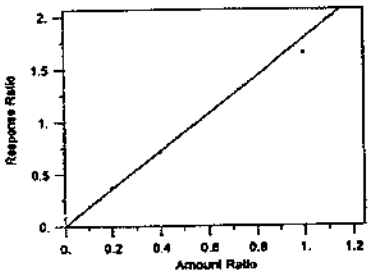


Calibration formula: Y = 0.139 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9406, Average error = 9.51%
Average CF = 0.1389 with RSD = 11.60%

9 PCP
Retention time = 9.877 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

USF03 1649

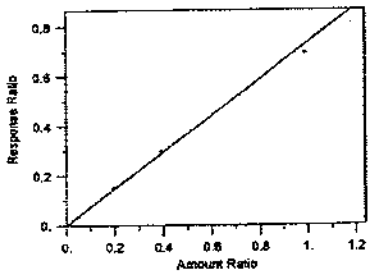
Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	4.985	6959.9	1396.176	0.0499	0.0906	1H15193B.07A	7/13/2011 10:49:
2	9.970	15164.5	1521.009	0.0997	0.1851	1H15193B.08A	7/13/2011 10:49:
3	19.940	30015.7	1505.298	0.1994	0.3666	1H15193B.09A	7/13/2011 10:53:
4	39.880	60112.6	1507.337	0.3988	0.7088	1H15193B.10A	7/13/2011 10:50:
5	99.700	131653.8	1320.5	0.9970	1.6528	1H15193B.11A	7/13/2011 10:50:



Calibration formula: Y = 1.79 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9891, Average error = 3.23%
Average CF = 1.7897 with RSD = 4.44%

10 2,4,5-TP
Retention time = 10.242 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	4.950	2768.4	559.2677	0.0495	0.0360	1H15193B.07A	7/13/2011 10:49:
2	9.900	5987.8	604.8235	0.0990	0.0731	1H15193B.08A	7/13/2011 10:49:
3	19.800	12249.6	618.6682	0.1980	0.1496	1H15193B.09A	7/13/2011 10:53:
4	39.600	25159.7	635.3447	0.3960	0.2967	1H15193B.10A	7/13/2011 10:50:
5	99.000	55266.9	558.2511	0.9900	0.6938	1H15193B.11A	7/13/2011 10:50:



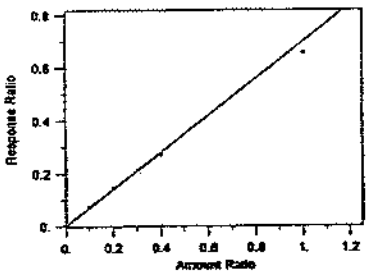
Calibration formula: Y = 0.734 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9960, Average error = 2.17%
Average CF = 0.7344 with RSD = 2.93%

USP03 1849

11 2,4,5-T

Retention time = 10.696 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	5.020	2785.7	554.9161	0.0502	0.0363	1H15193B.07A	7/13/2011 10:49:
2	10.040	5901.9	587.8398	0.1004	0.0721	1H15193B.08A	7/13/2011 10:49:
3	20.080	11708.3	583.0802	0.2008	0.1430	1H15193B.09A	7/13/2011 10:53:
4	40.160	23050.8	573.9751	0.4016	0.2718	1H15193B.10A	7/13/2011 10:50:
5	100.400	52111.9	519.0424	1.0040	0.6542	1H15193B.11A	7/13/2011 10:50:



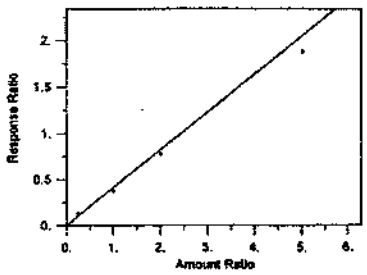
Calibration formula: Y = 0.696 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9917, Average error = 3.67%
Average CF = 0.6962 with RSD = 4.41%

12 DINOSEB

Retention time = 10.986 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	25.170	9842.0	391.0199	0.2517	0.1282	1H15193B.07A	7/13/2011 10:49:
2	50.350	16709.4	331.8655	0.5035	0.2040	1H15193B.08A	7/13/2011 10:49:
3	100.700	30423.5	302.1201	1.0070	0.3716	1H15193B.09A	7/13/2011 10:53:
4	201.400	65750.4	326.4667	2.0140	0.7753	1H15193B.10A	7/13/2011 10:50:
5	503.500	149300.1	296.5245	5.0350	1.8743	1H15193B.11A	7/13/2011 10:50:

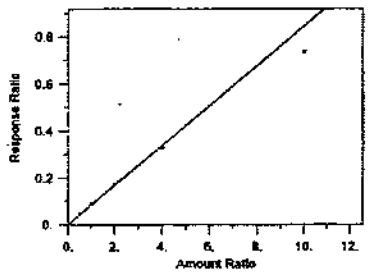
USF83 1658



Calibration formula: Y = 0.408 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9821, Average error = 9.91%
Average CF = 0.4081 with RSD = 14.27%

13 2,4-DB
Retention time = 11.154 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0
Group number = 0, Component constant = 0
Retention time reference component = #6, DBOFB
Single peak quantification by height
Internal standard reference component = #6, DBOFB

Level	Amount	Height	Height/Amt	Amt ratio	Height ratio	Source	Date and time
1	50.150	3609.1	71.96594	0.5015	0.0470	1H15193B.07A	7/13/2011 10:49:
2	100.300	7251.5	72.29785	1.0030	0.0885	1H15193B.08A	7/13/2011 10:49:
3	200.600	14001.4	69.79741	2.0060	0.1710	1H15193B.09A	7/13/2011 10:53:
4	401.200	27642.8	68.90022	4.0120	0.3259	1H15193B.10A	7/13/2011 10:50:
5	1003.000	58560.5	58.38531	10.0300	0.7352	1H15193B.11A	7/13/2011 10:50:



Calibration formula: Y = 0.084 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9600, Average error = 6.72%
Average CF = 0.0844 with RSD = 9.10%

USF03 1851

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Init. Calib Date(s): 07/12/11 07/12/11

GC Column (1) : ZB-XLB ID: .32 (mm) Date Analyzed: 07/12/11

Lab File ID: 1H15193.13R Time Analyzed: 19:32

Lab Standard ID: ICHBXFQ Initial Calibration: 1H15193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Dalapon	2.69	2.66	2.72	518.21	500.40	3.6
Dichlorophenylacetic acid	8.40	8.37	8.43	203.80	200.52	1.6
Dicamba	8.47	8.44	8.50	20.98	20.04	4.7
Mcpp	8.74	8.71	8.77	20162.84	20016.00	0.7
Mcpa	9.01	8.98	9.04	19997.94	20024.00	-0.1
2,4-DP	9.38	9.35	9.41	205.95	199.80	3.1
2,4-D	9.69	9.66	9.72	200.43	200.00	0.2
PCP	10.43	10.40	10.46	19.86	19.98	-0.6
2,4,5-TP	10.63	10.60	10.66	19.19	19.96	-3.9
2,4,5-T	11.00	10.97	11.03	19.90	20.04	-0.7
2,4-DB	11.54	11.51	11.57	191.38	200.00	-4.3
Dinoseb	11.65	11.62	11.68	107.65	100.10	7.5
					Average of %D:	2.6

USF03 1952

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Init. Calib Date(s): 07/12/11 07/12/11

GC Column (2) : ZB-35 ID: .32 (mm) Date Analyzed: 07/12/11

Lab File ID: 1H15193B.13R Time Analyzed: 19:32

Lab Standard ID: ICHBXFQ Initial Calibration: 1H15193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Dalapon	2.58	2.55	2.61	507.00	500.40	1.3
Dichlorophenylacetic acid	8.13	8.10	8.16	202.13	200.52	0.8
Dicamba	8.34	8.31	8.37	21.72	20.04	8.4
Mcpp	8.41	8.38	8.44	21105.81	20016.00	5.4
Mcpa	8.75	8.72	8.78	19712.62	20024.00	-1.6
2,4-DP	9.08	9.05	9.11	211.81	199.80	6.0
2,4-D	9.48	9.45	9.51	200.28	200.00	0.1
PCP	9.88	9.85	9.91	19.45	19.98	-2.6
2,4,5-TP	10.24	10.21	10.27	18.57	19.96	-7.0
2,4,5-T	10.70	10.67	10.73	20.38	20.04	1.7
Dinoseb	10.99	10.96	11.02	109.36	100.10	9.2
2,4-DB	11.15	11.12	11.18	191.57	200.00	-4.2
					Average of %D:	4.0

USF03 1853

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H8456A Init. Calib Date(s): 07/13/11 07/14/11
GC Column (1) : ZB-XLB ID: .32 (mm) Date Analyzed: 07/13/11
Lab File ID: 1H15193.32R Time Analyzed: 17:29
Lab Standard ID: HERB3AG Initial Calibration: 1H15193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Dalapon	2.68	2.66	2.72	436.97	410.40	6.5
Dichlorophenylacetic acid	8.39	8.36	8.42	199.74	200.52	-0.4
Dicamba	8.46	8.44	8.50	21.17	20.02	5.7
Mcpp	8.74	8.72	8.78	23052.78	19984.00	15.4
Mcpa	9.00	8.98	9.04	21617.59	19956.00	8.3
2,4-DP	9.37	9.34	9.40	197.88	196.60	0.7
2,4-D	9.68	9.65	9.71	199.57	200.60	-0.5
PCP	10.42	10.40	10.46	20.60	19.94	3.3
2,4,5-TP	10.63	10.60	10.66	19.72	19.80	-0.4
2,4,5-T	10.99	10.97	11.03	19.93	20.08	-0.7
2,4-DB	11.54	11.51	11.57	202.75	200.60	1.1
Dinoseb	11.65	11.62	11.68	91.62	100.70	-9.0
					Average of %D:	4.3

USF03 1854

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Init. Calib Date(s): 07/13/11 07/14/11

GC Column (2) : ZB-35 ID: .32 (mm) Date Analyzed: 07/13/11

Lab File ID: 1H15193B.32R Time Analyzed: 17:29

Lab Standard ID: HERB3AG Initial Calibration: 1H15193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Dalapon	2.57	2.55	2.61	437.56	410.40	6.6
Dichlorophenylacetic acid	8.12	8.10	8.16	208.59	200.52	4.0
Dicamba	8.34	8.31	8.37	23.28	20.02	16.3
Mcpp	8.41	8.38	8.44	23071.19	19984.00	15.4
Mcpa	8.74	8.72	8.78	21390.94	19956.00	7.2
2,4-DP	9.07	9.05	9.11	227.60	196.60	15.8
2,4-D	9.48	9.45	9.51	205.09	200.60	2.2
PCP	9.87	9.85	9.91	20.57	19.94	3.2
2,4,5-TP	10.24	10.21	10.27	20.50	19.80	3.5
2,4,5-T	10.69	10.67	10.73	20.40	20.08	1.6
Dinoseb	10.98	10.96	11.02	94.35	100.70	-6.3
2,4-DB	11.15	11.12	11.18	199.54	200.60	-0.5
					Average of %D:	6.9

USF03 1855

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Init. Calib Date(s): 07/13/11 07/14/11

GC Column (1) : ZB-XLB ID: .32 (mm) Date Analyzed: 07/13/11

Lab File ID: 1H15193.44R Time Analyzed: 23:01

Lab Standard ID: HERB3AG Initial Calibration: 1H15193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Dalapon	2.68	2.66	2.72	430.10	410.40	4.8
Dichlorophenylacetic acid	8.39	8.36	8.42	200.59	200.52	0
Dicamba	8.46	8.44	8.50	20.91	20.02	4.4
Mcpp	8.74	8.72	8.78	23491.40	19984.00	17.6
Mcpa	9.00	8.98	9.04	22246.11	19956.00	11.5
2,4-DP	9.37	9.34	9.40	198.39	196.60	0.9
2,4-D	9.68	9.65	9.71	196.48	200.60	-2.1
PCP	10.43	10.40	10.46	20.91	19.94	4.9
2,4,5-TP	10.63	10.60	10.66	19.49	19.80	-1.5
2,4,5-T	11.00	10.97	11.03	18.68	20.08	-7.0
2,4-DB	11.54	11.51	11.57	181.07	200.60	-9.7
Dinoseb	11.65	11.62	11.68	88.56	100.70	-12.1
					Average of %D:	6.4

USF03 1856

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Init. Calib Date(s): 07/13/11 07/14/11

GC Column (2) : ZB-35 ID: .32 (mm) Date Analyzed: 07/13/11

Lab File ID: 1H15193B.44R Time Analyzed: 23:01

Lab Standard ID: HERB3AG Initial Calibration: 1H15193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Dalapon	2.58	2.55	2.61	426.45	410.40	3.9
Dichlorophenylacetic acid	8.13	8.10	8.16	207.39	200.52	3.4
Dicamba	8.34	8.31	8.37	23.51	20.02	17.5
Mcpp	8.41	8.38	8.44	23312.58	19984.00	16.7
Mcpa	8.74	8.72	8.78	21625.83	19956.00	8.4
2,4-DP	9.07	9.05	9.11	228.21	196.60	16.1
2,4-D	9.48	9.45	9.51	202.08	200.60	0.7
PCP	9.87	9.85	9.91	20.47	19.94	2.7
2,4,5-TP	10.24	10.21	10.27	19.89	19.80	0.5
2,4,5-T	10.69	10.67	10.73	19.50	20.08	-2.9
Dinoseb	10.98	10.96	11.02	91.60	100.70	-9.0
2,4-DB	11.15	11.12	11.18	188.88	200.60	-5.8
					Average of %D:	7.3

USF03 1857

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Init. Calib Date(s): 07/12/11 07/12/11

GC Column (1) : ZB-XLB ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 3H15193.03R Time Analyzed: 17:11

Lab Standard ID: HERB3AG Initial Calibration: 1H15193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.68	2.66	2.72	433.70	410.40	5.7
Dichlorophenylacetic acid	8.39	8.36	8.42	201.76	200.52	0.6
Dicamba	8.46	8.44	8.50	20.83	20.02	4.0
Mcpp	8.73	8.72	8.78	21463.10	19984.00	7.4
Mcpa	9.00	8.98	9.04	21050.26	19956.00	5.5
2,4-DP	9.36	9.34	9.40	202.27	196.60	2.9
2,4-D	9.68	9.65	9.71	199.72	200.60	-0.4
PCP	10.42	10.40	10.46	20.46	19.94	2.6
2,4,5-TP	10.62	10.60	10.66	19.55	19.80	-1.3
2,4,5-T	10.99	10.97	11.03	18.93	20.08	-5.7
2,4-DB	11.53	11.51	11.57	190.39	200.60	-5.1
Dinoseb	11.64	11.62	11.68	86.42	100.70	-14.2
					Average of %D:	4.6

USF03 1858

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Init. Calib Date(s): 07/12/11 07/12/11

GC Column (2) : ZB-35 ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 3H15193B.03R Time Analyzed: 17:11

Lab Standard ID: HERB3AG Initial Calibration: 1H15193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.57	2.55	2.61	427.02	410.40	4.0
Dichlorophenylacetic acid	8.12	8.10	8.16	202.00	200.52	0.7
Dicamba	8.33	8.31	8.37	22.65	20.02	13.2
Mcpp	8.40	8.38	8.44	22995.16	19984.00	15.1
Mcpa	8.74	8.72	8.78	21352.75	19956.00	7.0
2,4-DP	9.06	9.05	9.11	225.95	196.60	14.9
2,4-D	9.47	9.45	9.51	199.74	200.60	-0.4
PCP	9.86	9.85	9.91	20.01	19.94	0.3
2,4,5-TP	10.23	10.21	10.27	19.51	19.80	-1.5
2,4,5-T	10.68	10.67	10.73	19.18	20.08	-4.5
Dinoseb	10.97	10.96	11.02	89.97	100.70	-10.7
2,4-DB	11.14	11.12	11.18	192.70	200.60	-3.9
					Average of %D:	6.4

USF03 1859

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Init. Calib Date(s): 07/12/11 07/12/11

GC Column (1) : ZB-XLB ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 3H15193.14R Time Analyzed: 22:14

Lab Standard ID: HERB3AG Initial Calibration: 1H15193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.68	2.66	2.72	443.30	410.40	8.0
Dichlorophenylacetic acid	8.39	8.36	8.42	204.09	200.52	1.8
Dicamba	8.46	8.44	8.50	21.24	20.02	6.1
Mcpp	8.74	8.72	8.78	21327.66	19984.00	6.7
Mcpa	9.00	8.98	9.04	20785.80	19956.00	4.2
2,4-DP	9.37	9.34	9.40	202.80	196.60	3.2
2,4-D	9.68	9.65	9.71	201.76	200.60	0.6
PCP	10.42	10.40	10.46	20.40	19.94	2.3
2,4,5-TP	10.63	10.60	10.66	19.54	19.80	-1.3
2,4,5-T	10.99	10.97	11.03	19.27	20.08	-4.0
2,4-DB	11.53	11.51	11.57	192.82	200.60	-3.9
Dinoseb	11.65	11.62	11.68	85.44	100.70	-15.2
					Average of %D:	4.8

USF03 1668

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Init. Calib Date(s): 07/12/11 07/12/11

GC Column (2) : ZB-35 ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 3H15193B.14R Time Analyzed: 22:14

Lab Standard ID: HERB3AG Initial Calibration: 1H15193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.57	2.55	2.61	435.99	410.40	6.2
Dichlorophenylacetic acid	8.12	8.10	8.16	203.18	200.52	1.3
Dicamba	8.33	8.31	8.37	22.85	20.02	14.1
Mcpp	8.41	8.38	8.44	23070.22	19984.00	15.4
Mcpa	8.74	8.72	8.78	21432.67	19956.00	7.4
2,4-DP	9.07	9.05	9.11	229.64	196.60	16.8
2,4-D	9.47	9.45	9.51	201.55	200.60	0.5
PCP	9.87	9.85	9.91	20.13	19.94	1.0
2,4,5-TP	10.23	10.21	10.27	19.74	19.80	-0.3
2,4,5-T	10.69	10.67	10.73	19.43	20.08	-3.3
Dinoseb	10.98	10.96	11.02	90.51	100.70	-10.1
2,4-DB	11.15	11.12	11.18	192.71	200.60	-3.9
					Average of %D:	6.7

USPB3 1861

8D
ANALYTICAL SEQUENCE

Sequence: 1H15193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-XLB ID: 0.32

Instrument: H8456A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
001		CONDITIONER	07/12/2011	13:59:19	1H15193	8.40
002		CONDITIONER	07/12/2011	14:27:06	1H15193	8.40
003		CONDITIONER	07/12/2011	14:54:47	1H15193	8.40
004		CONDITIONER	07/12/2011	15:22:37	1H15193	8.40
005		CONDITIONER	07/12/2011	15:50:17	1H15193	8.41
006	PIBLKAA	HIBLKX1124A	07/12/2011	16:18:08	1H15193	8.41
007	HERB1AA	HERB11124B	07/12/2011	16:45:52	1H15193	8.40
008	HERB2AA	HERB21124B	07/12/2011	17:13:39	1H15193	8.40
009	HERB3AA	HERB31124B	07/12/2011	17:41:19	1H15193	8.40
010	HERB4AA	HERB41124B	07/12/2011	18:09:11	1H15193	8.40
011	HERB5AA	HERB51124B	07/12/2011	18:36:59	1H15193	8.39
012	MDHEXAA	MDHEX1124C	07/12/2011	19:04:42	1H15193	8.40
013	ICHBXFQ	ICHBX1124C	07/12/2011	19:32:27	1H15193	8.40
014	27611	6332669	07/12/2011	20:00:08	1H15193	8.41
015	PBLK12187	BLANKA	07/12/2011	20:27:50	1H15193	8.40
016	LCS12187	LCSA	07/12/2011	20:55:37	1H15193	8.39
017	LCSD12187	LCSDA	07/12/2011	21:23:20	1H15193	8.40
018	27611	6332669	07/12/2011	21:51:04	1H15193	8.41
019	27611	6332669	07/12/2011	22:18:43	1H15193	8.40
020	SUMP3	6333672	07/12/2011	22:46:27	1H15193	8.40
021	SUMP4	6333673	07/12/2011	23:14:09	1H15193	8.40
022	SUMP5	6333674	07/12/2011	23:41:51	1H15193	8.40
023	SUMP6	6333675	07/13/2011	00:09:27	1H15193	8.40
024	HERB3AG	HERB31124B	07/13/2011	00:37:03	1H15193	8.39
025	PIBLKAA	HIBLKX1124A	07/13/2011	01:04:35	1H15193	8.41
026	0785-	6338983	07/13/2011	01:32:16	1H15193	8.40
027	HERB3AG	HERB31124B	07/13/2011	01:59:52	1H15193	8.39
028	PIBLKAA	HIBLKX1124A	07/13/2011	02:27:27	1H15193	8.41
029		CONDITIONER	07/13/2011	16:07:06	1H15193	8.38
030		CONDITIONER	07/13/2011	16:34:35	1H15193	8.39
031		CONDITIONER	07/13/2011	17:02:13	1H15193	8.39
032	HERB3AG	HERB31124B	07/13/2011	17:29:53	1H15193	8.39
033	PIBLKAA	HIBLKX1124A	07/13/2011	17:57:30	1H15193	8.41

	ICAL Dates		ICAL RT	QC Limits
1H15193	07/12/2011 - 07/12/2011	DCAA = Dichlorophenylacetic acid	8.39	(8.36 - 8.42 Minutes)

USF03 1862

8D
ANALYTICAL SEQUENCE

Sequence: 1H15193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-XLB ID: 0.32

Instrument: H8456A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
034	27611	6332669	07/13/2011	18:25:08	1H15193	8.41
035	27611	6332669	07/13/2011	18:52:46	1H15193	8.41
036	PBLK02193	BLANKA	07/13/2011	19:20:24	1H15193	8.40
037	LCS02193	LCSA	07/13/2011	19:47:54	1H15193	8.39
038	LCSD02193	LCSDA	07/13/2011	20:15:34	1H15193	8.39
039	EBQ02	6338269	07/13/2011	20:43:12	1H15193	8.40
040	EBQ03	6339388	07/13/2011	21:10:54	1H15193	8.40
041	PBLK01193	BLANKA	07/13/2011	21:38:29	1H15193	8.40
042	LCS01193	LCSA	07/13/2011	22:06:03	1H15193	8.39
043	LCSD01193	LCSDA	07/13/2011	22:33:38	1H15193	8.39
044	HERB3AG	HERB31124B	07/13/2011	23:01:16	1H15193	8.39
045	PIBLKAA	HIBLKX1124A	07/13/2011	23:28:47	1H15193	8.41
046	HCT15	6338474	07/13/2011	23:56:22	1H15193	8.39
047	HCT16	6338475	07/14/2011	00:23:49	1H15193	8.39
048	HCT19	6338476	07/14/2011	00:51:24	1H15193	8.39
049	HCT20	6338477	07/14/2011	01:18:57	1H15193	8.39
050	HCT21	6338478	07/14/2011	01:46:30	1H15193	8.38
051	HCT23	6338479	07/14/2011	02:13:57	1H15193	8.39
052	HERB3AG	HERB31124B	07/14/2011	02:41:28	1H15193	8.39
053	PIBLKAA	HIBLKX1124A	07/14/2011	03:08:55	1H15193	8.40

	ICAL Dates		ICAL RT	QC Limits
1H15193	07/12/2011 - 07/12/2011	DCAA = Dichlorophenylacetic acid	8.39	(8.36 - 8.42 Minutes)

USF03 1863

8D
ANALYTICAL SEQUENCE

Sequence: 1H15193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-35 ID: 0.32

Instrument: H8456B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
001		CONDITIONER	07/12/2011	13:59:19	1H15193B	8.13
002		CONDITIONER	07/12/2011	14:27:06	1H15193B	8.13
003		CONDITIONER	07/12/2011	14:54:47	1H15193B	8.14
004		CONDITIONER	07/12/2011	15:22:37	1H15193B	8.13
005		CONDITIONER	07/12/2011	15:50:17	1H15193B	8.14
006	PIBLKAA	HIBLKX1124A	07/12/2011	16:18:08	1H15193B	8.14
007	HERB1AA	HERB11124B	07/12/2011	16:45:52	1H15193B	8.13
008	HERB2AA	HERB21124B	07/12/2011	17:13:39	1H15193B	8.13
009	HERB3AA	HERB31124B	07/12/2011	17:41:19	1H15193B	8.13
010	HERB4AA	HERB41124B	07/12/2011	18:09:11	1H15193B	8.13
011	HERB5AA	HERB51124B	07/12/2011	18:36:59	1H15193B	8.13
012	MDHEXAA	MDHEX1124C	07/12/2011	19:04:42	1H15193B	8.14
013	ICHBXFQ	ICHBX1124C	07/12/2011	19:32:27	1H15193B	8.13
014	27611	6332669	07/12/2011	20:00:08	1H15193B	8.14
015	PBLK12187	BLANKA	07/12/2011	20:27:50	1H15193B	8.14
016	LCS12187	LCSA	07/12/2011	20:55:37	1H15193B	8.13
017	LCSD12187	LCSDA	07/12/2011	21:23:20	1H15193B	8.13
018	27611	6332669	07/12/2011	21:51:04	1H15193B	8.14
019	27611	6332669	07/12/2011	22:18:43	1H15193B	8.13
020	SUMP3	6333672	07/12/2011	22:46:27	1H15193B	8.13
021	SUMP4	6333673	07/12/2011	23:14:09	1H15193B	8.13
022	SUMP5	6333674	07/12/2011	23:41:51	1H15193B	8.13
023	SUMP6	6333675	07/13/2011	00:09:27	1H15193B	8.13
024	HERB3AG	HERB31124B	07/13/2011	00:37:03	1H15193B	8.13
025	PIBLKAA	HIBLKX1124A	07/13/2011	01:04:35	1H15193B	8.14
026	0785-	6338983	07/13/2011	01:32:16	1H15193B	8.13
027	HERB3AG	HERB31124B	07/13/2011	01:59:52	1H15193B	8.13
028	PIBLKAA	HIBLKX1124A	07/13/2011	02:27:27	1H15193B	8.14
029		CONDITIONER	07/13/2011	16:07:06	1H15193B	8.11
030		CONDITIONER	07/13/2011	16:34:35	1H15193B	8.13
031		CONDITIONER	07/13/2011	17:02:13	1H15193B	8.12
032	HERB3AG	HERB31124B	07/13/2011	17:29:53	1H15193B	8.12
033	PIBLKAA	HIBLKX1124A	07/13/2011	17:57:30	1H15193B	8.14

	ICAL Dates		ICAL RT	QC Limits
1H15193B	07/12/2011 - 07/12/2011	DCAA = Dichlorophenylacetic acid	8.13	(8.10 - 8.16 Minutes)

USF93 1864

8D
ANALYTICAL SEQUENCE

Sequence: 1H15193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-35 ID: 0.32

Instrument: H8456B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
034	27611	6332669	07/13/2011	18:25:08	1H15193B	8.14
035	27611	6332669	07/13/2011	18:52:46	1H15193B	8.15
036	PBLK02193	BLANKA	07/13/2011	19:20:24	1H15193B	8.13
037	LCS02193	LCSA	07/13/2011	19:47:54	1H15193B	8.13
038	LCSD02193	LCSDA	07/13/2011	20:15:34	1H15193B	8.12
039	EBQ02	6338269	07/13/2011	20:43:12	1H15193B	8.13
040	EBQ03	6339388	07/13/2011	21:10:54	1H15193B	8.13
041	PBLK01193	BLANKA	07/13/2011	21:38:29	1H15193B	8.13
042	LCS01193	LCSA	07/13/2011	22:06:03	1H15193B	8.12
043	LCSD01193	LCSDA	07/13/2011	22:33:38	1H15193B	8.12
044	HERB3AG	HERB31124B	07/13/2011	23:01:16	1H15193B	8.13
045	PIBLKAA	HIBLKX1124A	07/13/2011	23:28:47	1H15193B	8.14
046	HCT15	6338474	07/13/2011	23:56:22	1H15193B	8.12
047	HCT16	6338475	07/14/2011	00:23:49	1H15193B	8.12
048	HCT19	6338476	07/14/2011	00:51:24	1H15193B	8.12
049	HCT20	6338477	07/14/2011	01:18:57	1H15193B	8.12
050	HCT21	6338478	07/14/2011	01:46:30	1H15193B	8.12
051	HCT23	6338479	07/14/2011	02:13:57	1H15193B	8.12
052	HERB3AG	HERB31124B	07/14/2011	02:41:28	1H15193B	8.12
053	PIBLKAA	HIBLKX1124A	07/14/2011	03:08:55	1H15193B	8.14

	ICAL Dates		ICAL RT	QC Limits
1H15193B	07/12/2011 - 07/12/2011	DCAA = Dichlorophenylacetic acid	8.13	(8.10 - 8.16 Minutes)

8D
ANALYTICAL SEQUENCE

Sequence: 2H15193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-XLB ID: 0.32

Instrument: H8456A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
001		CONDITIONER	07/14/2011	09:04:17	1H15193	8.38
002		CONDITIONER	07/14/2011	09:31:59	1H15193	8.38
003	HERB3AG	HERB31124B	07/14/2011	09:59:29	1H15193	8.38
004	PIBLKAA	HIBLKX1124A	07/14/2011	10:26:57	1H15193	8.41
005	PBLK07194	BLANKA	07/14/2011	10:54:49	1H15193	8.40
006	LCS07194	LCSA	07/14/2011	11:22:18	1H15193	8.40
007	FILLN	6337487	07/14/2011	11:49:53	1H15193	8.40
008	FILLNMS	6337487	07/14/2011	12:17:22	1H15193	8.40
009	FILLNMSD	6337487	07/14/2011	12:44:51	1H15193	8.40
010	NV-14	6337542	07/14/2011	13:12:19	1H15193	8.40
011	NV-14MS	6337542	07/14/2011	13:39:51	1H15193	8.40
012	NV-24	6337549	07/14/2011	14:07:18	1H15193	8.40
013	NV-34	6337556	07/14/2011	14:34:49	1H15193	8.40
014	NV-44	6337563	07/14/2011	15:02:19	1H15193	8.40
015	HERB3AG	HERB31124B	07/14/2011	15:29:55	1H15193	8.39
016	PIBLKAA	HIBLKX1124A	07/14/2011	15:57:25	1H15193	8.41
017	SOILN	6338382	07/14/2011	16:25:02	1H15193	8.39
018	NV714	6339123	07/14/2011	16:52:32	1H15193	8.40
019	NV724	6339130	07/14/2011	17:20:08	1H15193	8.40
020	NV734	6339137	07/14/2011	17:47:50	1H15193	8.40
021	NV744	6339144	07/14/2011	18:15:38	1H15193	8.40
022	NV754	6339151	07/14/2011	18:43:12	1H15193	8.40
023	NV764	6339157	07/14/2011	19:10:46	1H15193	8.40
024	NV774	6339163	07/14/2011	19:38:15	1H15193	8.40
025	NV784	6339169	07/14/2011	20:05:50	1H15193	8.40
026	47A97	6340120	07/14/2011	20:33:19	1H15193	8.40
027	HERB3AG	HERB31124B	07/14/2011	21:00:51	1H15193	8.39
028	PIBLKAA	HIBLKX1124A	07/14/2011	21:28:13	1H15193	8.41
029	PBLK08194	BLANKA	07/14/2011	21:55:43	1H15193	8.40
030	LCS08194	LCSA	07/14/2011	22:23:10	1H15193	8.39
031	LCSD08194	LCSDA	07/14/2011	22:50:40	1H15193	8.39

ICAL Dates		ICAL RT	QC Limits
1H15193	07/12/2011 - 07/24/2011	DCAA = Dichlorophenylacetic acid	8.4	(8.37 - 8.42 Minutes)

USF83 4866

8D
ANALYTICAL SEQUENCE

Sequence: 2H15193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-XLB ID: 0.32

Instrument: H8456A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
032	WREB4	6340962	07/14/2011	23:18:06	1H15193	8.40
033	WRFB1	6340963	07/14/2011	23:46:35	1H15193	8.40
034	PBLK26193	BLANKA	07/15/2011	00:13:58	1H15193	8.39
035	LCS26193	LCSA	07/15/2011	00:41:24	1H15193	8.39
036	LCSD26193	LCSDA	07/15/2011	01:08:47	1H15193	8.39
037		DICDALV	07/15/2011	01:36:14	1H15193	8.39
038		MDLV	07/15/2011	02:03:34	1H15193	
039	HERB3AG	HERB31124B	07/15/2011	02:30:57	1H15193	8.39
040	PIBLKAA	HIBLKX1124A	07/15/2011	02:58:18	1H15193	8.40
041	LCS26193	RL2LCS	07/15/2011	03:25:45	1H15193	8.39
042		24DBDLV	07/15/2011	03:53:06	1H15193	8.39
043	82S05	6339384	07/15/2011	04:20:28	1H15193	8.38
044	82S05	6339377	07/15/2011	04:47:46	1H15193	8.38
045	82S05	6339378	07/15/2011	05:15:08	1H15193	8.38
046	82S05	6339379	07/15/2011	05:42:29	1H15193	8.38
047	WR01S	6337203	07/15/2011	06:09:50	1H15193	8.38
048	WR03S	6337205	07/15/2011	06:37:29	1H15193	8.38
049	WR05S	6337207	07/15/2011	07:04:58	1H15193	8.39
050	WR07S	6337209	07/15/2011	07:32:22	1H15193	8.39
051	HERB3AG	HERB31124B	07/15/2011	07:59:52	1H15193	8.39
052	PIBLKAA	HIBLKX1124A	07/15/2011	08:27:31	1H15193	8.40
053	WR11S	6337212	07/15/2011	08:55:00	1H15193	8.39
054	WR09S	6338249	07/15/2011	09:22:25	1H15193	8.39
055	WR135	6338250	07/15/2011	09:49:56	1H15193	8.39
056	WR295	6338252	07/15/2011	10:17:26	1H15193	8.39
057	WR885	6338261	07/15/2011	10:45:01	1H15193	8.39
058	WR905	6338263	07/15/2011	11:12:34	1H15193	8.39
059	WR90D	6338264	07/15/2011	11:40:09	1H15193	8.39
060	15S05	6339368	07/15/2011	12:07:56	1H15193	8.39
061	17S05	6339370	07/15/2011	12:35:33	1H15193	8.39
062	19S05	6339372	07/15/2011	13:03:08	1H15193	8.39

	ICAL Dates		ICAL RT	QC Limits
H15193	07/12/2011 - 07/24/2011	DCAA = Dichlorophenylacetic acid	8.4	(8.37 - 8.42 Minutes)

USP83 1867

8D
ANALYTICAL SEQUENCE

Sequence: 2H15193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-XLB ID: 0.32

Instrument: H8456A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
063	HERB3AG	HERB31124B	07/15/2011	13:30:44	1H15193	8.39
064	PIBLKAA	HIBLKX1124A	07/15/2011	13:58:07	1H15193	8.40

	ICAL Dates		ICAL RT	QC Limits
1H15193	07/12/2011 - 07/24/2011	DCAA = Dichlorophenylacetic acid	8.4	(8.37 - 8.42 Minutes)

USF03 1668

8D
ANALYTICAL SEQUENCE

Sequence: 2H15193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-35 ID: 0.32

Instrument: H8456B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
001		CONDITIONER	07/14/2011	09:04:17	1H15193B	8.11
002		CONDITIONER	07/14/2011	09:31:59	1H15193B	8.11
003	HERB3AG	HERB31124B	07/14/2011	09:59:29	1H15193B	8.12
004	PIBLKAA	HIBLKX1124A	07/14/2011	10:26:57	1H15193B	8.14
005	PBLK07194	BLANKA	07/14/2011	10:54:49	1H15193B	8.13
006	LCS07194	LCSA	07/14/2011	11:22:18	1H15193B	8.13
007	FILLN	6337487	07/14/2011	11:49:53	1H15193B	8.13
008	FILLNMS	6337487	07/14/2011	12:17:22	1H15193B	8.13
009	FILLNMSD	6337487	07/14/2011	12:44:51	1H15193B	8.13
010	NV-14	6337542	07/14/2011	13:12:19	1H15193B	8.13
011	NV-14MS	6337542	07/14/2011	13:39:51	1H15193B	8.13
012	NV-24	6337549	07/14/2011	14:07:18	1H15193B	8.13
013	NV-34	6337556	07/14/2011	14:34:49	1H15193B	8.13
014	NV-44	6337563	07/14/2011	15:02:19	1H15193B	8.13
015	HERB3AG	HERB31124B	07/14/2011	15:29:55	1H15193B	8.12
016	PIBLKAA	HIBLKX1124A	07/14/2011	15:57:25	1H15193B	8.14
017	SOILN	6338382	07/14/2011	16:25:02	1H15193B	8.13
018	NV714	6339123	07/14/2011	16:52:32	1H15193B	8.13
019	NV724	6339130	07/14/2011	17:20:08	1H15193B	8.13
020	NV734	6339137	07/14/2011	17:47:50	1H15193B	8.13
021	NV744	6339144	07/14/2011	18:15:38	1H15193B	8.13
022	NV754	6339151	07/14/2011	18:43:12	1H15193B	8.13
023	NV764	6339157	07/14/2011	19:10:46	1H15193B	8.13
024	NV774	6339163	07/14/2011	19:38:15	1H15193B	8.13
025	NV784	6339169	07/14/2011	20:05:50	1H15193B	8.13
026	47A97	6340120	07/14/2011	20:33:19	1H15193B	8.13
027	HERB3AG	HERB31124B	07/14/2011	21:00:51	1H15193B	8.12
028	PIBLKAA	HIBLKX1124A	07/14/2011	21:28:13	1H15193B	8.14
029	PBLK08194	BLANKA	07/14/2011	21:55:43	1H15193B	8.13
030	LCS08194	LCSA	07/14/2011	22:23:10	1H15193B	8.12
031	LCSD08194	LCSDA	07/14/2011	22:50:40	1H15193B	8.12
032	WREB4	6340962	07/14/2011	23:18:06	1H15193B	8.13
033	WRFB1	6340963	07/14/2011	23:46:35	1H15193B	8.13

	ICAL Dates		ICAL RT	QC Limits
1H15193B	07/12/2011 - 07/24/2011	DCAA = Dichlorophenylacetic acid	8.13	(8.10 - 8.16 Minutes)

USF83 1869

8D
ANALYTICAL SEQUENCE

Sequence: 2H15193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-35 ID: 0.32

Instrument: H8456B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
034	PBLK26193	BLANKA	07/15/2011	00:13:58	1H15193B	8.12
035	LCS26193	LCSA	07/15/2011	00:41:24	1H15193B	8.12
036	LCSD26193	LCSDA	07/15/2011	01:08:47	1H15193B	8.12
037		DICDALV	07/15/2011	01:36:14	1H15193B	8.12
038		MDLV	07/15/2011	02:03:34	1H15193B	
039	HERB3AG	HERB31124B	07/15/2011	02:30:57	1H15193B	8.12
040	PIBLKAA	HIBLKX1124A	07/15/2011	02:58:18	1H15193B	8.13
041	LCS26193	RL2LCS	07/15/2011	03:25:45	1H15193B	8.12
042		24DBDLV	07/15/2011	03:53:06	1H15193B	8.12
043	82S05	6339384	07/15/2011	04:20:28	1H15193B	8.12
044	82S05	6339377	07/15/2011	04:47:46	1H15193B	8.12
045	82S05	6339378	07/15/2011	05:15:08	1H15193B	8.11
046	82S05	6339379	07/15/2011	05:42:29	1H15193B	8.11
047	WR01S	6337203	07/15/2011	06:09:50	1H15193B	8.11
048	WR03S	6337205	07/15/2011	06:37:29	1H15193B	8.12
049	WR05S	6337207	07/15/2011	07:04:58	1H15193B	8.12
050	WR07S	6337209	07/15/2011	07:32:22	1H15193B	8.12
051	HERB3AG	HERB31124B	07/15/2011	07:59:52	1H15193B	8.12
052	PIBLKAA	HIBLKX1124A	07/15/2011	08:27:31	1H15193B	8.13
053	WR11S	6337212	07/15/2011	08:55:00	1H15193B	8.12
054	WR09S	6338249	07/15/2011	09:22:25	1H15193B	8.12
055	WR135	6338250	07/15/2011	09:49:56	1H15193B	8.12
056	WR295	6338252	07/15/2011	10:17:26	1H15193B	8.12
057	WR885	6338261	07/15/2011	10:45:01	1H15193B	8.12
058	WR905	6338263	07/15/2011	11:12:34	1H15193B	8.12
059	WR90D	6338264	07/15/2011	11:40:09	1H15193B	8.12
060	15S05	6339368	07/15/2011	12:07:56	1H15193B	8.12
061	17S05	6339370	07/15/2011	12:35:33	1H15193B	8.12
062	19S05	6339372	07/15/2011	13:03:08	1H15193B	8.12
063	HERB3AG	HERB31124B	07/15/2011	13:30:44	1H15193B	8.12
064	PIBLKAA	HIBLKX1124A	07/15/2011	13:58:07	1H15193B	8.13

	ICAL Dates		ICAL RT	QC Limits
1H15193B	07/12/2011 - 07/24/2011	DCAA = Dichlorophenylacetic acid	8.13	(8.10 - 8.16 Minutes)

USF03 1870

8D
ANALYTICAL SEQUENCE

Sequence: 3H15193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-XLB ID: 0.32

Instrument: H8456A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
001		CONDITIONER	07/15/2011	16:16:56	1H15193	8.38
002		CONDITIONER	07/15/2011	16:44:19	1H15193	8.39
003	HERB3AG	HERB31124B	07/15/2011	17:11:51	1H15193	8.39
004	PIBLKAA	HIBLKX1124A	07/15/2011	17:39:18	1H15193	8.40
005	HCT19	6338476	07/15/2011	18:06:53	1H15193	8.40
006	HCT20	6338477	07/15/2011	18:34:26	1H15193	8.40
007	HCT21	6338478	07/15/2011	19:01:57	1H15193	8.39
008	HCT23	6338479	07/15/2011	19:29:22	1H15193	
009	21S05	6339374	07/15/2011	19:56:53	1H15193	8.39
010	74S05	6339375	07/15/2011	20:24:26	1H15193	8.39
011	87S05	6339386	07/15/2011	20:51:57	1H15193	8.39
012	PBLK13195	BLANKA	07/15/2011	21:19:29	1H15193	8.39
013	LCS13195	LCSA	07/15/2011	21:46:59	1H15193	8.39
014	HERB3AG	HERB31124B	07/15/2011	22:14:26	1H15193	8.39
015	PIBLKAA	HIBLKX1124A	07/15/2011	22:41:56	1H15193	8.40
016	00297	6340796	07/15/2011	23:09:23	1H15193	8.39
017	00297	6340797	07/15/2011	23:36:52	1H15193	8.39
018	00297	6340798	07/16/2011	00:04:13	1H15193	8.39
019	00149	6340795	07/16/2011	00:31:37	1H15193	8.39
020	00292	6340800	07/16/2011	00:58:58	1H15193	8.39
021	00298	6340801	07/16/2011	01:26:22	1H15193	8.39
022	DP-01	6340802	07/16/2011	01:53:39	1H15193	8.41
023	28900	6342218	07/16/2011	02:20:58	1H15193	8.39
024	29100	6342219	07/16/2011	02:48:13	1H15193	8.39
025	09800	6342220	07/16/2011	03:15:33	1H15193	8.38
026	HERB3AG	HERB31124B	07/16/2011	03:42:49	1H15193	8.39
027	PIBLKAA	HIBLKX1124A	07/16/2011	04:10:35	1H15193	8.40
028	10900	6342221	07/16/2011	04:37:56	1H15193	8.39
029	11000	6342222	07/16/2011	05:05:15	1H15193	8.39
030	11300	6342223	07/16/2011	05:32:28	1H15193	8.38
031	29000	6342224	07/16/2011	06:00:10	1H15193	8.39

	ICAL Dates		ICAL RT	QC Limits
1H15193	07/12/2011 - 07/24/2011	DCAA = Dichlorophenylacetic acid	8.4	(8.37 - 8.42 Minutes)

8D
ANALYTICAL SEQUENCE

Sequence: 3H15193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-XLB ID: 0.32

Instrument: H8456A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
032	HERB3AG	HERB31124B	07/16/2011	06:27:29	1H15193	8.39
033	PIBLKAA	HIBLKX1124A	07/16/2011	06:54:47	1H15193	8.40

	ICAL Dates		ICAL RT	QC Limits
1H15193	07/12/2011 - 07/24/2011	DCAA = Dichlorophenylacetic acid	8.4	(8.37 - 8.42 Minutes)

USF03 1872

8D
ANALYTICAL SEQUENCE

Sequence: 3H15193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: ZB-35 ID: 0.32

Instrument: H8456B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	DCAA
001		CONDITIONER	07/15/2011	16:16:56	1H15193B	8.11
002		CONDITIONER	07/15/2011	16:44:19	1H15193B	8.12
003	HERB3AG	HERB31124B	07/15/2011	17:11:51	1H15193B	8.12
004	PIBLKAA	HIBLKX1124A	07/15/2011	17:39:18	1H15193B	8.13
005	HCT19	6338476	07/15/2011	18:06:53	1H15193B	8.13
006	HCT20	6338477	07/15/2011	18:34:26	1H15193B	8.12
007	HCT21	6338478	07/15/2011	19:01:57	1H15193B	8.13
008	HCT23	6338479	07/15/2011	19:29:22	1H15193B	8.13
009	21S05	6339374	07/15/2011	19:56:53	1H15193B	8.12
010	74S05	6339375	07/15/2011	20:24:26	1H15193B	8.12
011	87S05	6339386	07/15/2011	20:51:57	1H15193B	8.12
012	PBLK13195	BLANKA	07/15/2011	21:19:29	1H15193B	8.12
013	LCS13195	LCSA	07/15/2011	21:46:59	1H15193B	8.12
014	HERB3AG	HERB31124B	07/15/2011	22:14:26	1H15193B	8.12
015	PIBLKAA	HIBLKX1124A	07/15/2011	22:41:56	1H15193B	8.13
016	00297	6340796	07/15/2011	23:09:23	1H15193B	8.11
017	00297	6340797	07/15/2011	23:36:52	1H15193B	8.11
018	00297	6340798	07/16/2011	00:04:13	1H15193B	8.11
019	00149	6340795	07/16/2011	00:31:37	1H15193B	8.12
020	00292	6340800	07/16/2011	00:58:58	1H15193B	8.12
021	00298	6340801	07/16/2011	01:26:22	1H15193B	8.10 *
022	DP-01	6340802	07/16/2011	01:53:39	1H15193B	8.10 *
023	28900	6342218	07/16/2011	02:20:58	1H15193B	8.12
024	29100	6342219	07/16/2011	02:48:13	1H15193B	8.12
025	09800	6342220	07/16/2011	03:15:33	1H15193B	8.12
026	HERB3AG	HERB31124B	07/16/2011	03:42:49	1H15193B	8.12
027	PIBLKAA	HIBLKX1124A	07/16/2011	04:10:35	1H15193B	8.13
028	10900	6342221	07/16/2011	04:37:56	1H15193B	8.12
029	11000	6342222	07/16/2011	05:05:15	1H15193B	8.12
030	11300	6342223	07/16/2011	05:32:28	1H15193B	8.10 *
031	29000	6342224	07/16/2011	06:00:10	1H15193B	8.13
032	HERB3AG	HERB31124B	07/16/2011	06:27:29	1H15193B	8.12
033	PIBLKAA	HIBLKX1124A	07/16/2011	06:54:47	1H15193B	8.13

	ICAL Dates		ICAL RT	QC Limits
1H15193B	07/12/2011 - 07/24/2011	DCAA = Dichlorophenylacetic acid	8.13	(8.10 - 8.16 Minutes)

05583 1873

Sample Data

USF83 1974

Lancaster Laboratories

LOQ/MDL Summary
Pesticide Residue Analysis

SDG: USF03

Fraction: Herbicides

10407: Herb water 8151A Master Analyte Name	Default MDL	Default LOQ	Units
Dalapon	0.25	1.3	ug/l
Dicamba	0.080	0.30	ug/l
MCPP	50	200	ug/l
MCPA	300	1,000	ug/l
2,4-DP (Dichlorprop)	0.16	0.50	ug/l
2,4-D	0.16	0.50	ug/l
2,4,5-TP	0.010	0.050	ug/l
2,4,5-T	0.015	0.050	ug/l
2,4-DB	0.30	1.0	ug/l
Dinoseb	0.10	0.50	ug/l

10401: Herbicide soils 8151A Master Analyte Name	Default MDL	Default LOQ	Units
2,4-D	12	36	ug/kg
Dalapon	44	90	ug/kg
2,4,5-TP	0.75	1.7	ug/kg
Dicamba	4.0	12	ug/kg
MCPP (Mecoprop)	750	2,500	ug/kg
Dinoseb	8.0	24	ug/kg
MCPA	760	2,500	ug/kg
2,4-DP (Dichloroprop)	8.0	17	ug/kg
2,4,5-T	0.82	1.7	ug/kg
2,4-DB	6.2	17	ug/kg

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339368 F 15S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60.1 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 12:07:56
Instrument : CP15--H8456A
Result file : 2H15193.60R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 75% (36-156) Conc.: 4.991894

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.36	8.39	8.42	6018	4.991894
DICAMBA	8.44	8.45	8.50	691	0.141798
MCPP	8.72	8.72	8.78	1703	324.884583
MCPA	8.98	9.04	9.04	3165	421.423523
2,4-DP	9.34	9.38	9.40	622	0.466094
DBOFB	9.84	9.86	9.90	37505 E	1.663894
2,4,5-T	10.97	10.97	11.03	5011	0.668262
2,4-DB	11.51	11.55	11.57	41950 E	48.536091
DINOSEB	11.62	11.67	11.68	184	0.038364

Analysis Report (B)

Injected on : JUL 15, 2011 12:07:56
Instrument : CP15--H8456B
Result file : 2H15193B.60R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 84.1% (36-156) Conc.: 5.597991

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.12	8.16	14871	5.597991
DICAMBA	8.31	8.35	8.37	9437	0.931767
MCPA	8.72	8.73	8.78	9088	680.137573
DBOFB	8.93	8.95	8.99	72335	1.663894
2,4-DP	9.05	9.07	9.11	882	0.382401
2,4-D	9.45	9.45	9.51	9173	3.037436
PCP	9.85	9.87	9.91	2849	0.073245
2,4-DB	11.12	11.16	11.18	9066	4.944768

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference		Comments
☑ Dalapon			<8.9851	<4.3927				
☐ DCAA	B	5.597991				11.45		
☑ DICAMBA			<1.198	<0.3993				
☑ MCPP			<249.585	<74.8755				
☑ MCPA	A	421.423523	249.585	75.8738		46.97	**	
☑ 2,4-DP			<1.6972	<0.7987				
☑ 2,4-D			<3.594	<1.198				
☐ DBOFB	A	1.663894			E	0.00		
☐ PCP			<0.1697	<0.0329				
☑ 2,4,5-TP			<0.1697	<0.0749				
☑ 2,4,5-T			<0.1697	<0.0819				
☑ 2,4-DB	B	4.944768	1.6972	0.619		163.02	**	WC < 5.0
☑ DINOSEB			<2.396	<0.7987				

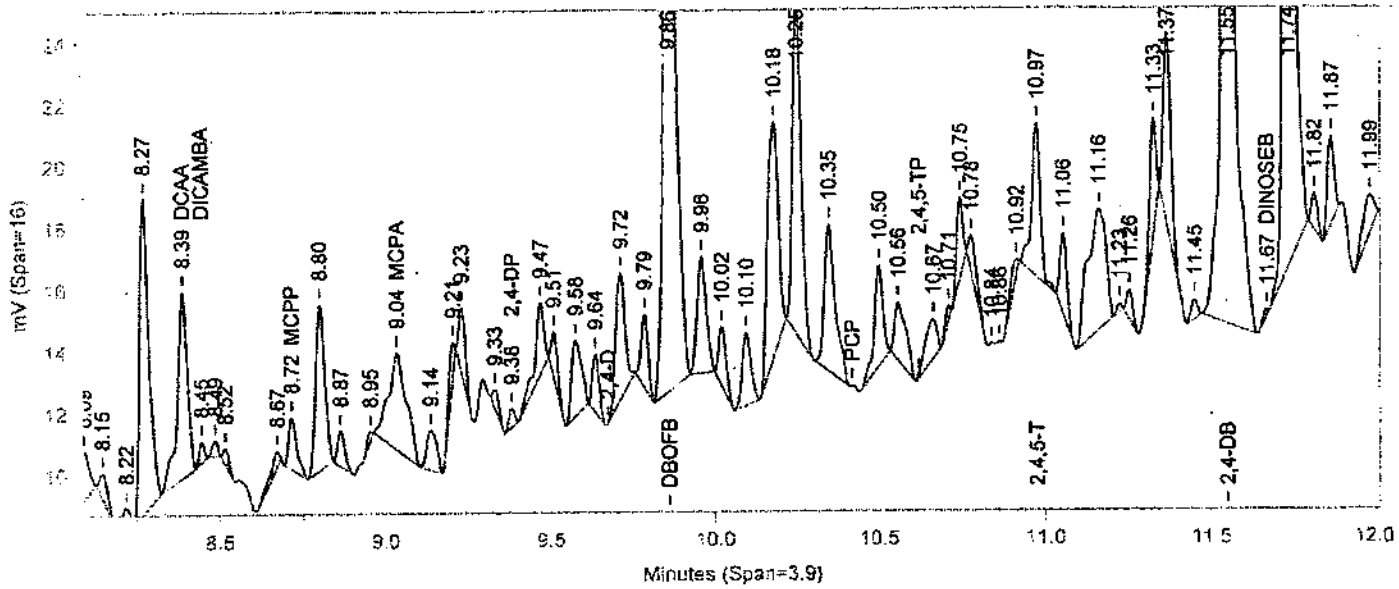
Units: ug/kg

Reviewed by: 1145 Verified by:
Date: 7-17-11 Date:

USF03 1876

%Difference = High - Low Amount divided by the Average times 100
Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/15/11 14:32:29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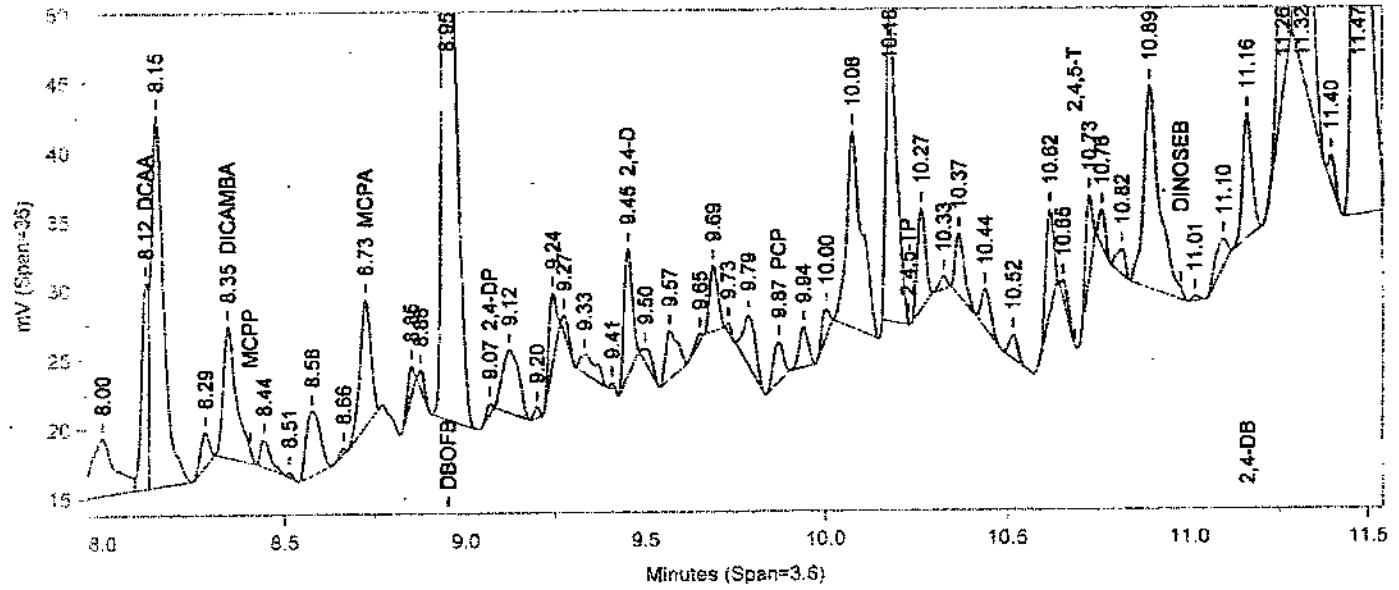
8.39 DCAA
DICAMBA
8.72 MCPP
8.80
9.04 MCPA
9.23
2,4-DP
9.72
9.79
9.98
10.02
10.10
10.18
10.35
PCP
10.50
10.56
2,4-TP
10.75
10.78
10.92
10.97
11.06
11.16
11.33
11.45
11.67 DINOSEB
11.82
11.87
11.99
DBOFB
2,4-T
2,4-DB
8.5
9.0
9.5
10.0
10.5
11.0
11.5
12.0
Minutes (Span=3.9)


mV (Span=35)
8.00
8.12 DCAA
8.15
8.29
8.35 DICAMBA
MCPP
8.44
8.51
8.58
8.66
8.73 MCPA
8.95
DBOFB
9.07 2,4-DP
9.12
9.24
9.27
9.33
9.41
9.45 2,4-D
9.50
9.57
9.65
9.69
9.73
9.79
9.87 PCP
9.94
10.00
10.08
10.27
2,4,5-TP
10.33
10.37
10.44
10.52
10.82
2,4,5-T
10.89
DINOSEB
11.01
11.10
11.16
2,4-DB
11.40
8.0
8.5
9.0
9.5
10.0
10.5
11.0
11.5
Minutes (Span=3.6)

LANCASTER LABORATORIES

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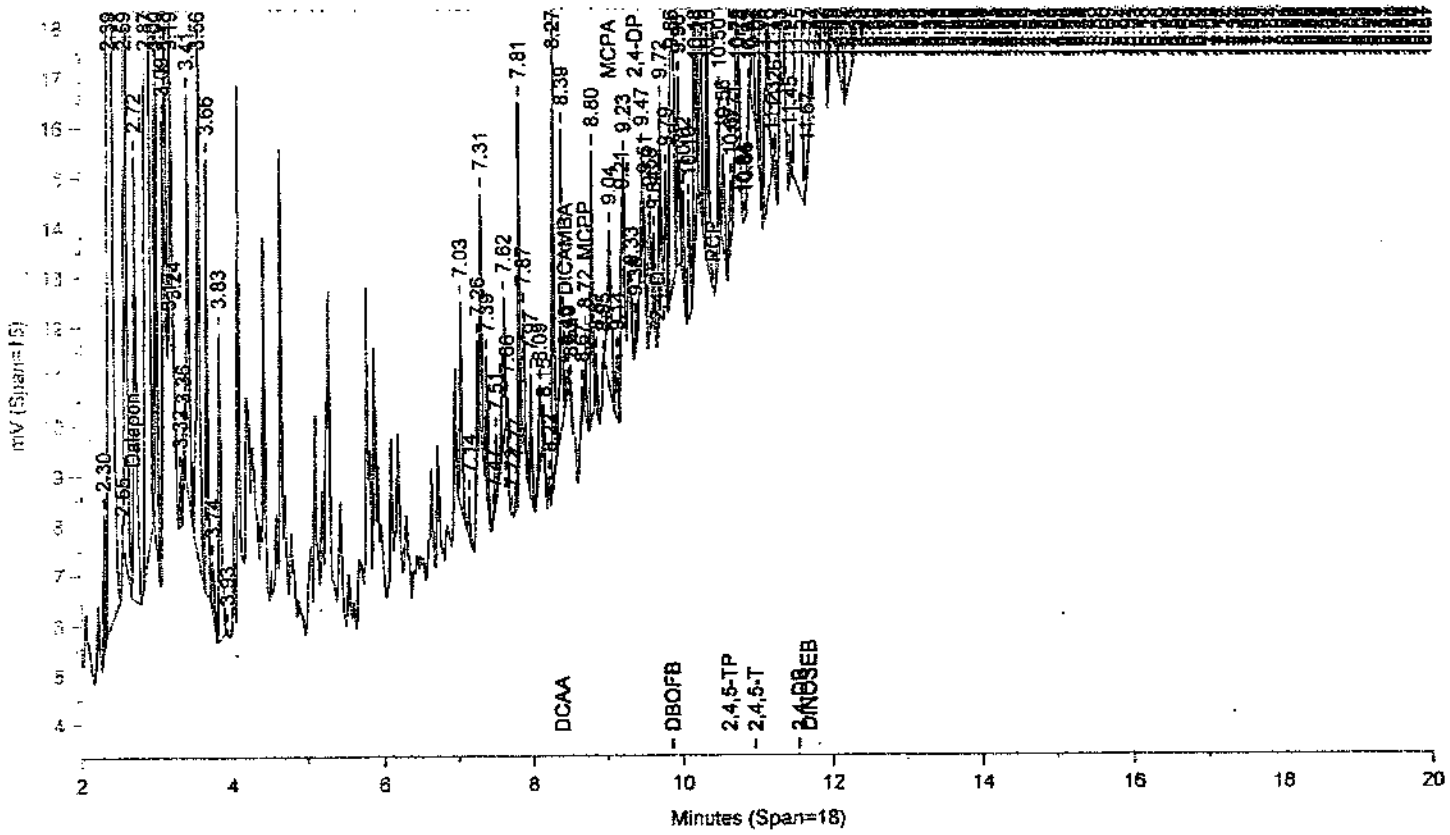
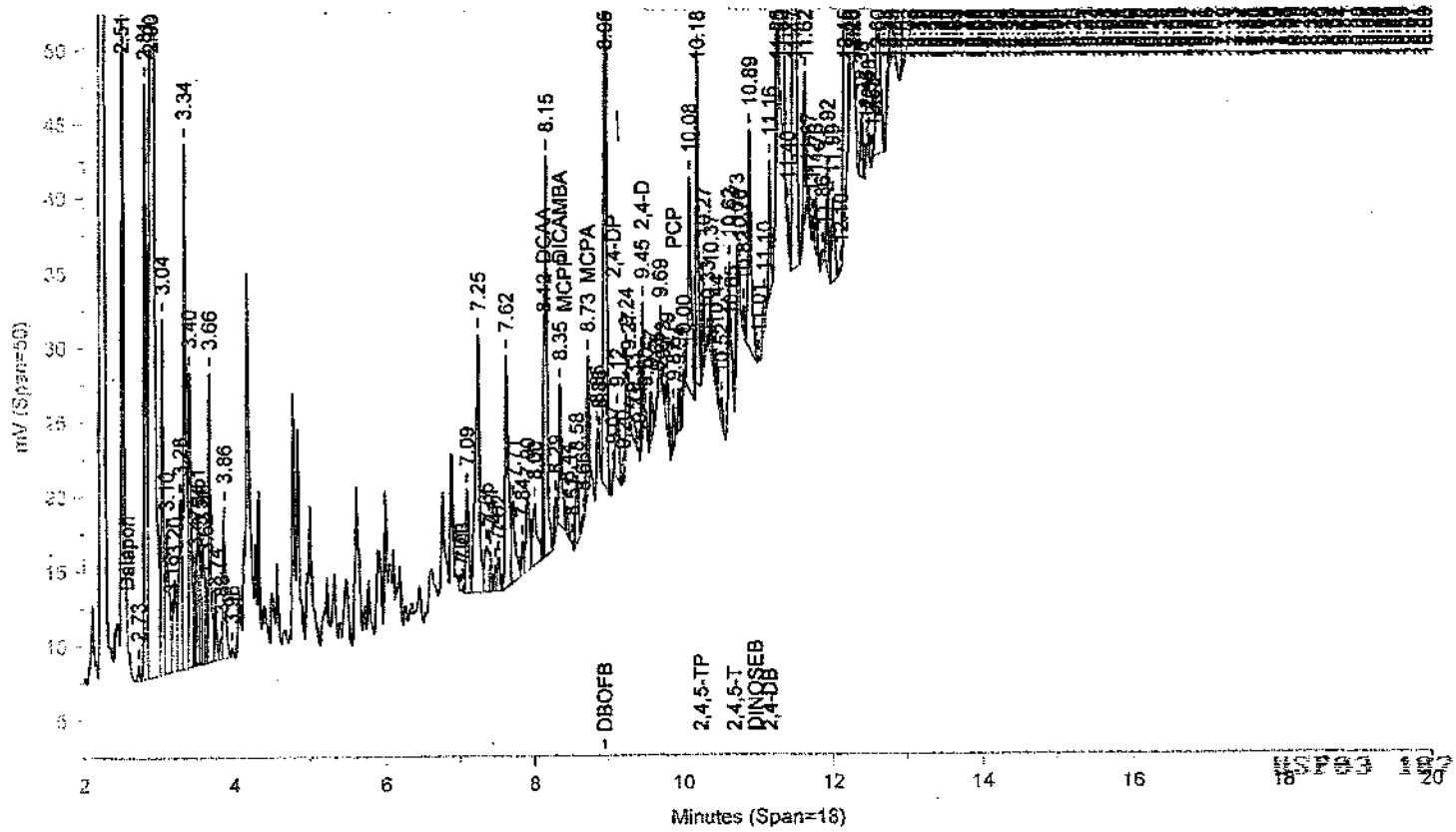


Instrument ID: CP15--H8456A Injected On: 7/15/2011 12:07:56 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.60R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 12:07:56 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60.1 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.39	6018	4.992	DCAA	8.124	14871	5.598	DCAA
8.446	691	.142	DICAMBA	8.347	9437	.932	DICAMBA
8.716	1703	324.885	MCPP	.	0	.	MCPP
9.036	3165	421.424	MCPA	8.726	9088	680.138	MCPA
9.863	37505	1.664	DBOFB	8.952	72335	1.664	DBOFB
9.384	622	.466	2,4-DP	9.068	882	.382	2,4-DP
.	0	.	2,4-D	9.453	9173	3.037	2,4-D
.	0	.	PCP	9.87	2849	.073	PCP
10.975	5011	.668	2,4,5-T	.	0	.	2,4,5-T
11.552	41950	48.536	2,4-DB	11.161	9066	4.945	2,4-DB
11.672	184	.038	DINOSEB	.	0	.	DINOSEB

Files:
Area File: C:\CPWIN\DATA1\2H15193.60A
Area File: C:\CPWIN\DATA1\2H15193B.60A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 12:28:02 PM
File Reported On: 7/15/2011 at 12:28:08 PM

USPB3 1879

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339370F 17S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60.5 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 12:35:33
Instrument : CP15--H8456A
Result file : 2H15193.61R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 80.1% (36-156) Conc.: 5.296307

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.36	8.39	8.42	6300	5.296307
DICAMBA	8.44	8.45	8.50	718	0.149536
MCPP	8.72	8.72	8.78	1386	268.056671
MCPA	8.98	9.04	9.04	609	82.128433
DBOFB	9.84	9.86	9.90	36760	1.652893
2,4,5-T	10.97	10.98	11.03	4211	0.569232
2,4-DB	11.51	11.55	11.57	47884 E	56.151165
DINOSEB	11.62	11.67	11.68	387	0.081644

Analysis Report (B)

Injected on : JUL 15, 2011 12:35:33
Instrument : CP15--H8456B
Result file : 2H15193B.61R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 85.5% (36-156) Conc.: 5.653811

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.12	8.16	15590	5.653811
DICAMBA	8.31	8.35	8.37	11020	1.048158
MCPA	8.72	8.73	8.78	76397 E	5508.116699
DBOFB	8.93	8.95	8.99	74591	1.652893
2,4-DP	9.05	9.07	9.11	1352	0.564453
2,4-D	9.45	9.45	9.51	5157	1.644944
PCP	9.85	9.87	9.91	2224	0.055083
2,4-DB	11.12	11.16	11.18	12656	6.649673

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon			<8.9257	<4.3637			
☐ DCAA	B	5.653811				6.53	
☑ DICAMBA			<1.1901	<0.3967			
☑ MCPP			<247.935	<74.3805			
☑ MCPA	A	82.128433	<247.935	75.3722	J	194.12 **	WC < 83
☑ 2,4-DP			<1.686	<0.7934			
☑ 2,4-D			<3.5703	<1.1901			
☐ DBOFB	A	1.652893				0.00	
☐ PCP			<0.1686	<0.0327			
☑ 2,4,5-TP			<0.1686	<0.0744			
☑ 2,4,5-T			<0.1686	<0.0813			
☑ 2,4-DB	B	6.649673	1.686	0.6149		157.65 **	WC < 6.8
☑ DINOSEB			<2.3802	<0.7934			

Units: ug/kg

Reviewed by: P1145 Verified by:
Date: 7-17-11 Date: 7/20/11

USF03 1888

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/15/11 14:32:44

LANCASTER LABORATORIES

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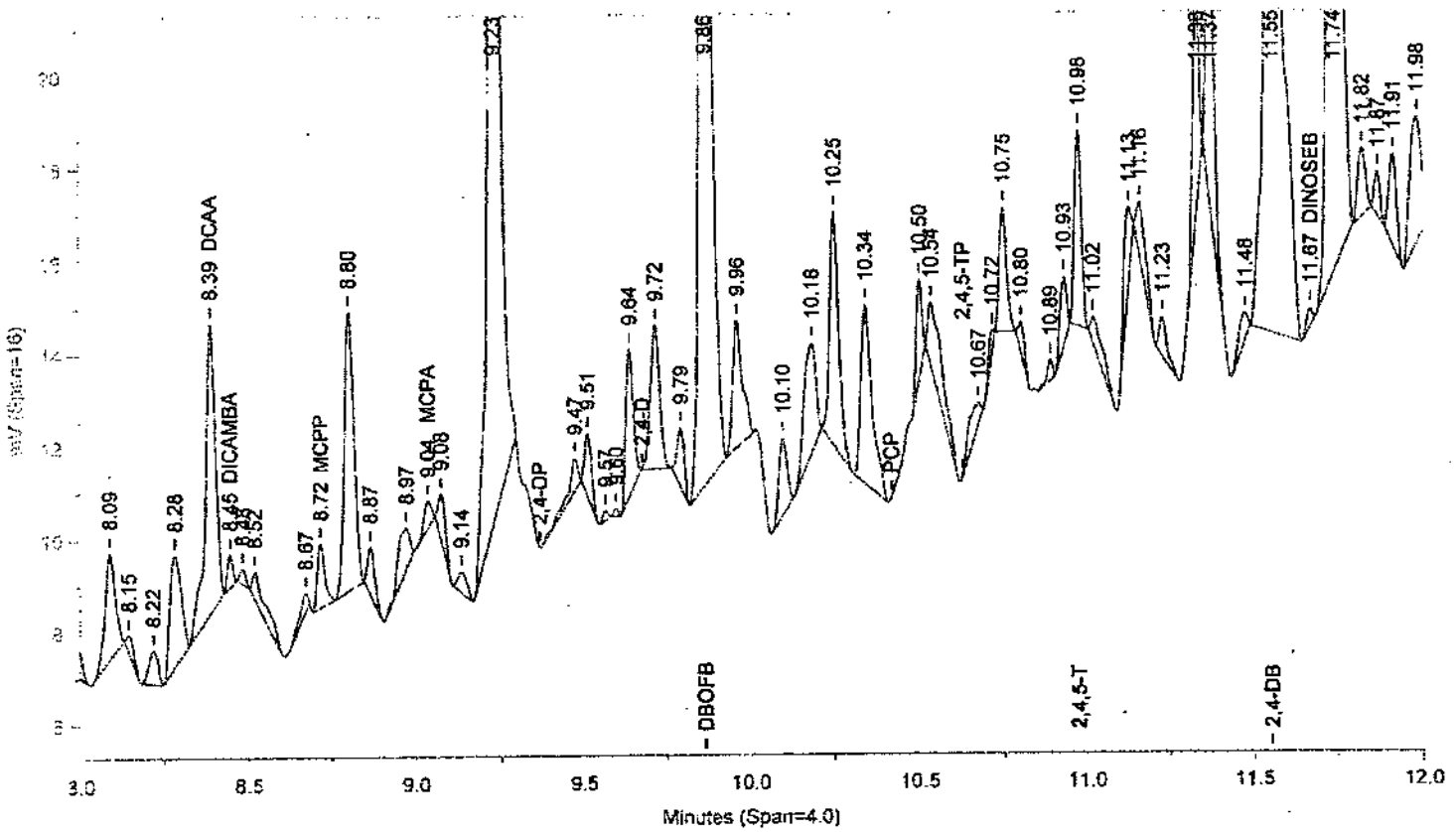
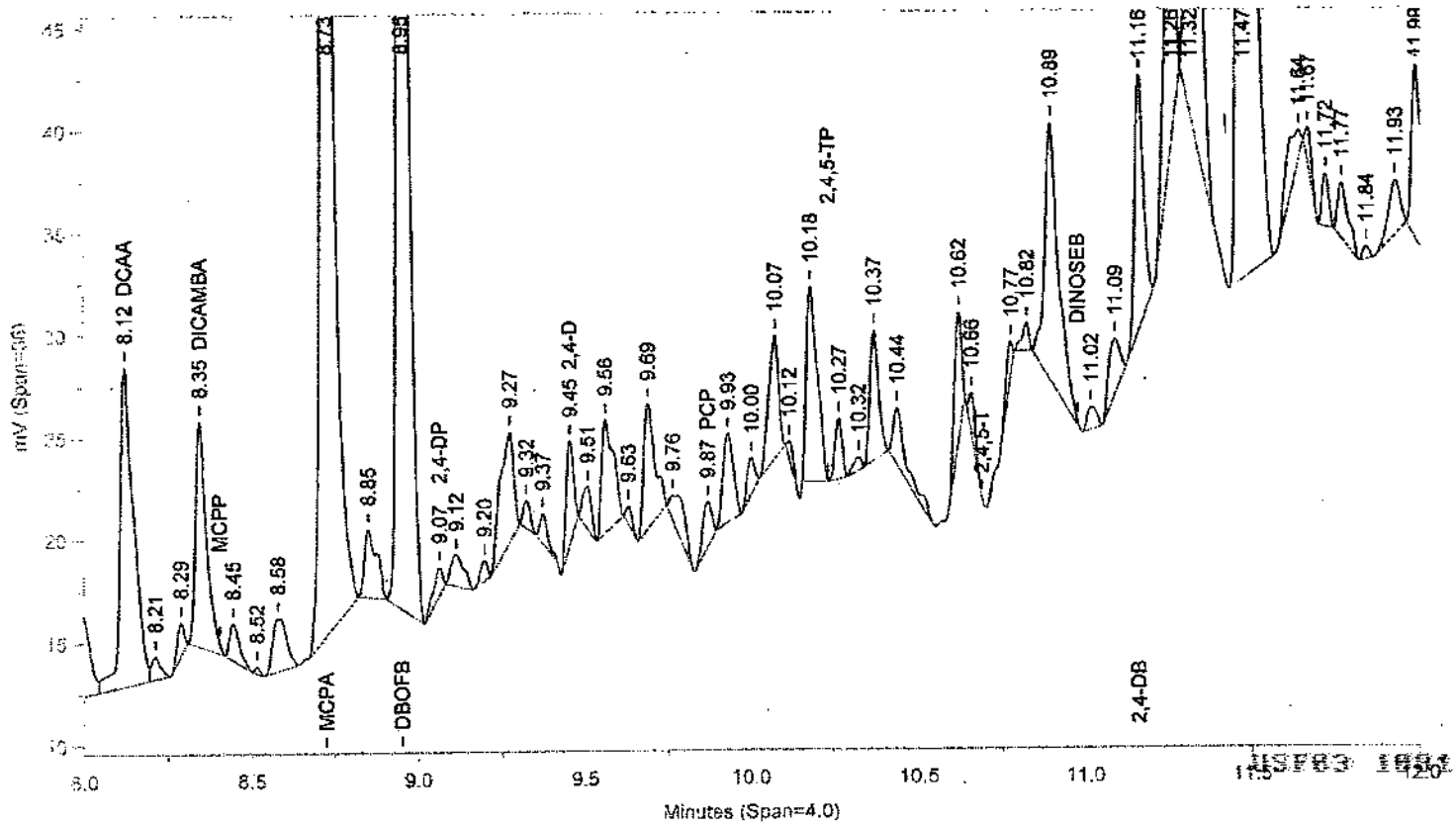


Instrument ID: CP15--H8456A Injected On: 7/15/2011 12:35:33 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.61R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 12:35:33 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

LANCASTER LABORATORIES

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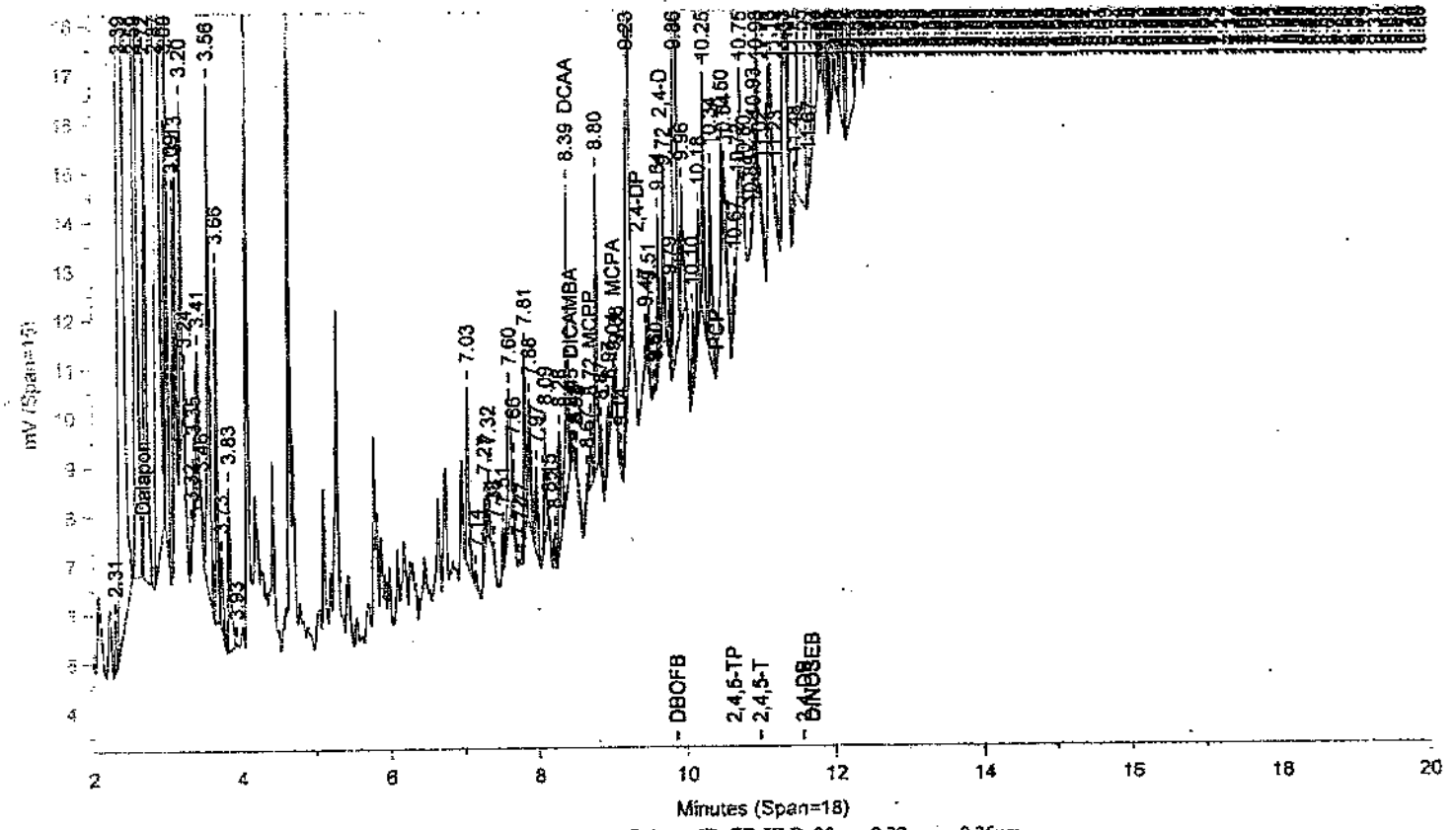
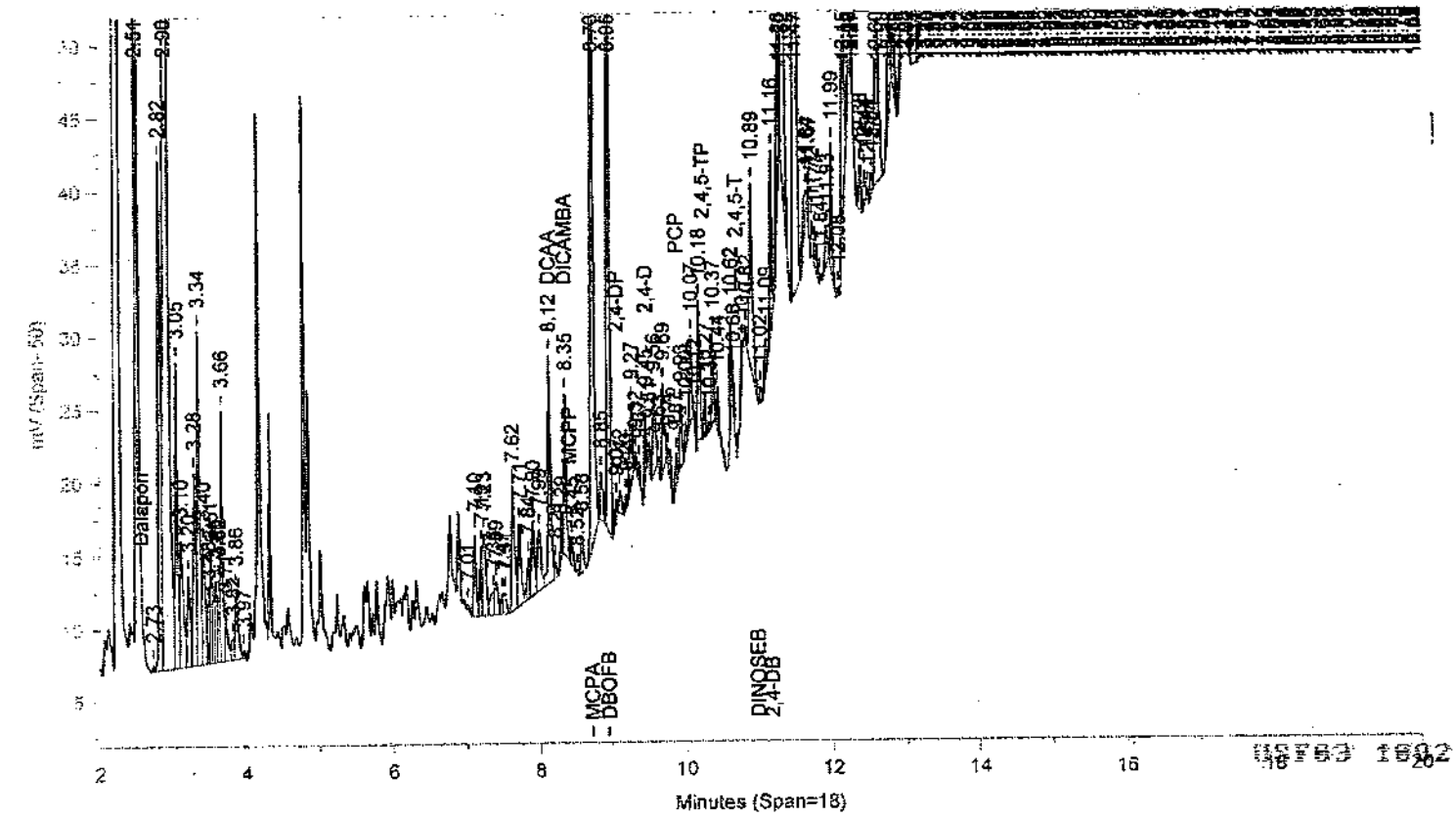


Instrument ID: CP15--H8456A Injected On: 7/15/2011 12:35:33 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.61R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 12:35:33 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60.5 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.391	6300	5.296	DCAA	8.124	15590	5.654	DCAA
8.447	718	.15	DICAMBA	8.347	11020	1.048	DICAMBA
8.718	1386	268.057	MCPP	.	0	.	MCPP
9.038	609	82.128	MCPA	8.727	76397	5508.117	MCPA
9.864	36760	1.653	DBOFB	8.953	74591	1.653	DBOFB
.	0	.	2,4-DP	9.066	1352	.564	2,4-DP
.	0	.	2,4-D	9.454	5157	1.645	2,4-D
.	0	.	PCP	9.871	2224	.055	PCP
10.976	4211	.569	2,4,5-T	.	0	.	2,4,5-T
11.553	47884	56.151	2,4-DB	11.162	12656	6.65	2,4-DB
11.67	387	.082	DINOSEB	.	0	.	DINOSEB

Files:
Area File: C:\CPWIN\DATA1\2H15193.61A
Area File: C:\CPWIN\DATA1\2H15193B.61A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 12:55:40 PM
File Reported On: 7/15/2011 at 12:55:46 PM

USP83 1883

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339372 F 19S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60.3 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 13:03:08
Instrument : CP15--H8456A
Result file : 2H15193.62R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 81.3% (36-156) Conc.: 5.391108

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.36	8.39	8.42	6231	5.391108
DICAMBA	8.44	8.48	8.50	508	0.108863
MCPP	8.72	8.72	8.78	567	112.867317
2,4-DP	9.34	9.39	9.40	48	0.037502
DBOFB	9.84	9.86	9.90	35835	1.658375
2,4,5-T	10.97	10.98	11.03	3184	0.442961
2,4-DB	11.51	11.55	11.57	18112	21.859665
DINOSEB	11.62	11.66	11.68	423	0.091900

Analysis Report (B)

Injected on : JUL 15, 2011 13:03:08
Instrument : CP15--H8456B
Result file : 2H15193B.62R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 81.4% (36-156) Conc.: 5.401081

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.12	8.16	15003	5.401081
DICAMBA	8.31	8.35	8.37	8556	0.807834
MCPA	8.72	8.73	8.78	7189	514.499939
DBOFB	8.93	8.95	8.99	75389	1.658375
2,4-DP	9.05	9.06	9.11	647	0.268112
2,4-D	9.45	9.46	9.51	4375	1.385490
PCP	9.85	9.86	9.91	1696	0.041697
2,4,5-TP	10.21	10.21	10.27	1670	0.100015
2,4-DB	11.12	11.16	11.18	3822	1.993399

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon			<8.9552	<4.3781			
☐ DCAA	B	5.401081				0.18	
☑ DICAMBA			<1.194	<0.398			
☑ MCPP			<248.755	<74.6265			
☑ MCPA			<248.755	<75.6215			
☑ 2,4-DP			<1.6915	<0.796			
☑ 2,4-D			<3.5821	<1.194			
☐ DBOFB	A	1.658375				0.00	
☐ PCP			<0.1692	<0.0328			
☑ 2,4,5-TP			<0.1692	<0.0746			
☑ 2,4,5-T			<0.1692	<0.0816			
☑ 2,4-DB	B	1.993399	1.6915	0.6169		166.57 **	WC < 2,1
☑ DINOSEB			<2.388	<0.796			

Units: ug/kg

Reviewed by: 1145 Verified by:
Date: 7-17-11 Date:

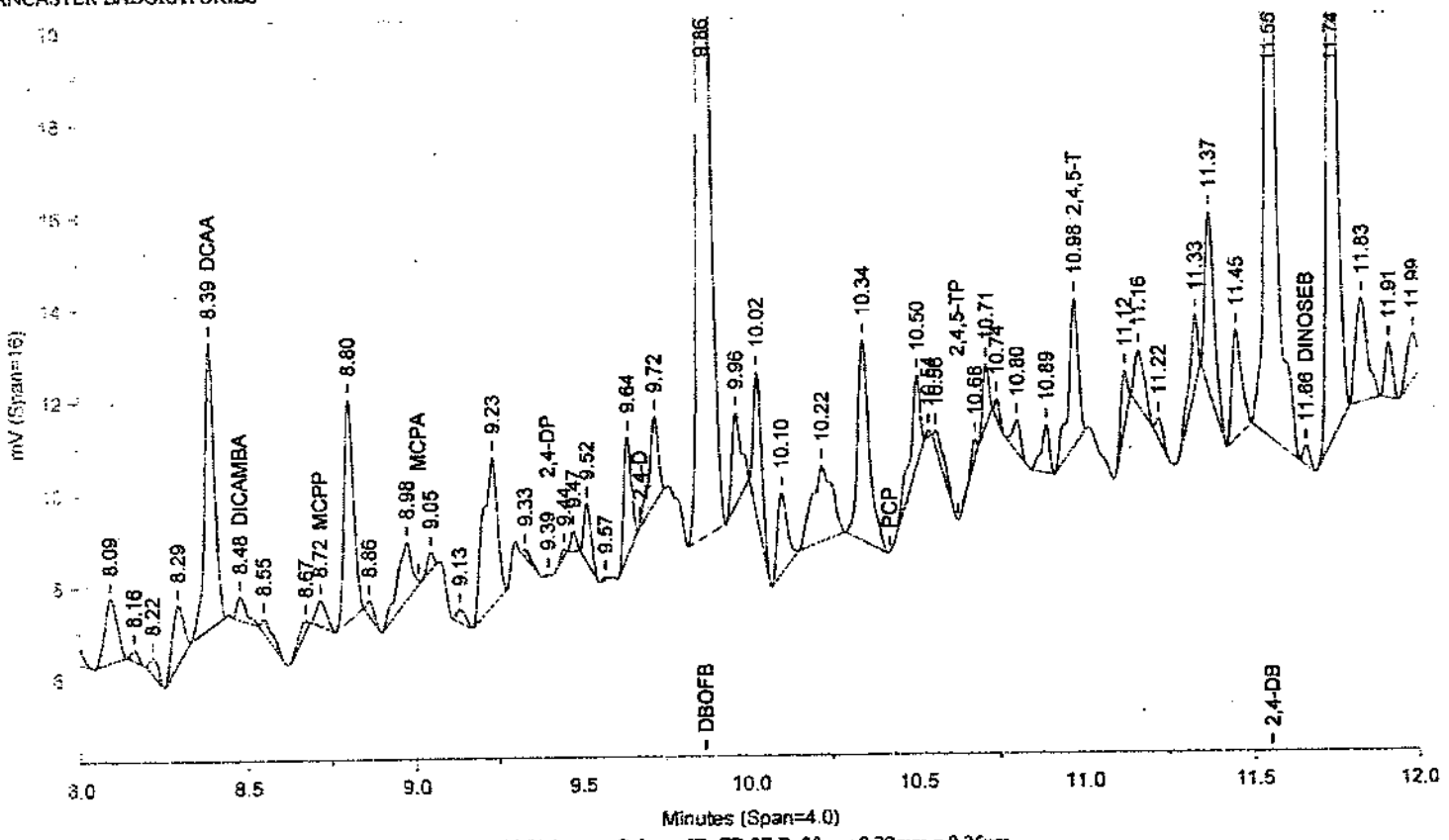
USF03 1884

%Difference = High - Low Amount divided by the Average times 100
Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/15/11 14:33:00

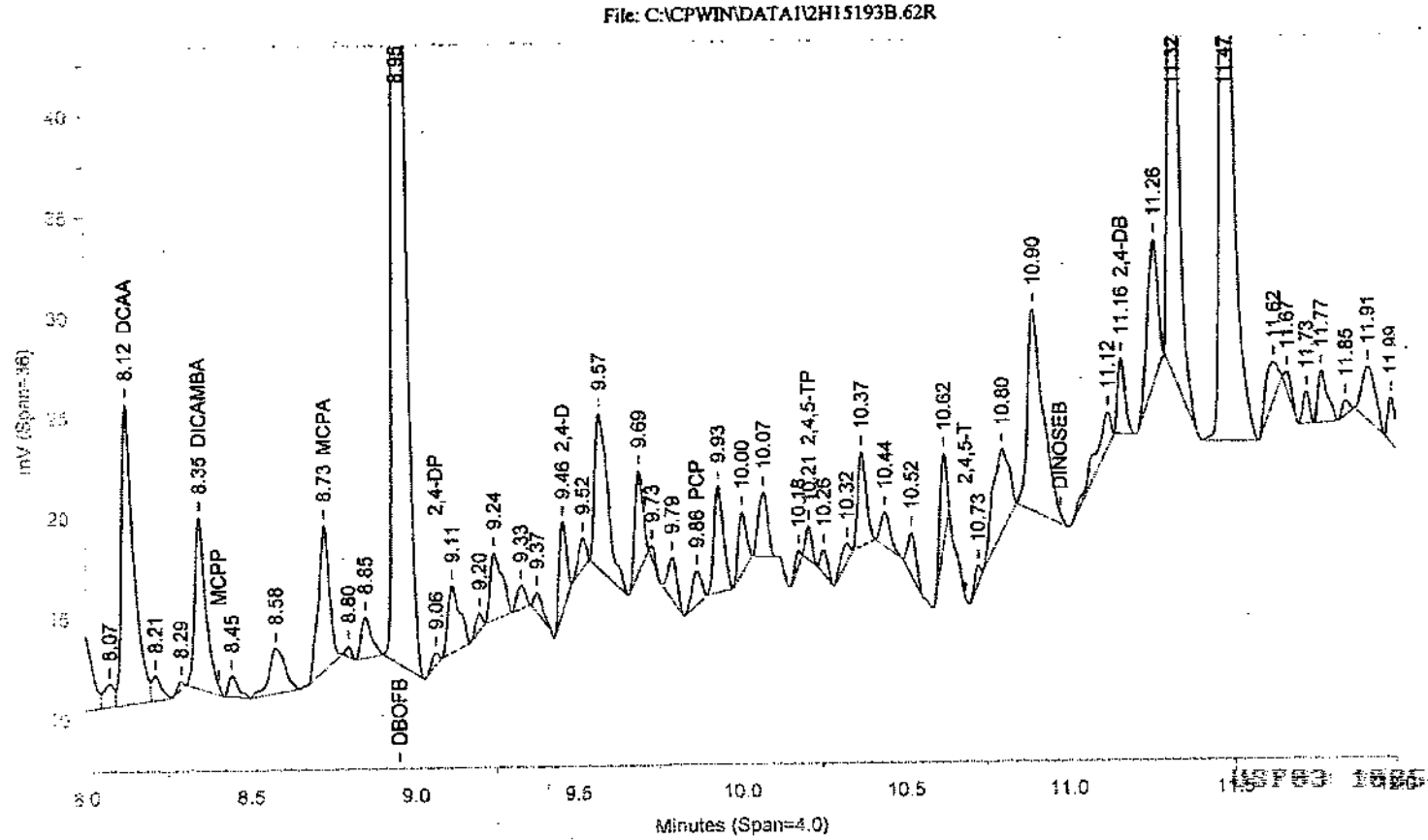
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.62R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 1:03:08 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

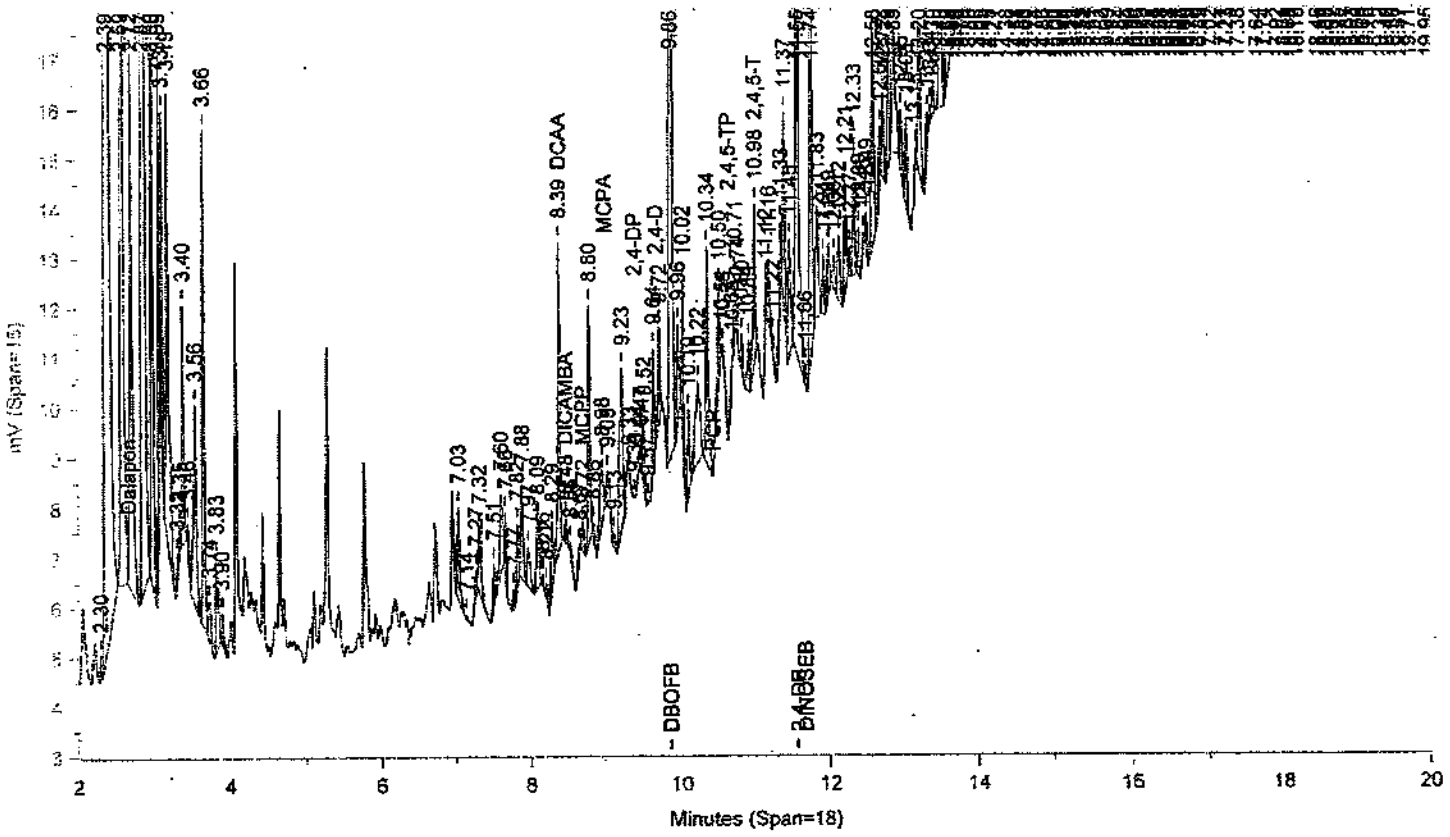
File: C:\CPWIN\DATA1\2H15193B.62R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 1:03:08 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

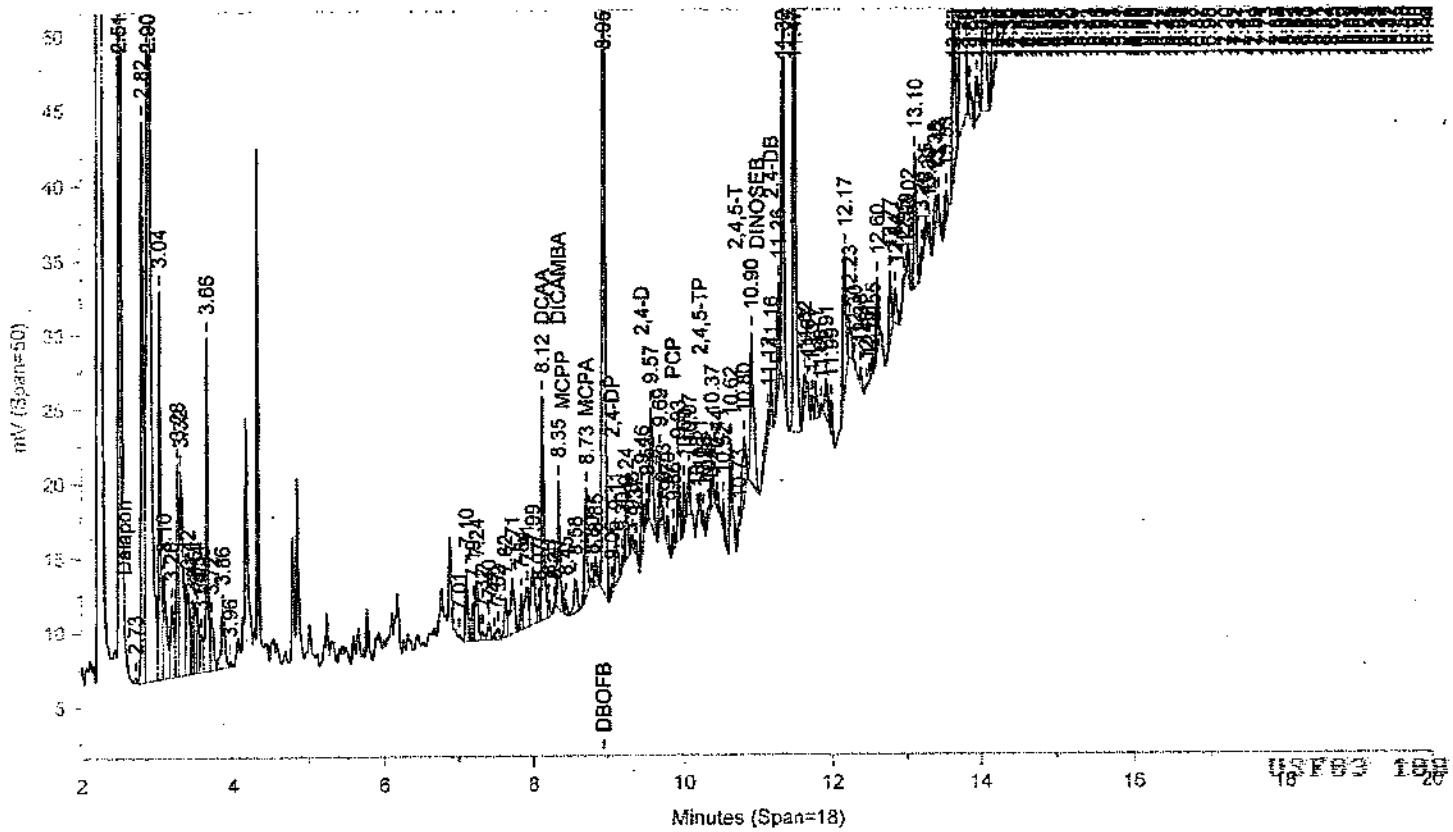
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.62R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 1:03:08 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.62R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 1:03:08 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60.3 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.391	6231	5.391	DCAA	8.124	15003	5.401	DCAA
8.48	508	.109	DICAMBA	8.348	8556	.808	DICAMBA
8.717	567	112.867	MCPP	.	0	.	MCPP
.	0	.	MCPA	8.727	7189	514.5	MCPA
9.864	35835	1.658	DBOFB	8.953	75389	1.658	DBOFB
9.395	48	.038	2,4-DP	9.064	647	.268	2,4-DP
.	0	.	2,4-D	9.455	4375	1.385	2,4-D
.	0	.	PCP	9.863	1696	.042	PCP
.	0	.	2,4,5-TP	10.21	1670	.1	2,4,5-TP
10.976	3184	.443	2,4,5-T	.	0	.	2,4,5-T
11.553	18112	21.86	2,4-DB	11.161	3822	1.993	2,4-DB
11.663	423	.092	DINOSEB	.	0	.	DINOSEB

Files:
Area File: C:\CPWIN\DATA1\2H15193.62A
Area File: C:\CPWIN\DATA1\2H15193B.62A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 1:23:14 PM
File Reported On: 7/15/2011 at 1:23:20 PM

USF63 2087

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339374 F 21S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60.5 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 19:56:53
Instrument : CP15--H8456A
Result file : 3H15193.09R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 81.3% (36-156) Conc.: 5.377683

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.38	8.39	8.42	6281	5.377683
DICAMBA	8.44	8.45	8.50	257	0.054577
MCPP	8.72	8.72	8.78	1387	273.194824
DBOFB	9.84	9.86	9.90	36093	1.652893
2,4,5-T	10.97	10.98	11.03	3654	0.503110
2,4-DB	11.51	11.55	11.57	35421 E	42.304058
DINOSEB	11.62	11.67	11.68	336	0.072189

Analysis Report (B)

Injected on : JUL 15, 2011 19:56:53
Instrument : CP15--H8456B
Result file : 3H15193B.09R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 84.4% (36-156) Conc.: 5.581706

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.12	8.16	15148	5.581706
DICAMBA	8.31	8.35	8.37	8752	0.845837
MCPA	8.72	8.73	8.78	16776	1228.952515
DBOFB	8.93	8.95	8.99	73413	1.652893
2,4-DP	9.05	9.07	9.11	1725	0.732132
2,4-D	9.45	9.46	9.51	5538	1.794738
PCP	9.85	9.87	9.91	2322	0.058416
2,4-DB	11.12	11.16	11.18	9123	4.870179

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon			<8.9257	<4.3637			
☐ DCAA	B	5.581706				3.72	
☑ DICAMBA			<1.1901	<0.3967			
☑ MCPP			<247.935	<74.3805			
☑ MCPA			<247.935	<75.3722			
☑ 2,4-DP			<1.686	<0.7934			
☑ 2,4-D			<3.5703	<1.1901			
☐ DBOFB	A	1.652893				0.00	
☐ PCP			<0.1686	<0.0327			
☑ 2,4,5-TP			<0.1686	<0.0744			
☑ 2,4,5-T			<0.1686	<0.0813			
☑ 2,4-DB	B	4.870179	1.686	0.6149		158.70	** WC < 5.0
☑ DINOSEB			<2.3802	<0.7934			

Units: ug/kg

Reviewed by: 1145 Verified by:
Date: 7-17-11 Date: 7/18/11

USF03 1888

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/17/11 08:34:17

LANCASTER LABORATORIES

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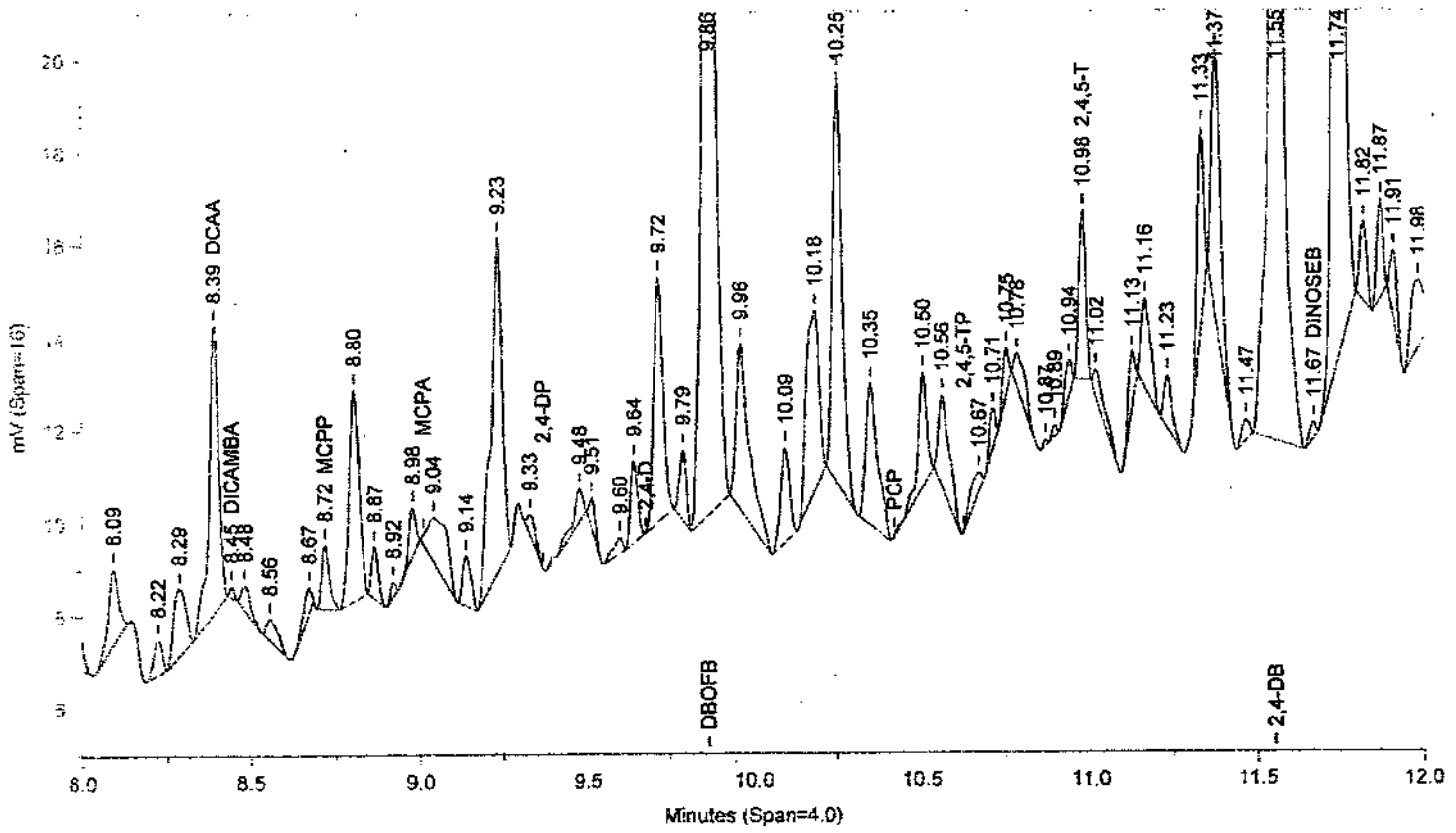
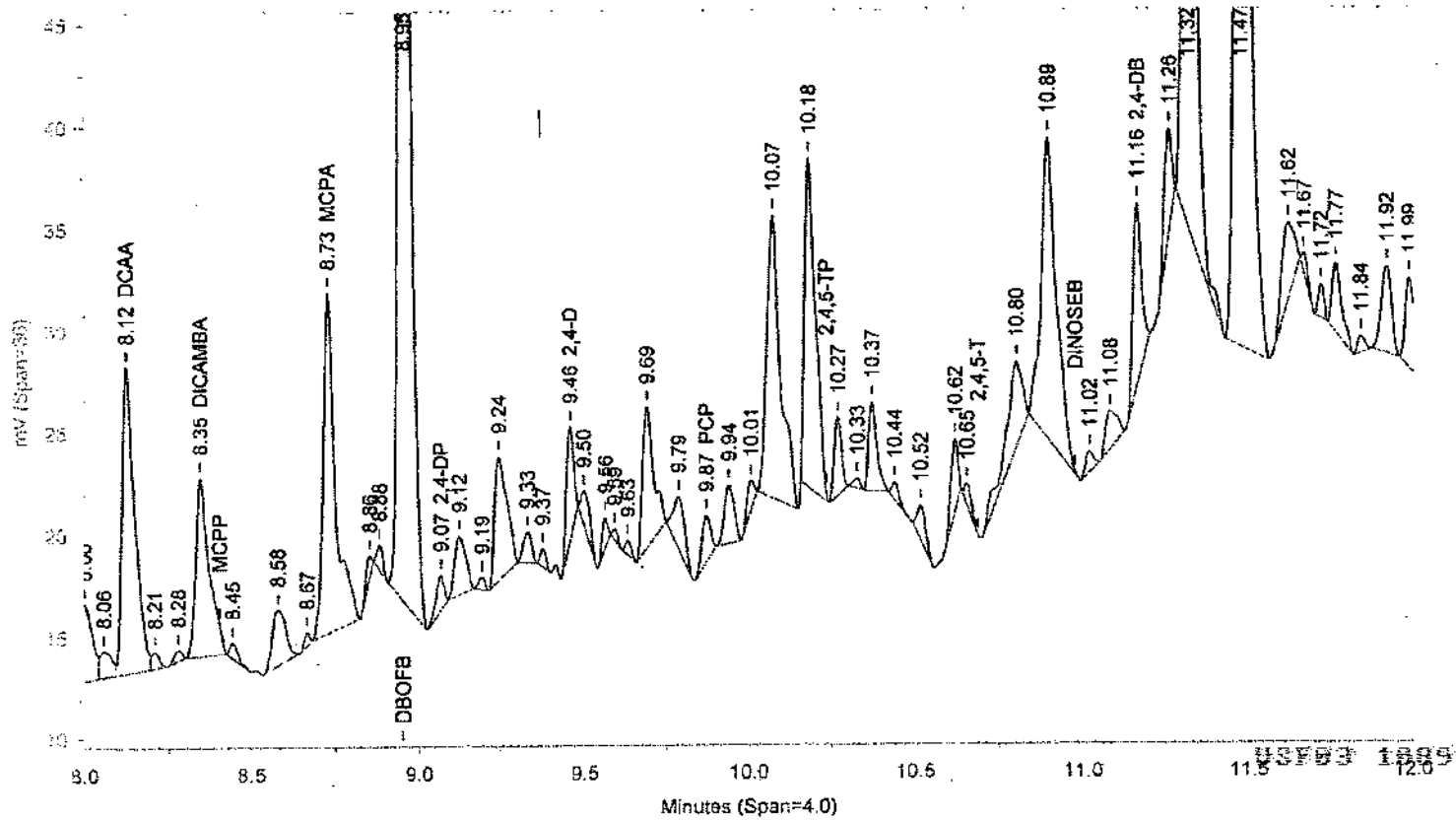


Instrument ID: CP15--H8456A Injected On: 7/15/2011 7:56:53 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

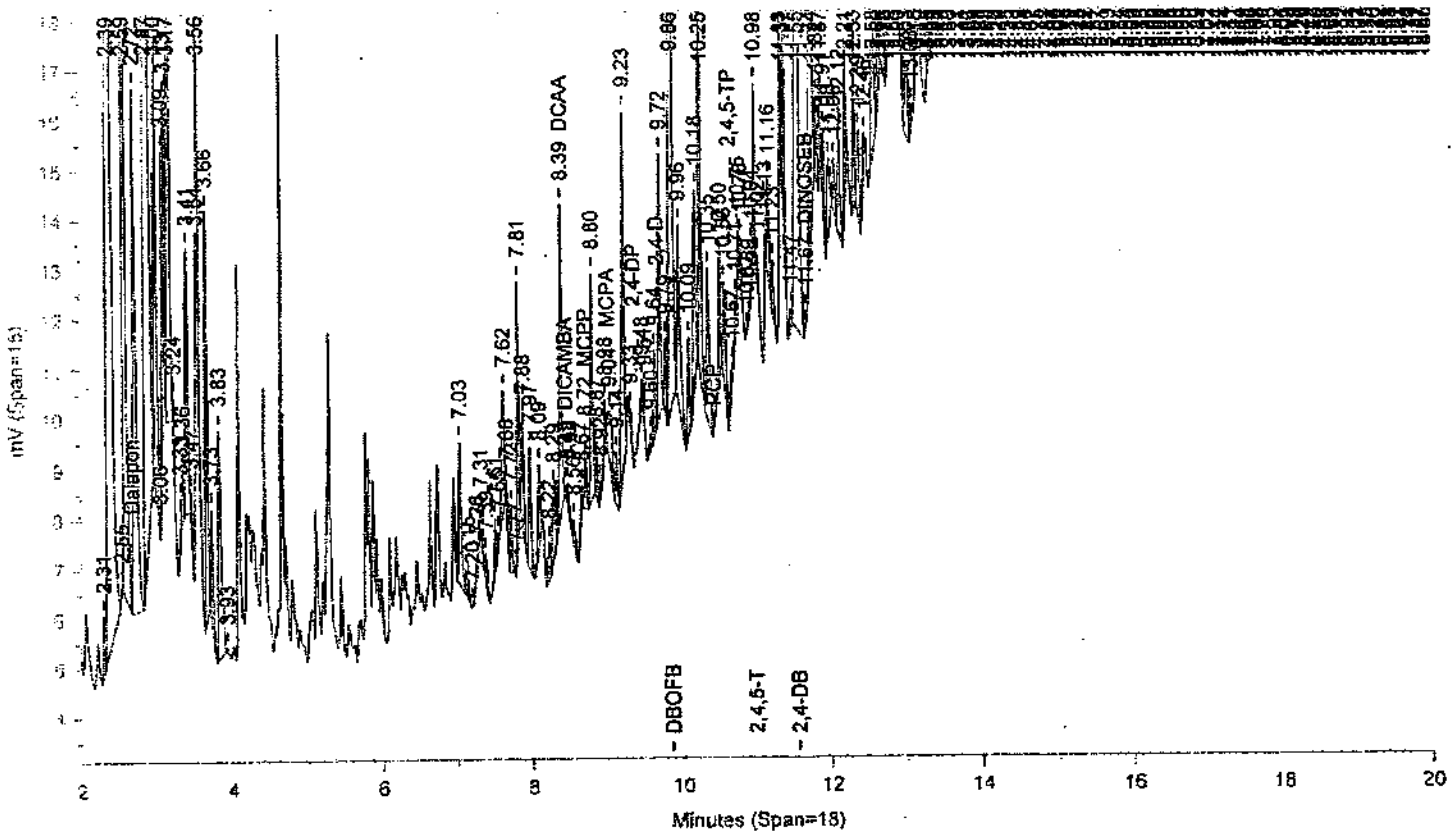
File: C:\CPWIN\DATA1\3H15193B.09R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 7:56:53 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

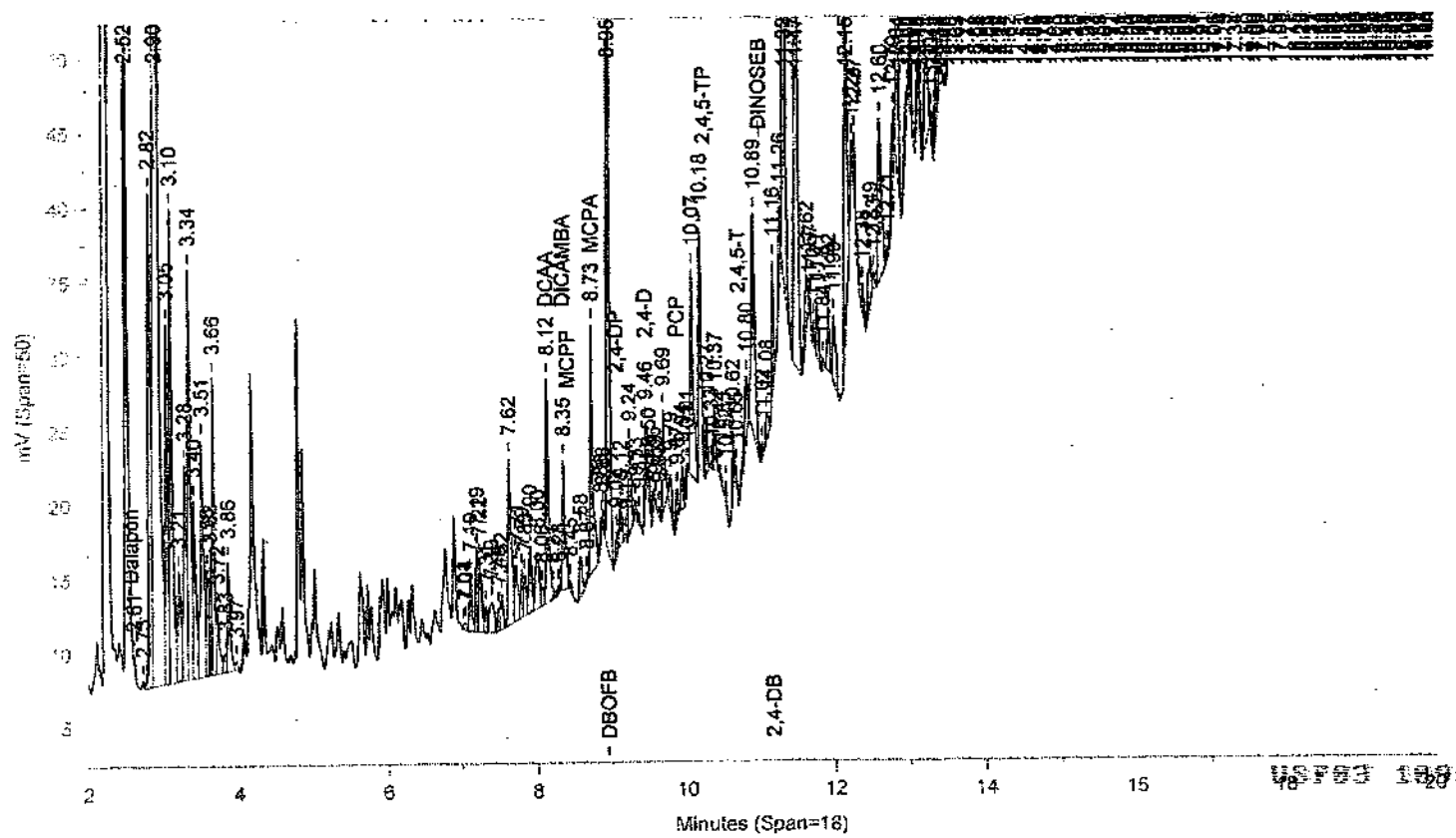
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\3H15193.09R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 7:56:53 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\3H15193B.09R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 7:56:53 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60.5 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.392	6281	5.378	DCAA	8.125	15148	5.582	DCAA
8.446	257	.055	DICAMBA	8.348	8752	.846	DICAMBA
8.718	1387	273.195	MCPP	.	0	.	MCPP
.	0	.	MCPA	8.728	16776	1228.953	MCPA
9.865	36093	1.653	DBOFB	8.954	73413	1.653	DBOFB
.	0	.	2,4-DP	9.067	1725	.732	2,4-DP
.	0	.	2,4-D	9.455	5538	1.795	2,4-D
.	0	.	PCP	9.871	2322	.058	PCP
10.976	3654	.503	2,4,5-T	.	0	.	2,4,5-T
11.553	35421	42.304	2,4-DB	11.161	9123	4.87	2,4-DB
11.669	336	.072	DINOSEB	.	0	.	DINOSEB

Files:
Area File: C:\CPWIN\DATA1\3H15193.09A
Area File: C:\CPWIN\DATA1\3H15193B.09A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 8:17:00 PM
File Reported On: 7/15/2011 at 8:17:06 PM

USPEO 1991

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339375 F 74S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60.3 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 20:24:26
Instrument : CP15--H8456A
Result file : 3H15193.10R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 75.4% (36-156) Conc.: 5.000601

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.36	8.39	8.42	5860	5.000601
DICAMBA	8.44	8.45	8.50	622	0.131347
MCPP	8.72	8.72	8.78	626	122.760605
MCPA	8.98	9.04	9.04	1275	174.620789
DBOFB	9.84	9.86	9.90	36336	1.658375
2,4,5-T	10.97	10.98	11.03	5374	0.737310
2,4-DB	11.51	11.55	11.57	28790 E	34.267700
DINOSEB	11.62	11.66	11.68	691	0.148005

Analysis Report (B)

Injected on : JUL 15, 2011 20:24:26
Instrument : CP15--H8456B
Result file : 3H15193B.10R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 78.7% (36-156) Conc.: 5.217824

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.12	8.16	14253	5.217824
DICAMBA	8.31	8.35	8.37	11990	1.151264
MCPA	8.72	8.73	8.78	12167	885.546448
DBOFB	8.93	8.95	8.99	74137	1.658375
2,4-DP	9.05	9.07	9.11	1128	0.475392
2,4-D	9.45	9.45	9.51	6646	2.140054
PCP	9.85	9.87	9.91	1354	0.033844
2,4,5-TP	10.21	10.26	10.27	2191	0.133493
2,4-DB	11.12	11.16	11.18	8612	4.567840

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference		Comments
☑ Dalapon			<8.9552	<4.3781				
☐ DCAA	B	5.217824				4.25		
☑ DICAMBA			<1.194	<0.398				
☑ MCPP			<248.755	<74.6265				
☑ MCPA	A	174.620789	<248.755	75.6215	J	134.12	**	WC < 180.
☑ 2,4-DP			<1.6915	<0.796				
☑ 2,4-D			<3.5821	<1.194				
☐ DBOFB	A	1.658375				0.00		
☐ PCP			<0.1692	<0.0328				
☑ 2,4,5-TP			<0.1692	<0.0746				
☑ 2,4,5-T			<0.1692	<0.0816				
☑ 2,4-DB	B	4.567840	1.6915	0.6169		152.95	**	WC < 47.
☑ DINOSEB			<2.388	<0.796				

Units: ug/kg

Reviewed by: J1145
Date: 7-17-11

Verified by:
Date: 7/18/11

USPS3 1892

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/17/11 08:34:31

LANCASTER LABORATORIES

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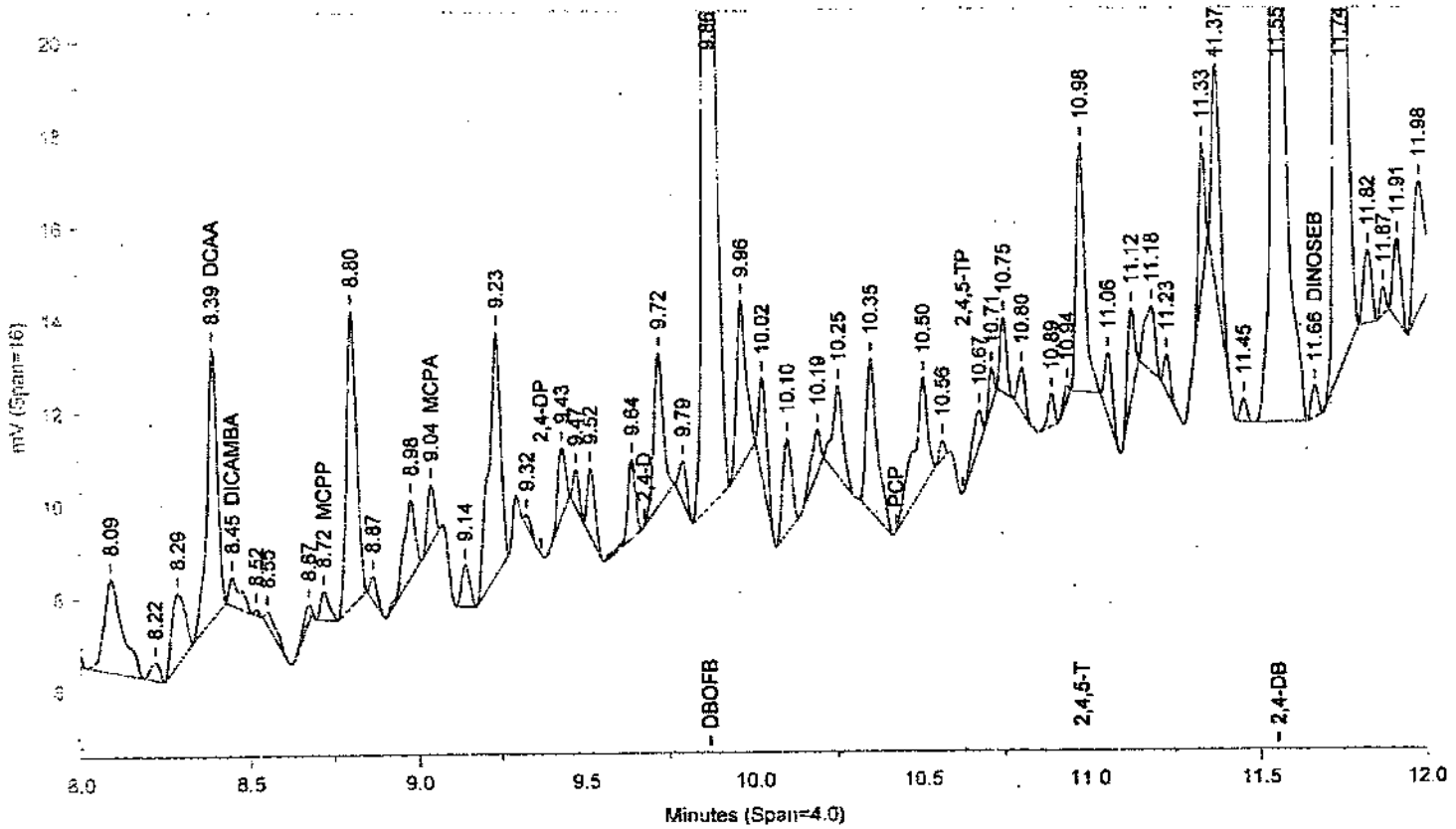
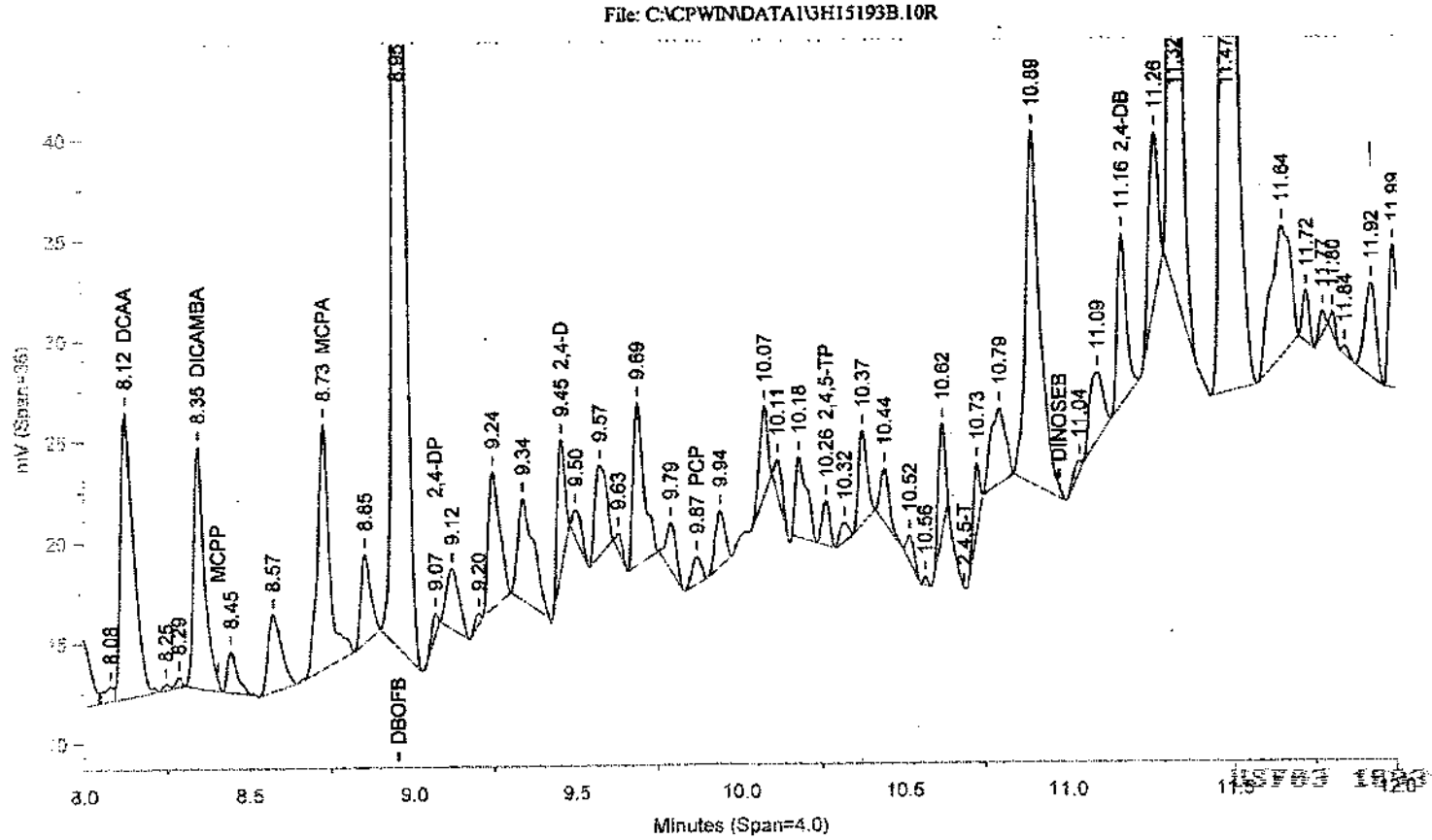


Instrument ID: CP15--H8456A Injected On: 7/15/2011 8:24:26 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

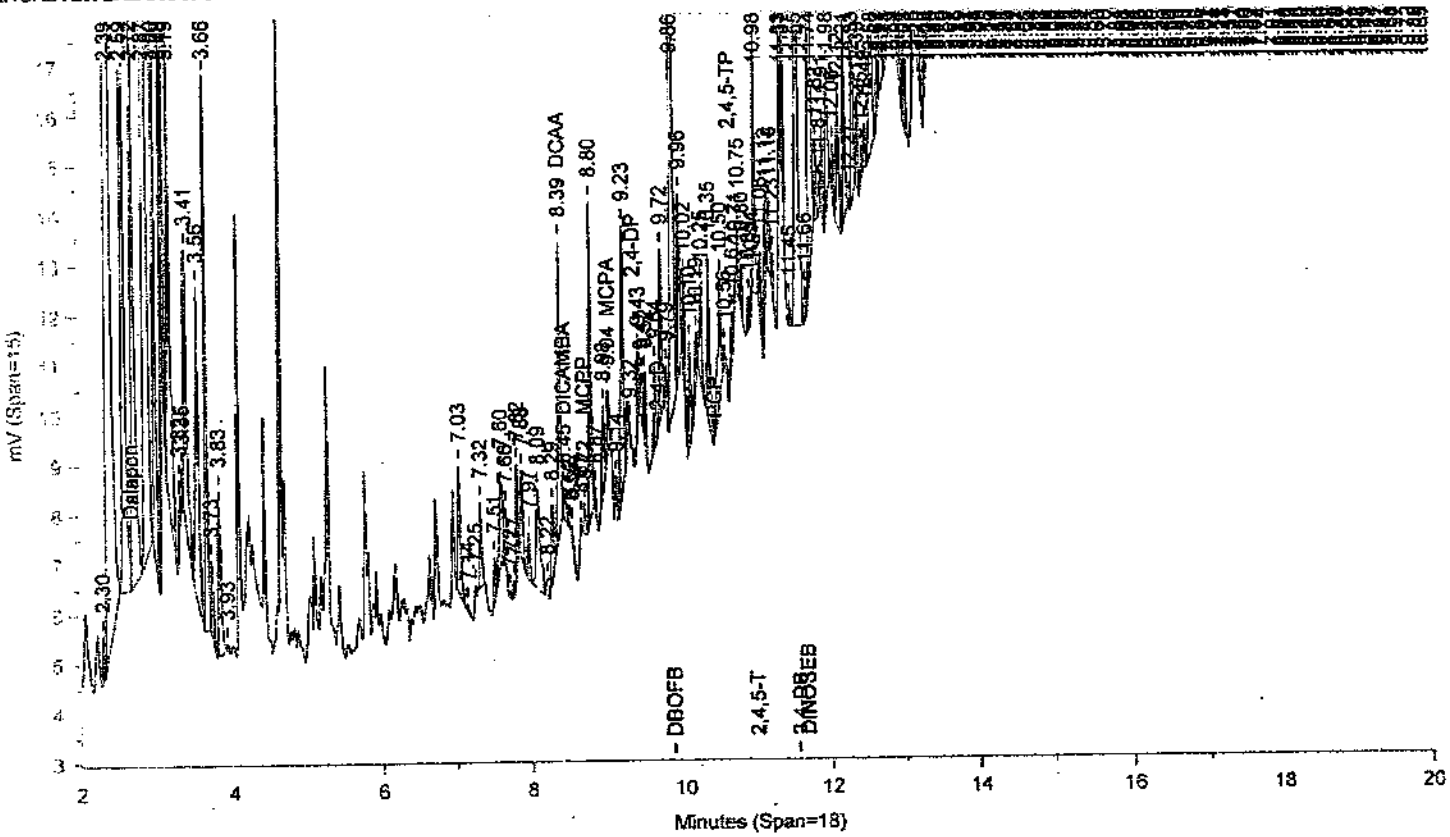
File: C:\CPWIN\DATA1\3H15193B.10R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 8:24:26 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

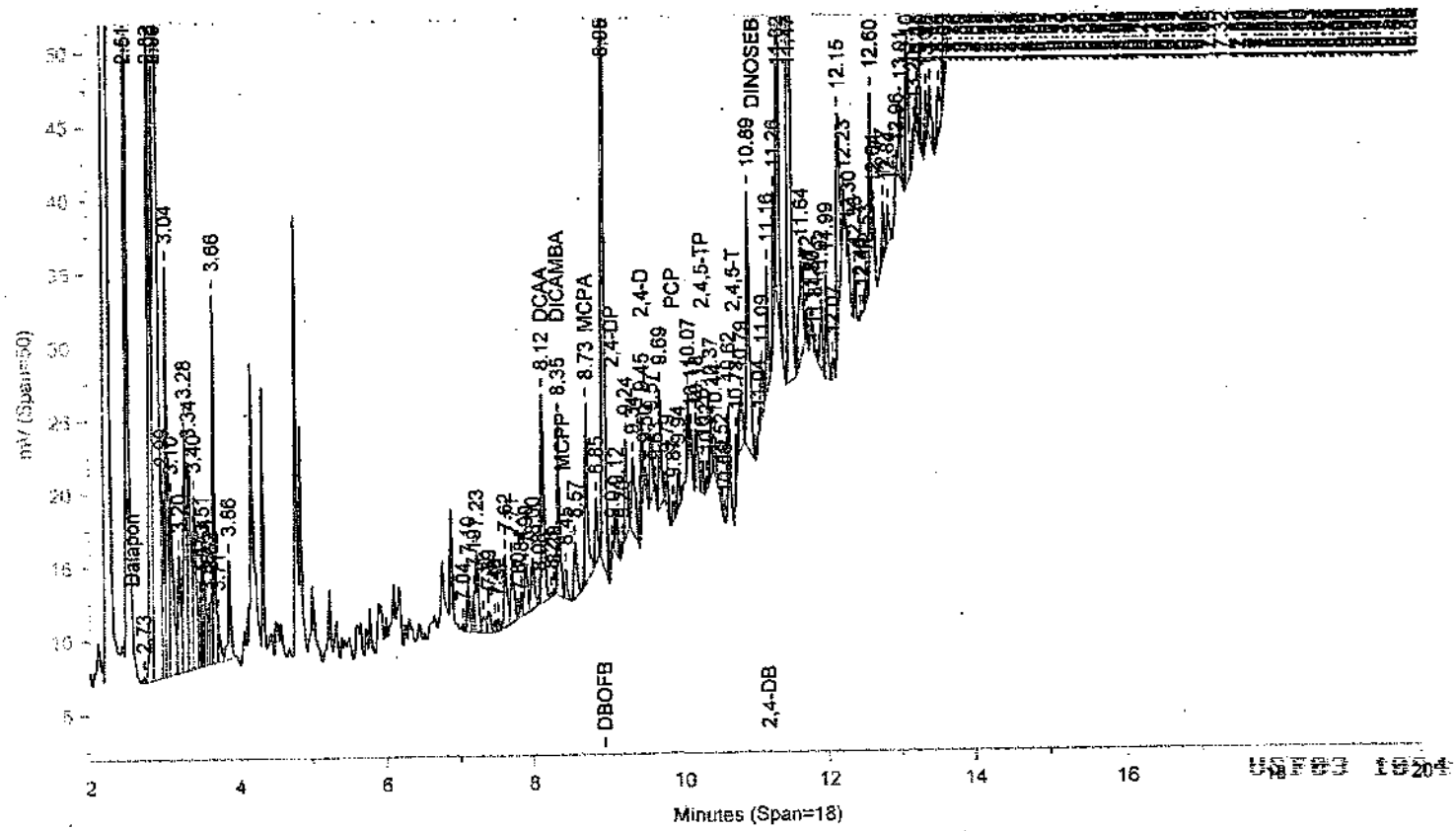
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\3H15193.10R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 8:24:26 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\3H15193B.10R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 8:24:26 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60.3 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.391	5860	5.001	DCAA	8.124	14253	5.218	DCAA
8.448	622	.131	DICAMBA	8.347	11990	1.151	DICAMBA
8.719	626	122.761	MCPP	.	0	.	MCPP
9.037	1275	174.621	MCPA	8.726	12167	885.546	MCPA
9.864	36336	1.658	DBOFB	8.953	74137	1.658	DBOFB
.	0	.	2,4-DP	9.068	1128	.475	2,4-DP
.	0	.	2,4-D	9.455	6646	2.14	2,4-D
.	0	.	PCP	9.865	1354	.034	PCP
.	0	.	2,4,5-TP	10.261	2191	.133	2,4,5-TP
10.976	5374	.737	2,4,5-T	.	0	.	2,4,5-T
11.552	28790	34.268	2,4-DB	11.161	8612	4.568	2,4-DB
11.664	691	.148	DINOSEB	.	0	.	DINOSEB

Files:
Area File: C:\CPWIN\DATA1\3H15193.10A
Area File: C:\CPWIN\DATA1\3H15193B.10A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 8:44:32 PM
File Reported On: 7/15/2011 at 8:44:38 PM

USF83 1095

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339377 F 82S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60.4 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 04:47:46
Instrument : CP15--H8456A
Result file : 2H15193.44R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 74.6% (36-156) Conc.: 4.942196

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.36	8.38	8.42	5490	4.942196
DICAMBA	8.44	8.44	8.50	146	0.032547
MCPP	8.72	8.72	8.78	560	115.901627
MCPA	8.98	9.03	9.04	314	45.336010
DBOFB	9.84	9.85	9.90	34383	1.655629
2,4,5-T	10.97	10.97	11.03	5644	0.617095
2,4-DB	11.51	11.54	11.57	25872 E	32.489532
DINOSEB	11.62	11.64	11.68	930	0.210102

Analysis Report (B)

Injected on : JUL 15, 2011 04:47:46
Instrument : CP15--H8456B
Result file : 2H15193B.44R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) 80.9% (36-156) Conc.: 5.355932

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.12	8.16	14721	5.355932
DICAMBA	8.31	8.34	8.37	6869	0.655491
MCPA	8.72	8.72	8.78	3178	229.861984
DBOFB	8.93	8.94	8.99	74472	1.655629
2,4-DP	9.05	9.06	9.11	562	0.235485
2,4-D	9.45	9.45	9.51	3373	1.079420
PCP	9.85	9.86	9.91	2127	0.052842
2,4,5-TP	10.21	10.20	10.27	2669	0.161559
2,4-DB	11.12	11.15	11.18	7411	3.906670

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon			<8.9404	<4.3709			
☐ DCAA	B	5.355932				8.04	
☑ DICAMBA			<1.1921	<0.3974			
☑ MCPP			<248.345	<74.5035			
☑ MCPA			<248.345	<75.4969			
☑ 2,4-DP			<1.6887	<0.7947			
☑ 2,4-D			<3.5762	<1.1921			
☐ DBOFB	A	1.655629				0.00	
☐ PCP			<0.1689	<0.0328			
☑ 2,4,5-TP			<0.1689	<0.0745			
☑ 2,4,5-T			<0.1689	<0.0815			
☑ 2,4-DB	B	3.906670	1.6887	0.6159		157.07 **	WC < 4.0
☑ DINOSEB			<2.3841	<0.7947			

Units: ug/kg

Reviewed by: J1145 Verified by:
Date: 7-17-11 Date:

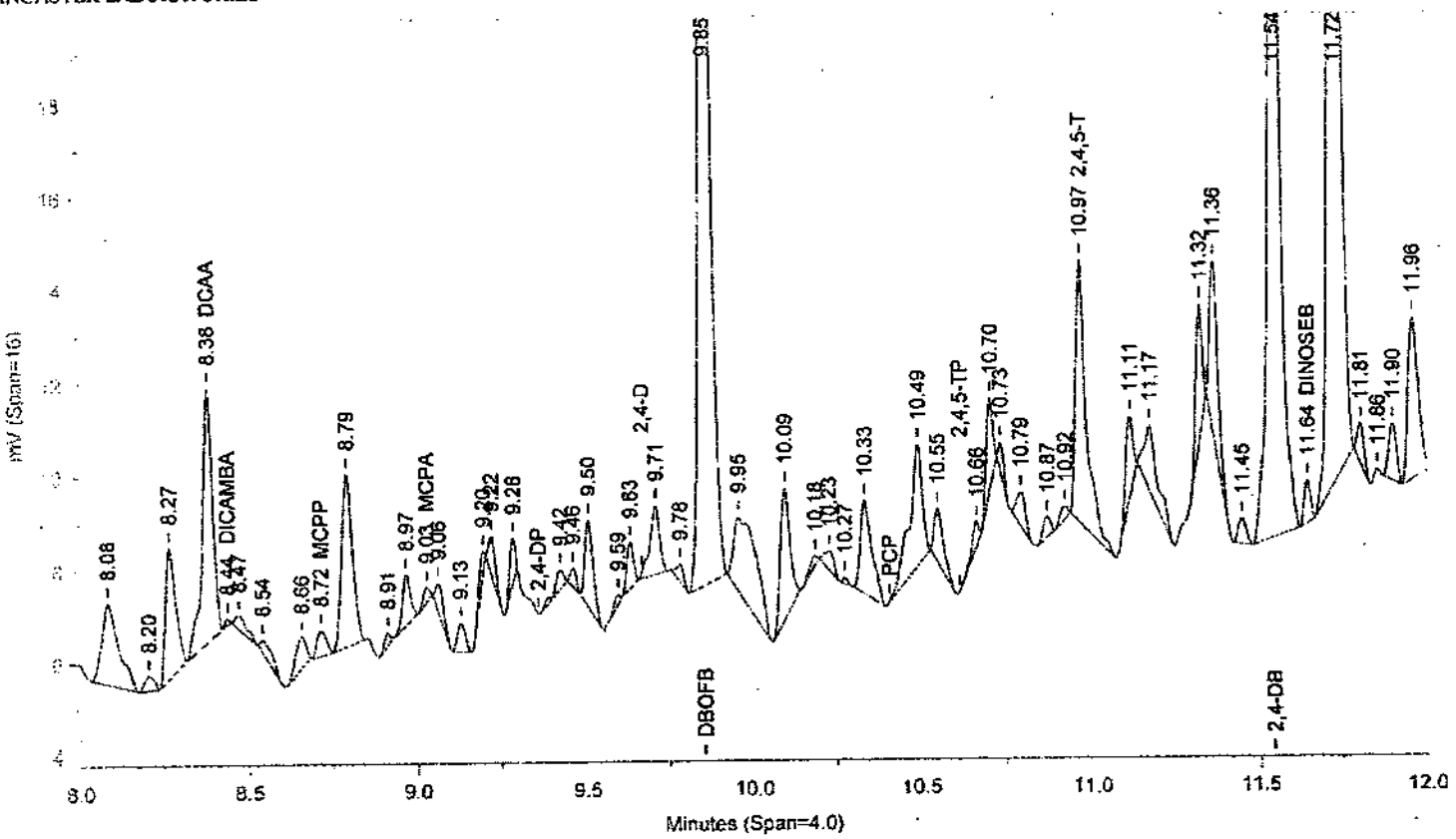
USF03 1896

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits
Higher Amount Found unless RPD > 40

Printed on: 7/15/11 08:15:07

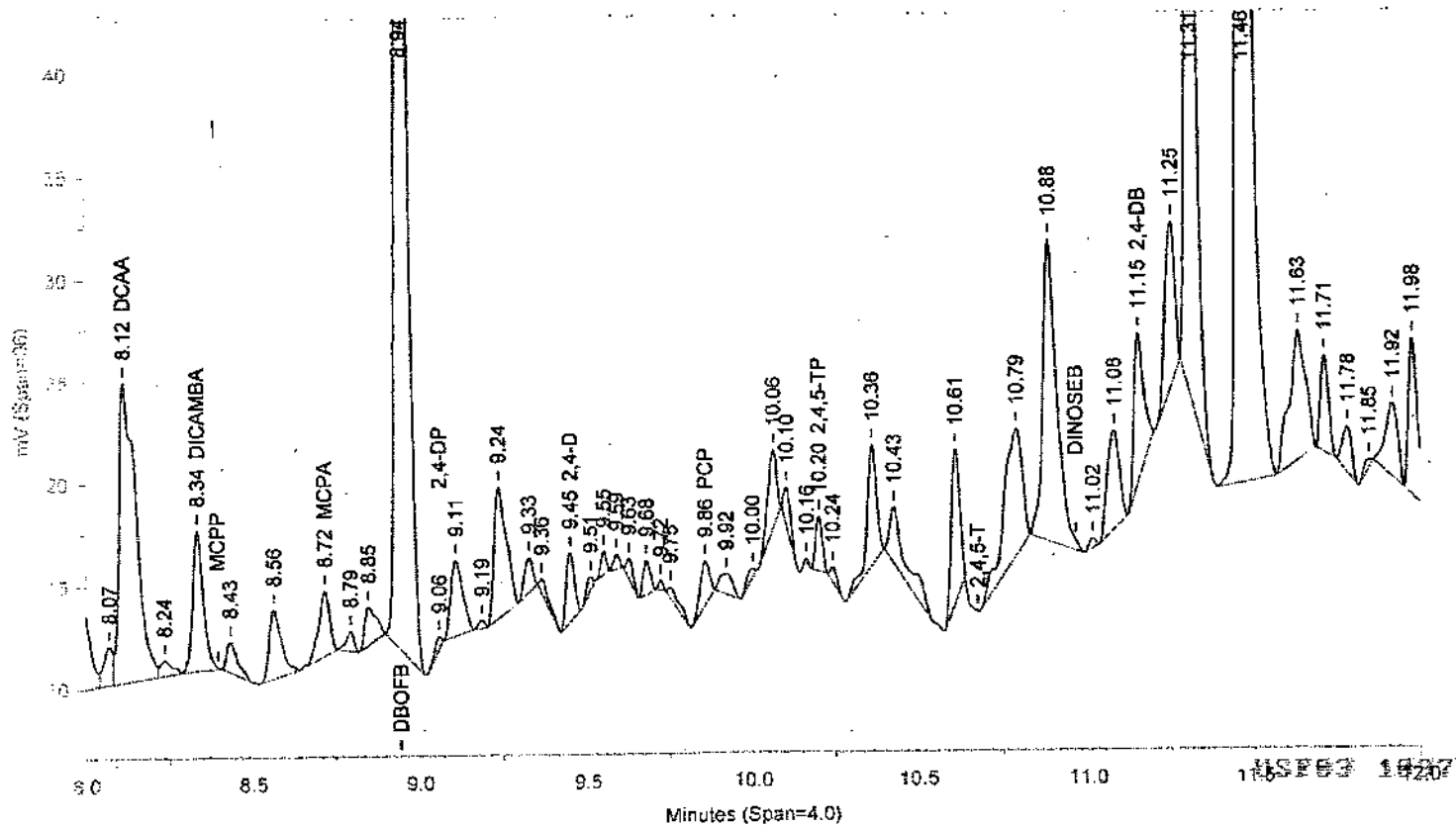
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.44R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 4:47:46 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

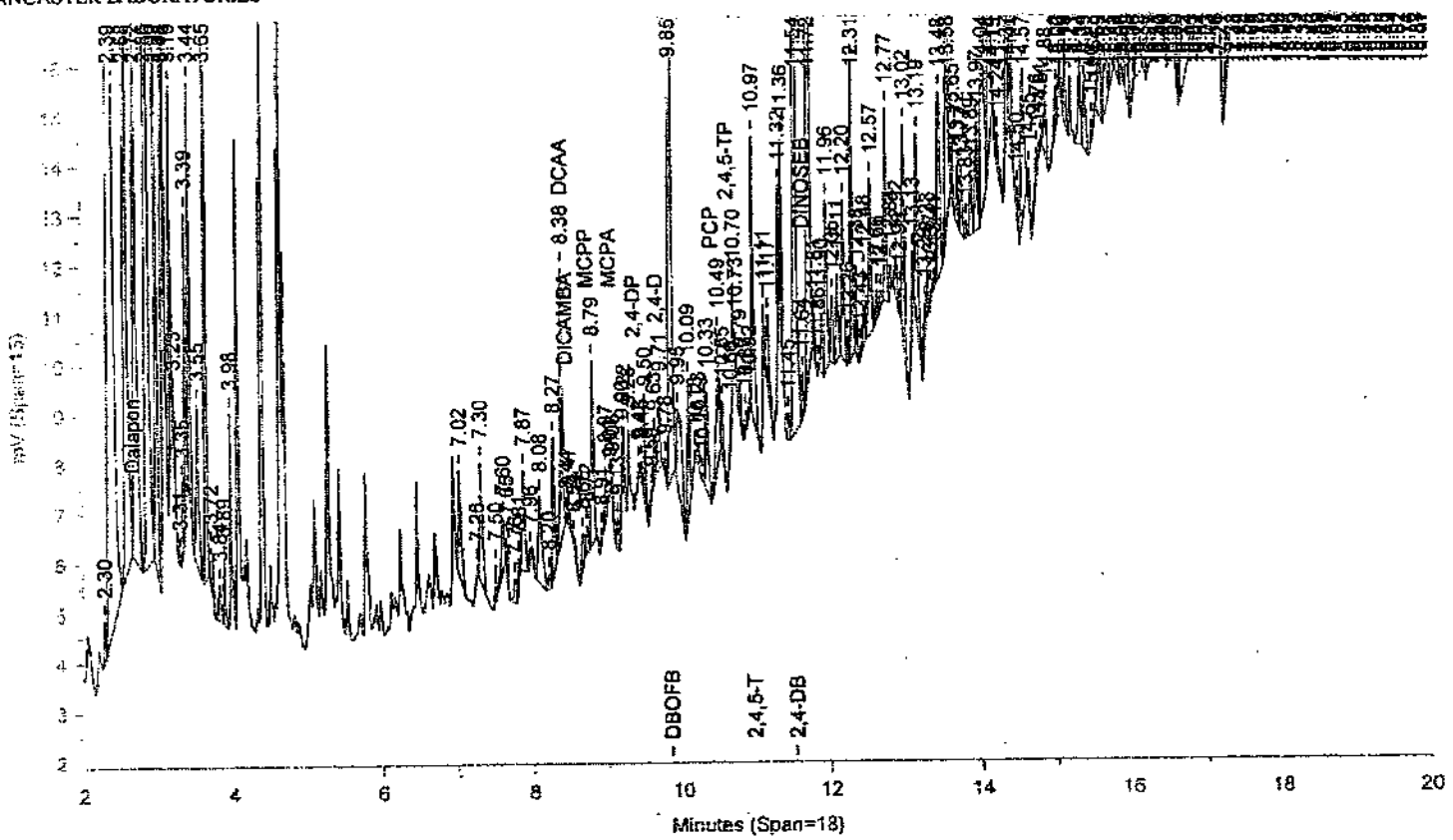
File: C:\CPWIN\DATA1\2H15193B.44R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 4:47:46 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

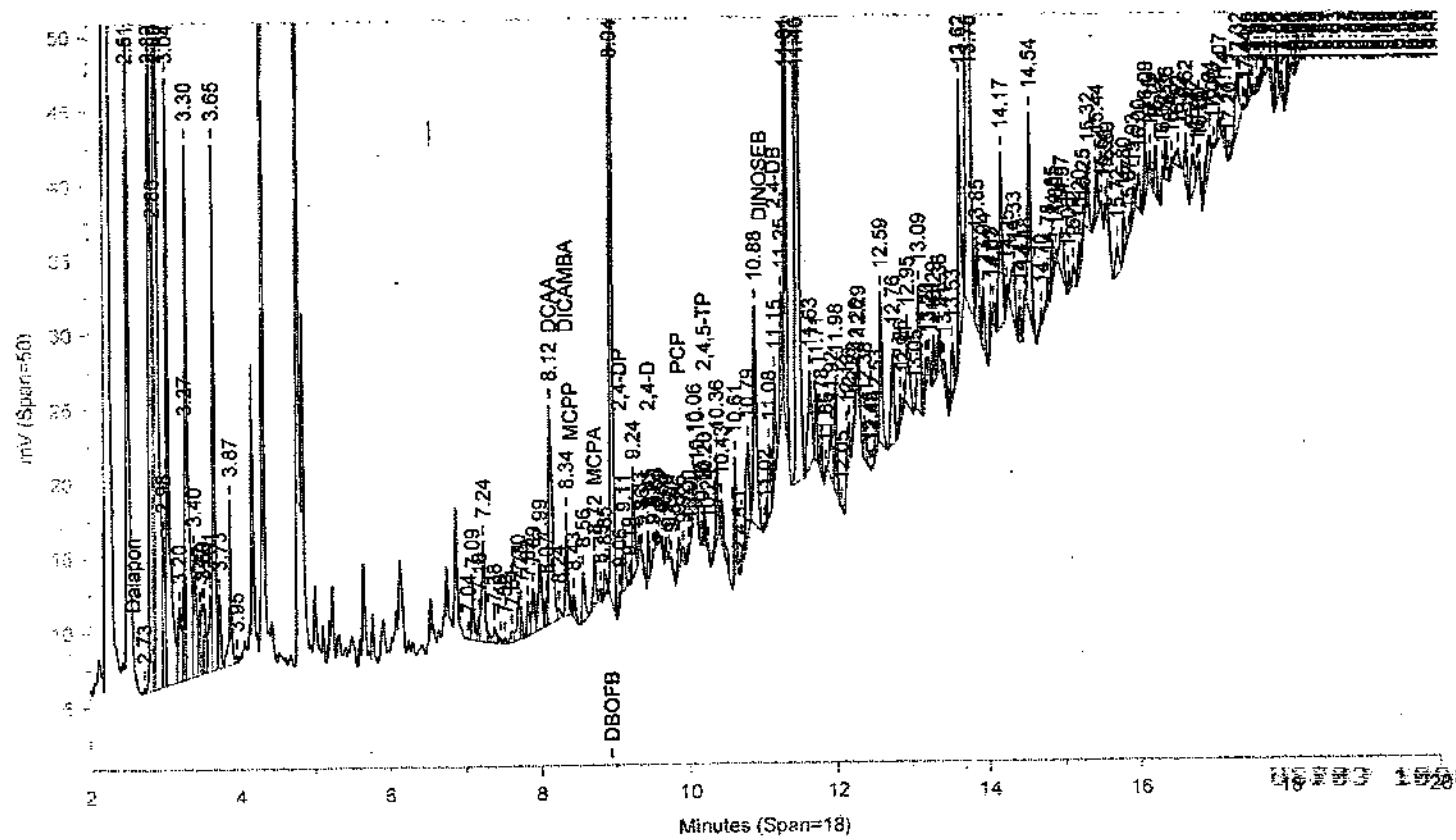
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.44R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 4:47:46 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.44R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 4:47:46 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60.4 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.381	5490	4.942	DCAA	8.115	14721	5.356	DCAA
8.439	146	.033	DICAMBA	8.337	6869	.655	DICAMBA
8.716	560	115.902	MCPP	.	0	.	MCPP
9.029	314	45.336	MCPA	8.717	3178	229.862	MCPA
9.854	34383	1.656	DBOFB	8.943	74472	1.656	DBOFB
.	0	.	2,4-DP	9.059	562	.235	2,4-DP
.	0	.	2,4-D	9.447	3373	1.079	2,4-D
.	0	.	PCP	9.856	2127	.053	PCP
.	0	.	2,4,5-TP	10.2	2669	.162	2,4,5-TP
10.966	5644	.817	2,4,5-T	.	0	.	2,4,5-T
11.541	25872	32.49	2,4-DB	11.151	7411	3.907	2,4-DB
11.644	930	.21	DINOSEB	.	0	.	DINOSEB

Files:
Area File: C:\CPWIN\DATA1\2H15193.44A
Area File: C:\CPWIN\DATA1\2H15193B.44A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 5:07:52 AM
File Reported On: 7/15/2011 at 5:07:58 AM

USF83 1899

Lancaster Laboratories Single Component Data Summary

Sample Name: **6339384** F 82S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 04:20:28
Instrument : CP15--H8456A
Result file : 2H15193.43R
Calibration file : 1H15193.CAL
Method file : HERW.MET

%SSR(DCAA) : 92.9% (36-156) Conc.: 6.194184

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.66	2.68	2.72	10321	6.170616
DCAA	8.36	8.38	8.42	7085	6.194184
DICAMBA	8.44	8.45	8.50	2203	0.476743
MCPP	8.72	8.73	8.78	2080	418.304077
MCPA	8.98	8.99	9.04	3383	474.803925
2,4-DP	9.34	9.36	9.40	6329	4.999822
2,4-D	9.65	9.67	9.71	6050	4.485562
DBOFB	9.84	9.85	9.90	35641	1.666667
PCP	10.40	10.41	10.46	8663	0.443850
2,4,5-TP	10.60	10.62	10.66	2552	0.347044
2,4,5-T	10.97	10.98	11.03	3169	0.445490
2,4-DB	11.51	11.52	11.57	3150	3.842174
DINOSEB	11.62	11.64	11.68	10924	2.395753

Analysis Report (B)

Injected on : JUL 15, 2011 04:20:28
Instrument : CP15--H8456B
Result file : 2H15193B.43R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET

%SSR(DCAA) : 91.1% (36-156) Conc.: 6.071154

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.55	2.57	2.61	28620	8.117780
DCAA	8.10	8.12	8.16	17535	6.071154
DICAMBA	8.31	8.33	8.37	19045	1.729454
MCPP	8.38	8.40	8.44	3247	392.874176
MCPA	8.72	8.73	8.78	2378	163.687897
DBOFB	8.93	8.94	8.99	78778	1.666667
2,4-DP	9.05	9.06	9.11	14129	5.633395
2,4-D	9.45	9.46	9.51	14217	4.329873
PCP	9.85	9.86	9.91	18630	0.440456
2,4,5-TP	10.21	10.22	10.27	6462	0.372308
2,4,5-T	10.67	10.68	10.73	5078	0.308646
DINOSEB	10.96	10.97	11.02	16823	1.744209
2,4-DB	11.12	11.14	11.18	8056	4.041304

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon	B	8.117780	<9	4.4	J	27.26	
☐ DCAA	A	6.194184				2.01	
☑ DICAMBA	A	0.476743	<1.2	0.4	J	113.56	**
☑ MCPP	A	418.304077	250	75		6.27	
☑ MCPA	B	163.687897	<250	76	J	97.45	**
☑ 2,4-DP	B	5.633395	1.7	0.8		11.92	
☑ 2,4-D	A	4.485562	3.6	1.2		3.53	
☐ DBOFB	A	1.666667				0.00	
☐ PCP	A	0.443850	0.17	0.033		0.77	
☑ 2,4,5-TP	B	0.372308	0.17	0.075		7.02	
☑ 2,4,5-T	A	0.445490	0.17	0.082		36.29	
☑ 2,4-DB	B	4.041304	1.7	0.62		5.05	
☑ DINOSEB	A	2.395753	<2.4	0.8	J	31.48	

Units: ug/kg

Reviewed by: 1145 Verified by:

Date: 7-22-11 Date:

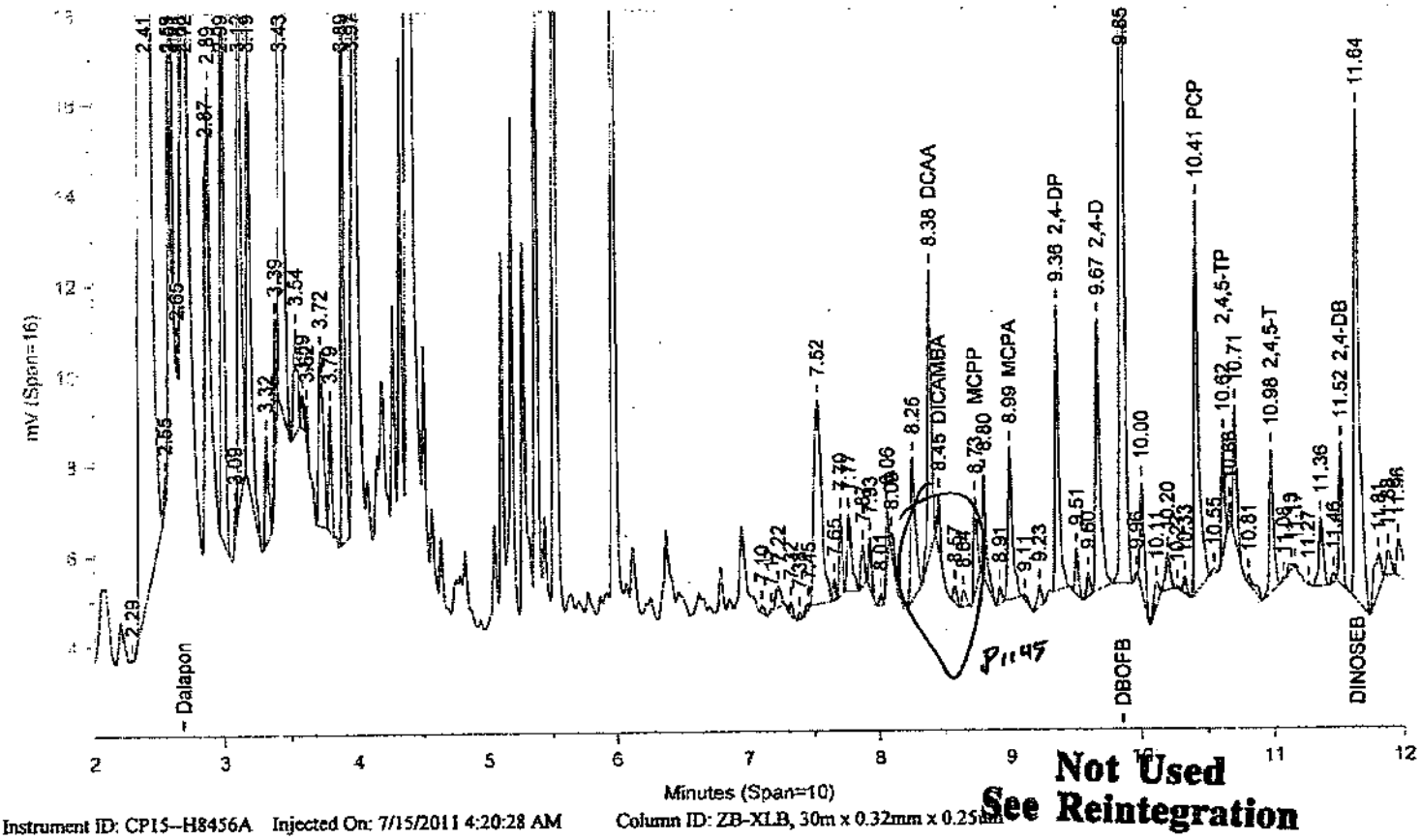
%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

USF03 1188

Printed on: 7/22/11 13:45:14

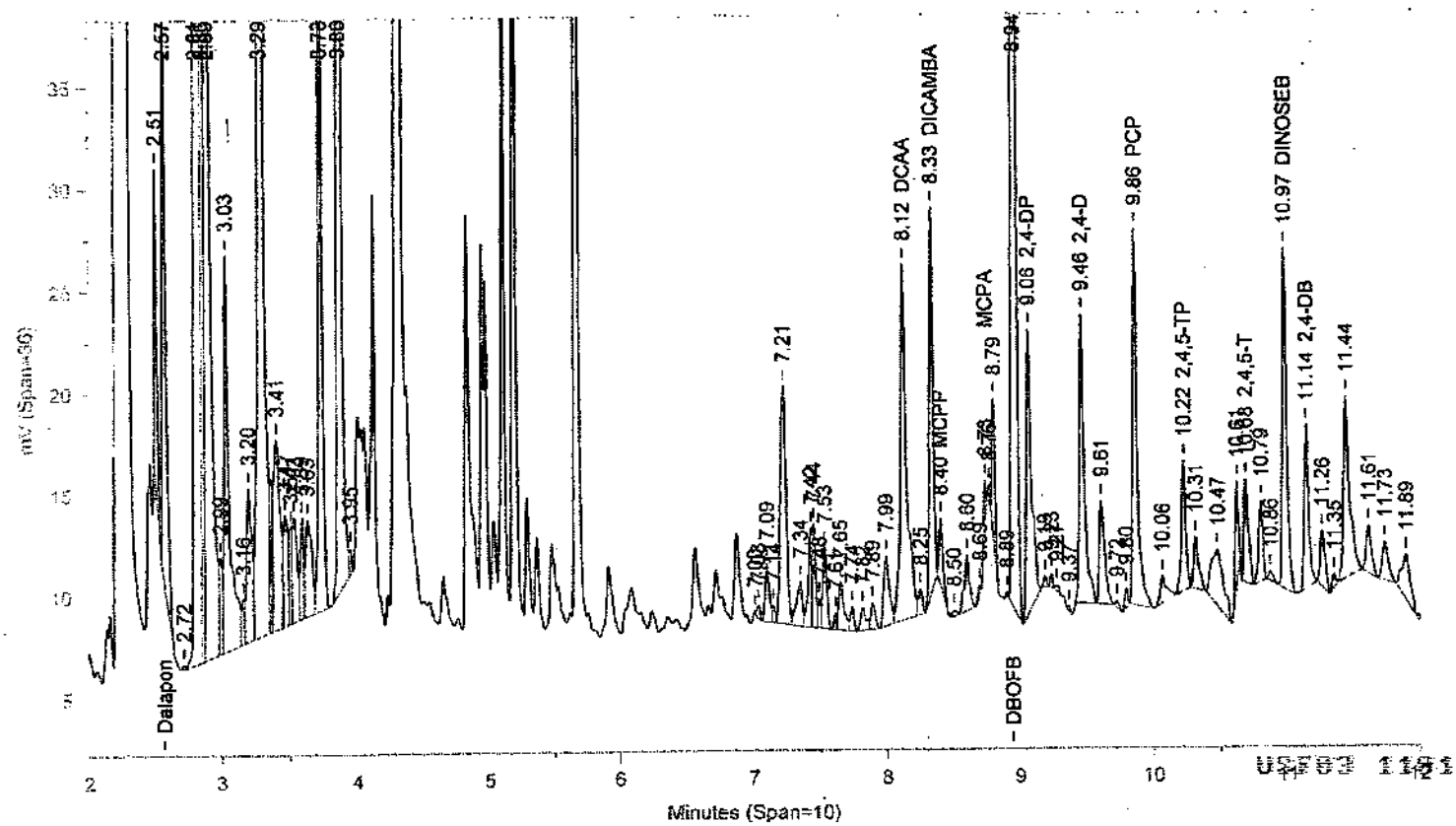
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.43R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 4:20:28 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

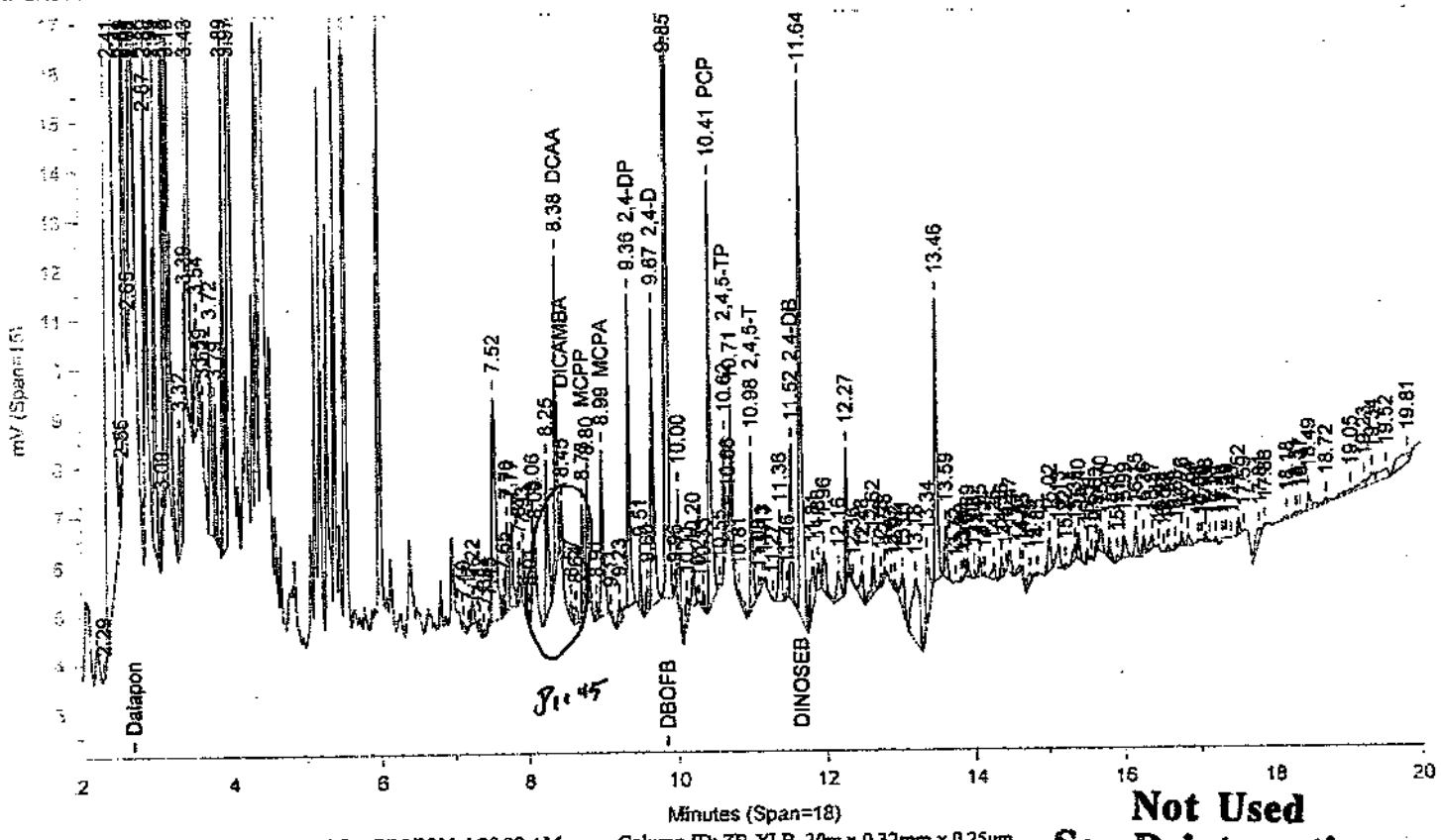
File: C:\CPWIN\DATA1\2H15193B.43R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 4:20:28 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

LANCASTER LABORATORIES

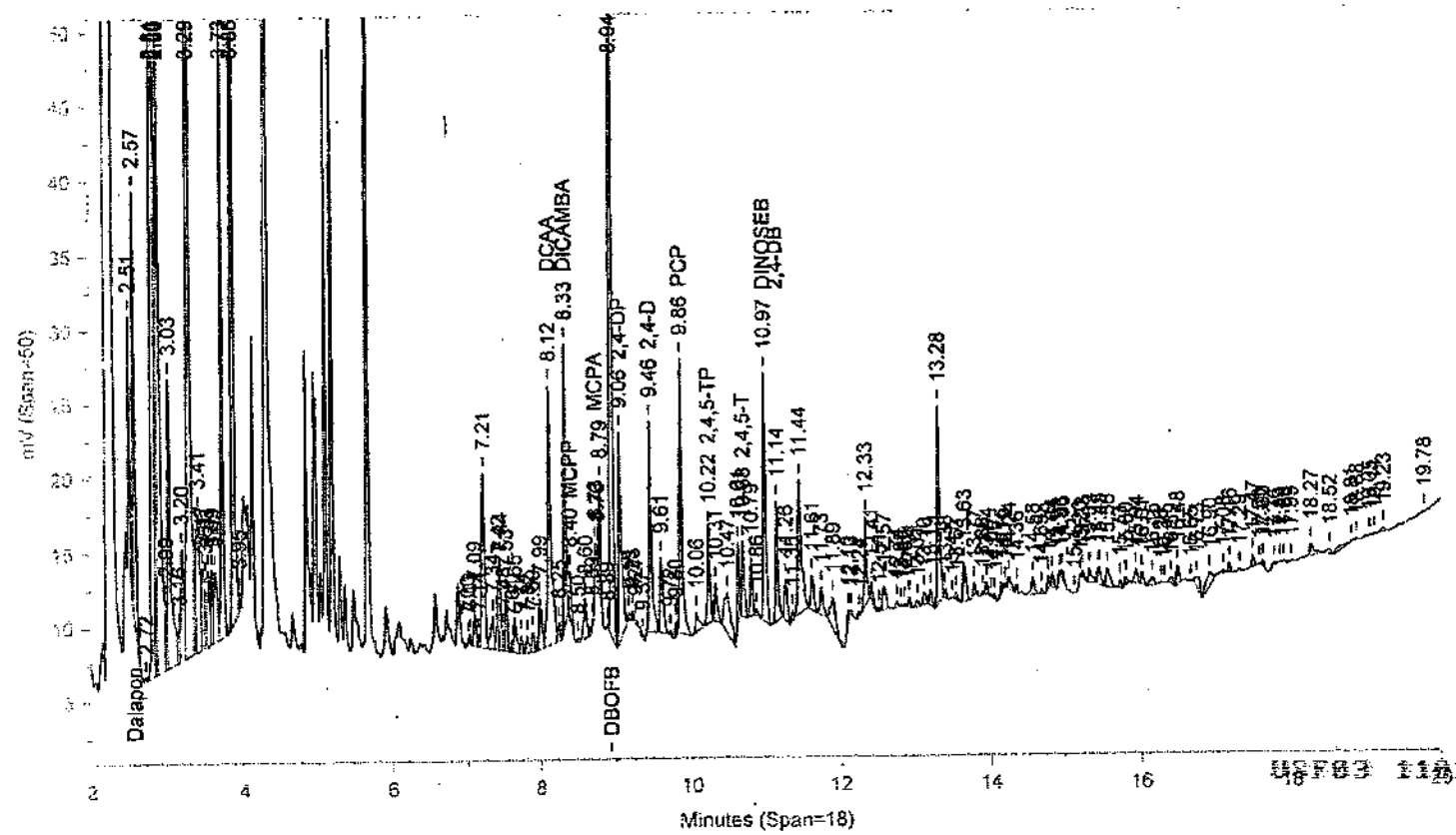
File: C:\CPWIN\DATA1\2H15193.43R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 4:20:28 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

Not Used
See Reintegration

File: C:\CPWIN\DATA1\2H15193B.43R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 4:20:28 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.684	10321	6.171	Dalapon	2.573	28620	8.118	Dalapon
8.382	6332	5.536	DCAA	8.115	17535	6.071	DCAA
8.452	1297	.281	DICAMBA	8.329	19045	1.729	DICAMBA
8.729	2080	418.304	MCPP	8.397	3247	392.874	MCPP
8.993	3383	474.804	MCPA	8.734	2378	163.688	MCPA
9.854	35641	1.667	DBOFB	8.944	78778	1.667	DBOFB
9.357	6329	5.	2,4-DP	9.058	14129	5.633	2,4-DP
9.668	6050	4.486	2,4-D	9.461	14217	4.33	2,4-D
10.414	8663	.444	PCP	9.858	18630	.44	PCP
10.616	2552	.347	2,4,5-TP	10.221	6462	.372	2,4,5-TP
10.98	3169	.445	2,4,5-T	10.678	5078	.309	2,4,5-T
11.641	10924	2.396	DINOSEB	10.968	16823	1.744	DINOSEB
11.52	3150	3.842	2,4-DB	11.136	8056	4.041	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\2H15193.43A
Area File: C:\CPWIN\DATA1\2H15193B.43A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
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Format B: C:\CPWIN\DATA1\HERWD.FMTB
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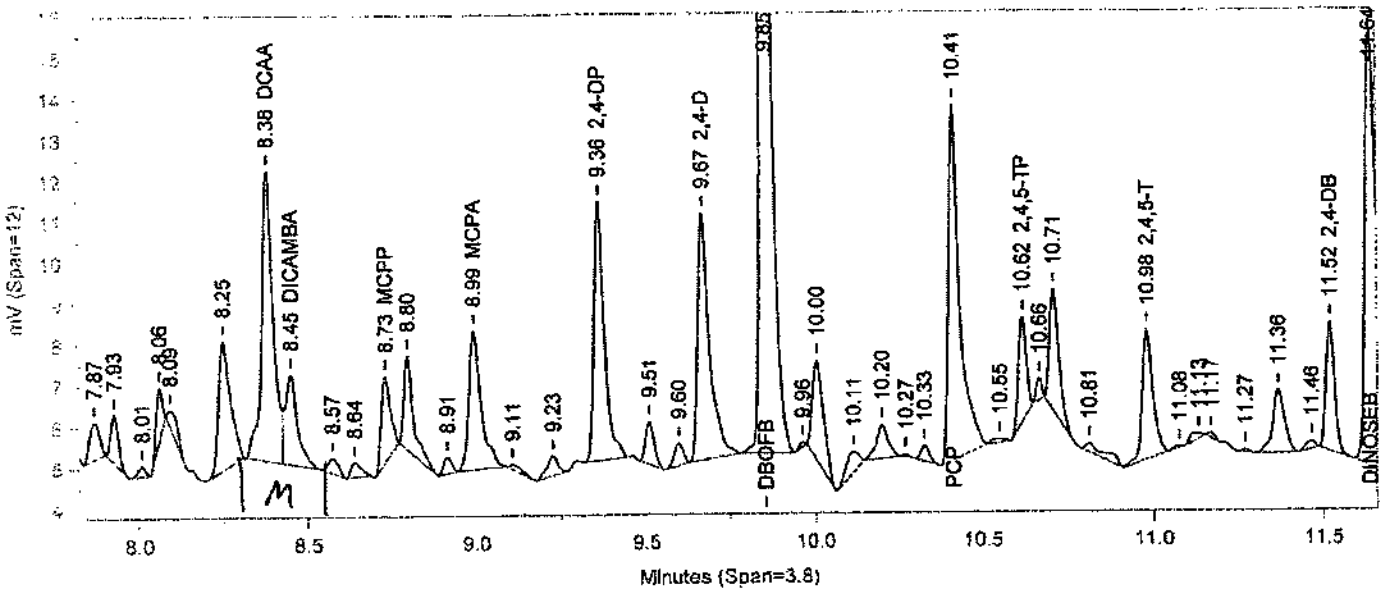
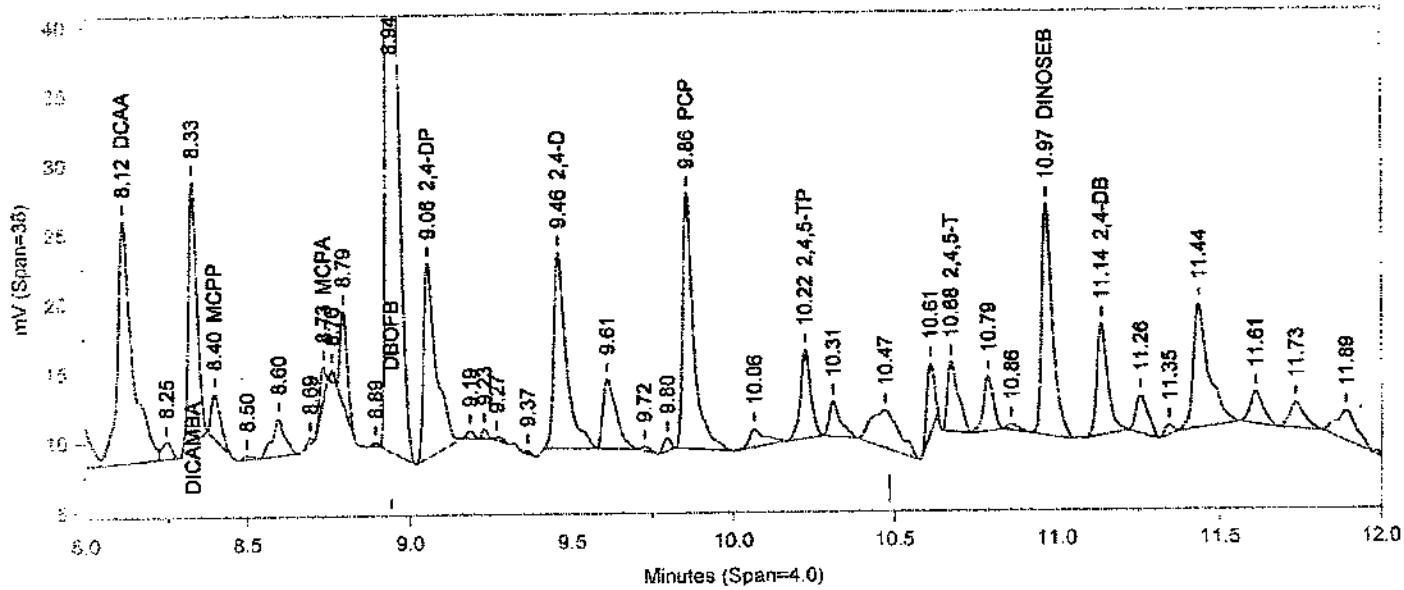
File Reported On: 7/15/2011 at 4:40:40 AM

Not Used
See Reintegration

USF83 1183





M = Manually Integrated

Analyst JH145

Approved by _____

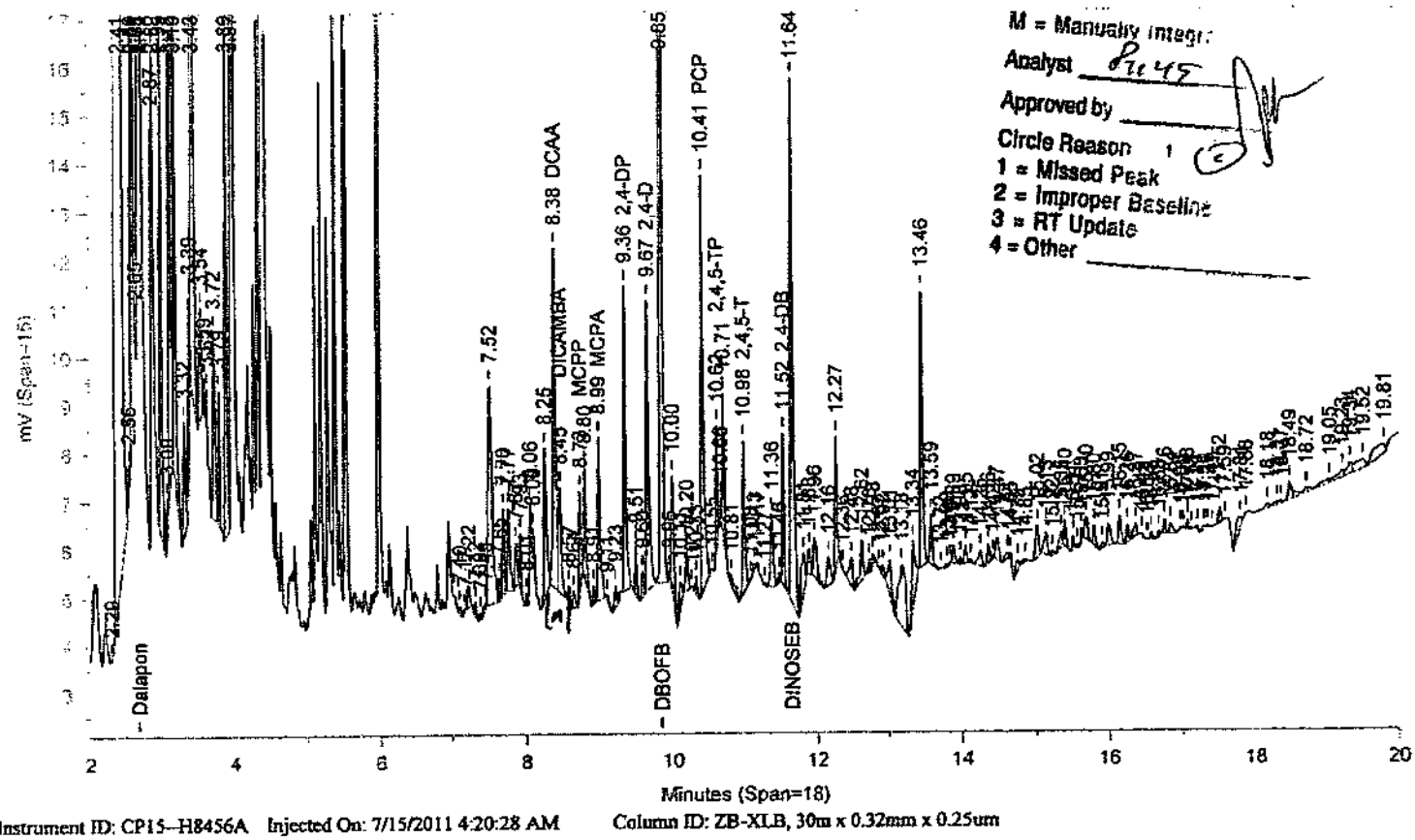
Circle Reason 1 2 3 4

1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USF03 1184

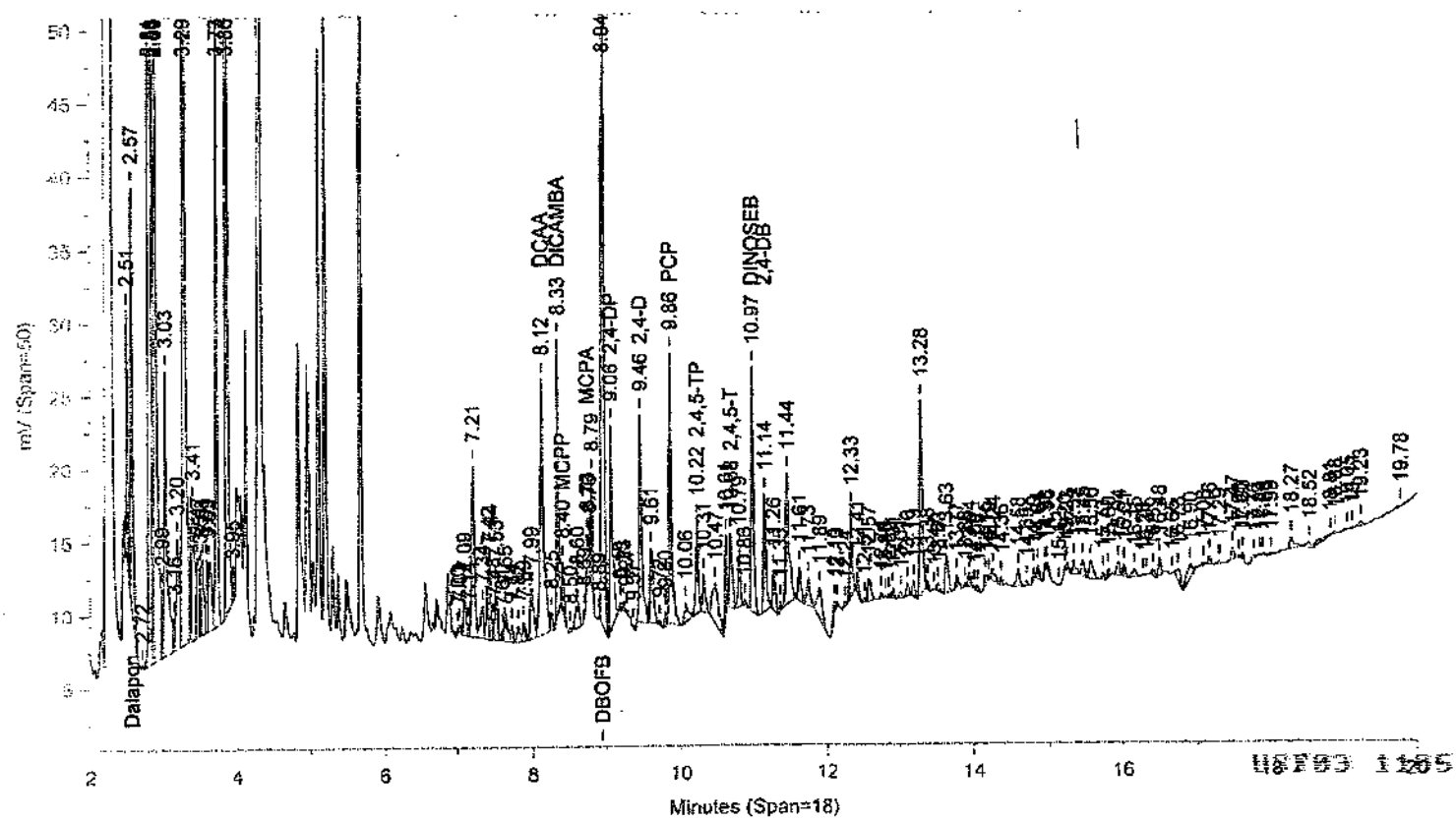
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.43R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 4:20:28 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.43R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 4:20:28 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.684	10321	6.171	Dalapon	2.573	28620	8.118	Dalapon
8.382	7085	6.194	DCAA	8.115	17535	6.071	DCAA
8.452	2203	.477	DICAMBA	8.329	19045	1.729	DICAMBA
8.729	2080	418.304	MCPP	8.397	3247	392.874	MCPP
8.993	3383	474.804	MCPA	8.734	2378	163.688	MCPA
9.854	35641	1.667	DBOFB	8.944	78778	1.667	DBOFB
9.357	6329	5.	2,4-DP	9.058	14129	5.633	2,4-DP
9.668	6050	4.486	2,4-D	9.461	14217	4.33	2,4-D
10.414	8663	.444	PCP	9.858	18630	.44	PCP
10.616	2552	.347	2,4,5-TP	10.221	6462	.372	2,4,5-TP
10.98	3169	.445	2,4,5-T	10.678	5078	.309	2,4,5-T
11.641	10924	2.396	DINOSEB	10.968	16823	1.744	DINOSEB
11.52	3150	3.842	2,4-DB	11.136	8056	4.041	2,4-DB

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/22/2011 1:42:00 PM
File Reported On: 7/22/2011 at 1:41:58 PM

USP53 1186

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339386 F 87S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60.5 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 20:51:57
Instrument : CP15--H8456A
Result file : 3H15193.11R
Calibration file : 1H15193.CAL
Method file : HERW.MET

%SSR(DCAA) : 76.3% (36-156) Conc.: 5.043658

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.36	8.39	8.42	5579	5.043658
DICAMBA	8.44	8.45	8.50	557	0.124705
MCPP	8.72	8.75	8.78	236	49.146748
2,4-DP	9.34	9.39	9.40	256	0.209334
DBOFB	9.84	9.86	9.90	34181	1.652893
2,4,5-T	10.97	10.98	11.03	1954	0.283996
2,4-DB	11.51	11.55	11.57	34355 E	43.326035
DINOSEB	11.62	11.67	11.68	1387	0.314639

Analysis Report (B)

Injected on : JUL 15, 2011 20:51:57
Instrument : CP15--H8456B
Result file : 3H15193B.11R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET

%SSR(DCAA) : 81.1% (36-156) Conc.: 5.362419

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.12	8.16	14750	5.362419
DICAMBA	8.31	8.35	8.37	12736	1.214459
MCPP	8.38	8.40	8.44	1484	188.573746
MCPA	8.72	8.72	8.78	58119 E	4200.828613
DBOFB	8.93	8.95	8.99	74404	1.652893
2,4-DP	9.05	9.07	9.11	1862	0.779495
2,4-D	9.45	9.45	9.51	1840	0.586446
PCP	9.85	9.87	9.91	1939	0.048132
2,4-DB	11.12	11.16	11.18	8003	4.215372

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon			<8.9257	<4.3637			
☐ DCAA	B	5.362419				6.13	
☑ DICAMBA			<1.1901	<0.3967			
☑ MCPP			<247.935	<74.3805			
☑ MCPA			<247.935	<75.3722			
☑ 2,4-DP			<1.686	<0.7934			
☑ 2,4-D			<3.5703	<1.1901			
☐ DBOFB	A	1.652893				0.00	
☐ PCP			<0.1686	<0.0327			
☑ 2,4,5-TP			<0.1686	<0.0744			
☑ 2,4,5-T			<0.1686	<0.0813			
☑ 2,4-DB	B	4.215372	1.686	0.6149		164.53	** VC < 43
☑ DINOSEB			<2.3802	<0.7934			

Units: ug/kg

Reviewed by: 1145
Date: 7-22-11

Verified by:
Date: 7/22/11

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

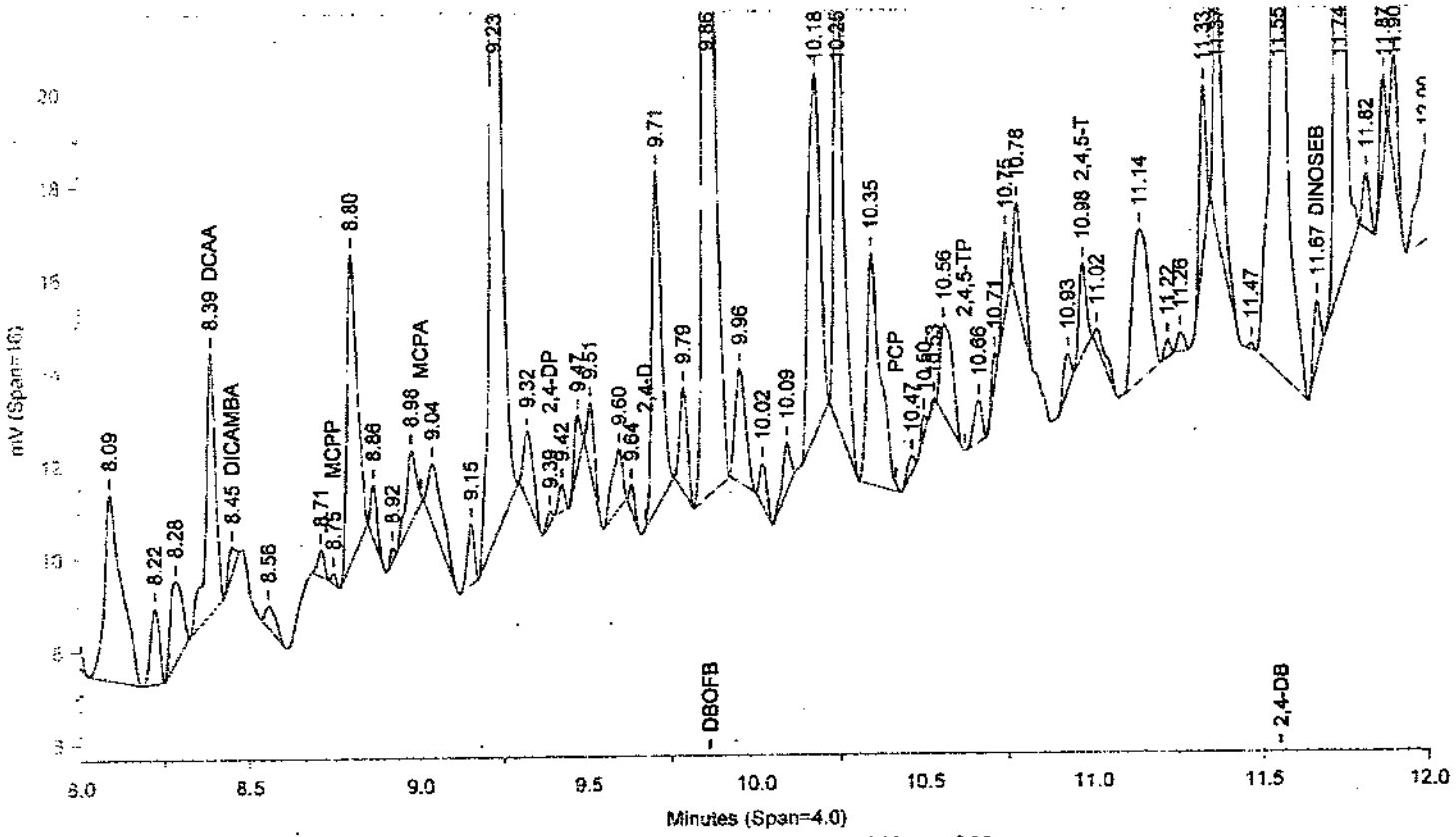
Higher Amount Found unless RPD > 40

USF03 1187

Printed on: 7/17/11 08:34:46

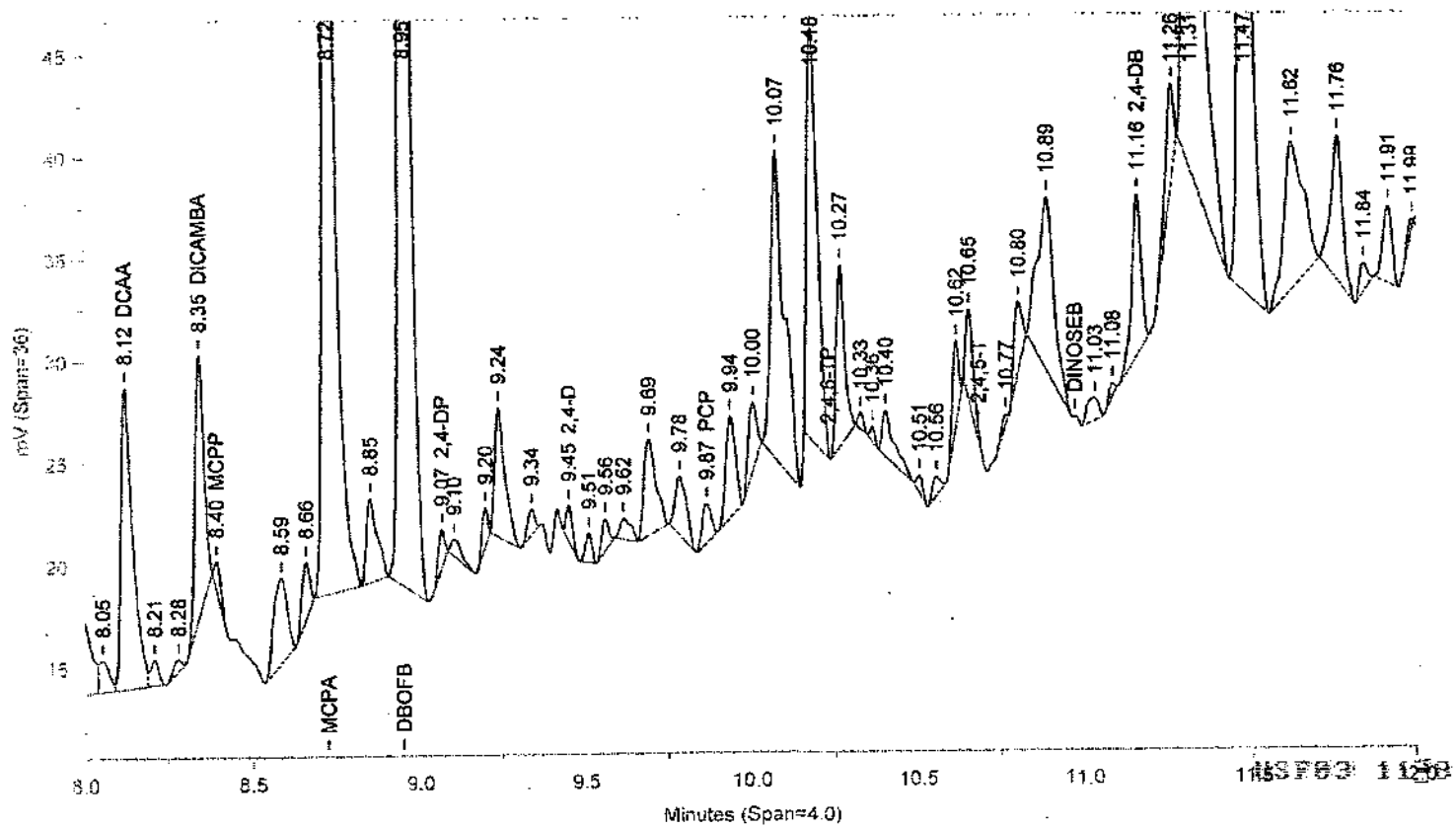
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\3H15193.11R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 8:51:57 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

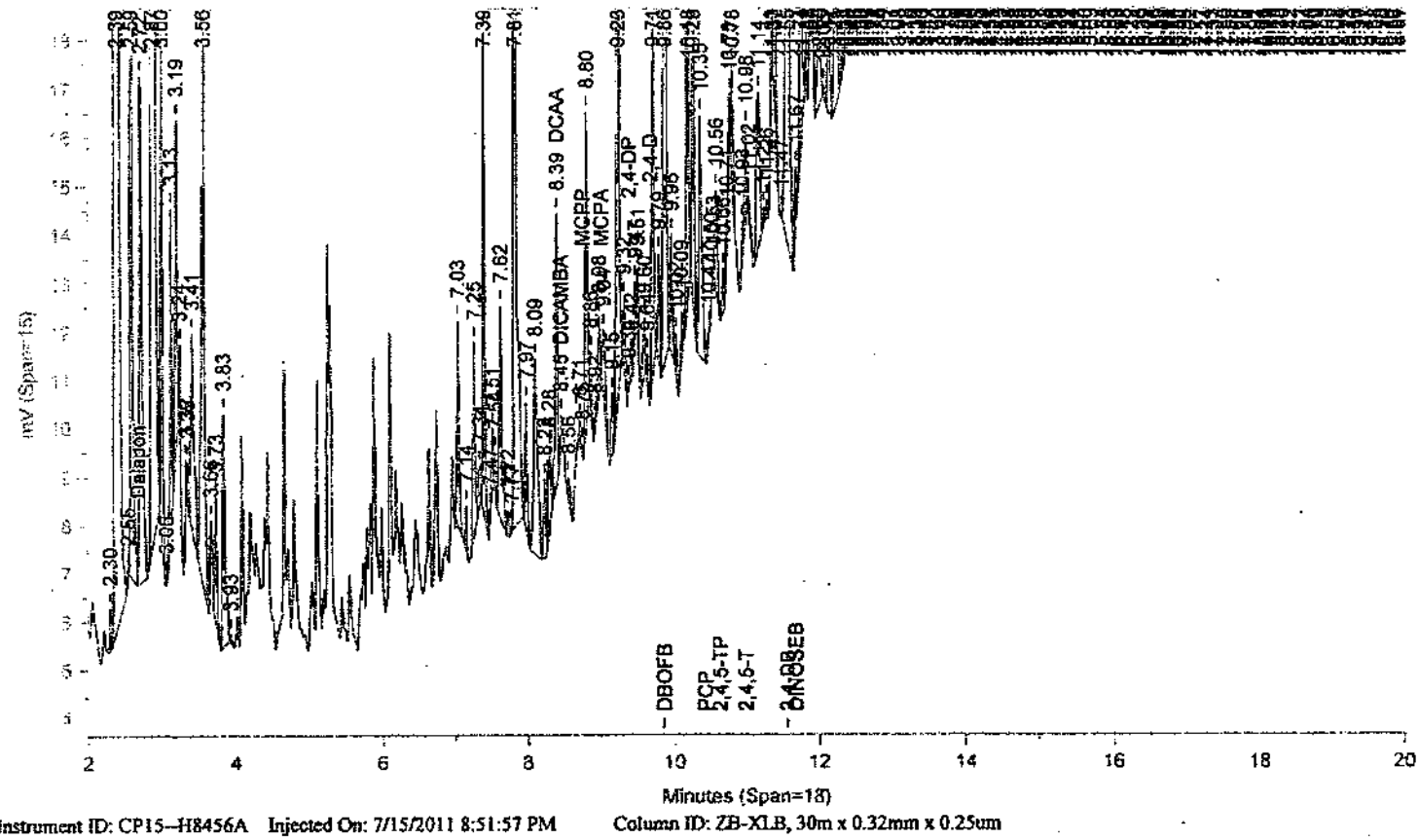
File: C:\CPWIN\DATA1\3H15193B.11R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 8:51:57 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

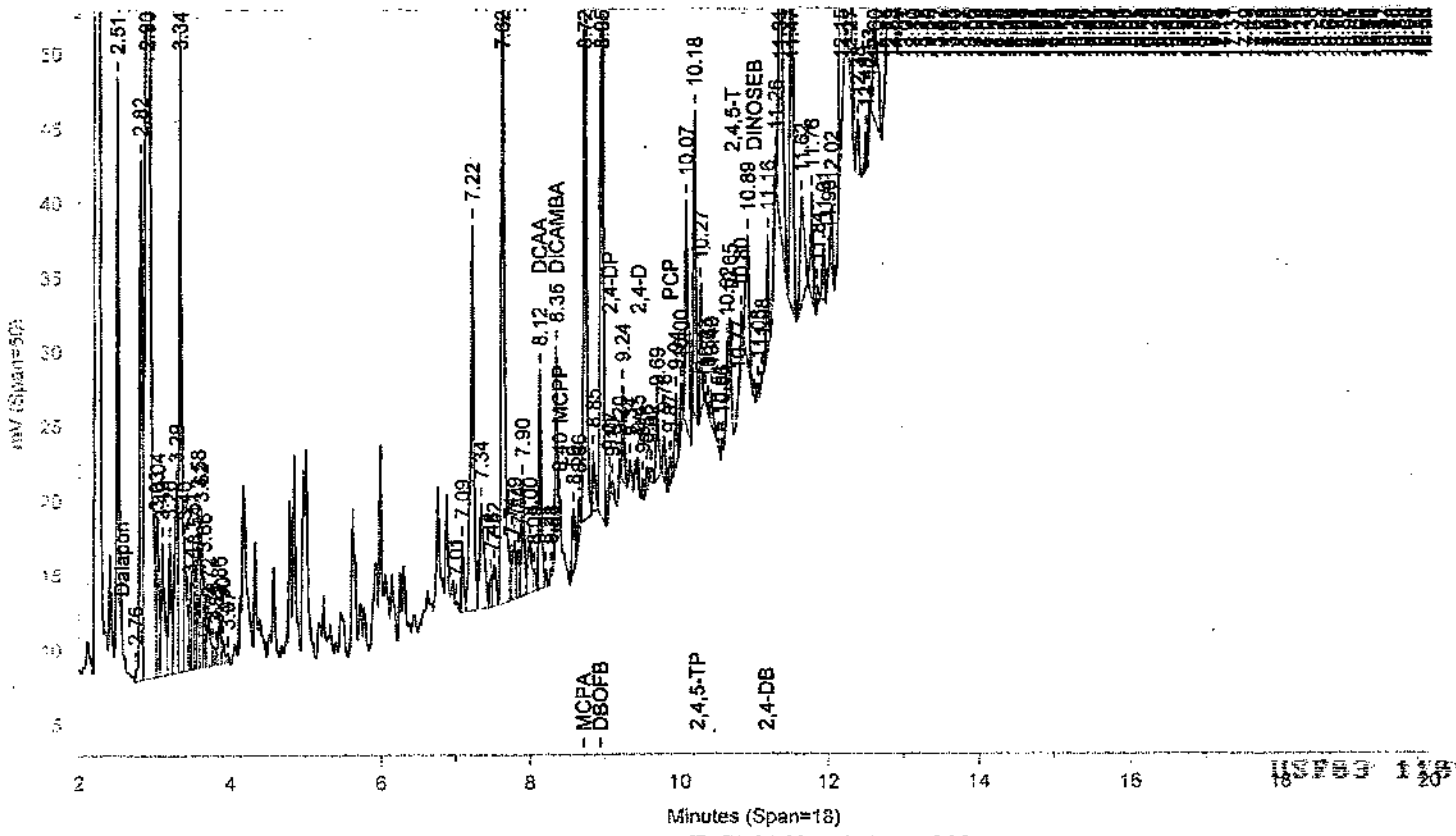
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\3H15193.11R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 8:51:57 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\3H15193B.11R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 8:51:57 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60.5 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.389	5579	5.044	DCAA	8.122	14750	5.362	DCAA
8.451	557	.125	DICAMBA	8.345	12736	1.214	DICAMBA
8.747	236	49.147	MCPP	8.396	1484	188.574	MCPP
.	0	.	MCPA	8.725	58119	4200.829	MCPA
9.862	34181	1.653	DBOFB	8.951	74404	1.653	DBOFB
9.388	256	.209	2,4-DP	9.067	1862	.779	2,4-DP
.	0	.	2,4-D	9.448	1840	.588	2,4-D
.	0	.	PCP	9.866	1939	.048	PCP
10.975	1954	.284	2,4,5-T	.	0	.	2,4,5-T
11.551	34355	43.326	2,4-DB	11.158	8003	4.215	2,4-DB
11.668	1387	.315	DINOSEB	.	0	.	DINOSEB

Files:
Area File: C:\CPWIN\DATA1\3H15193.11A
Area File: C:\CPWIN\DATA1\3H15193B.11A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 9:12:04 PM
File Reported On: 7/15/2011 at 9:12:10 PM

USF03 1119

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339388 F EBQ03 Sample ID: AB **Batchnumber: 111930002A**
Sample Amount: 1035 ml Total Volume: 10 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10407

Analysis Report (A)

Injected on : JUL 13, 2011 21:10:54
Instrument : CP15--H8456A
Result file : 1H15193.40R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 69% (35-144) Conc.: 1.333463

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.36	8.40	8.42	5557	1.333463
DICAMBA	8.44	8.48	8.50	652	0.038722
MCPP	8.72	8.72	8.78	151	8.324934
2,4-D	9.65	9.67	9.71	91	0.018558
DBOFB	9.84	9.87	9.90	37641 E	0.096618
PCP	10.40	10.43	10.46	32	0.000445
2,4,5-TP	10.60	10.64	10.66	95	0.003540
2,4-DB	11.51	11.56	11.57	36	0.011939

Analysis Report (B)

Injected on : JUL 13, 2011 21:10:54
Instrument : CP15--H8456B
Result file : 1H15193B.40R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 71.3% (35-144) Conc.: 1.377019

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.13	8.16	14095	1.377019
DICAMBA	8.31	8.34	8.37	552	0.014139
DBOFB	8.93	8.96	8.99	80922 E	0.096618
DINOSEB	10.96	11.00	11.02	290	0.008484

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon			<1.2077	<0.2415			
☐ DCAA	B	1.377019				3.21	
☑ DICAMBA			<0.2899	<0.0773			
☑ MCPP			<193.2368	<48.3092			
☑ MCPA			<966.184	<289.8552			
☑ 2,4-DP			<0.4831	<0.1546			
☑ 2,4-D			<0.4831	<0.1546			
☐ DBOFB	A	0.096618			E	0.00	
☐ PCP			<0.0483	<0.0261			
☑ 2,4,5-TP			<0.0483	<0.0097			
☑ 2,4,5-T			<0.0483	<0.0145			
☑ 2,4-DB			<0.9662	<0.2899			
☑ DINOSEB			<0.4831	<0.0966			

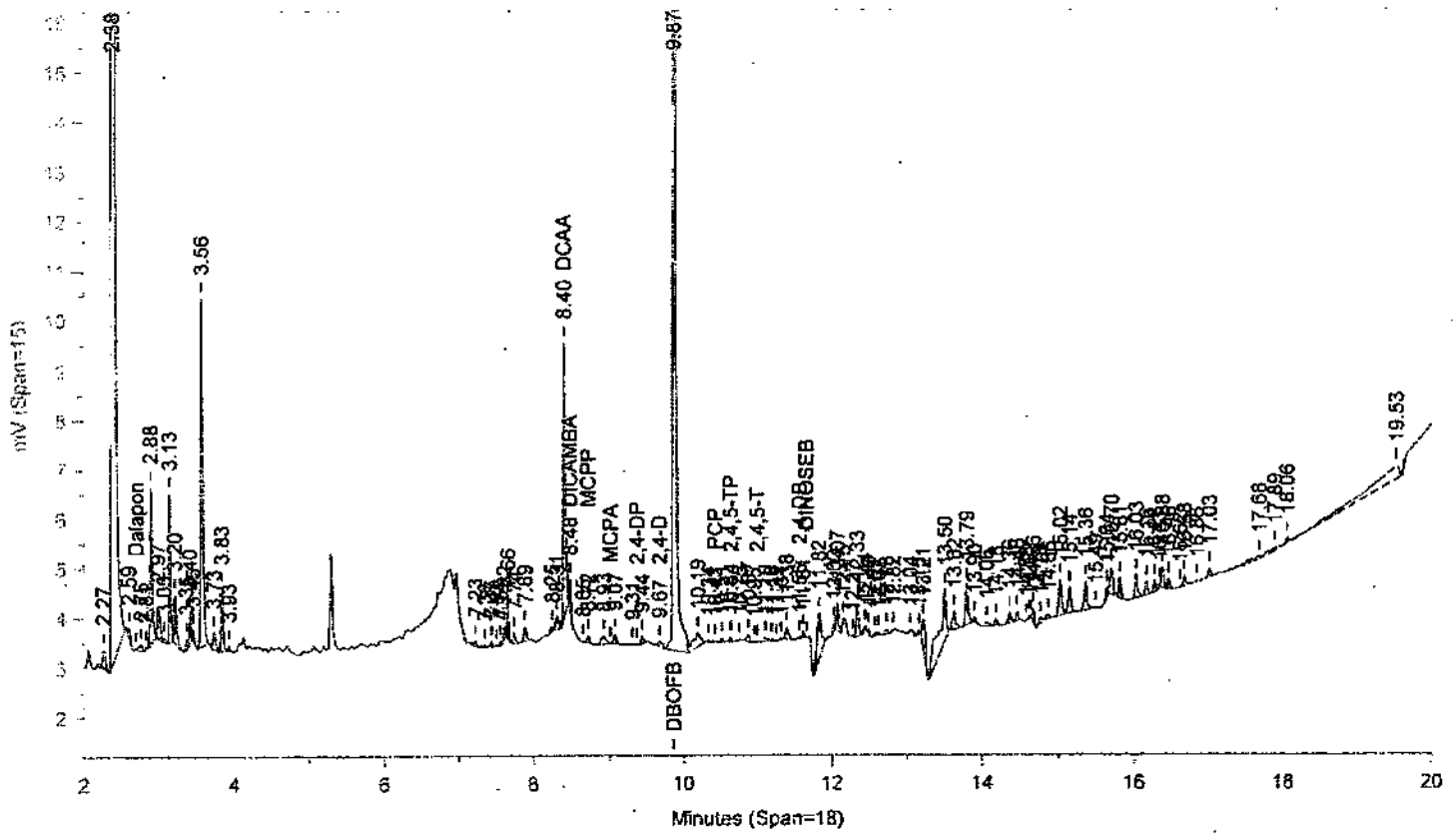
Units: ug/l

Reviewed by: J1145 Verified by: Valerie L. Tomayko Principal Specialist
Date: 7-14-11 Date: JUL 15 2011

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

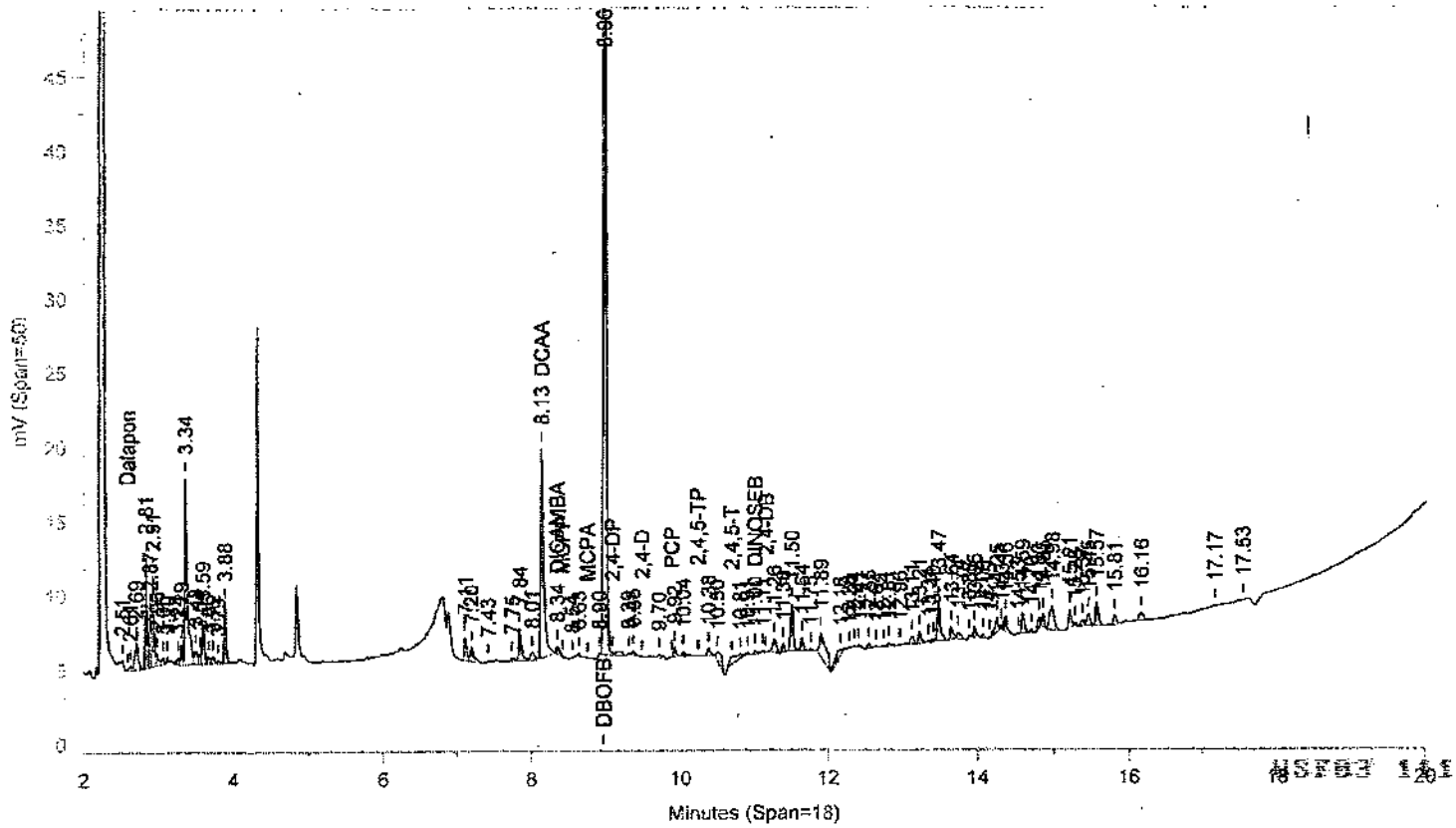
Printed on: 7/14/11 08:17:04

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1H15193.40R



Instrument ID: CP15-H8456A Injected On: 7/13/2011 9:10:54 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.40R



Instrument ID: CP15-H8456B Injected On: 7/13/2011 9:10:54 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1035 Dilution Factor: 10
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.4	5557	1.333	DCAA	8.133	14095	1.377	DCAA
8.479	652	.039	DICAMBA	8.341	552	.014	DICAMBA
8.721	151	8.325	MCPP	.	0	.	MCPP
9.867	37641	.097	DBOFB	8.957	80922	.097	DBOFB
9.672	91	.019	2,4-D	.	0	.	2,4-D
10.427	32	.	PCP	.	0	.	PCP
10.639	95	.004	2,4,5-TP	.	0	.	2,4,5-TP
.	0	.	DINOSEB	11.004	290	.008	DINOSEB
11.558	36	.012	2,4-DB	.	0	.	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\1H15193.40A
Area File: C:\CPWIN\DATA1\1H15193B.40A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 9:31:00 PM
File Reported On: 7/13/2011 at 9:31:05 PM

USF83 1113

Standards Data

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp14\C-Drive\Cpwin\DATA1\1H15193.seq
Chromatography Directory: \\cp14\C-Drive\CPWIN\data1
Method Directory: \\cp14\C-Drive\CPWIN\DATA1
Number of Entries: 53

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1H15193.01R	HERW.MET	1	1	100	0	113799999	
2	CONDITIONER	MISC	AA	1H15193.02R	HERW.MET	1	1	100	0	113799999	
3	CONDITIONER	MISC	AA	1H15193.03R	HERW.MET	1	1	100	0	113799999	
4	CONDITIONER	MISC	AA	1H15193.04R	HERW.MET	1	1	100	0	113799999	
5	CONDITIONER	MISC	AA	1H15193.05R	HERW.MET	1	1	100	0	113799999	
6	HIBLKX1124A	PIBLK	AA	1H15193.06R	HERW.MET	1000	10	100	0	113799999	
7	HERB11124B	ICAL	AA	1H15193.07R	HERW.MET	1	1	100	1	113799999	
8	HERB21124B	ICAL	AA	1H15193.08R	HERW.MET	1	1	100	2	113799999	
9	HERB31124B	ICAL	AA	1H15193.09R	HERW.MET	1	1	100	3	113799999	
10	HERB41124B	ICAL	AA	1H15193.10R	HERW.MET	1	1	100	4	113799999	
11	HERB51124B	ICAL	AA	1H15193.11R	HERW.MET	1	1	100	5	113799999	
12	MDHEX1124C	ICAL	AA	1H15193.12R	HERW.MET	1	1	100	0	113799999	
13	ICHBX1124C	CCAL	FQ	1H15193.13R	HERW.MET	1	1	100	0	113799999	
14	6332669F DF20	T	AC	1H15193.14R	HERW.MET	976	200	100	0	111820006A	10407
15	BLANKA 7/7/11F	BLK	AB	1H15193.15R	HERW.MET	1000	10	100	0	111870012A	10407
16	LCSA 7/7/11F	LCS	AB	1H15193.16R	HERW.MET	1000	10	100	0	111870012A	10407
17	LCSDA 7/7/11F	LCSD	AB	1H15193.17R	HERW.MET	1000	10	100	0	111870012A	10407
18	6332669RF DF20	T	AC	1H15193.18R	HERW.MET	989	200	100	0	111870012A	10407
19	6332669RF	T	AB	1H15193.19R	HERW.MET	989	10	100	0	111870012A	10407
20	6333672F	T	AB	1H15193.20R	HERW.MET	1008	10	100	0	111870012A	10407
21	6333673F	T	AB	1H15193.21R	HERW.MET	1054	10	100	0	111870012A	10407
22	6333674F	T	AB	1H15193.22R	HERW.MET	1021	10	100	0	111870012A	10407
23	6333675F	T	AB	1H15193.23R	HERW.MET	1021	10	100	0	111870012A	10407
24	HERB31124B	CCAL	AG	1H15193.24R	HERW.MET	1	1	100	0	113799999	
25	HIBLKX1124A	PIBLK	AA	1H15193.25R	HERW.MET	1000	10	100	0	113799999	
26	6338983F DF10	T	AC	1H15193.26R	HERW.MET	30.5	100	100	0	111900005A	10401
27	HERB31124B	CCAL	AG	1H15193.27R	HERW.MET	1	1	100	0	113799999	
28	HIBLKX1124A	PIBLK	AA	1H15193.28R	HERW.MET	1000	10	100	0	113799999	
29	CONDITIONER	MISC	AA	1H15193.29R	HERW.MET	1	1	100	0	113799999	
30	CONDITIONER	MISC	AA	1H15193.30R	HERW.MET	1	1	100	0	113799999	
31	CONDITIONER	MISC	AA	1H15193.31R	HERW.MET	1	1	100	0	113799999	
32	HERB31124B	CCAL	AG	1H15193.32R	HERW.MET	1	1	100	0	113799999	
33	HIBLKX1124A	PIBLK	AA	1H15193.33R	HERW.MET	1000	10	100	0	113799999	
34	6332669F DF50	T	AD	1H15193.34R	HERW.MET	976	500	100	0	111820006A	10407
35	6332669RF DF50	T	AD	1H15193.35R	HERW.MET	989	500	100	0	111870012A	10407
36	BLANKA 7/12/11F	BLK	AB	1H15193.36R	HERW.MET	1000	10	100	0	111930002A	10407
37	LCSA 7/12/11F	LCS	AB	1H15193.37R	HERW.MET	1000	10	100	0	111930002A	10407
38	LCSDA 7/12/11F	LCSD	AB	1H15193.38R	HERW.MET	1000	10	100	0	111930002A	10407
39	6338269F	T	AB	1H15193.39R	HERW.MET	1039	10	100	0	111930002A	10407
40	6339388F	T	AB	1H15193.40R	HERW.MET	1035	10	100	0	111930002A	10407
41	BLANKA 7/12/11F	BLK	AB	1H15193.41R	HERW.MET	1000	10	100	0	111930001A	10407
42	LCSA 7/12/11F	LCS	AB	1H15193.42R	HERW.MET	1000	10	100	0	111930001A	10407
43	LCSDA 7/12/11F	LCSD	AB	1H15193.43R	HERW.MET	1000	10	100	0	111930001A	10407
44	HERB31124B	CCAL	AG	1H15193.44R	HERW.MET	1	1	100	0	113799999	
45	HIBLKX1124A	PIBLK	AA	1H15193.45R	HERW.MET	1000	10	100	0	113799999	
46	6338474F	T	AB	1H15193.46R	HERW.MET	1000	10	100	0	111930001A	10407
47	6338475F	T	AB	1H15193.47R	HERW.MET	1017	10	100	0	111930001A	10407
48	6338476F	T	AB	1H15193.48R	HERW.MET	1022	10	100	0	111930001A	10407
49	6338477F	T	AB	1H15193.49R	HERW.MET	978	10	100	0	111930001A	10407
50	6338478F	T	AB	1H15193.50R	HERW.MET	1015	10	100	0	111930001A	10407

USF0407 1115

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp14\C-Drive\Cpwin\DATA1\1H15193.seq

Chromatography Directory: \\cp14\C-Drive\CPWIN\data1

Method Directory: \\cp14\C-Drive\CPWIN\DATA1

Number of Entries: 53

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51	6338479F	T	AB	1H15193.51R	HERW.MET	1032	10	100	0	111930001A	10407
52	HERB31124B	CCAL	AG	1H15193.52R	HERW.MET	1	1	100	0	113799999	
53	HIBLKX1124A	PIBLK	AA	1H15193.53R	HERW.MET	1000	10	100	0	113799999	

USF03 1116

Set-up by: P1145 Date: 7-13-11

7/13/11

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp14\C-Drive\Cpwin\DATA1\2H15193.seq

Chromatography Directory: \\cp14\C-Drive\CPWIN\data1

Method Directory: \\cp14\C-Drive\CPWIN\DATA1

Number of Entries: 64

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	2H15193.01R	HERW.MET	1	1	100	0	113799999	
2	CONDITIONER	MISC	AA	2H15193.02R	HERW.MET	1	1	100	0	113799999	
3	HERB31124B	CCAL	AG	2H15193.03R	HERW.MET	1	1	100	0	113799999	
4	HIBLKX1124A	PIBLK	AA	2H15193.04R	HERW.MET	1000	10	100	0	113799999	
5	BLANKA 7/13/11F	BLK	AB	2H15193.05R	HERW.MET	50	10	100	0	111940007A	00952
6	LCSA 7/13/11F	LCS	AB	2H15193.06R	HERW.MET	50	10	100	0	111940007A	00952
7	6337487F	T	AB	2H15193.07R	HERW.MET	50	10	100	0	111940007A	00952
8	6337487MSF	MS	AB	2H15193.08R	HERW.MET	50	10	100	0	111940007A	00952
9	6337487MSDF	MSD	AB	2H15193.09R	HERW.MET	50	10	100	0	111940007A	00952
10	6337542F	T	AB	2H15193.10R	HERW.MET	50	10	100	0	111940007A	00952
11	6337542MSF	MS	AB	2H15193.11R	HERW.MET	50	10	100	0	111940007A	00952
12	6337549F	T	AB	2H15193.12R	HERW.MET	50	10	100	0	111940007A	00952
13	6337556F	T	AB	2H15193.13R	HERW.MET	50	10	100	0	111940007A	00952
14	6337563F	T	AB	2H15193.14R	HERW.MET	50	10	100	0	111940007A	00952
15	HERB31124B	CCAL	AG	2H15193.15R	HERW.MET	1	1	100	0	113799999	
16	HIBLKX1124A	PIBLK	AA	2H15193.16R	HERW.MET	1000	10	100	0	113799999	
17	6338382F	T	AB	2H15193.17R	HERW.MET	50	10	100	0	111940007A	00952
18	6339123F	T	AB	2H15193.18R	HERW.MET	50	10	100	0	111940007A	00952
19	6339130F	T	AB	2H15193.19R	HERW.MET	50	10	100	0	111940007A	00952
20	6339137F	T	AB	2H15193.20R	HERW.MET	50	10	100	0	111940007A	00952
21	6339144F	T	AB	2H15193.21R	HERW.MET	50	10	100	0	111940007A	00952
22	6339151F	T	AB	2H15193.22R	HERW.MET	50	10	100	0	111940007A	00952
23	6339157F	T	AB	2H15193.23R	HERW.MET	50	10	100	0	111940007A	00952
24	6339163F	T	AB	2H15193.24R	HERW.MET	50	10	100	0	111940007A	00952
25	6339169F	T	AB	2H15193.25R	HERW.MET	50	10	100	0	111940007A	00952
26	6340120F	T	AB	2H15193.26R	HERW.MET	50	10	100	0	111940007A	00952
27	HERB31124B	CCAL	AG	2H15193.27R	HERW.MET	1	1	100	0	113799999	
28	HIBLKX1124A	PIBLK	AA	2H15193.28R	HERW.MET	1000	10	100	0	113799999	
29	BLANKA 7/13/11F	BLK	AB	2H15193.29R	HERW.MET	1000	10	100	0	111940008A	10407
30	LCSA 7/13/11F	LCS	AB	2H15193.30R	HERW.MET	1000	10	100	0	111940008A	10407
31	LCSDA 7/13/11F	LCSD	AB	2H15193.31R	HERW.MET	1000	10	100	0	111940008A	10407
32	6340962F	T	AB	2H15193.32R	HERW.MET	1049	10	100	0	111940008A	10407
33	6340963F	T	AB	2H15193.33R	HERW.MET	1047	10	100	0	111940008A	10407
34	BLANKA 7/13/11F	BLK	AB	2H15193.34R	HERW.MET	60	2	100	0	111930026A	10401
35	LCSA 7/13/11F	LCS	AB	2H15193.35R	HERW.MET	60	2	100	0	111930026A	10401
36	LCSDA 7/13/11F	LCSD	AB	2H15193.36R	HERW.MET	60	2	100	0	111930026A	10401
37	DICDALV 7/13/11F	CRDL	AB	2H15193.37R	HERW.MET	60	2	100	0	111930026A	10401
38	MDLV 7/13/11F	MDL	AB	2H15193.38R	HERW.MET	60	2	100	0	111930026A	10401
39	HERB31124B	CCAL	AG	2H15193.39R	HERW.MET	1	1	100	0	113799999	
40	HIBLKX1124A	PIBLK	AA	2H15193.40R	HERW.MET	1000	10	100	0	113799999	
41	RL2LCS 7/13/11F	LCS	AB	2H15193.41R	HERW.MET	60	2	100	0	111930026A	10401
42	24DBDLV 7/13/11F	CRDL	AB	2H15193.42R	HERW.MET	60	2	100	0	111930026A	10401
43	6339384F	T	AB	2H15193.43R	HERW.MET	60	2	100	0	111930026A	10401
44	6339377F	T	AB	2H15193.44R	HERW.MET	60.4	2	100	0	111930026A	10401
45	6339378MSF	MS	AB	2H15193.45R	HERW.MET	60.4	2	100	0	111930026A	10401
46	6339379MSDF	MSD	AB	2H15193.46R	HERW.MET	60.4	2	100	0	111930026A	10401
47	6337203F	T	AB	2H15193.47R	HERW.MET	60.2	2	100	0	111930026A	10401
48	6337205F	T	AB	2H15193.48R	HERW.MET	60.5	2	100	0	111930026A	10401
49	6337207F	T	AB	2H15193.49R	HERW.MET	60.1	2	100	0	111930026A	10401
50	6337209F	T	AB	2H15193.50R	HERW.MET	60.4	2	100	0	111930026A	10401

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp14\C-Drive\Cpwin\DATA1\2H15193.seq
Chromatography Directory: \\cp14\C-Drive\CPWIN\data1
Method Directory: \\cp14\C-Drive\CPWIN\DATA1
Number of Entries: 64

	Samplename	Code	ID	FileName	Method		Samp Amt	DF	Int Std	C	Batch Number	Analysis
51	HERB31124B	CCAL	AG	2H15193.51R		HERW.MET	1	1	100	0	113799999	
52	HIBLKX1124A	PIBLK	AA	2H15193.52R		HERW.MET	1000	10	100	0	113799999	
53	6337212F	T	AB	2H15193.53R		HERW.MET	60.4	2	100	0	111930026A	10401
54	6338249F	T	AB	2H15193.54R		HERW.MET	60.5	2	100	0	111930026A	10401
55	6338250F	T	AB	2H15193.55R		HERW.MET	68.4	2	100	0	111930026A	10401
56	6338252F	T	AB	2H15193.56R		HERW.MET	60.2	2	100	0	111930026A	10401
57	6338261F	T	AB	2H15193.57R		HERW.MET	60.2	2	100	0	111930026A	10401
58	6338263F	T	AB	2H15193.58R		HERW.MET	60.3	2	100	0	111930026A	10401
59	6338264F	T	AB	2H15193.59R		HERW.MET	60.2	2	100	0	111930026A	10401
60	6339368F	T	AB	2H15193.60R		HERW.MET	60.1	2	100	0	111930026A	10401
61	6339370F	T	AB	2H15193.61R		HERW.MET	60.5	2	100	0	111930026A	10401
62	6339372F	T	AB	2H15193.62R		HERW.MET	60.3	2	100	0	111930026A	10401
63	HERB31124B	CCAL	AG	2H15193.63R		HERW.MET	1	1	100	0	113799999	
64	HIBLKX1124A	PIBLK	AA	2H15193.64R		HERW.MET	1000	10	100	0	113799999	

USF83 1110

Set-up by: JP 1145 Date: 7-15-11

7/15/11

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp14\C-Drive\Cpwin\DATA1\3H15193.seq
Chromatography Directory: \\cp14\C-Drive\CPWIN\data1
Method Directory: \\cp14\C-Drive\CPWIN\DATA1
Number of Entries: 33

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1	CONDITIONER	MISC	AA	3H15193.01R	HERW.MET	1	1	100	0	113799999	
2	CONDITIONER	MISC	AA	3H15193.02R	HERW.MET	1	1	100	0	113799999	
3	HERB31124B	CCAL	AG	3H15193.03R	HERW.MET	1	1	100	0	113799999	
4	HIBLKX1124A	PIBLK	AA	3H15193.04R	HERW.MET	1000	10	100	0	113799999	
5	6338476F DF10	T	AC	3H15193.05R	HERW.MET	1022	100	100	0	111930001A	10407
6	6338477F DF5	T	AC	3H15193.06R	HERW.MET	978	50	100	0	111930001A	10407
7	6338478F DF5	T	AC	3H15193.07R	HERW.MET	1015	50	100	0	111930001A	10407
8	6338479F DF10	T	AC	3H15193.08R	HERW.MET	1032	100	100	0	111930001A	10407
9	6339374F	T	AB	3H15193.09R	HERW.MET	60.5	2	100	0	111930026A	10401
10	6339375F	T	AB	3H15193.10R	HERW.MET	60.3	2	100	0	111930026A	10401
11	6339386F	T	AB	3H15193.11R	HERW.MET	60.5	2	100	0	111930026A	10401
12	BLANKA 7/14/11F	BLK	AB	3H15193.12R	HERW.MET	60	2	100	0	111950013A	10401
13	LCSA 7/14/11F	LCS	AB	3H15193.13R	HERW.MET	60	2	100	0	111950013A	10401
14	HERB31124B	CCAL	AG	3H15193.14R	HERW.MET	1	1	100	0	113799999	
15	HIBLKX1124A	PIBLK	AA	3H15193.15R	HERW.MET	1000	10	100	0	113799999	
16	6340796F	T	AB	3H15193.16R	HERW.MET	60	2	100	0	111950013A	10401
17	6340797MSF	MS	AB	3H15193.17R	HERW.MET	60	2	100	0	111950013A	10401
18	6340798MSDF	MSD	AB	3H15193.18R	HERW.MET	60	2	100	0	111950013A	10401
19	6340795F	T	AB	3H15193.19R	HERW.MET	60	2	100	0	111950013A	10401
20	6340800F	T	AB	3H15193.20R	HERW.MET	60	2	100	0	111950013A	10401
21	6340801F	T	AB	3H15193.21R	HERW.MET	60	2	100	0	111950013A	10401
22	6340802F	T	AB	3H15193.22R	HERW.MET	60	2	100	0	111950013A	10401
23	6342218F	T	AB	3H15193.23R	HERW.MET	60	2	100	0	111950013A	10401
24	6342219F	T	AB	3H15193.24R	HERW.MET	60	2	100	0	111950013A	10401
25	6342220F	T	AB	3H15193.25R	HERW.MET	60	2	100	0	111950013A	10401
26	HERB31124B	CCAL	AG	3H15193.26R	HERW.MET	1	1	100	0	113799999	
27	HIBLKX1124A	PIBLK	AA	3H15193.27R	HERW.MET	1000	10	100	0	113799999	
28	6342221F	T	AB	3H15193.28R	HERW.MET	60	2	100	0	111950013A	10401
29	6342222F	T	AB	3H15193.29R	HERW.MET	60	2	100	0	111950013A	10401
30	6342223F	T	AB	3H15193.30R	HERW.MET	60	2	100	0	111950013A	10401
31	6342224F	T	AB	3H15193.31R	HERW.MET	60	2	100	0	111950013A	10401
32	HERB31124B	CCAL	AG	3H15193.32R	HERW.MET	1	1	100	0	113799999	
33	HIBLKX1124A	PIBLK	AA	3H15193.33R	HERW.MET	1000	10	100	0	113799999	

USED 1145

Set-up by: P1145 Date: 7-15-11

7/15/11

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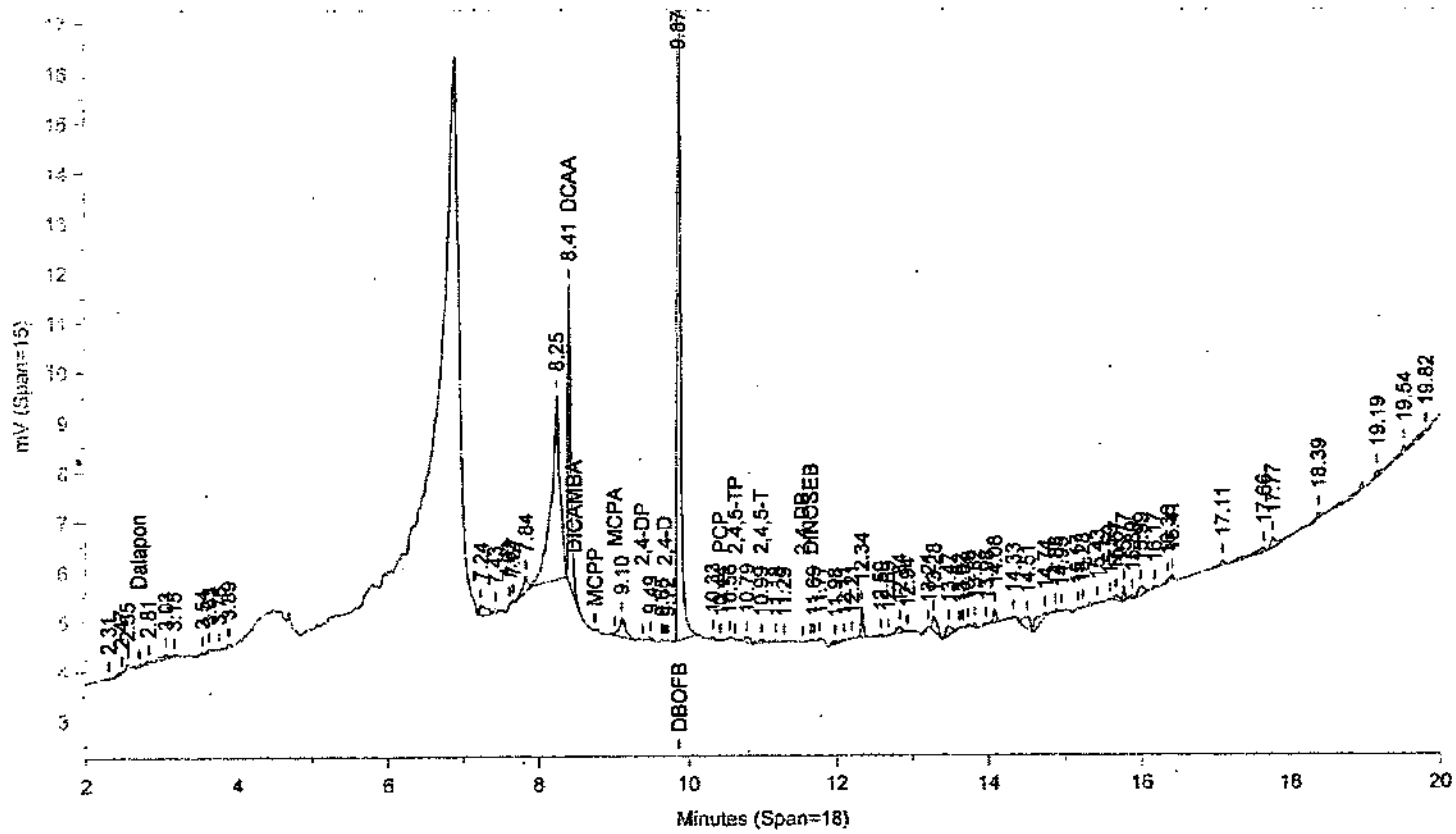
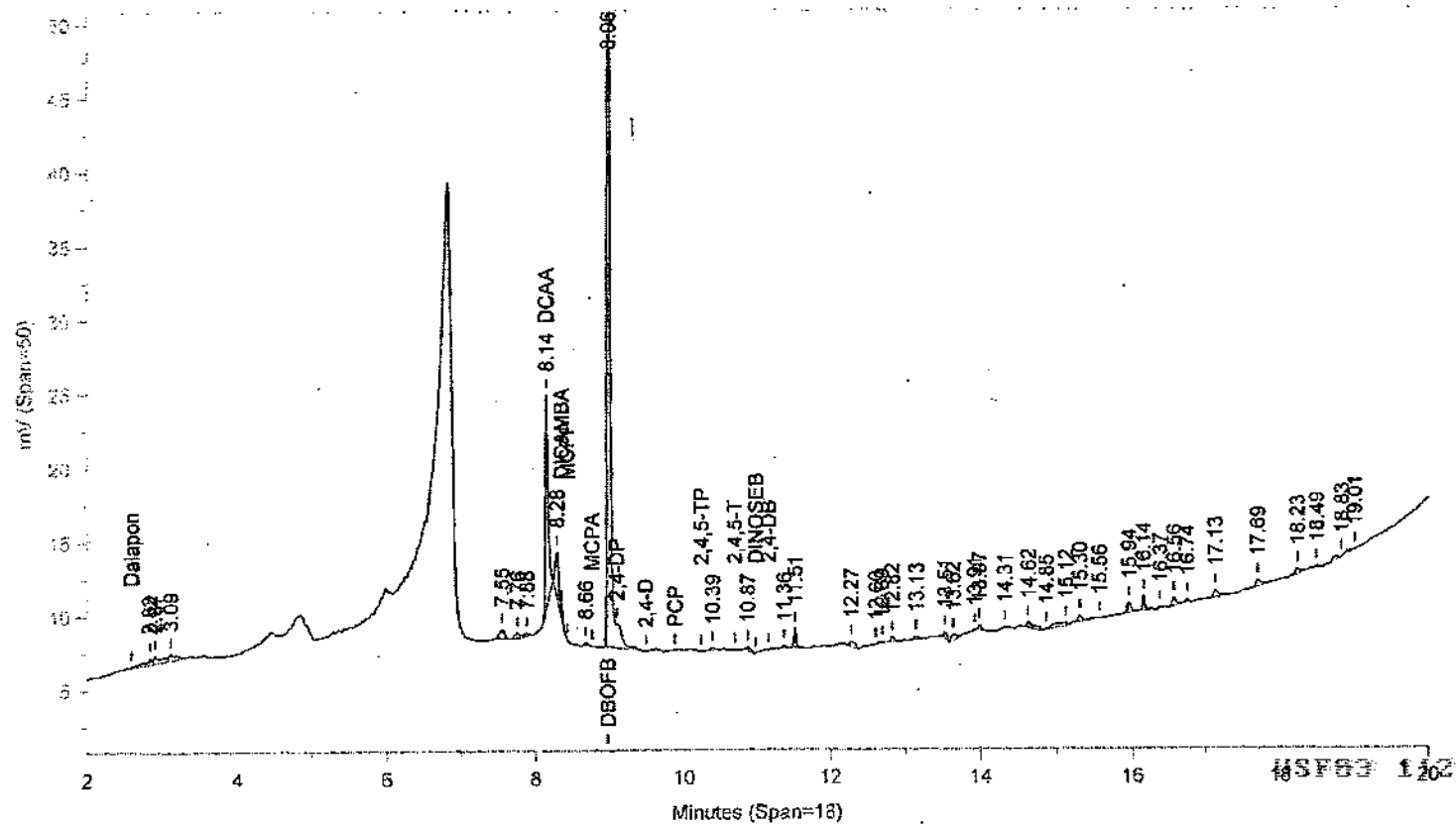
File: C:\CPWIN\DATA1\1H15193.06R



Instrument ID: CP15--H8456A Injected On: 7/12/2011 4:18:08 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.06R



Instrument ID: CP15--H8456B Injected On: 7/12/2011 4:18:08 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1000 Dilution Factor: 10
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.407	5994	1.517	DCAA	8.14	14478	1.558	DCAA
9.873	36026	.1	DBOFB	8.963	76874	.1	DBOFB
10.439	21	.	PCP	.	0	.	PCP
10.989	70	.003	2,4,5-T	.	0	.	2,4,5-T

Files:
Area File: C:\CPWIN\DATA1\1H15193.06A
Area File: C:\CPWIN\DATA1\1H15193B.06A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/12/2011 4:38:14 PM
File Reported On: 7/12/2011 at 4:38:20 PM

USF83 1121

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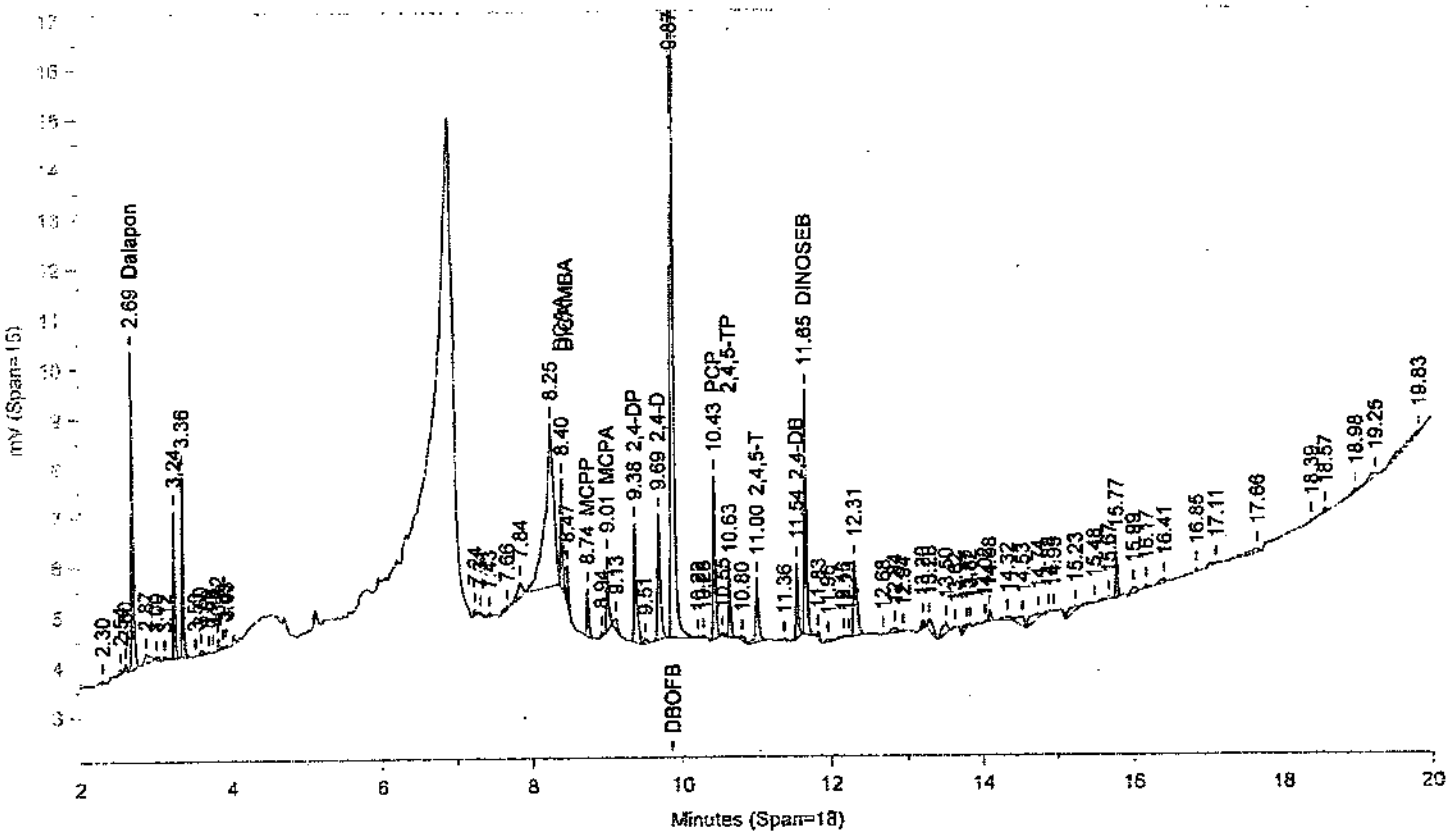
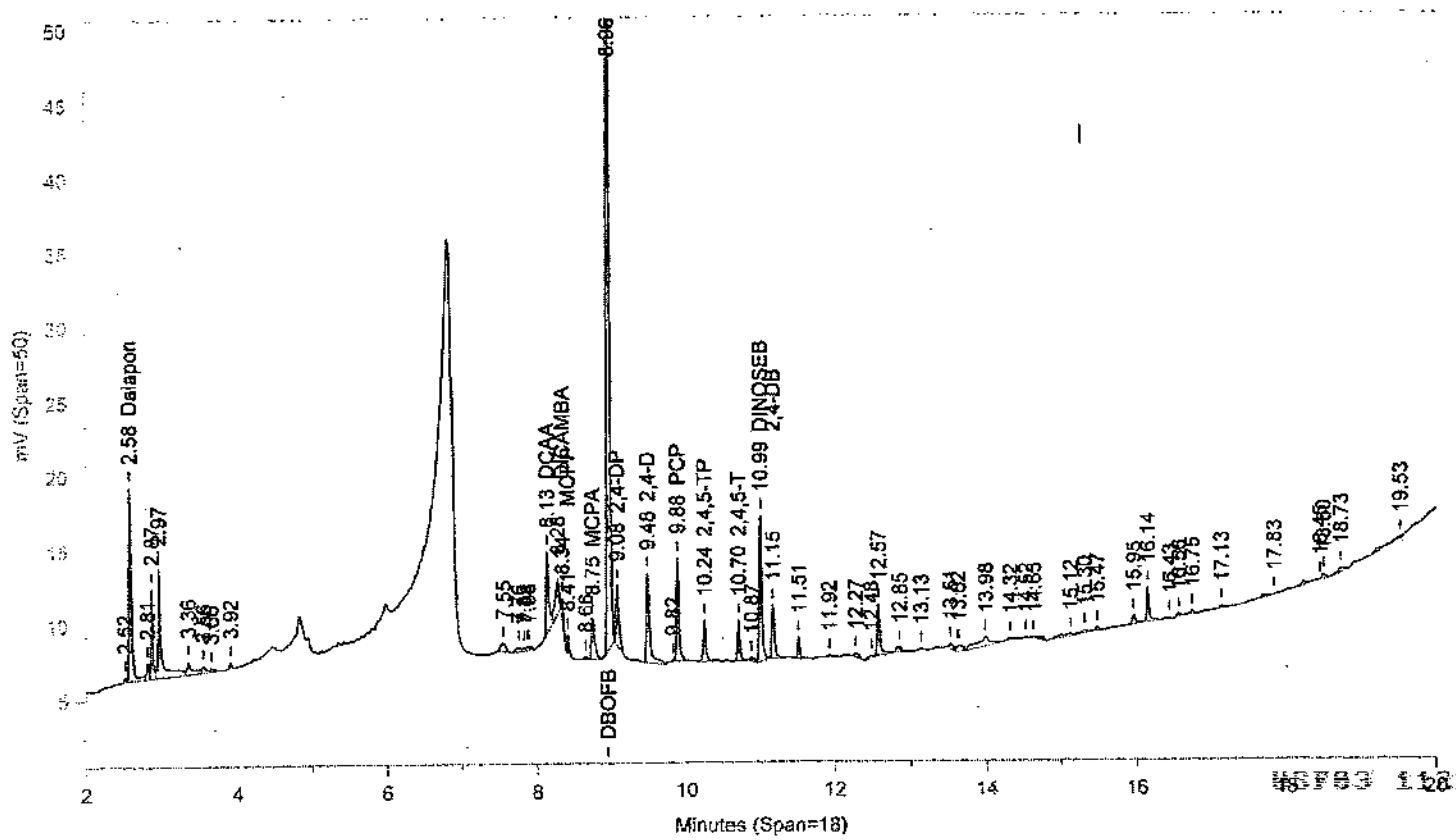
File: C:\CPWIN\DATA1\1H15193.07R



Instrument ID: CP15--H8456A Injected On: 7/12/2011 4:45:52 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.07R



Instrument ID: CP15--H8456B Injected On: 7/12/2011 4:45:52 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.688	6430	112.665	Dalapon	2.581	13032	113.748	Dalapon
8.399	2213	56.704	DCAA	8.134	5515	58.761	DCAA
8.47	731	4.639	DICAMBA	8.339	1576	4.404	DICAMBA
8.744	977	5757.713	MCPP	8.414	1196	4451.787	MCPP
9.01	1508	6201.785	MCPA	8.753	2711	5743.531	MCPA
9.87	36484	100.	DBOFB	8.961	76795	100.	DBOFB
9.379	2392	55.366	2,4-DP	9.08	4001	49.096	2,4-DP
9.689	2541	55.216	2,4-D	9.483	6007	56.297	2,4-D
10.432	3289	4.939	PCP	9.878	6960	5.064	PCP
10.634	1208	4.813	2,4,5-TP	10.24	2768	4.908	2,4,5-TP
10.998	1278	5.266	2,4,5-T	10.695	2786	6.518	2,4,5-T
11.655	4971	31.95	DINOSEB	10.986	9842	31.403	DINOSEB
11.54	1513	54.069	2,4-DB	11.155	3609	55.714	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\1H15193.07A
Area File: C:\CPWIN\DATA1\1H15193B.07A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 10:49:20 AM
File Reported On: 7/13/2011 at 10:49:27 AM

USFB3 1123

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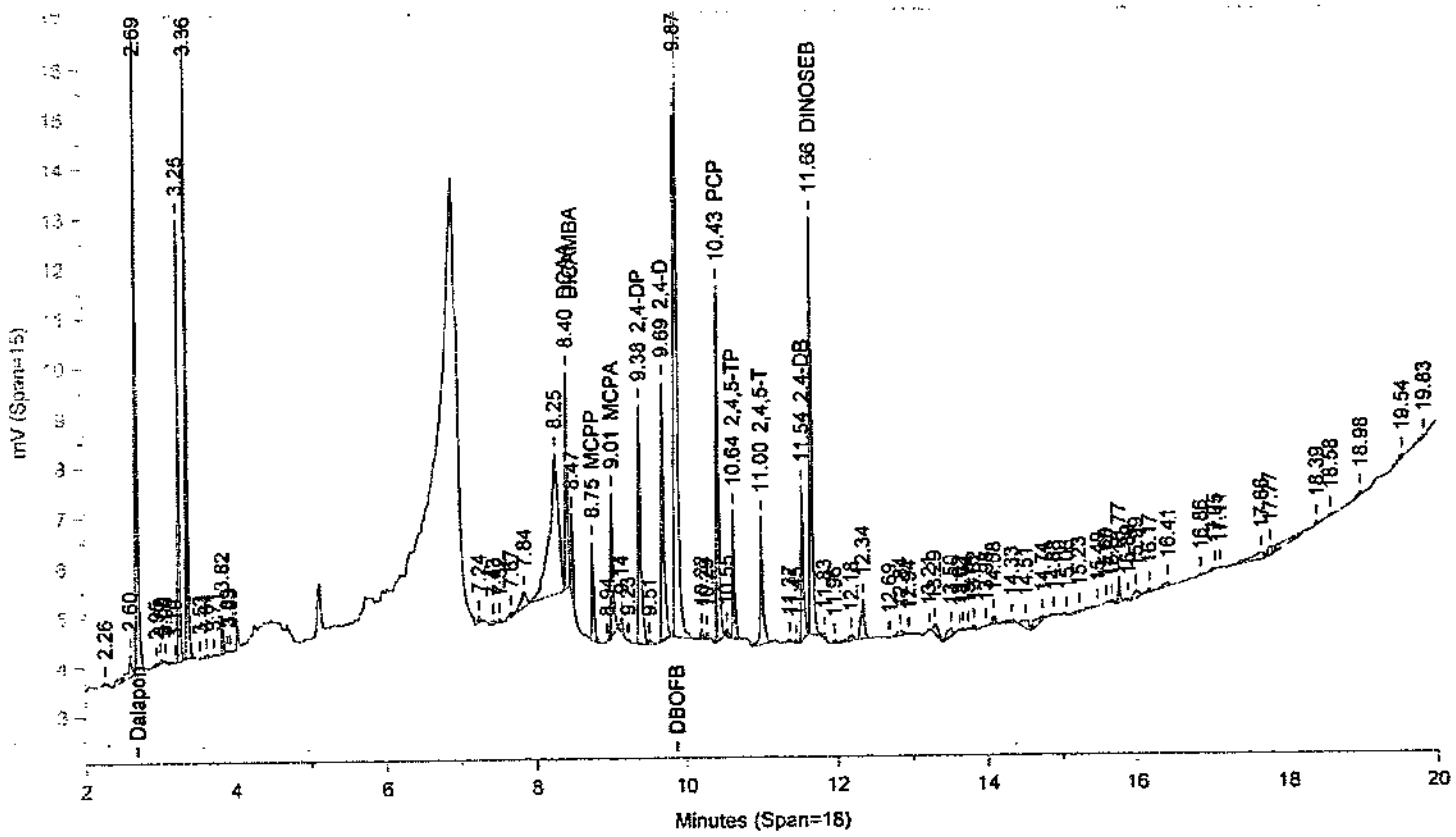
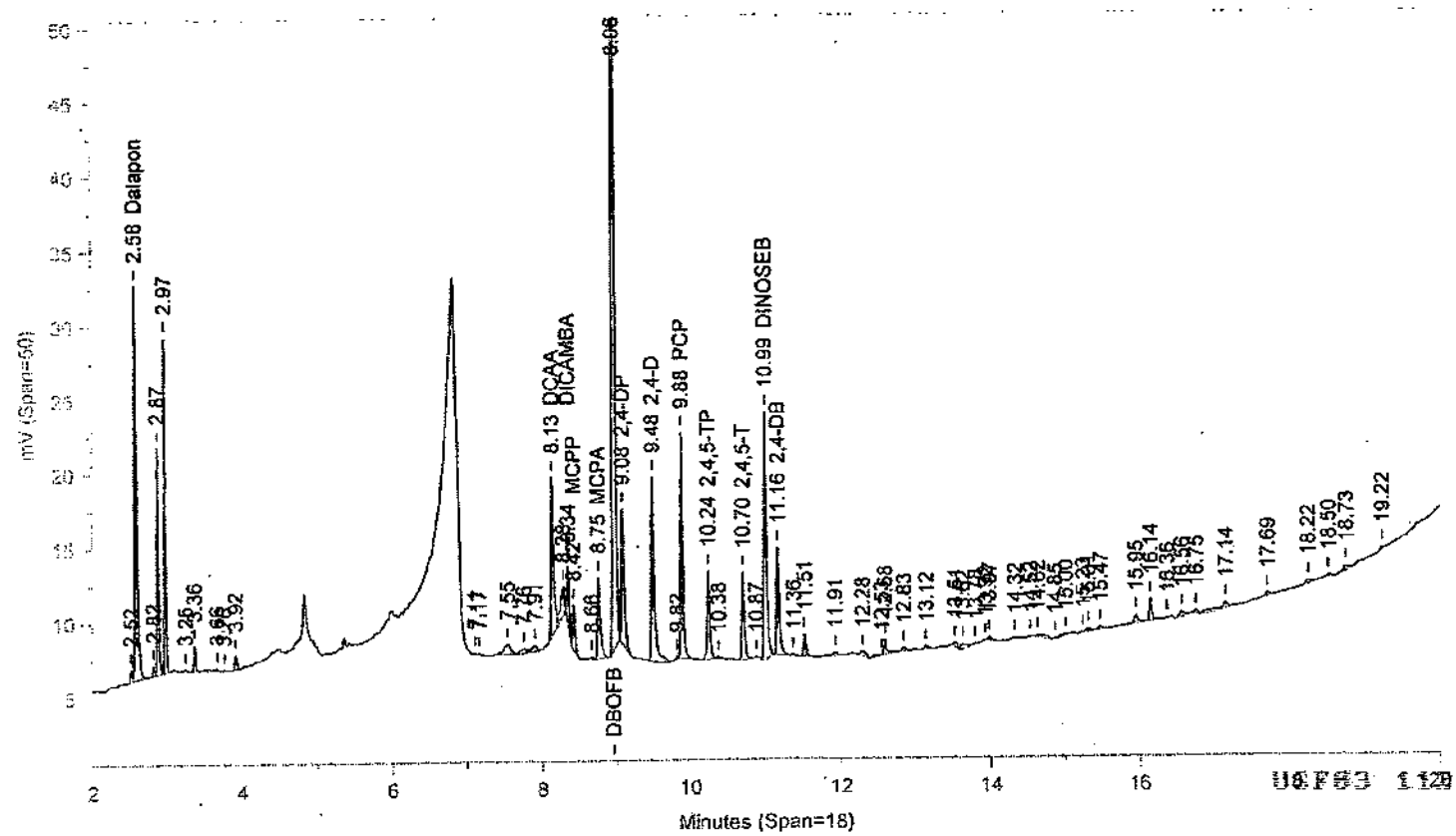
File: C:\CPWIN\DATA1\1H15193.08R



Instrument ID: CP15--H8456A Injected On: 7/12/2011 5:13:39 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.08R



Instrument ID: CP15--H8456B Injected On: 7/12/2011 5:13:39 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.689	13279	219.965	Dalapon	2.582	26751	218.929	Dalapon
8.399	4353	105.435	DCAA	8.133	10659	106.479	DCAA
8.47	1659	9.95	DICAMBA	8.343	3798	9.951	DICAMBA
8.745	2008	11185.96	MCPP	8.416	3007	10497.25	MCPP
9.01	2876	11182.86	MCPA	8.753	5489	10902.73	MCPA
9.872	38593	100.	DBOFB	8.963	81909	100.	DBOFB
9.38	4802	105.099	2,4-DP	9.081	8979	103.301	2,4-DP
9.69	5205	106.912	2,4-D	9.484	12409	109.039	2,4-D
10.433	7141	10.137	PCP	9.88	15164	10.345	PCP
10.636	2580	9.724	2,4,5-TP	10.242	5988	9.953	2,4,5-TP
11.	2579	10.043	2,4,5-T	10.698	5902	12.244	2,4,5-T
11.657	8379	50.914	DINOSEB	10.987	16709	49.987	DINOSEB
11.541	3097	104.642	2,4-DB	11.155	7251	104.954	2,4-DB

Files:
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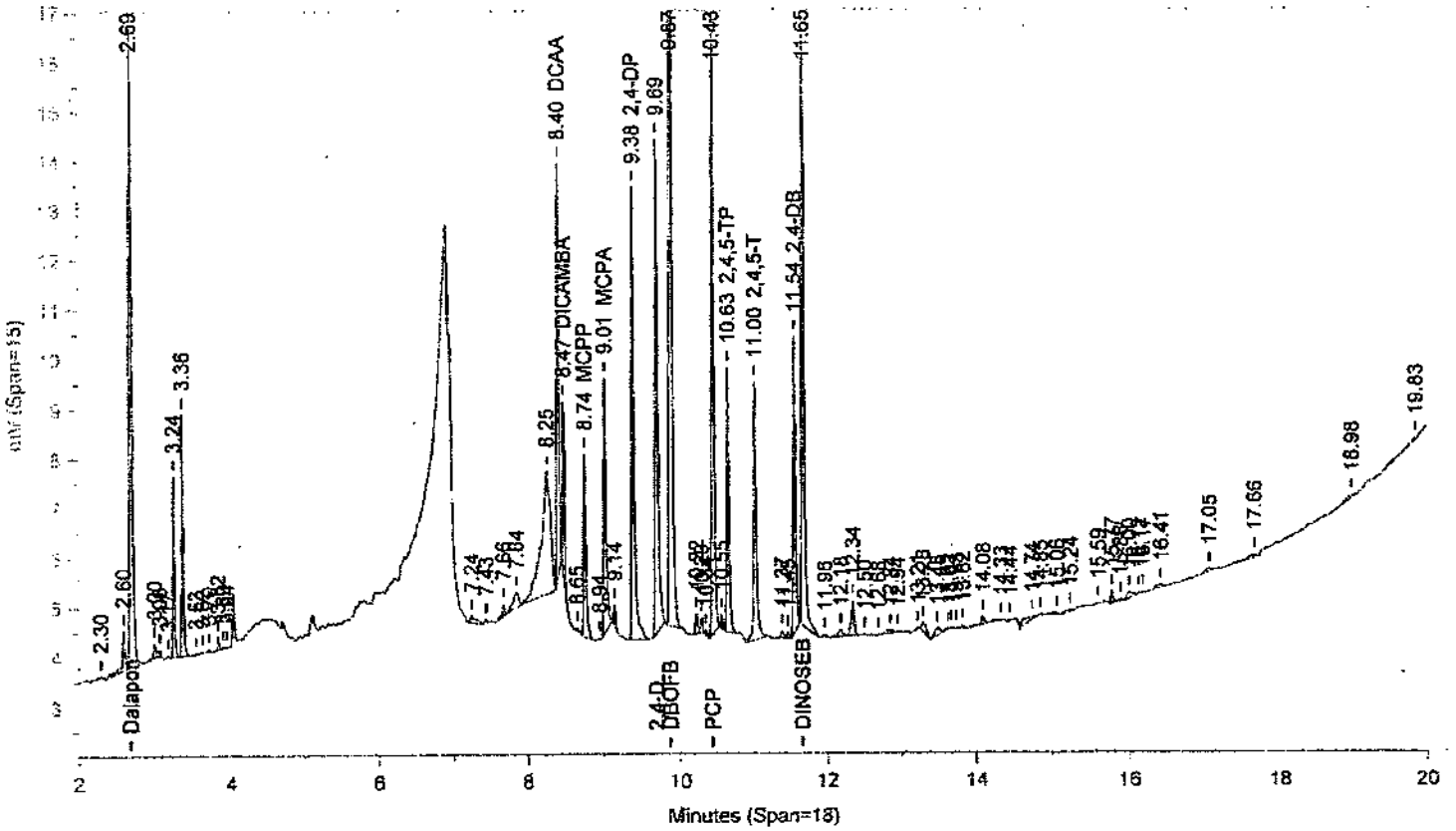
Area File: C:\CPWIN\DATA1\1H15193B.08A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 10:49:38 AM
File Reported On: 7/13/2011 at 10:49:45 AM

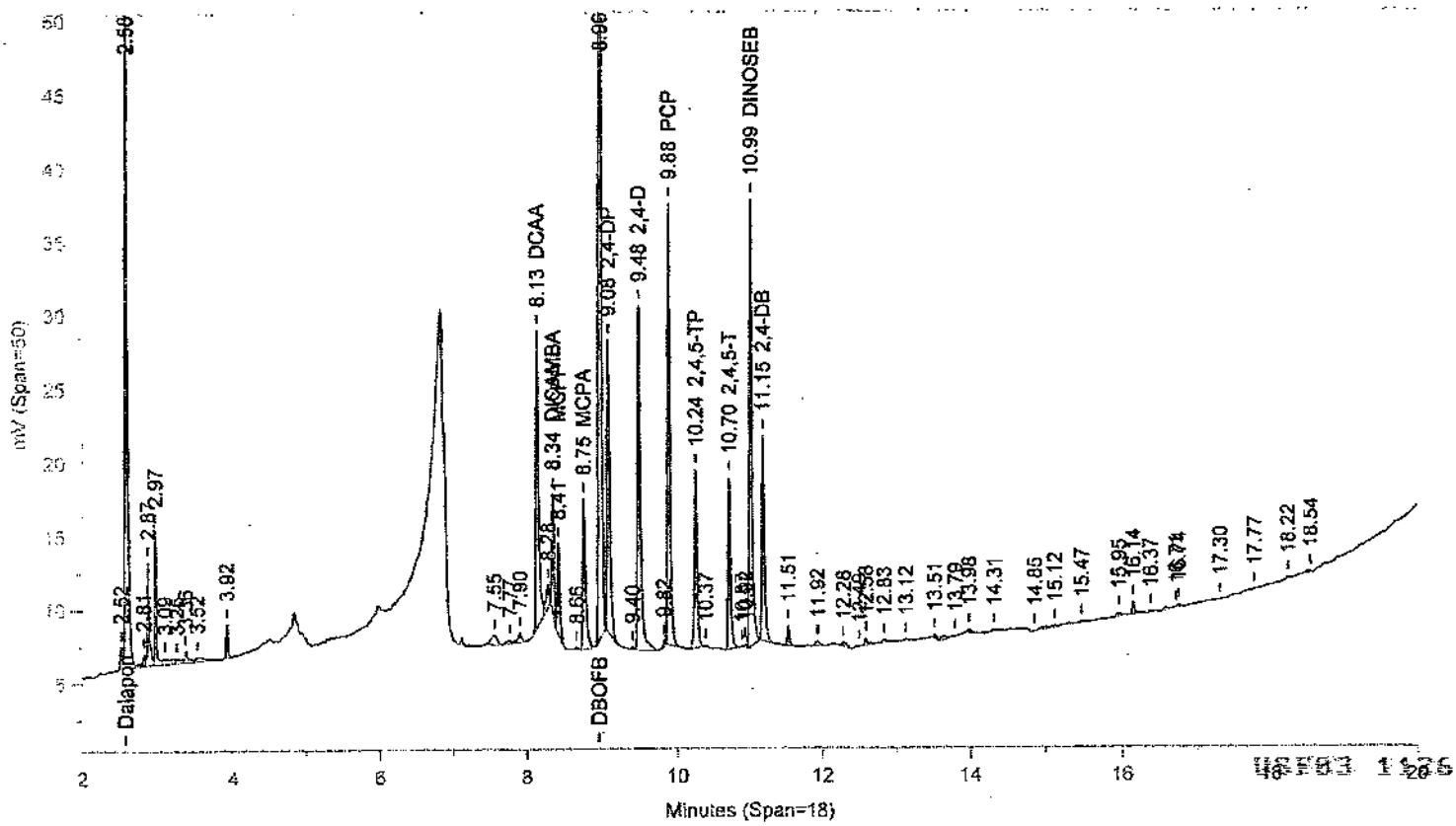
USPB3 1125

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1H15193.09R



Instrument ID: CP15--H8456A Injected On: 7/12/2011 5:41:19 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.09R



Instrument ID: CP15--H8456B Injected On: 7/12/2011 5:41:19 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

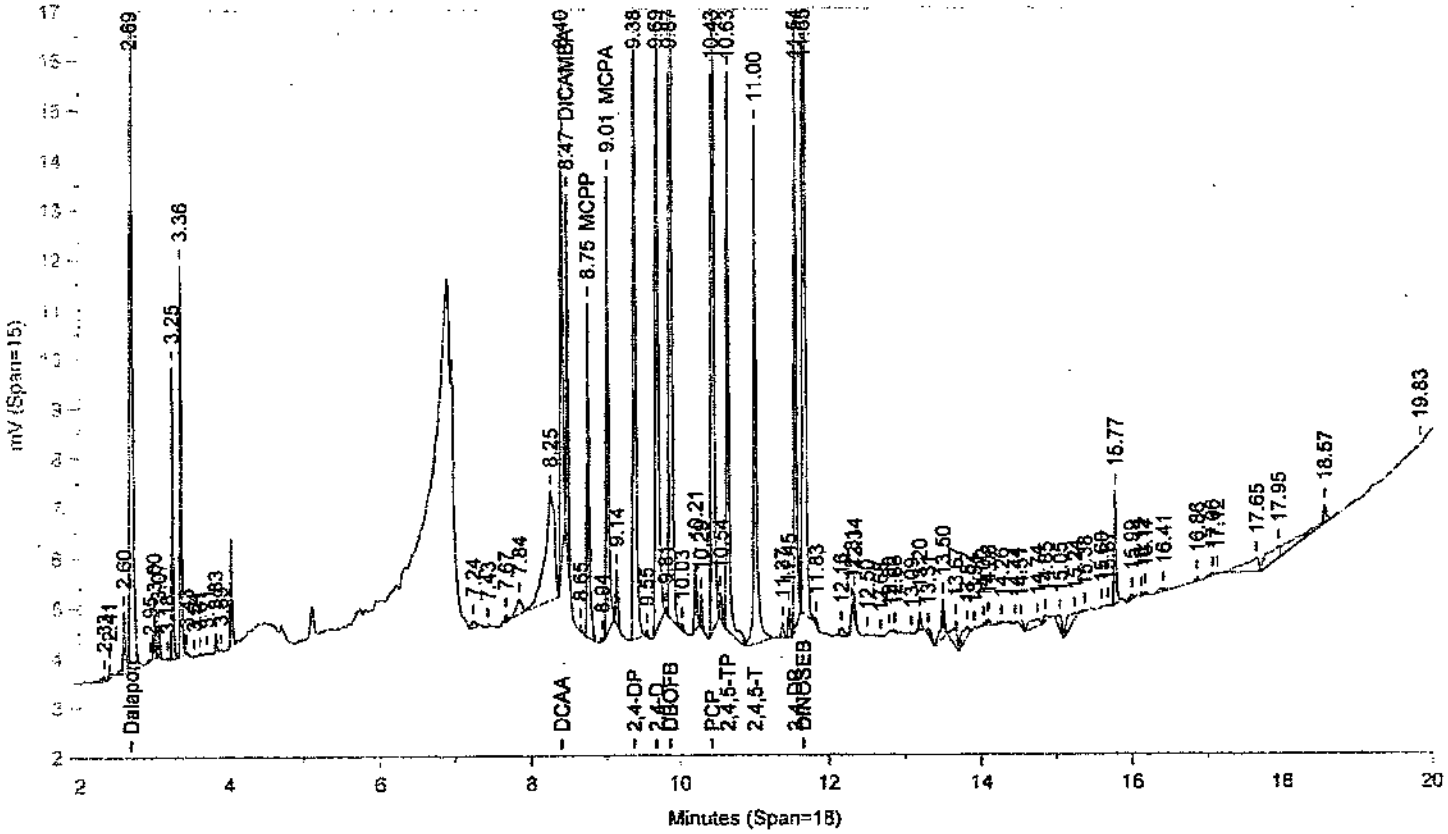
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.687	25488	422.356	Dalapon	2.579	51128	418.577	Dalapon
8.396	8353	202.401	DCAA	8.13	20263	202.499	DCAA
8.469	3544	21.259	DICAMBA	8.343	8194	21.478	DICAMBA
8.744	3689	20559.96	MCPP	8.414	6218	21714.39	MCPP
9.008	5197	20214.53	MCPA	8.751	10290	20444.1	MCPA
9.871	38579	100.	DBOFB	8.961	81879	100.	DBOFB
9.377	9128	199.844	2,4-DP	9.077	19851	228.452	2,4-DP
9.688	10017	205.815	2,4-D	9.481	23463	206.243	2,4-D
10.431	14448	20.516	PCP	9.877	30016	20.483	PCP
10.635	5383	20.293	2,4,5-TP	10.242	12250	20.37	2,4,5-TP
10.999	5221	20.341	2,4,5-T	10.696	11708	23.426	2,4,5-T
11.655	14893	90.525	DINOSEB	10.986	30423	91.047	DINOSEB
11.539	5989	202.417	2,4-DB	11.154	14001	202.723	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\1H15193.09A
Area File: C:\CPWIN\DATA1\1H15193B.09A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 10:49:56 AM
File Reported On: 7/13/2011 at 10:50:03 AM

USF83 1127

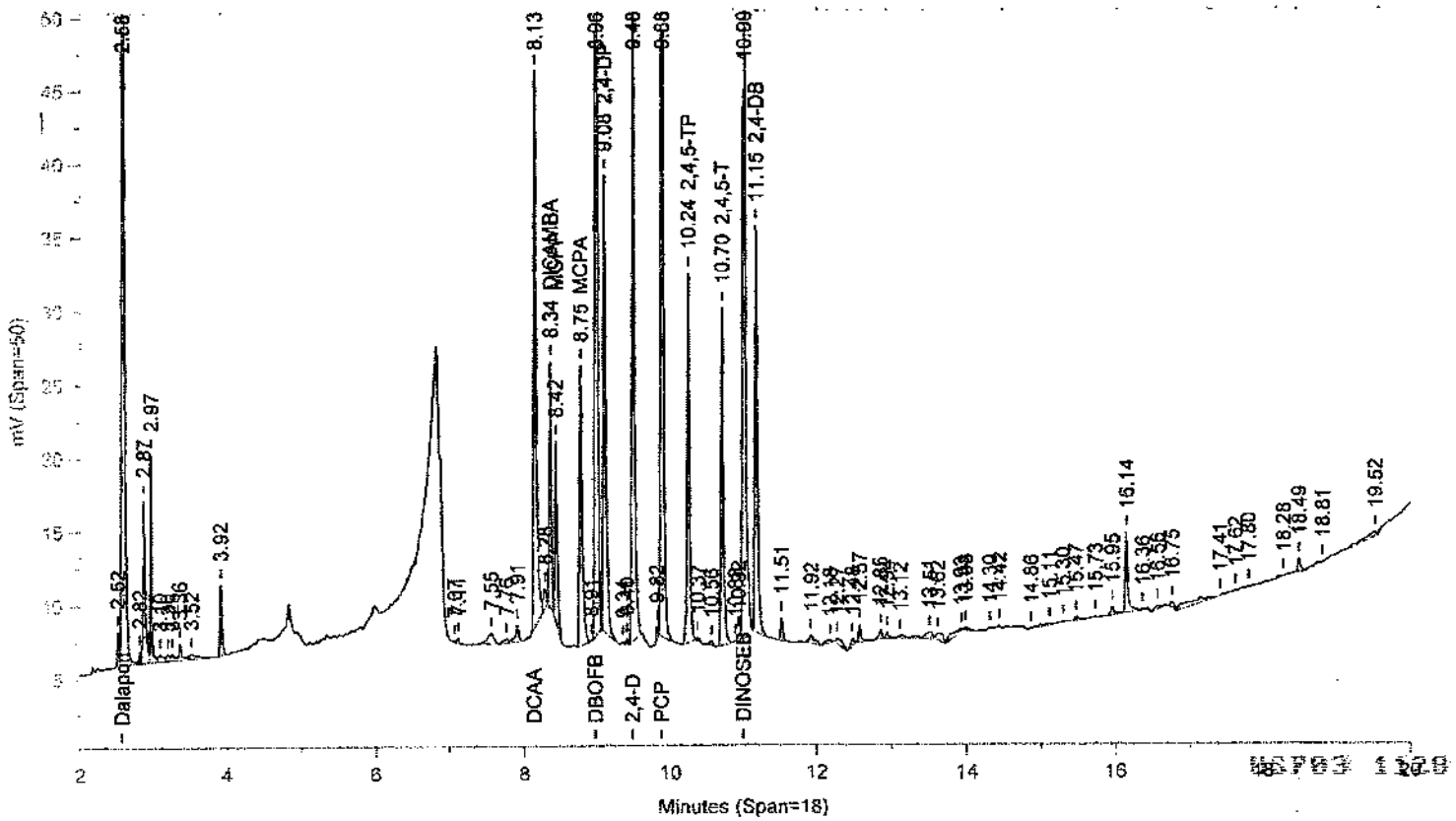
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\1H15193.10R



Instrument ID: CP15--H8456A Injected On: 7/12/2011 6:09:11 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.10R



Instrument ID: CP15--H8456B Injected On: 7/12/2011 6:09:11 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

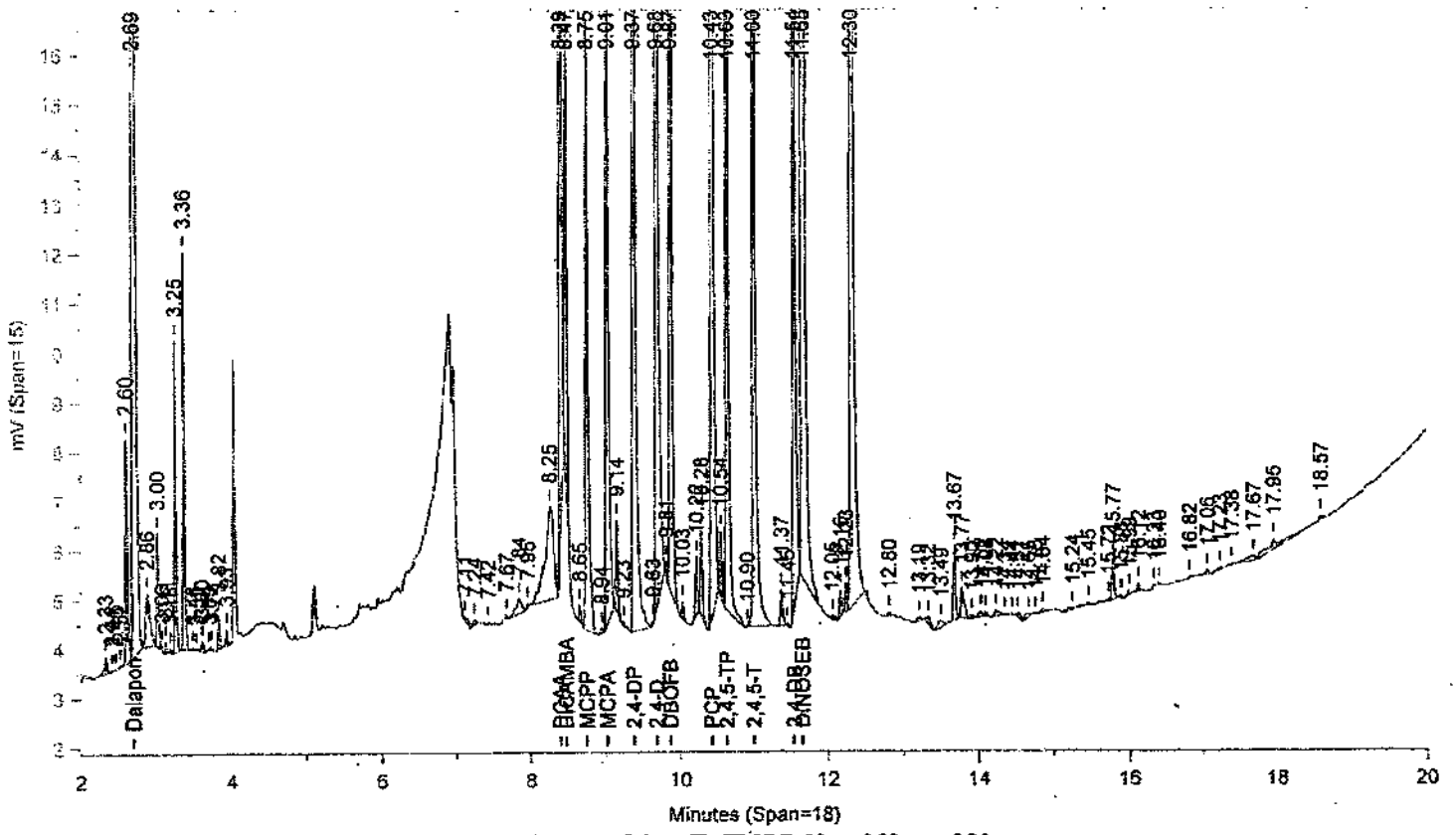
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.689	44721	716.802	Dalapon	2.581	91327	721.836	Dalapon
8.398	16105	377.479	DCAA	8.132	38207	368.633	DCAA
8.471	7117	41.296	DICAMBA	8.345	16747	42.378	DICAMBA
8.747	6736	36311.96	MCPP	8.418	12196	41120.03	MCPP
9.011	9228	34719.37	MCPA	8.753	19061	36563.79	MCPA
9.872	39884	100.	DBOFB	8.963	84810	100.	DBOFB
9.376	17495	370.503	2,4-DP	9.077	30953	343.918	2,4-DP
9.686	18898	375.599	2,4-D	9.48	43189	366.528	2,4-D
10.431	29574	40.623	PCP	9.877	60113	39.604	PCP
10.634	11244	40.999	2,4,5-TP	10.241	25160	40.392	2,4,5-TP
10.998	10493	39.545	2,4,5-T	10.696	23051	42.64	2,4,5-T
11.655	31782	186.859	DINOSEB	10.986	65750	189.969	DINOSEB
11.539	12052	394.022	2,4-DB	11.154	27643	386.403	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\1H15193.10A
Area File: C:\CPWIN\DATA1\1H15193B.10A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 10:50:14 AM
File Reported On: 7/13/2011 at 10:50:21 AM

USPB3 1129

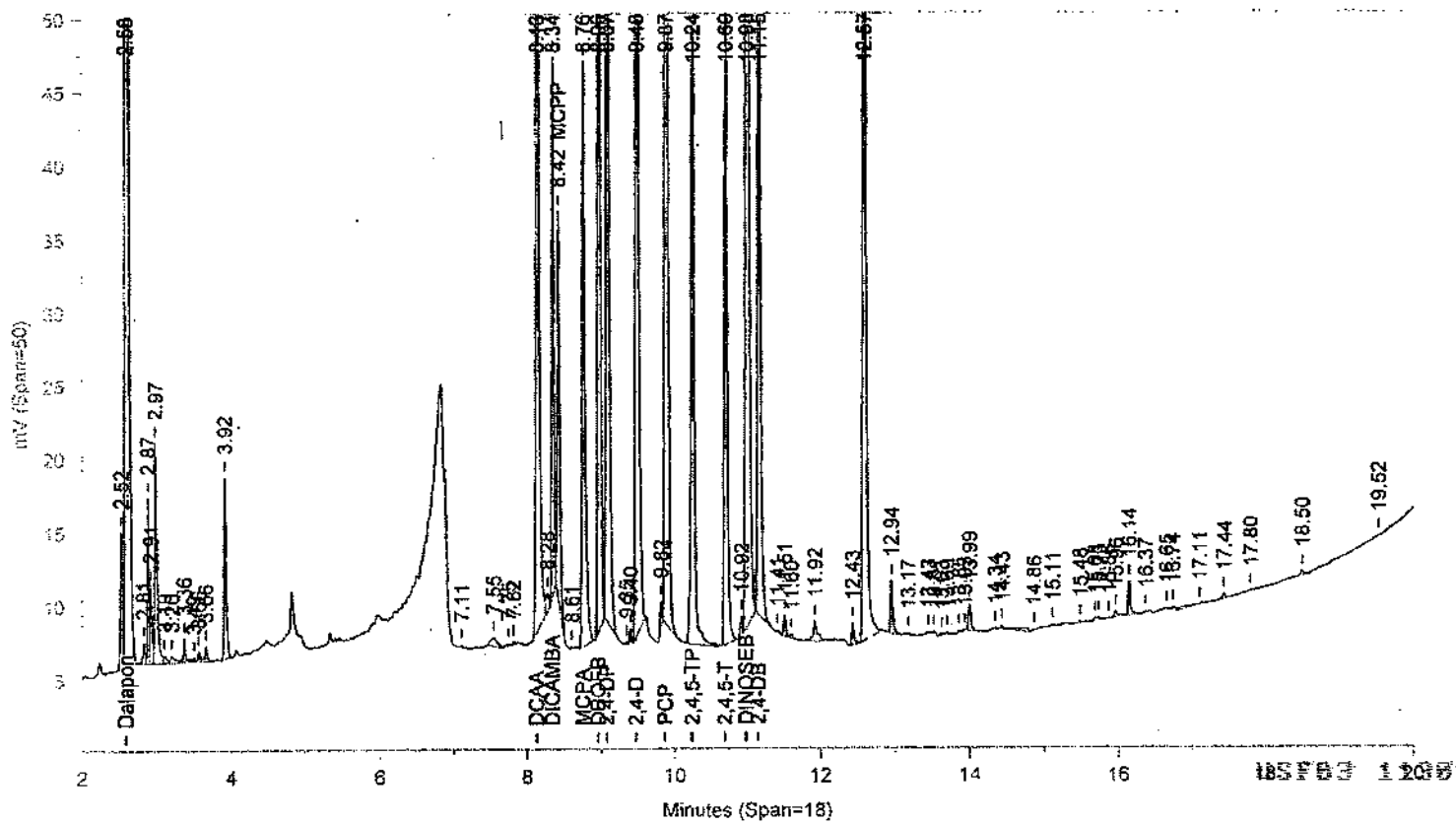
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\1H15193.11R



Instrument ID: CP15--H8456A Injected On: 7/12/2011 6:36:59 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.11R



Instrument ID: CP15--H8456B Injected On: 7/12/2011 6:36:59 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

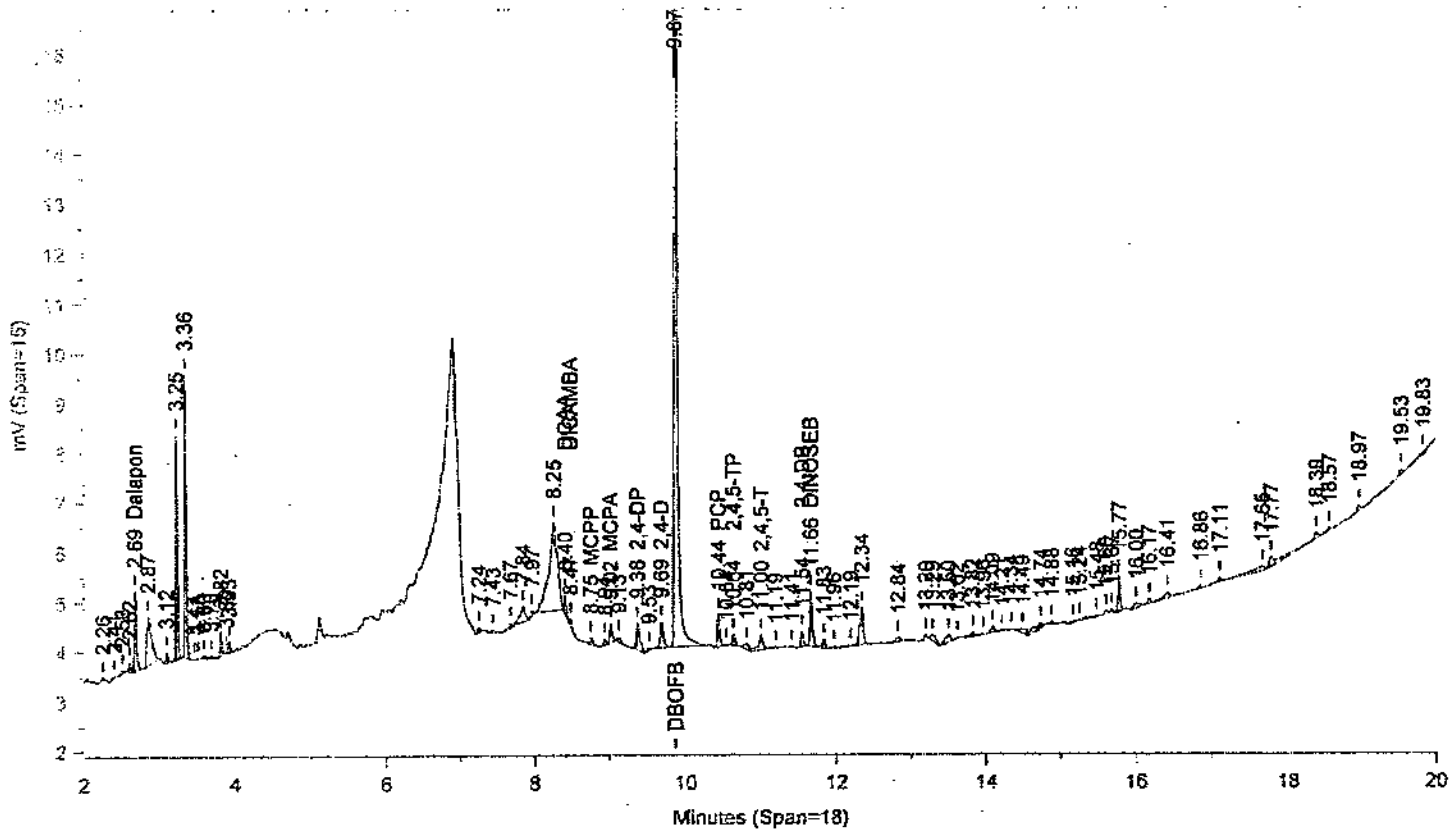
Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.687	110845	1903.26	Dalapon	2.58	225574	1898.273	Dalapon
8.395	34605	868.871	DCAA	8.129	81664	838.903	DCAA
8.468	15877	98.692	DICAMBA	8.342	36956	99.572	DICAMBA
8.75	13682	79006.46	MCPP	8.42	26246	94219.7	MCPP
9.015	18649	75164.63	MCPA	8.757	39843	81372.06	MCPA
9.87	37231	100.	DBOFB	8.96	79656	100.	DBOFB
9.373	36640	831.22	2,4-DP	9.073	75912	898.021	2,4-DP
9.683	41026	873.492	2,4-D	9.477	94197	851.131	2,4-D
10.427	64033	94.223	PCP	9.874	131654	92.35	PCP
10.632	24969	97.532	2,4,5-TP	10.239	55267	94.469	2,4,5-TP
10.995	23699	95.681	2,4,5-T	10.693	52112	98.889	2,4,5-T
11.653	71362	449.467	DINOSEB	10.983	149300	459.276	DINOSEB
11.536	25413	890.053	2,4-DB	11.151	58560	871.551	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\IH15193.11A
Area File: C:\CPWIN\DATA1\IH15193B.11A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\IH15193.CAL
Calibration File B: C:\CPWIN\DATA1\IH15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 10:50:32 AM
File Reported On: 7/13/2011 at 10:50:40 AM

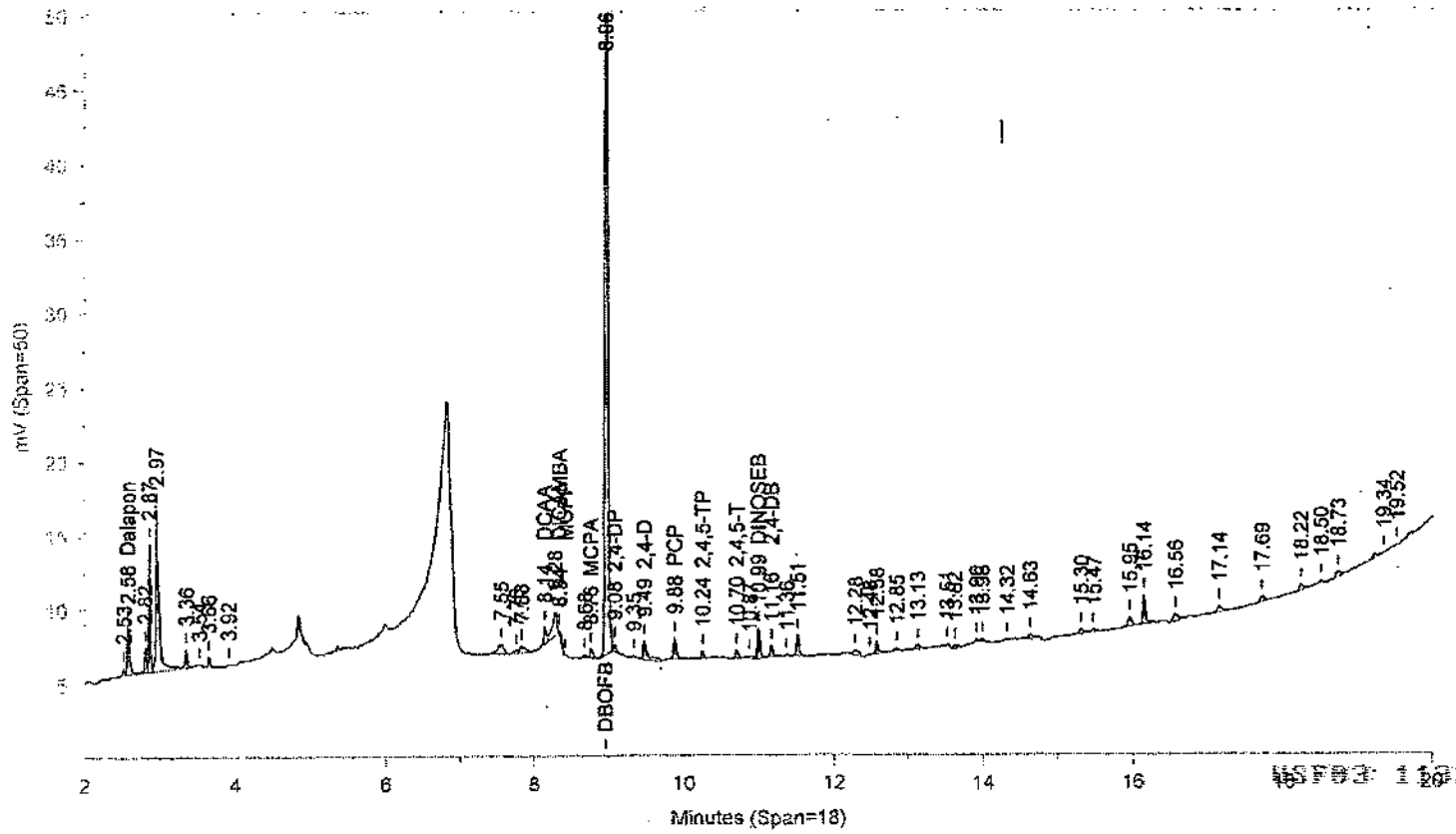
USPB3 1131

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1H15193.12R



Instrument ID: CP15--H8456A Injected On: 7/12/2011 7:04:42 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.12R



Instrument ID: CP15--H8456B Injected On: 7/12/2011 7:04:42 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

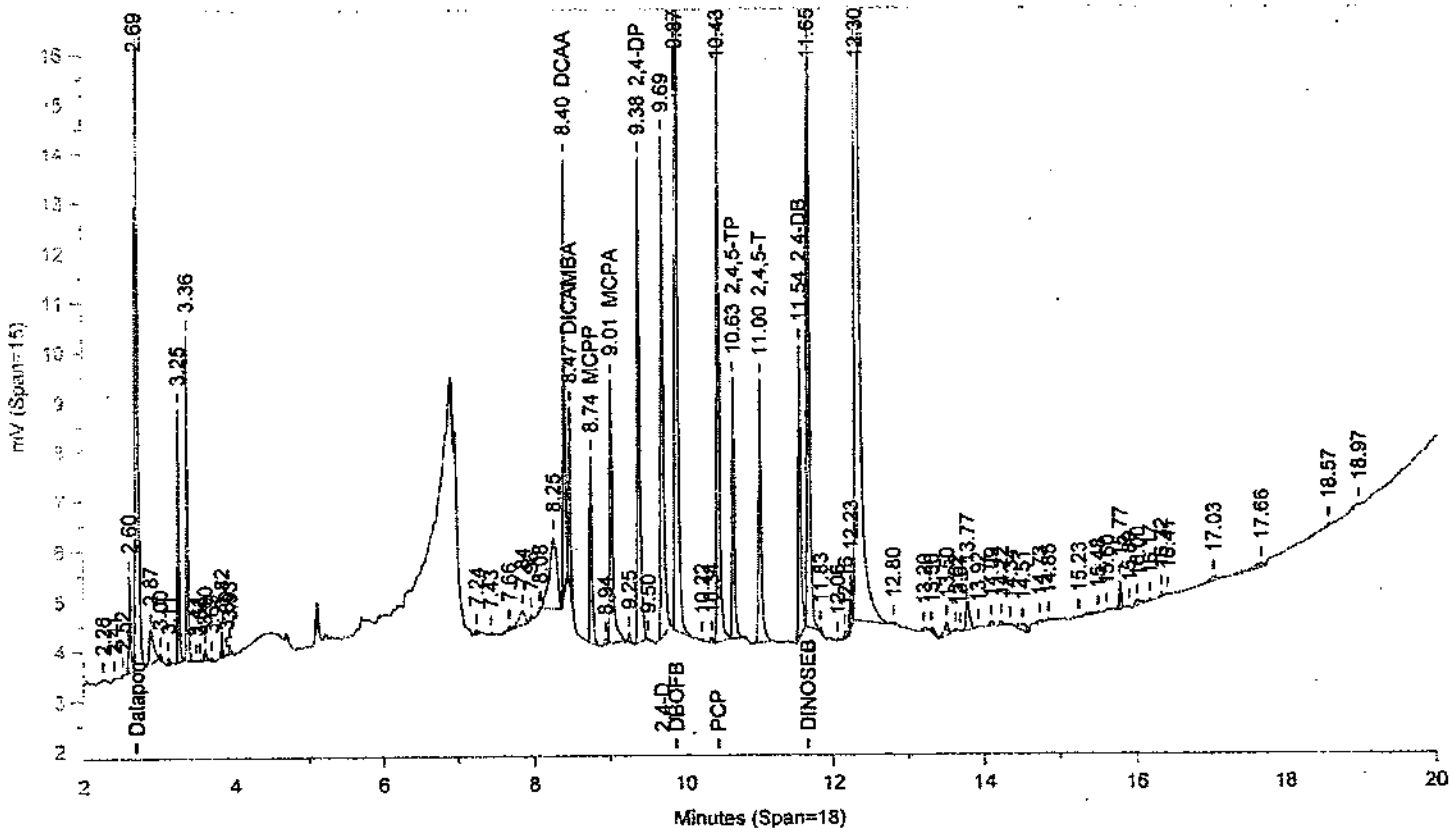
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.691	1607	28.984	Dalapon	2.585	3224	28.401	Dalapon
8.404	386	10.176	DCAA	8.142	1187	12.765	DCAA
8.472	139	.905	DICAMBA	8.34	404	1.138	DICAMBA
8.75	144	873.823	MCPP	.	0	.	MCPP
9.018	393	1665.8	MCPA	8.762	664	1420.006	MCPA
9.873	35436	100.	DBOFB	8.963	76104	100.	DBOFB
9.383	552	13.162	2,4-DP	9.084	486	6.023	2,4-DP
9.694	526	11.773	2,4-D	9.487	1287	12.171	2,4-D
10.435	658	1.017	PCP	9.881	1418	1.041	PCP
10.636	231	.949	2,4,5-TP	10.243	522	.933	2,4,5-TP
11.002	301	1.277	2,4,5-T	10.698	571	1.077	2,4,5-T
11.658	1104	7.306	DINOSEB	10.99	2105	6.777	DINOSEB
11.545	321	11.802	2,4-DB	11.159	750	11.683	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\1H15193.12A
Area File: C:\CPWIN\DATA1\1H15193B.12A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 10:56:12 AM
File Reported On: 7/13/2011 at 10:56:19 AM

USFB3 1133

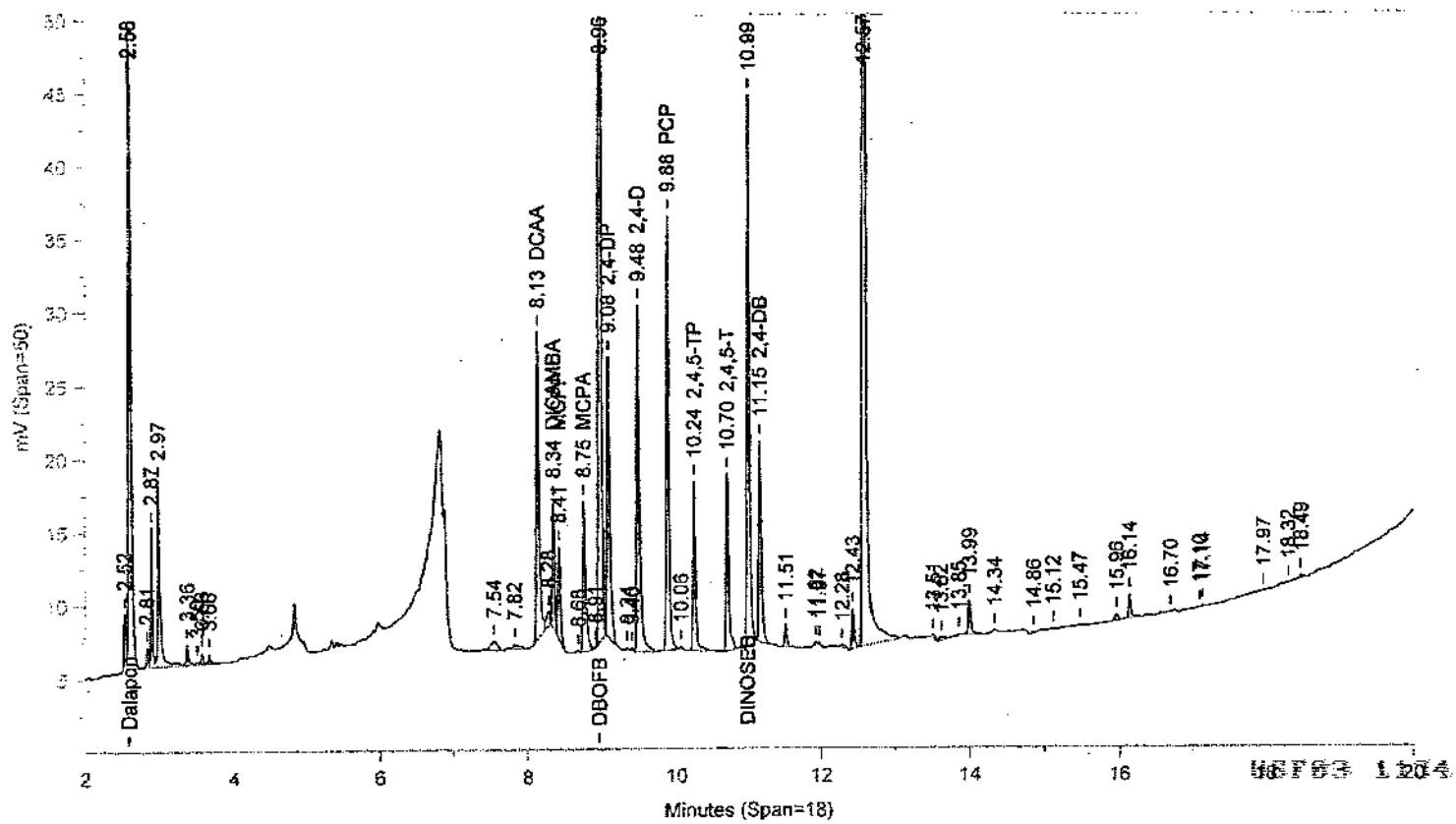
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\1H15193.13R



Instrument ID: CP15--H8456A Injected On: 7/12/2011 7:32:27 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.13R



Instrument ID: CP15--H8456B Injected On: 7/12/2011 7:32:27 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

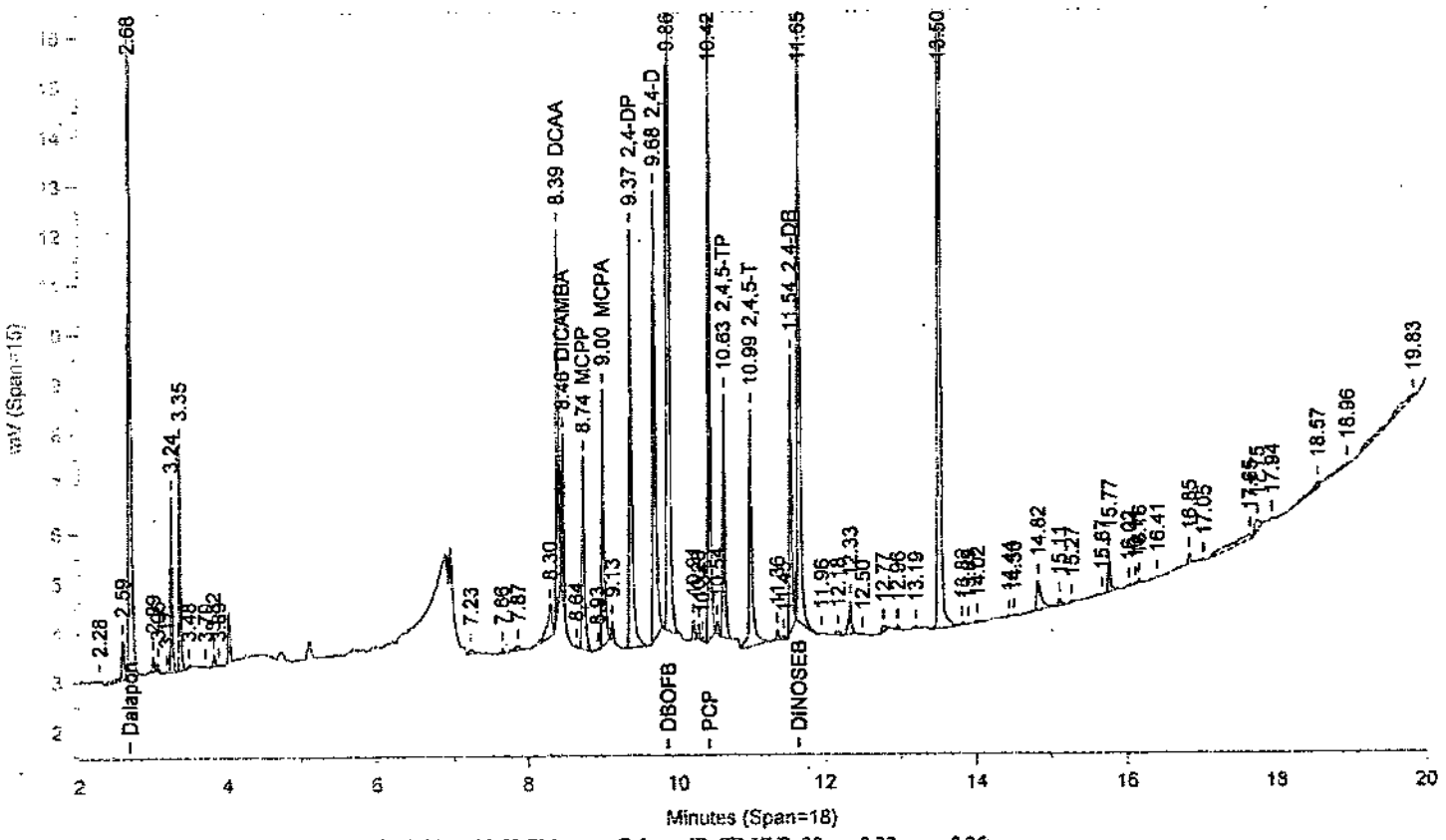
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.688	32427	518.212	Dalapon	2.58	64336	507.003	Dalapon
8.397	8721	203.802	DCAA	8.13	21012	202.134	DCAA
8.469	3627	20.985	DICAMBA	8.343	8610	21.725	DICAMBA
8.744	3752	20162.84	MCPP	8.415	6278	21105.81	MCPP
9.008	5331	19997.94	MCPA	8.751	10307	19712.62	MCPA
9.871	40003	100.	DBOFB	8.961	85061	100.	DBOFB
9.377	9754	205.951	2,4-DP	9.077	19120	211.813	2,4-DP
9.688	10115	200.433	2,4-D	9.481	23669	200.278	2,4-D
10.431	14499	19.856	PCP	9.877	29617	19.455	PCP
10.635	5277	19.185	2,4,5-TP	10.241	11602	18.571	2,4,5-TP
10.999	5297	19.903	2,4,5-T	10.696	12067	20.378	2,4,5-T
11.654	18363	107.646	DINOSEB	10.985	37961	109.356	DINOSEB
11.54	5871	191.382	2,4-DB	11.154	13745	191.573	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\IH15193.13A
Area File: C:\CPWIN\DATA1\IH15193B.13A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\IH15193.CAL
Calibration File B: C:\CPWIN\DATA1\IH15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 10:56:28 AM
File Reported On: 7/13/2011 at 10:56:35 AM

USFW3 1135

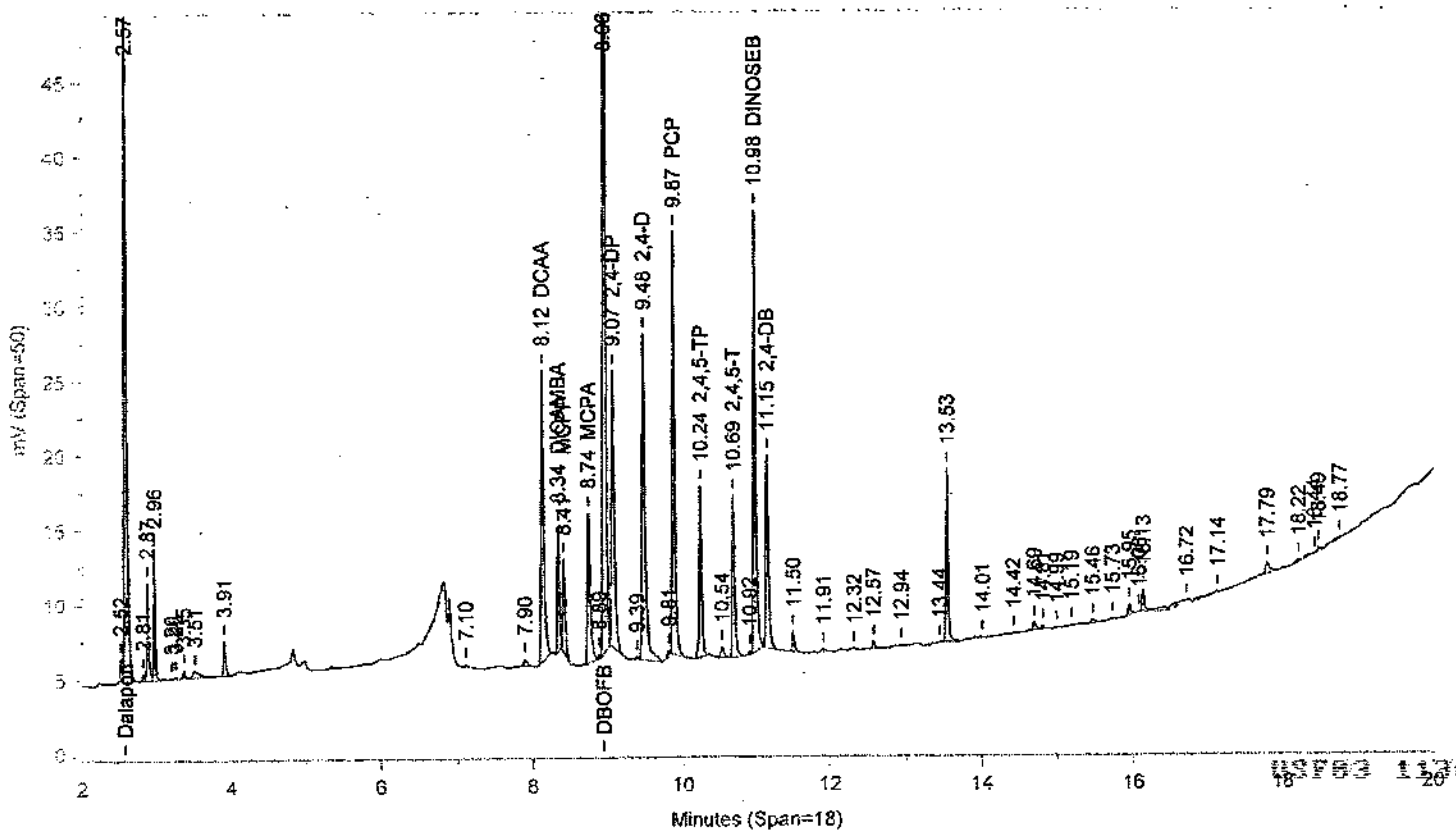
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\1H15193.32R



Instrument ID: CP15--H8456A Injected On: 7/13/2011 5:29:53 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.32R



Instrument ID: CP15--H8456B Injected On: 7/13/2011 5:29:53 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; hold Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

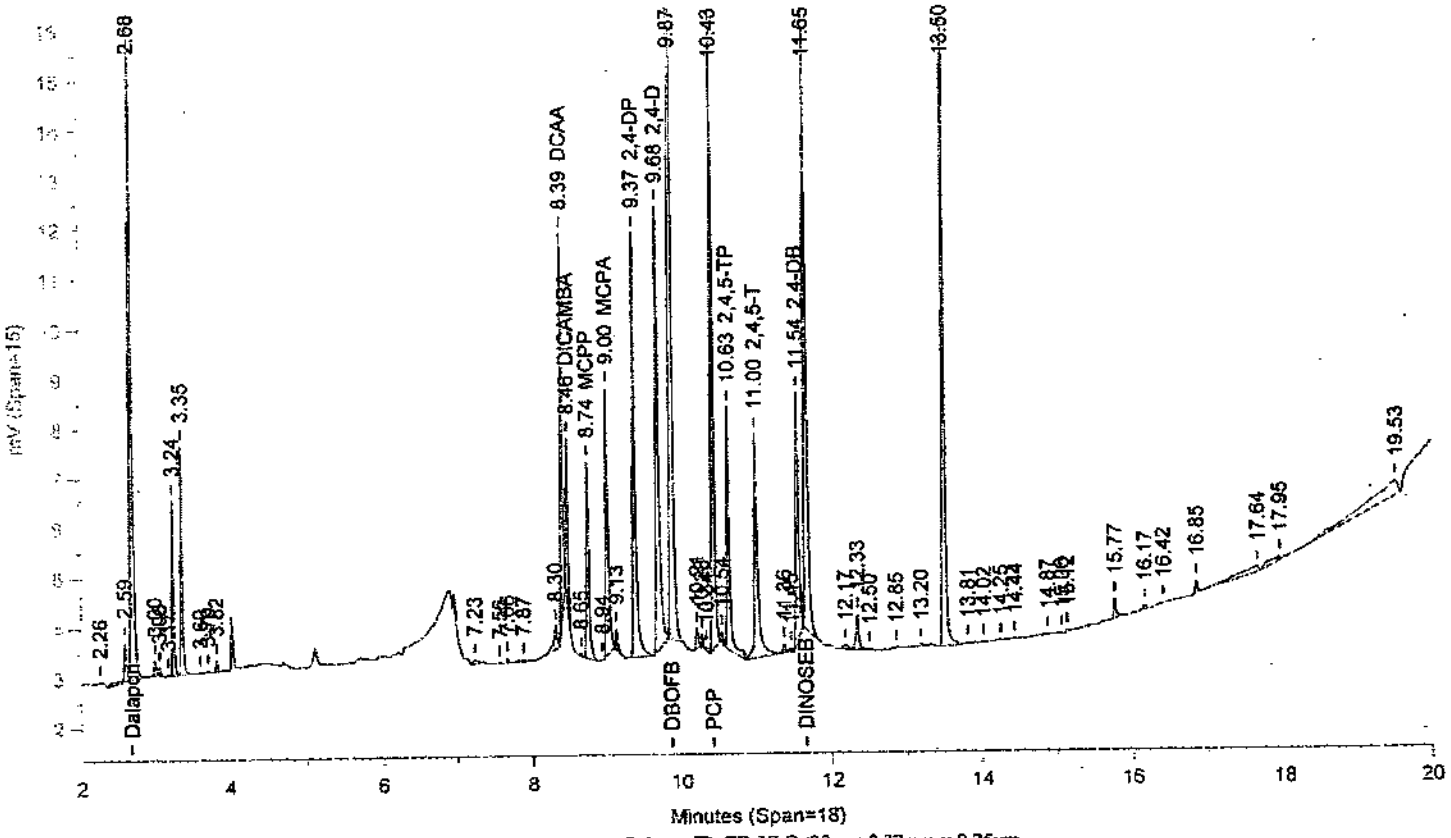
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.681	24700	436.967	Dalapon	2.574	50263	437.556	Dalapon
8.39	7721	199.745	DCAA	8.124	19629	208.59	DCAA
8.462	3305	21.168	DICAMBA	8.337	8353	23.282	DICAMBA
8.736	3875	23052.78	MCPP	8.408	6213	23071.19	MCPP
9.002	5206	21617.59	MCPA	8.744	10125	21390.94	MCPA
9.865	36136	100.	DBOFB	8.955	77002	100.	DBOFB
9.371	8466	197.882	2,4-DP	9.071	18598	227.598	2,4-DP
9.683	9097	199.568	2,4-D	9.476	21942	205.094	2,4-D
10.424	13586	20.597	PCP	9.87	28347	20.57	PCP
10.629	4900	19.722	2,4,5-TP	10.235	11594	20.501	2,4,5-TP
10.995	4792	19.932	2,4,5-T	10.692	10937	20.403	2,4,5-T
11.65	14118	91.619	DINOSEB	10.981	29651	94.355	DINOSEB
11.535	5619	202.751	2,4-DB	11.15	12961	199.543	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\1H15193.32A
Area File: C:\CPWIN\DATA1\1H15193B.32A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 5:49:58 PM
File Reported On: 7/13/2011 at 5:50:04 PM

USFS3 1137

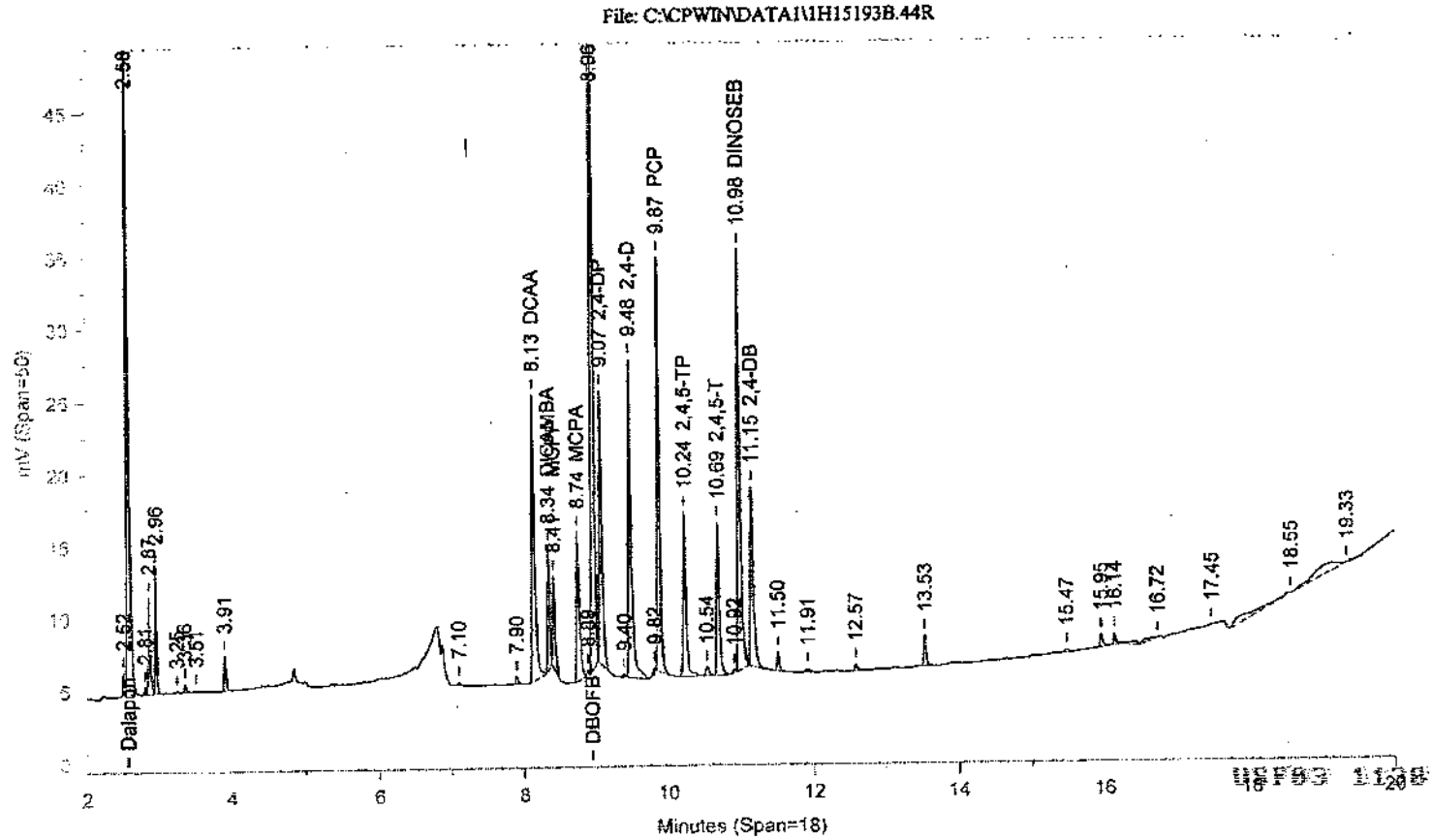
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\1H15193.44R



Instrument ID: CP15--H8456A Injected On: 7/13/2011 11:01:16 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.44R



Instrument ID: CP15--H8456B Injected On: 7/13/2011 11:01:16 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.683	24431	430.1	Dalapon	2.577	49998	426.454	Dalapon
8.392	7792	200.589	DCAA	8.126	19919	207.393	DCAA
8.464	3281	20.91	DICAMBA	8.338	8610	23.514	DICAMBA
8.738	3968	23491.4	MCPP	8.409	6407	23312.58	MCPP
9.003	5383	22246.11	MCPA	8.745	10447	21625.83	MCPA
9.866	36312	100.	DBOFB	8.956	78589	100.	DBOFB
9.373	8529	198.389	2,4-DP	9.072	19033	228.214	2,4-DP
9.685	9000	196.479	2,4-D	9.477	22065	202.079	2,4-D
10.426	13860	20.91	PCP	9.871	28798	20.475	PCP
10.631	4868	19.494	2,4,5-TP	10.237	11480	19.889	2,4,5-TP
10.997	4512	18.676	2,4,5-T	10.693	10669	19.501	2,4,5-T
11.651	13714	88.564	DINOSEB	10.981	29379	91.6	DINOSEB
11.538	5042	181.07	2,4-DB	11.151	12521	188.883	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\1H15193.44A
Area File: C:\CPWIN\DATA1\1H15193B.44A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 11:21:22 PM
File Reported On: 7/13/2011 at 11:21:28 PM

USF83 1139

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Init. Calib Date(s): 07/14/11 07/15/11

GC Column (1) : ZB-XLB ID: .32 (mm) Date Analyzed: 07/14/11

Lab File ID: 2H15193.27R Time Analyzed: 21:00

Lab Standard ID: HERB3AG Initial Calibration: 1H15193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.68	2.66	2.72	426.80	410.40	4.0
Dichlorophenylacetic acid	8.39	8.36	8.42	198.96	200.52	-0.8
Dicamba	8.46	8.44	8.50	20.88	20.02	4.3
Mcpp	8.74	8.72	8.78	23353.05	19984.00	16.9
Mcpa	9.00	8.98	9.04	22524.46	19956.00	12.9
2,4-DP	9.37	9.34	9.40	196.20	196.60	-0.2
2,4-D	9.68	9.65	9.71	190.77	200.60	-4.9
PCP	10.42	10.40	10.46	20.60	19.94	3.3
2,4,5-TP	10.63	10.60	10.66	18.58	19.80	-6.2
2,4,5-T	11.00	10.97	11.03	17.09	20.08	-14.9
2,4-DB	11.54	11.51	11.57	165.27	200.60	-17.6
Dinoseb	11.65	11.62	11.68	84.35	100.70	-16.2
					Average of %D:	8.5

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Init. Calib Date(s): 07/14/11 07/15/11

GC Column (2) : ZB-35 ID: .32 (mm) Date Analyzed: 07/14/11

Lab File ID: 2H15193B.27R Time Analyzed: 21:00

Lab Standard ID: HERB3AG Initial Calibration: 1H15193B

COMPOUND	RT	RT WINDOW. FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.57	2.55	2.61	421.24	410.40	2.6
Dichlorophenylacetic acid	8.12	8.10	8.16	208.09	200.52	3.8
Dicamba	8.33	8.31	8.37	23.58	20.02	17.8
Mcpp	8.41	8.38	8.44	23574.19	19984.00	18.0
Mcpa	8.74	8.72	8.78	21859.60	19956.00	9.5
2,4-DP	9.07	9.05	9.11	222.99	196.60	13.4
2,4-D	9.48	9.45	9.51	196.29	200.60	-2.1
PCP	9.87	9.85	9.91	20.51	19.94	2.9
2,4,5-TP	10.23	10.21	10.27	19.37	19.80	-2.2
2,4,5-T	10.69	10.67	10.73	18.63	20.08	-7.2
Dinoseb	10.98	10.96	11.02	88.72	100.70	-11.9
2,4-DB	11.15	11.12	11.18	175.22	200.60	-12.6
					Average of %D:	8.7

USF03 1141

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Init. Calib Date(s): 07/14/11 07/15/11

GC Column (1) : ZB-XLB ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 2H15193.39R Time Analyzed: 2:30

Lab Standard ID: HERB3AG Initial Calibration: 1H15193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.68	2.66	2.72	449.37	410.40	9.5
Dichlorophenylacetic acid	8.39	8.36	8.42	195.63	200.52	-2.4
Dicamba	8.46	8.44	8.50	20.51	20.02	2.4
Mcpp	8.73	8.72	8.78	23089.11	19984.00	15.5
Mcpa	9.00	8.98	9.04	22472.68	19956.00	12.6
2,4-DP	9.37	9.34	9.40	196.92	196.60	0.2
2,4-D	9.68	9.65	9.71	193.00	200.60	-3.8
PCP	10.42	10.40	10.46	20.56	19.94	3.1
2,4,5-TP	10.62	10.60	10.66	19.18	19.80	-3.2
2,4,5-T	10.99	10.97	11.03	17.94	20.08	-10.7
2,4-DB	11.53	11.51	11.57	176.41	200.60	-12.1
Dinoseb	11.65	11.62	11.68	86.64	100.70	-14.0
					Average of %D:	7.5

USF03 1142

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Init. Calib Date(s): 07/14/11 07/15/11

GC Column (2) : ZB-35 ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 2H15193B.39R Time Analyzed: 2:30

Lab Standard ID: HERB3AG Initial Calibration: 1H15193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.57	2.55	2.61	442.78	410.40	7.9
Dichlorophenylacetic acid	8.12	8.10	8.16	206.55	200.52	3.0
Dicamba	8.33	8.31	8.37	23.21	20.02	15.9
Mcpp	8.40	8.38	8.44	23412.51	19984.00	17.2
Mcpa	8.74	8.72	8.78	21938.34	19956.00	9.9
2,4-DP	9.07	9.05	9.11	224.34	196.60	14.1
2,4-D	9.47	9.45	9.51	199.82	200.60	-0.4
PCP	9.86	9.85	9.91	20.28	19.94	1.7
2,4,5-TP	10.23	10.21	10.27	19.77	19.80	-0.2
2,4,5-T	10.69	10.67	10.73	19.21	20.08	-4.3
Dinoseb	10.97	10.96	11.02	89.62	100.70	-11.0
2,4-DB	11.15	11.12	11.18	185.31	200.60	-7.6
					Average of %D:	7.8

USF03 1143

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Init. Calib Date(s): 07/14/11 07/15/11

GC Column (1) : ZB-XLB ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 2H15193.51R Time Analyzed: 7:59

Lab Standard ID: HERB3AG Initial Calibration: 1H15193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.68	2.66	2.72	445.18	410.40	8.5
Dichlorophenylacetic acid	8.39	8.36	8.42	209.59	200.52	4.5
Dicamba	8.46	8.44	8.50	21.80	20.02	8.9
Mcpp	8.73	8.72	8.78	22230.28	19984.00	11.2
Mcpa	9.00	8.98	9.04	21396.48	19956.00	7.2
2,4-DP	9.37	9.34	9.40	205.38	196.60	4.5
2,4-D	9.68	9.65	9.71	207.07	200.60	3.2
PCP	10.42	10.40	10.46	20.49	19.94	2.7
2,4,5-TP	10.62	10.60	10.66	19.69	19.80	-0.6
2,4,5-T	10.99	10.97	11.03	19.04	20.08	-5.2
2,4-DB	11.53	11.51	11.57	195.54	200.60	-2.5
Dinoseb	11.64	11.62	11.68	85.62	100.70	-15.0
					Average of %D:	6.2

USFW3 1144

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Init. Calib Date(s): 07/14/11 07/15/11

GC Column (2) : ZB-35 ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 2H15193B.51R Time Analyzed: 7:59

Lab Standard ID: HERB3AG Initial Calibration: 1H15193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.57	2.55	2.61	437.09	410.40	6.5
Dichlorophenylacetic acid	8.12	8.10	8.16	204.46	200.52	2.0
Dicamba	8.33	8.31	8.37	23.00	20.02	14.9
Mcpp	8.40	8.38	8.44	23207.14	19984.00	16.1
Mcpa	8.74	8.72	8.78	21633.31	19956.00	8.4
2,4-DP	9.07	9.05	9.11	228.68	196.60	16.3
2,4-D	9.47	9.45	9.51	201.20	200.60	0.3
PCP	9.87	9.85	9.91	19.76	19.94	-0.9
2,4,5-TP	10.23	10.21	10.27	19.21	19.80	-3.0
2,4,5-T	10.68	10.67	10.73	19.01	20.08	-5.4
Dinoseb	10.97	10.96	11.02	88.78	100.70	-11.8
2,4-DB	11.14	11.12	11.18	193.67	200.60	-3.5
					Average of %D:	7.4

USFB3 1145

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456A Init. Calib Date(s): 07/15/11 07/15/11

GC Column (1) : ZB-XLB ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 2H15193.63R Time Analyzed: 13:30

Lab Standard ID: HERB3AG Initial Calibration: 1H15193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.68	2.66	2.72	450.79	410.40	9.8
Dichlorophenylacetic acid	8.39	8.36	8.42	209.41	200.52	4.4
Dicamba	8.46	8.44	8.50	21.59	20.02	7.8
Mcpp	8.74	8.72	8.78	21473.60	19984.00	7.5
Mcpa	9.00	8.98	9.04	20935.11	19956.00	4.9
2,4-DP	9.37	9.34	9.40	206.91	196.60	5.2
2,4-D	9.68	9.65	9.71	208.63	200.60	4.0
PCP	10.43	10.40	10.46	20.16	19.94	1.1
2,4,5-TP	10.63	10.60	10.66	19.66	19.80	-0.7
2,4,5-T	10.99	10.97	11.03	19.15	20.08	-4.6
2,4-DB	11.54	11.51	11.57	197.20	200.60	-1.7
Dinoseb	11.65	11.62	11.68	85.30	100.70	-15.3
					Average of %D:	5.6

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H8456B Init. Calib Date(s): 07/15/11 07/15/11

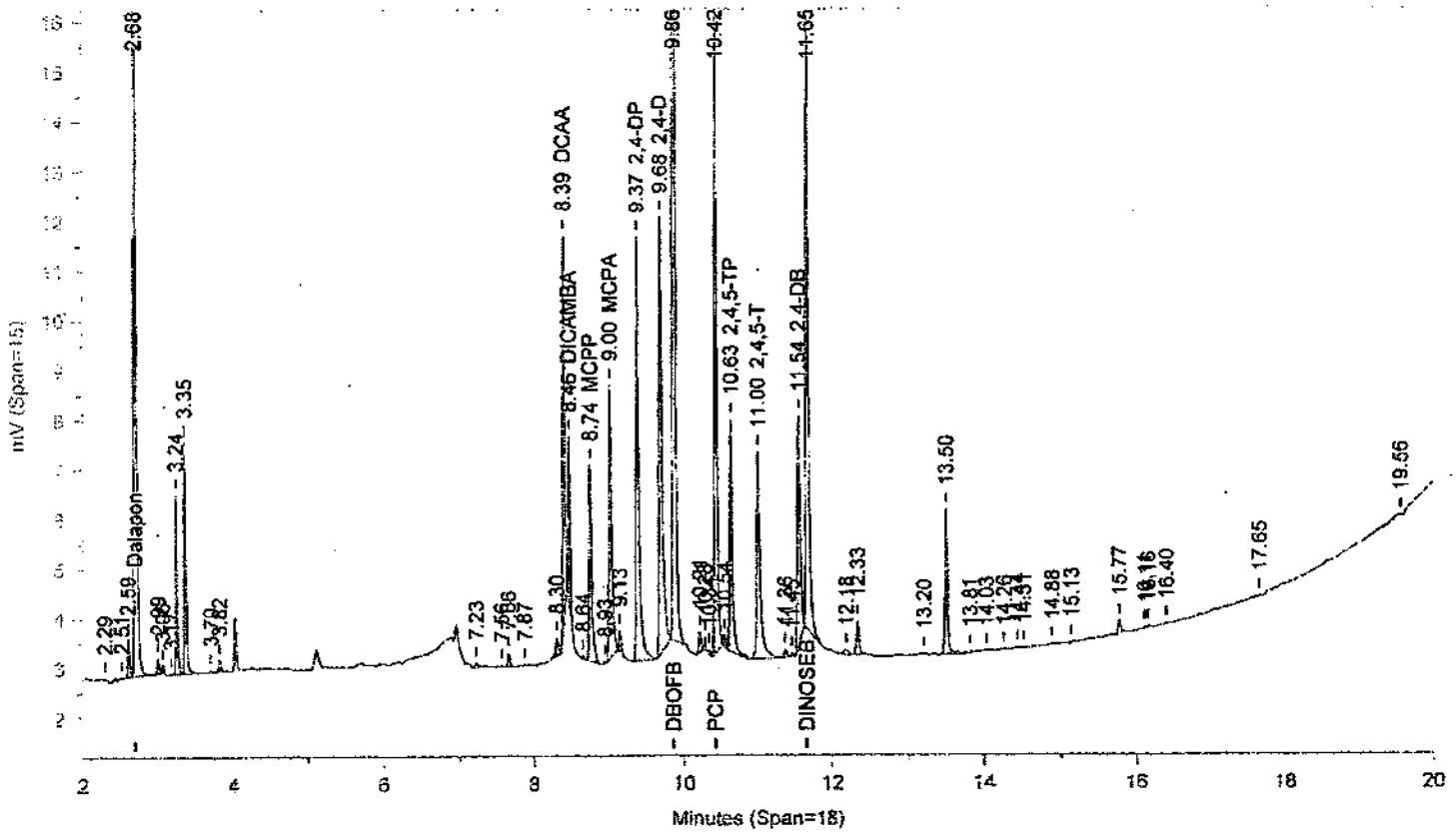
GC Column (2) : ZB-35 ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 2H15193B.63R Time Analyzed: 13:30

Lab Standard ID: HERB3AG Initial Calibration: 1H15193B

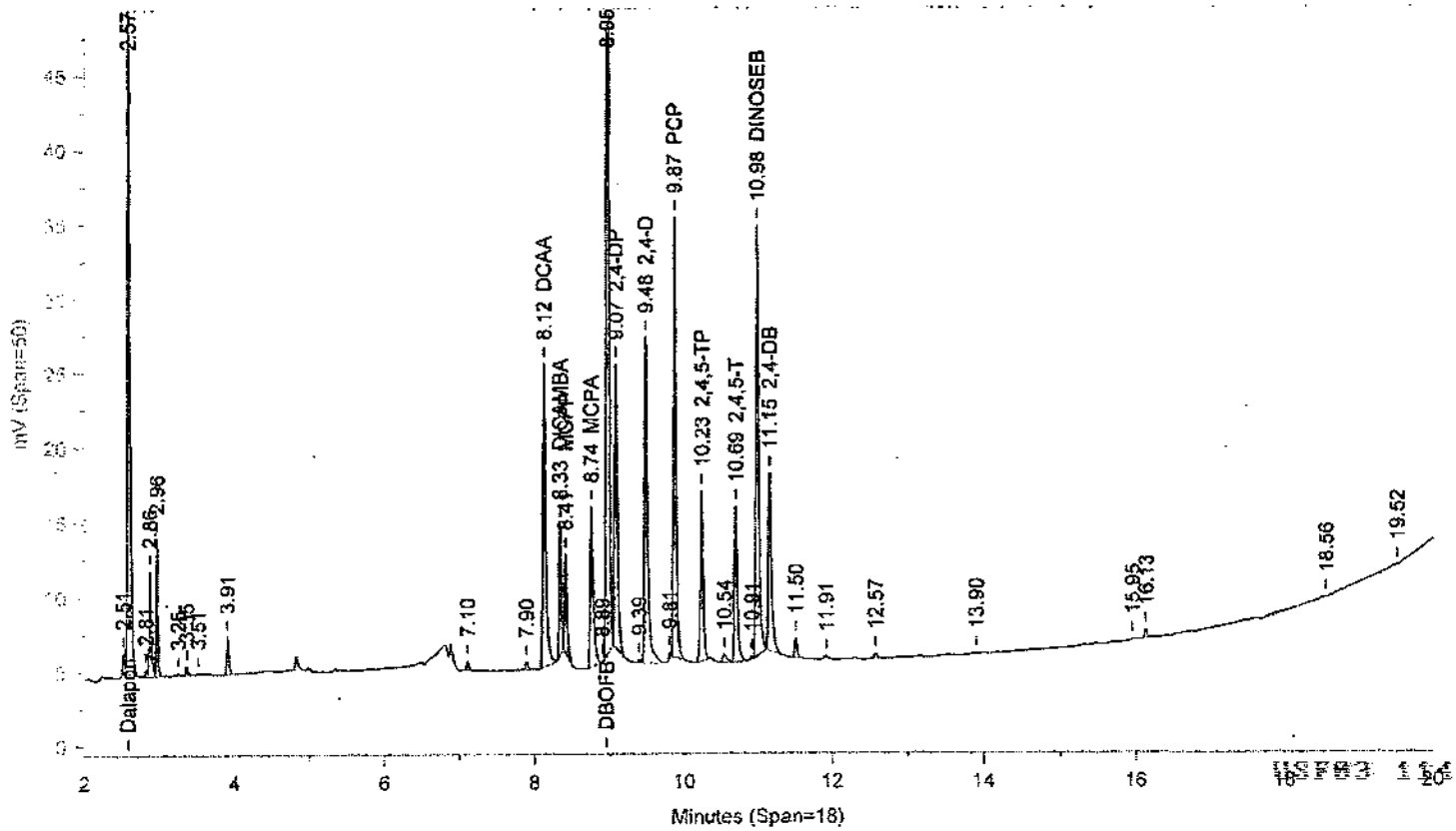
COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/l)	NOM AMOUNT (mg/l)	%D
Dalapon	2.58	2.55	2.61	435.26	410.40	6.1
Dichlorophenylacetic acid	8.12	8.10	8.16	204.92	200.52	2.2
Dicamba	8.34	8.31	8.37	22.57	20.02	12.7
Mcpp	8.41	8.38	8.44	23080.90	19984.00	15.5
Mcpa	8.75	8.72	8.78	21525.31	19956.00	7.9
2,4-DP	9.07	9.05	9.11	228.61	196.60	16.3
2,4-D	9.47	9.45	9.51	201.75	200.60	0.6
PCP	9.87	9.85	9.91	19.66	19.94	-1.4
2,4,5-TP	10.23	10.21	10.27	19.15	19.80	-3.3
2,4,5-T	10.69	10.67	10.73	18.87	20.08	-6.0
Dinoseb	10.98	10.96	11.02	87.57	100.70	-13.0
2,4-DB	11.15	11.12	11.18	191.16	200.60	-4.7
					Average of %D:	7.5

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\2H15193.27R



Instrument ID: CP15--H8456A Injected On: 7/14/2011 9:00:51 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.27R



Instrument ID: CP15--H8456B Injected On: 7/14/2011 9:00:51 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

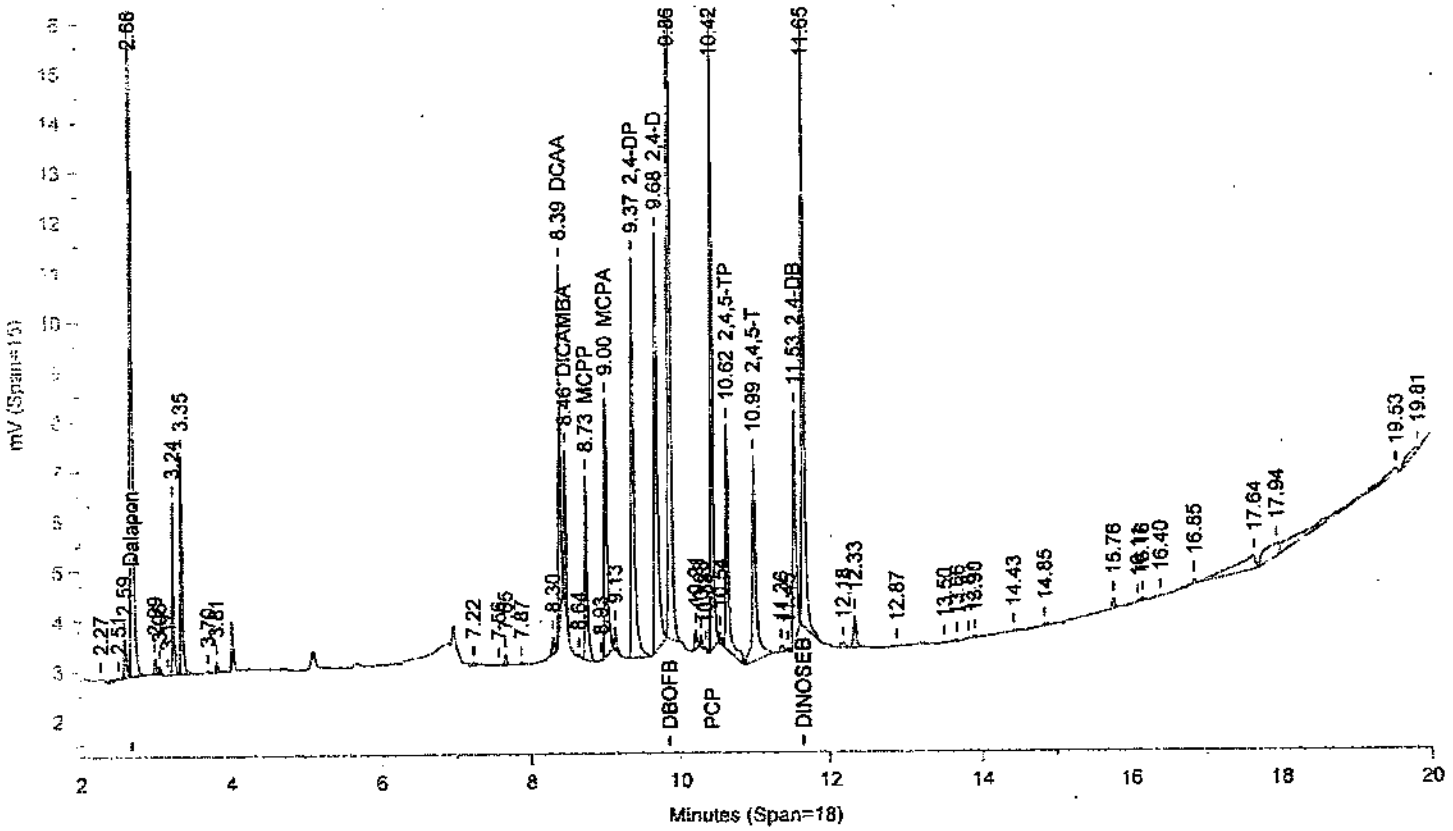
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.68	24564	426.798	Dalapon	2.573	50596	421.24	Dalapon
8.389	7831	198.964	DCAA	8.121	20475	208.085	DCAA
8.46	3319	20.875	DICAMBA	8.334	8848	23.584	DICAMBA
8.735	3997	23353.05	MCPP	8.405	6638	23574.19	MCPP
9.	5523	22524.46	MCPA	8.741	10819	21859.6	MCPA
9.863	36794	100.	DBOFB	8.952	80515	100.	DBOFB
9.37	8547	196.201	2,4-DP	9.069	19053	222.991	2,4-DP
9.685	8855	190.772	2,4-D	9.475	21959	196.294	2,4-D
10.422	13835	20.599	PCP	9.867	29556	20.511	PCP
10.63	4700	18.576	2,4,5-TP	10.234	11455	19.371	2,4,5-TP
10.996	4184	17.094	2,4,5-T	10.691	10444	18.632	2,4,5-T
11.649	13235	84.35	DINOSEB	10.978	29151	88.718	DINOSEB
11.538	4663	165.268	2,4-DB	11.15	11900	175.224	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\2H15193.27A
Area File: C:\CPWIN\DATA1\2H15193B.27A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/14/2011 9:20:56 PM
File Reported On: 7/14/2011 at 9:21:03 PM

USF83 1149

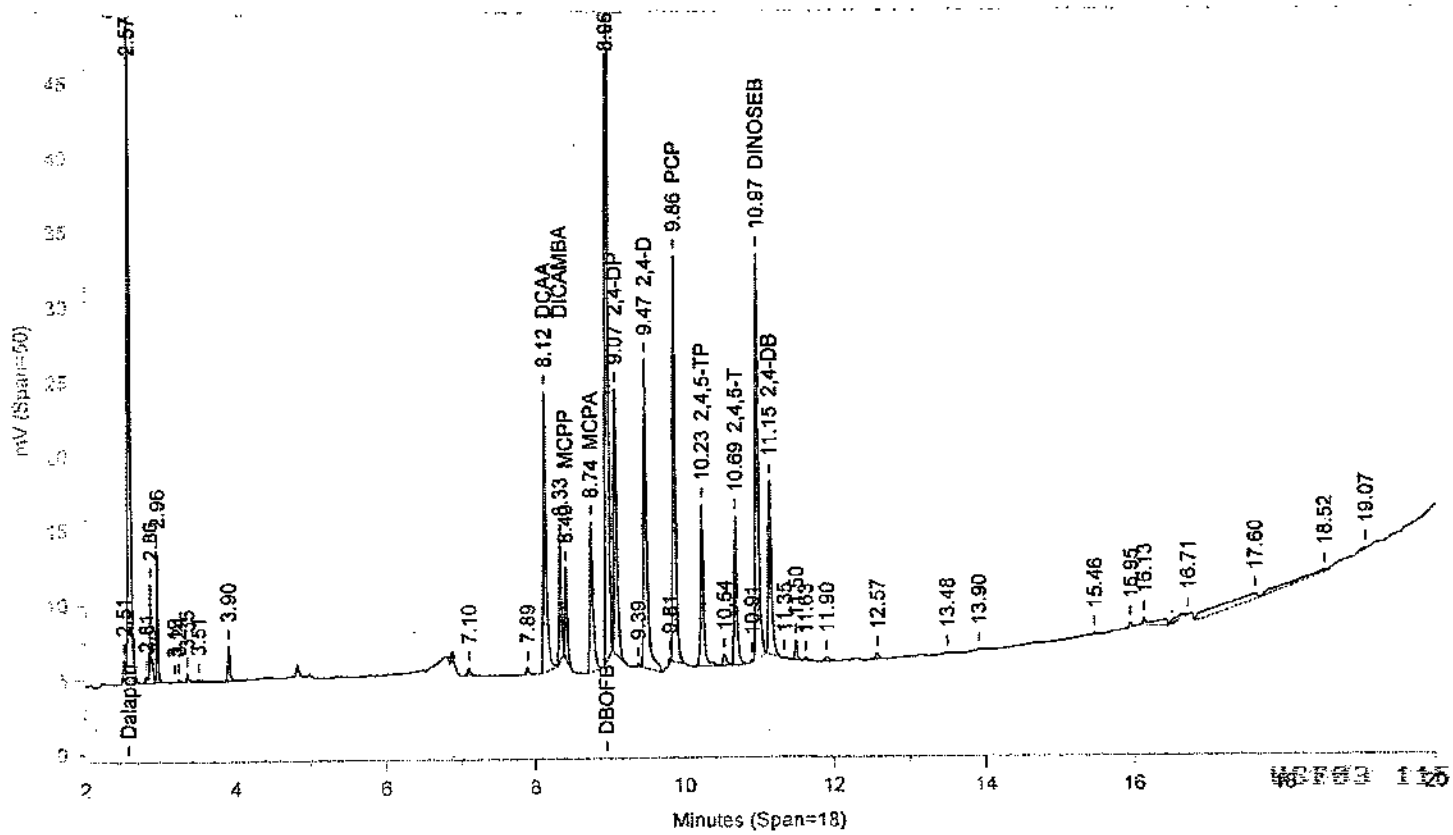
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.39R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 2:30:57 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.39R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 2:30:57 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

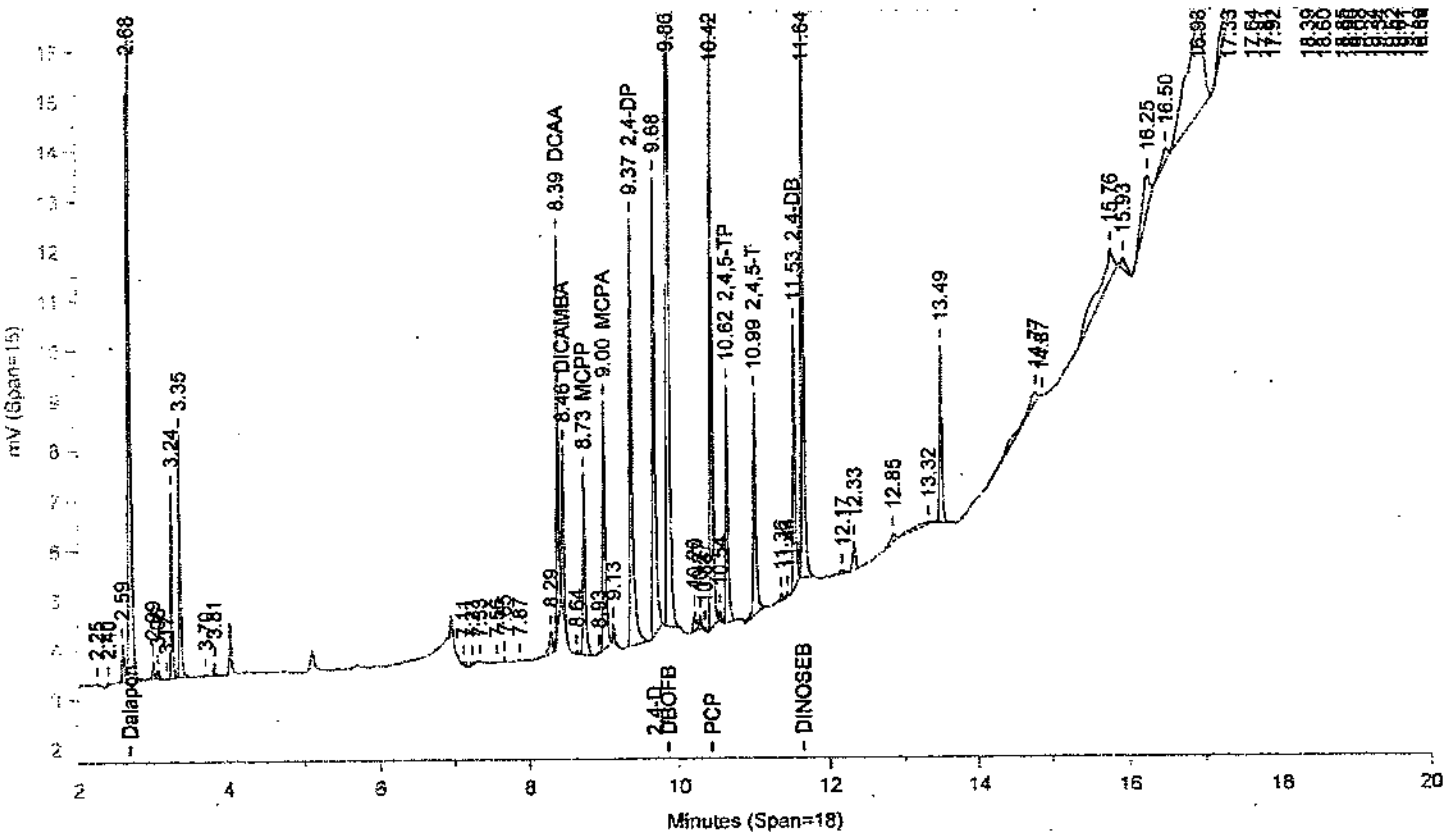
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.678	24241	449.371	Dalapon	2.571	49452	442.776	Dalapon
8.386	7217	195.629	DCAA	8.118	18898	206.546	DCAA
8.457	3056	20.51	DICAMBA	8.331	8095	23.206	DICAMBA
8.732	3704	23089.11	MCPP	8.402	6130	23412.51	MCPP
8.996	5165	22472.68	MCPA	8.738	10096	21938.34	MCPA
9.86	34485	100.	DBOFB	8.949	74866	100.	DBOFB
9.367	8040	196.917	2,4-DP	9.066	17824	224.345	2,4-DP
9.68	8396	193.002	2,4-D	9.471	20785	199.818	2,4-D
10.419	12939	20.556	PCP	9.863	27179	20.285	PCP
10.625	4547	19.176	2,4,5-TP	10.23	10870	19.769	2,4,5-TP
10.992	4116	17.941	2,4,5-T	10.687	10012	19.209	2,4,5-T
11.645	12741	86.635	DINOSEB	10.975	27382	89.62	DINOSEB
11.533	4665	176.411	2,4-DB	11.145	11703	185.31	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\2H15193.39A
Area File: C:\CPWIN\DATA1\2H15193B.39A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 2:51:02 AM
File Reported On: 7/15/2011 at 2:51:09 AM

USPB3 1151

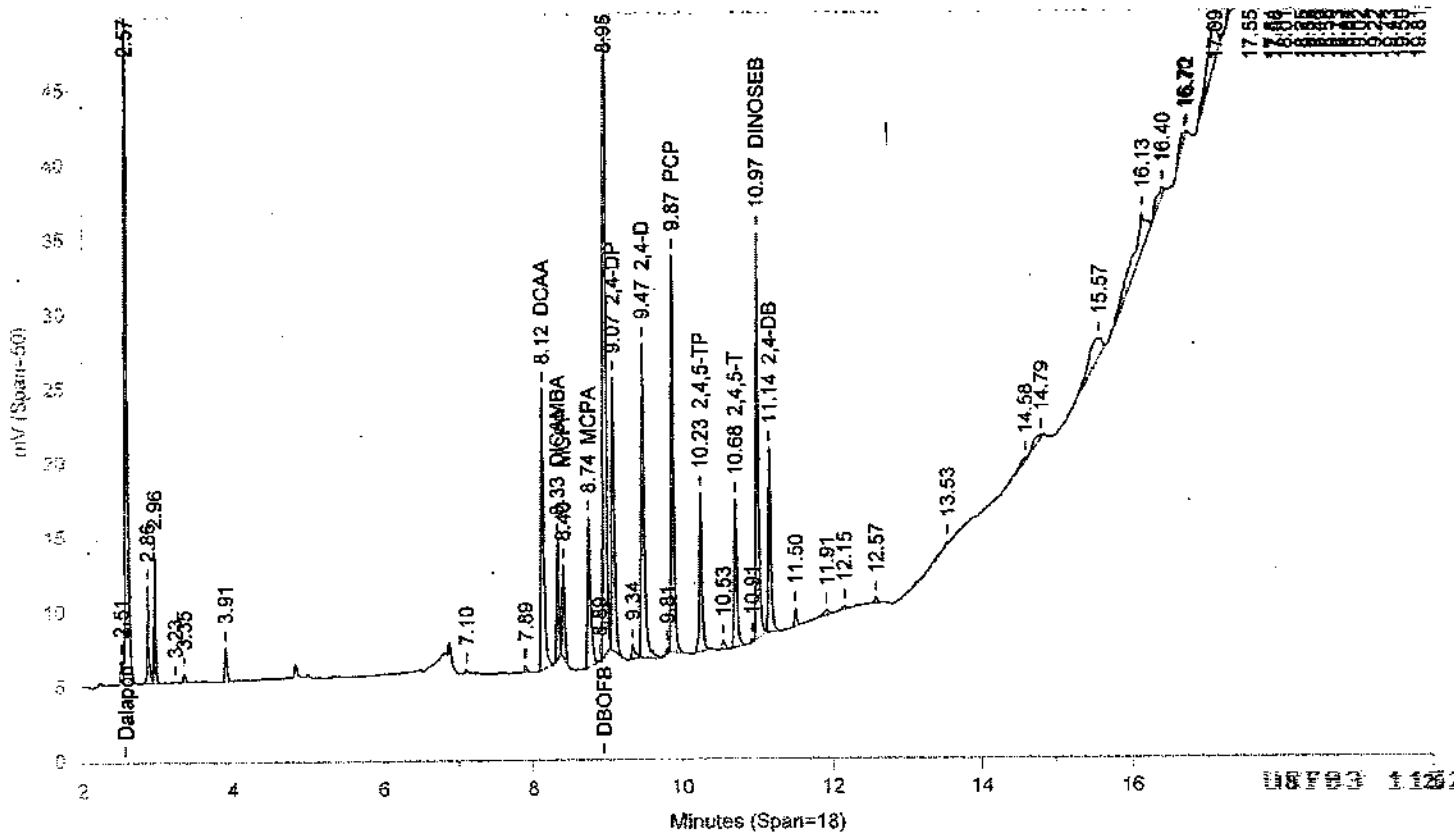
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.51R



Instrument ID: CP15-H8456A Injected On: 7/15/2011 7:59:52 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.51R



Instrument ID: CP15-H8456B Injected On: 7/15/2011 7:59:52 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

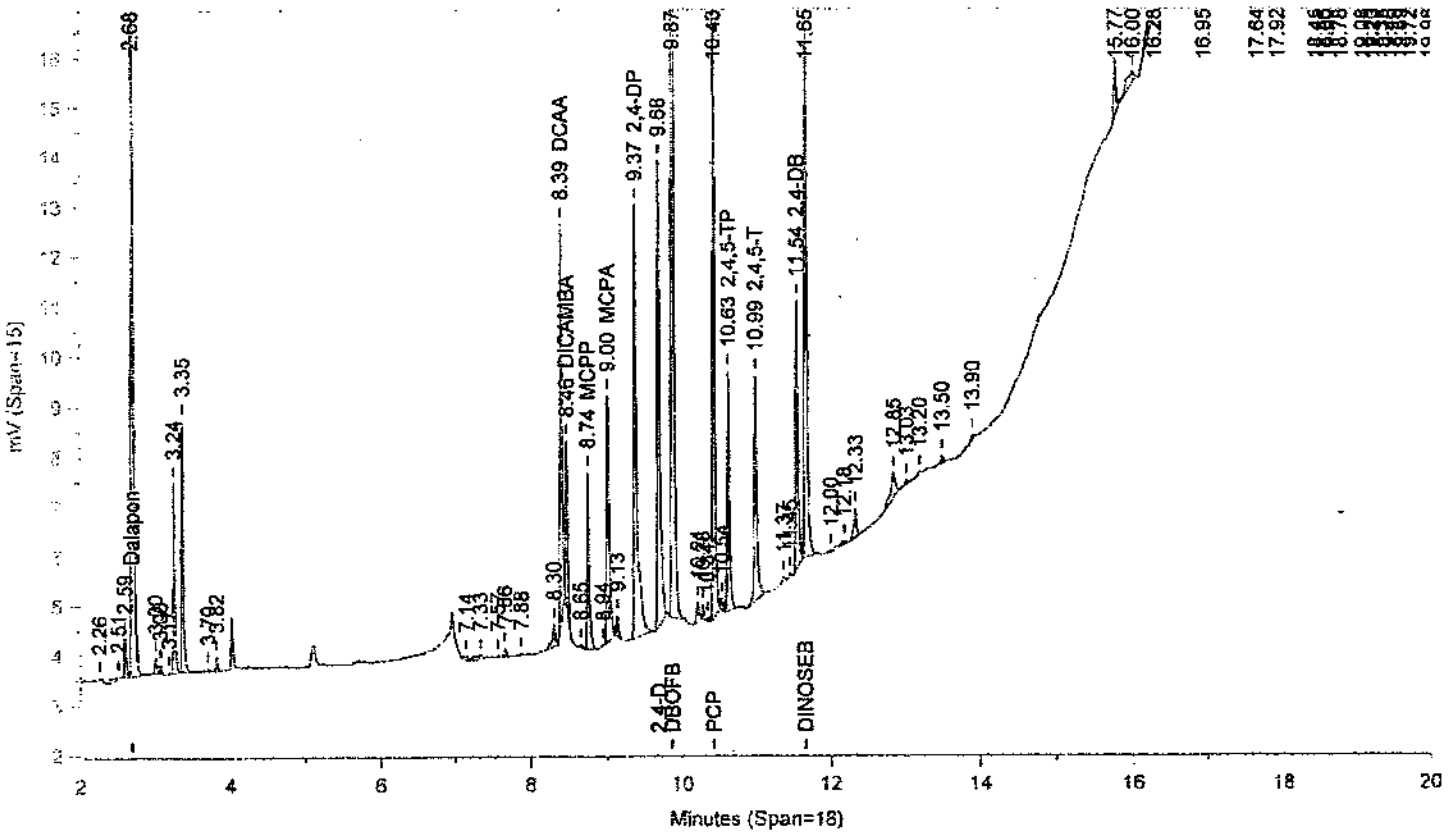
Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.679	24591	445.18	Dalapon	2.571	49341	437.092	Dalapon
8.387	7917	209.586	DCAA	8.12	18907	204.456	DCAA
8.459	3327	21.803	DICAMBA	8.332	8110	23.001	DICAMBA
8.733	3651	22230.28	MCPP	8.404	6141	23207.15	MCPP
8.998	5035	21396.48	MCPA	8.74	10062	21633.31	MCPA
9.861	35312	100.	DBOFB	8.95	75669	100.	DBOFB
9.366	8586	205.378	2,4-DP	9.065	18363	228.675	2,4-DP
9.677	9224	207.068	2,4-D	9.47	21153	201.2	2,4-D
10.42	13206	20.487	PCP	9.865	26761	19.761	PCP
10.624	4781	19.69	2,4,5-TP	10.23	10674	19.206	2,4,5-TP
10.989	4474	19.045	2,4,5-T	10.685	10012	19.006	2,4,5-T
11.645	12893	85.619	DINOSEB	10.974	27417	88.783	DINOSEB
11.53	5295	195.537	2,4-DB	11.143	12362	193.671	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\2H15193.51A
Area File: C:\CPWIN\DATA1\2H15193B.51A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 8:19:58 AM
File Reported On: 7/15/2011 at 8:20:03 AM

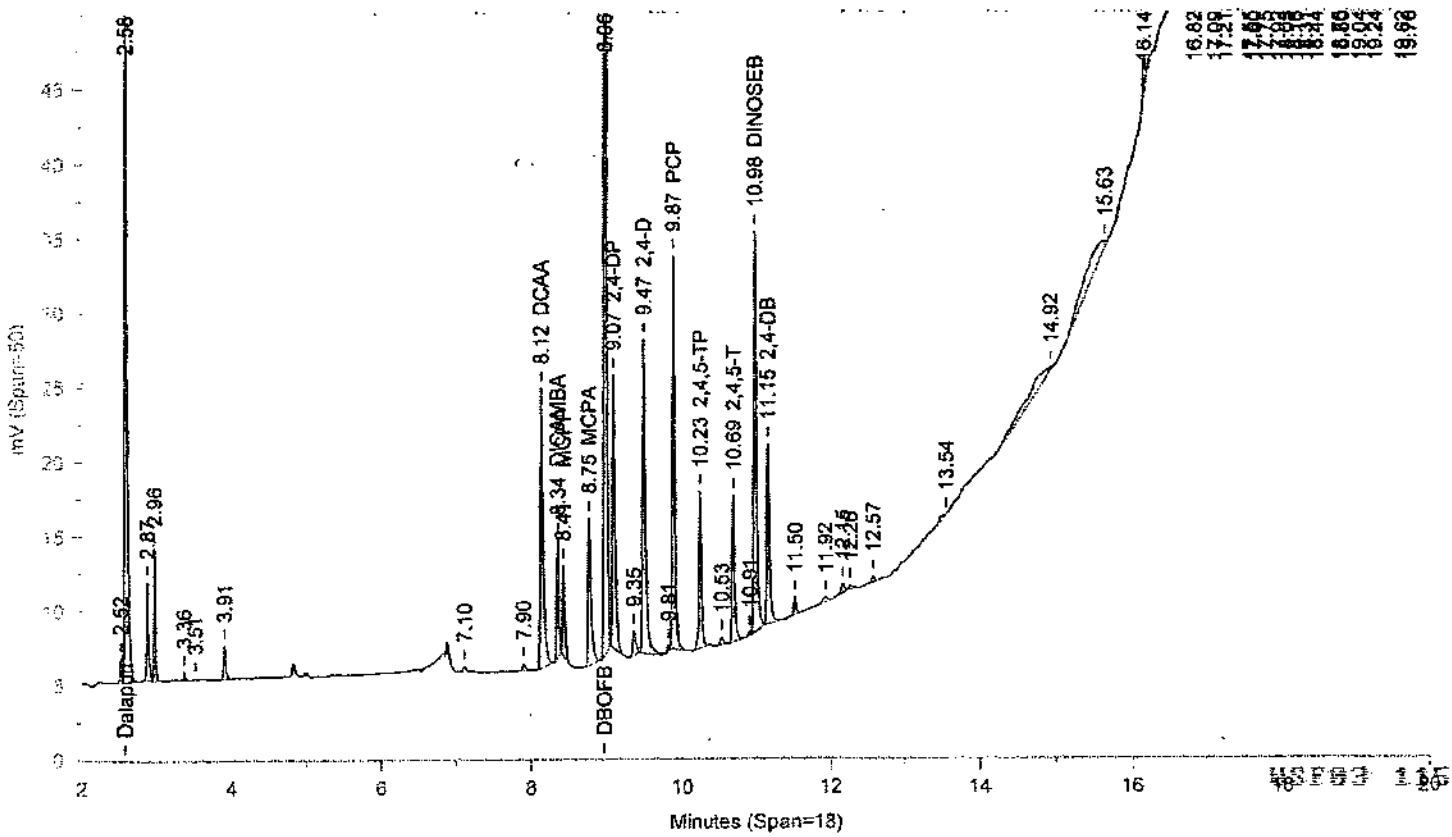
USF03 1153

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\2H15193.63R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 1:30:44 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.63R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 1:30:44 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

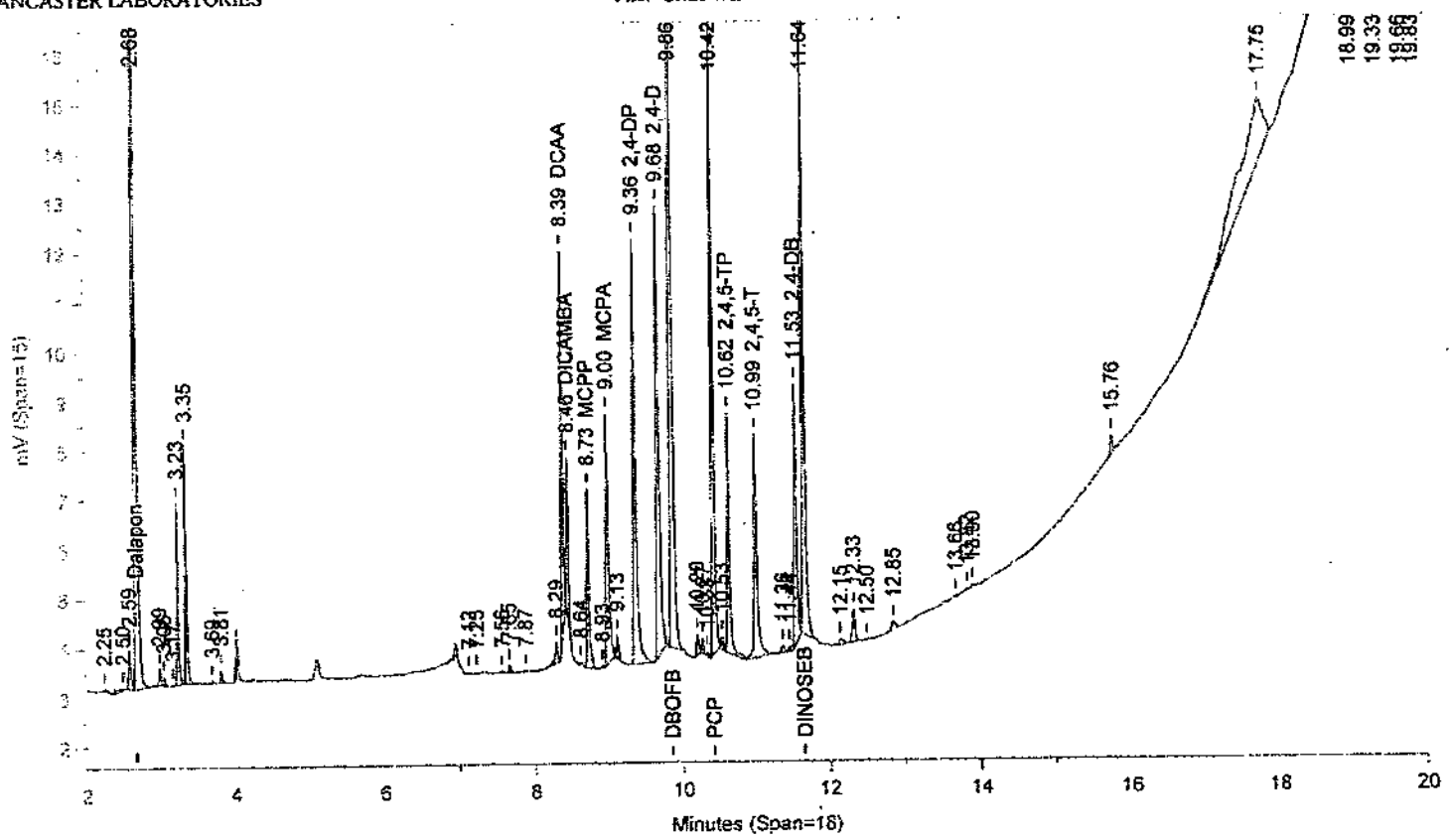
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.684	25211	450.794	Dalapon	2.575	49049	435.256	Dalapon
8.393	8009	209.412	DCAA	8.125	18917	204.92	DCAA
8.465	3334	21.585	DICAMBA	8.337	7944	22.571	DICAMBA
8.74	3571	21473.6	MCPP	8.409	6097	23080.9	MCPP
9.004	4988	20935.11	MCPA	8.745	9995	21525.31	MCPA
9.866	35752	100.	DBOFB	8.956	75538	100.	DBOFB
9.372	8758	206.906	2,4-DP	9.07	18326	228.608	2,4-DP
9.682	9410	208.632	2,4-D	9.474	21174	201.752	2,4-D
10.427	13156	20.16	PCP	9.871	26584	19.664	PCP
10.63	4833	19.659	2,4,5-TP	10.235	10623	19.147	2,4,5-TP
10.994	4554	19.148	2,4,5-T	10.69	9926	18.875	2,4,5-T
11.651	13005	85.299	DINOSEB	10.981	26997	87.574	DINOSEB
11.536	5407	197.204	2,4-DB	11.148	12180	191.162	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\2H15193.63A
Area File: C:\CPWIN\DATA1\2H15193B.63A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 1:50:50 PM
File Reported On: 7/15/2011 at 1:50:56 PM

USF63 1155

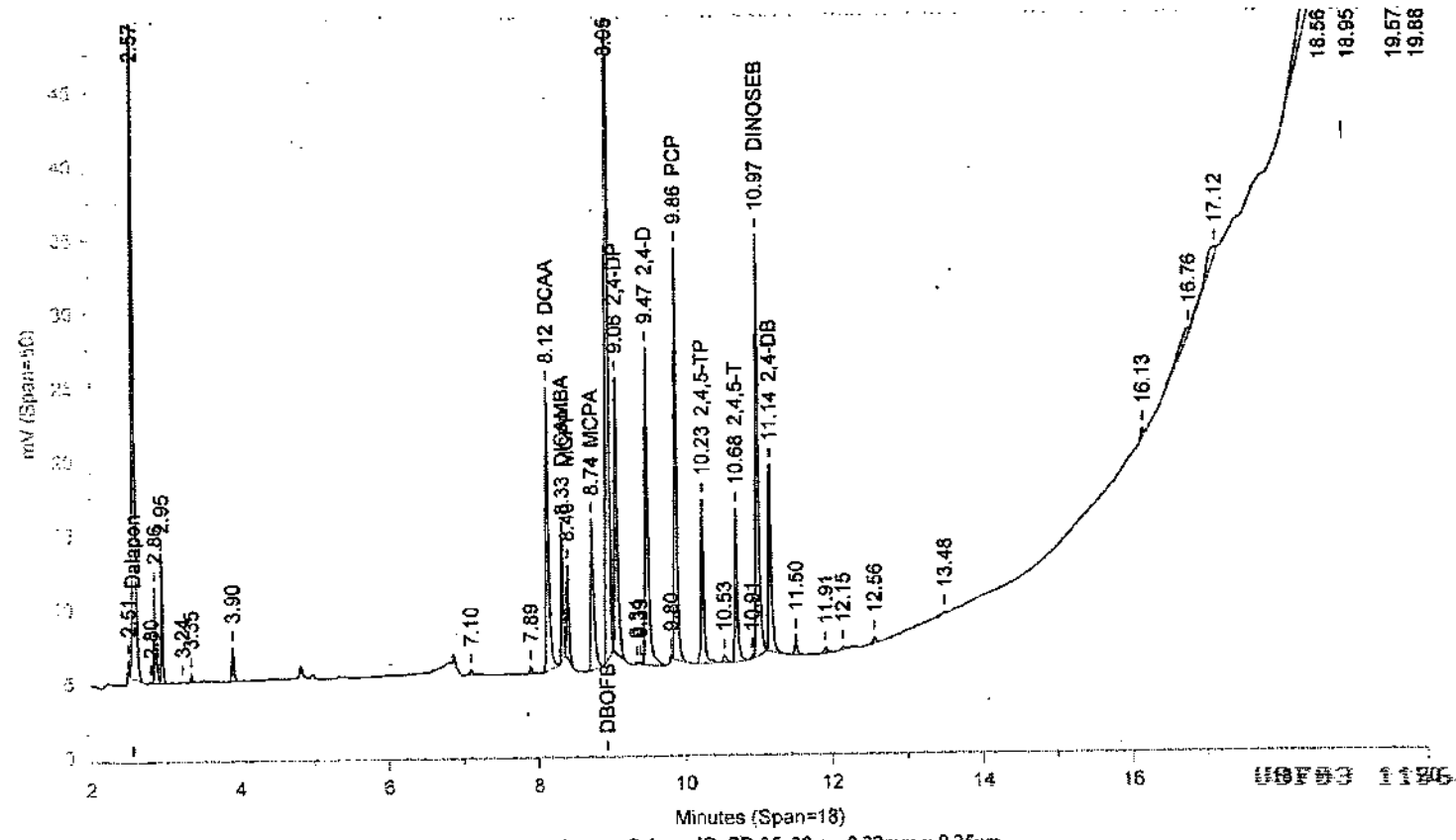
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\3H15193.03R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 5:11:51 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\3H15193B.03R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 5:11:51 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holtVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.676	24626	433.703	Dalapon	2.568	49598	427.019	Dalapon
8.385	7834	201.757	DCAA	8.117	19220	202.003	DCAA
8.457	3267	20.83	DICAMBA	8.329	8219	22.655	DICAMBA
8.732	3624	21463.1	MCPP	8.401	6261	22995.16	MCPP
8.997	5092	21050.26	MCPA	8.737	10219	21352.75	MCPA
9.859	36299	100.	DBOFB	8.948	77858	100.	DBOFB
9.365	8693	202.27	2,4-DP	9.063	18669	225.953	2,4-DP
9.676	9146	199.722	2,4-D	9.468	21607	199.743	2,4-D
10.419	13554	20.457	PCP	9.863	27882	20.01	PCP
10.623	4879	19.548	2,4,5-TP	10.228	11154	19.506	2,4,5-TP
10.988	4571	18.927	2,4,5-T	10.684	10394	19.177	2,4,5-T
11.644	13377	86.417	DINOSEB	10.973	28588	89.972	DINOSEB
11.53	5300	190.389	2,4-DB	11.143	12656	192.704	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\3H15193.03A
Area File: C:\CPWIN\DATA1\3H15193B.03A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 5:31:58 PM
File Reported On: 7/15/2011 at 5:32:03 PM

USF83 1157

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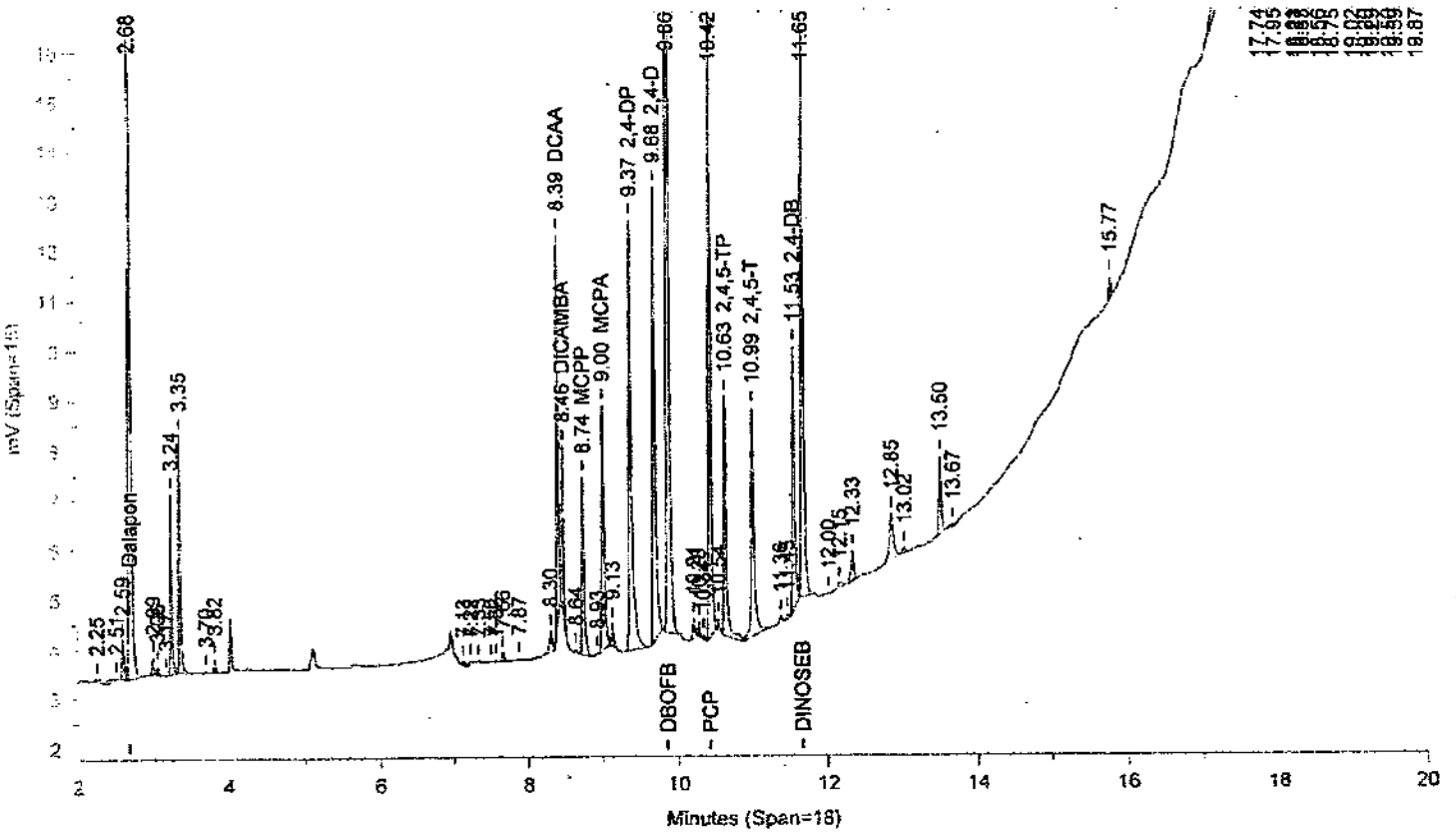
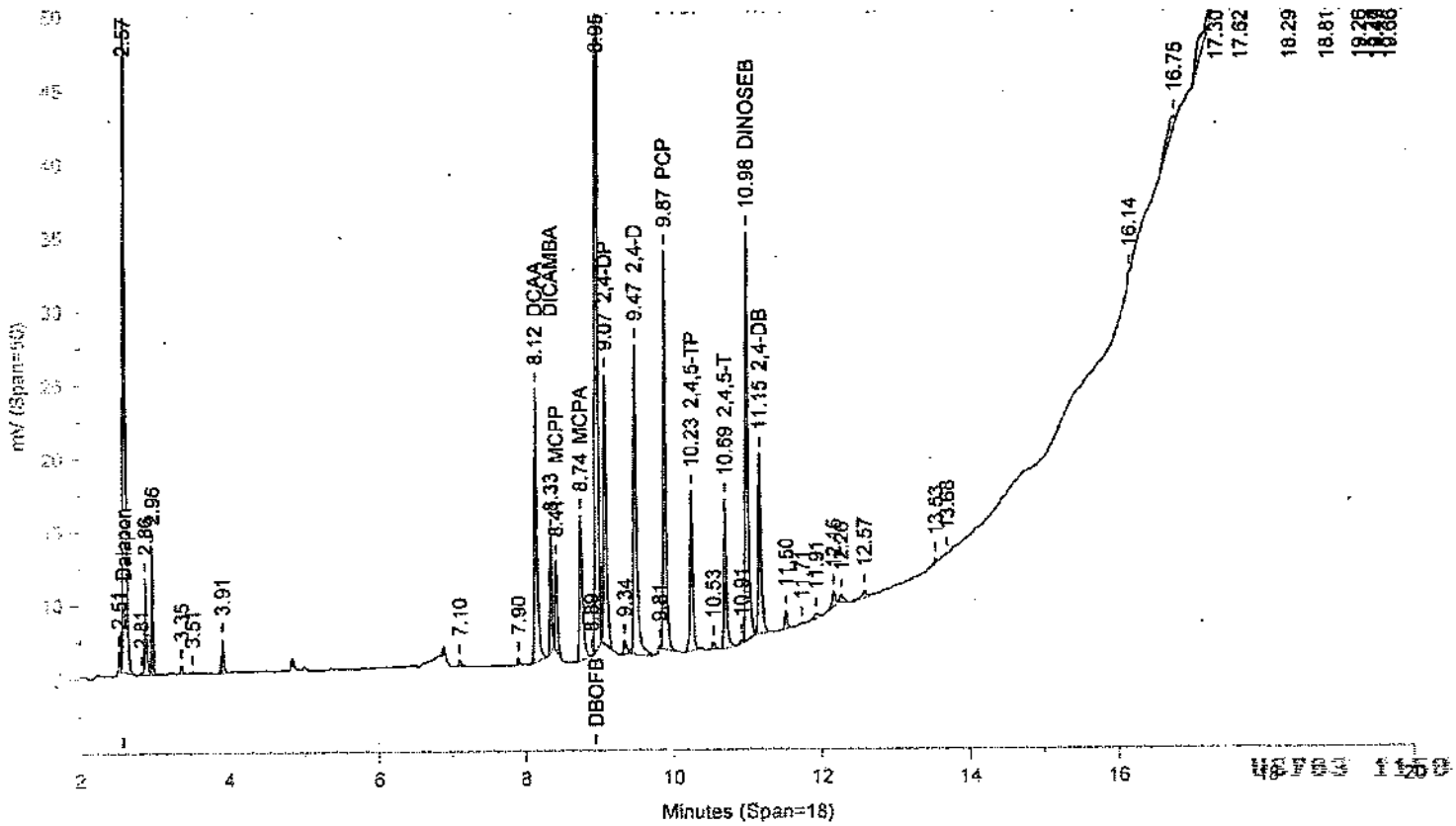
File: C:\CPWIN\DATA1\3H15193.14R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 10:14:26 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\3H15193B.14R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 10:14:26 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.681	25002	443.298	Dalapon	2.573	49110	435.991	Dalapon
8.39	7871	204.091	DCAA	8.122	18749	203.184	DCAA
8.462	3309	21.243	DICAMBA	8.334	8040	22.853	DICAMBA
8.737	3577	21327.66	MCPP	8.406	6092	23070.22	MCPP
9.001	4994	20785.8	MCPA	8.742	9948	21432.67	MCPA
9.863	36054	100.	DBOFB	8.953	75506	100.	DBOFB
9.37	8657	202.796	2,4-DP	9.068	18401	229.641	2,4-DP
9.681	9177	201.76	2,4-D	9.472	21144	201.554	2,4-D
10.424	13425	20.4	PCP	9.868	27205	20.132	PCP
10.628	4843	19.536	2,4,5-TP	10.232	10946	19.738	2,4,5-TP
10.993	4622	19.27	2,4,5-T	10.688	10211	19.425	2,4,5-T
11.649	13136	85.438	DINOSEB	10.978	27888	90.505	DINOSEB
11.534	5331	192.819	2,4-DB	11.147	12274	192.709	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\3H15193.14A
Area File: C:\CPWIN\DATA1\3H15193B.14A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 10:34:32 PM
File Reported On: 7/15/2011 at 10:34:38 PM

USF83 1159

Raw QC Data

Lancaster Laboratories-Single Component Data Summary

Sample Name: **BLANKA** 7/12/11F PBLK02193 **Sample ID:** AB **Batchnumber:** **111930002A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 1145 SDG: State:
Analyses: 10407

Analysis Report (A)

Injected on : JUL 13, 2011 19:20:24
Instrument : CP15--H8456A
Result file : 1H15193.36R
Calibration file : 1H15193.CAL
Method file : HERW.MET

%SSR(DCAA) : 59% (35-144) Conc.: 1.180821

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.36	8.40	8.42	4678	1.180821
DICAMBA	8.44	8.48	8.50	720	0.045018
MCPP	8.72	8.72	8.78	90	5.243313
DBOFB	9.84	9.87	9.90	37036	0.100000
PCP	10.40	10.44	10.46	22	0.000332

Analysis Report (B)

Injected on : JUL 13, 2011 19:20:24
Instrument : CP15--H8456B
Result file : 1H15193B.36R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET

%SSR(DCAA) : 61.9% (35-144) Conc.: 1.238095

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.13	8.16	12210	1.238095
DICAMBA	8.31	8.34	8.37	297	0.007909
DBOFB	8.93	8.96	8.99	80699 E	0.100000

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon			<1.25	<0.25			
☐ DCAA	B	1.238095				4.74	
☑ DICAMBA			<0.3	<0.08			
☑ MCPP			<200	<50			
☑ MCPA			<1000	<300			
☑ 2,4-DP			<0.5	<0.16			
☑ 2,4-D			<0.5	<0.16			
☐ DBOFB	A	0.100000				0.00	
☑ PCP			<0.05	<0.027			
☑ 2,4,5-TP			<0.05	<0.01			
☑ 2,4,5-T			<0.05	<0.015			
☑ 2,4-DB			<1	<0.3			
☑ DINOSEB			<0.5	<0.1			

Units: ug/l

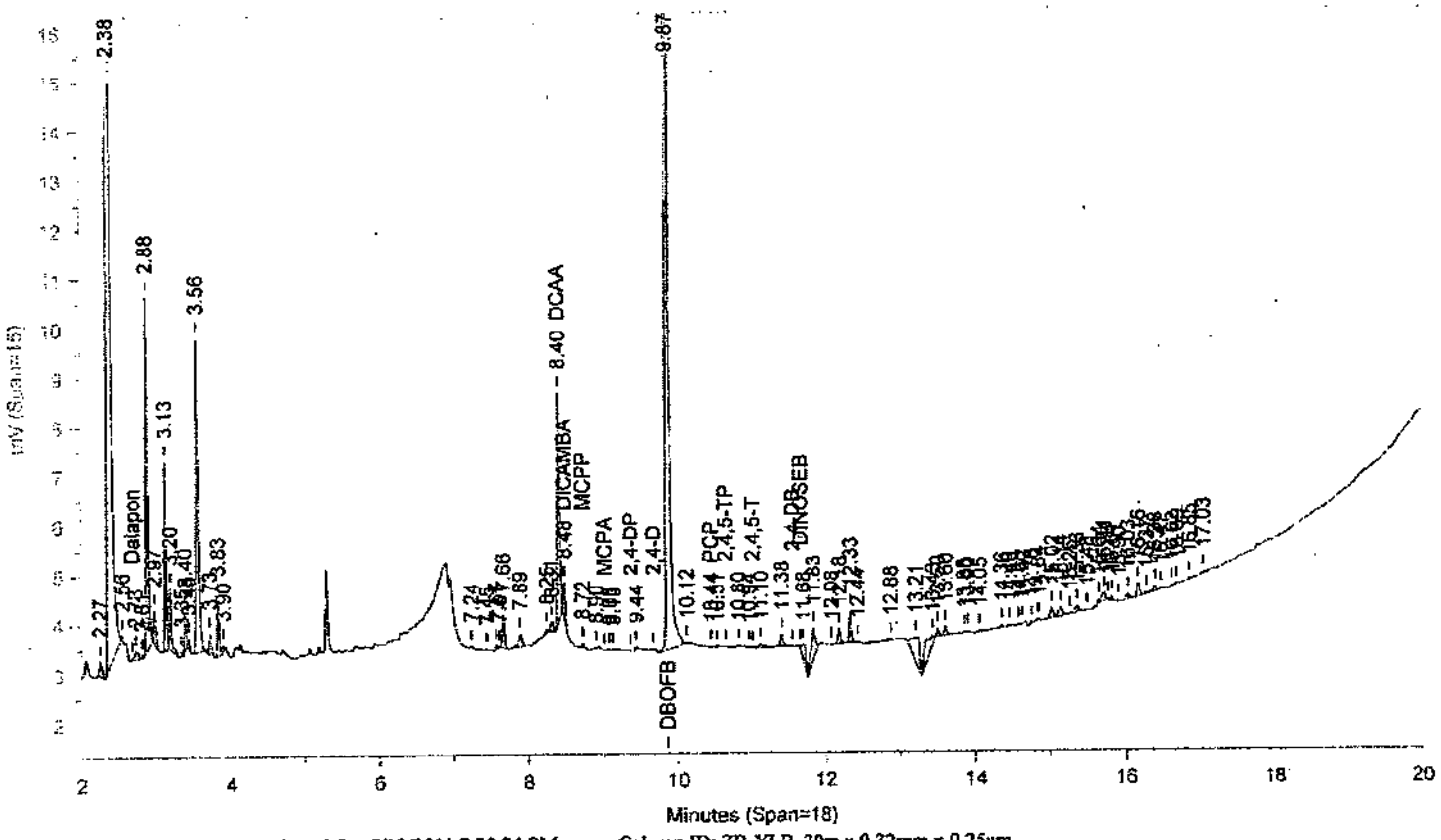
Reviewed by: JH145 Verified by: Valerie L. Tomayko Principal Specialist
Date: 7-14-11 Date: JUL 15 2011

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/14/11 08:16:13

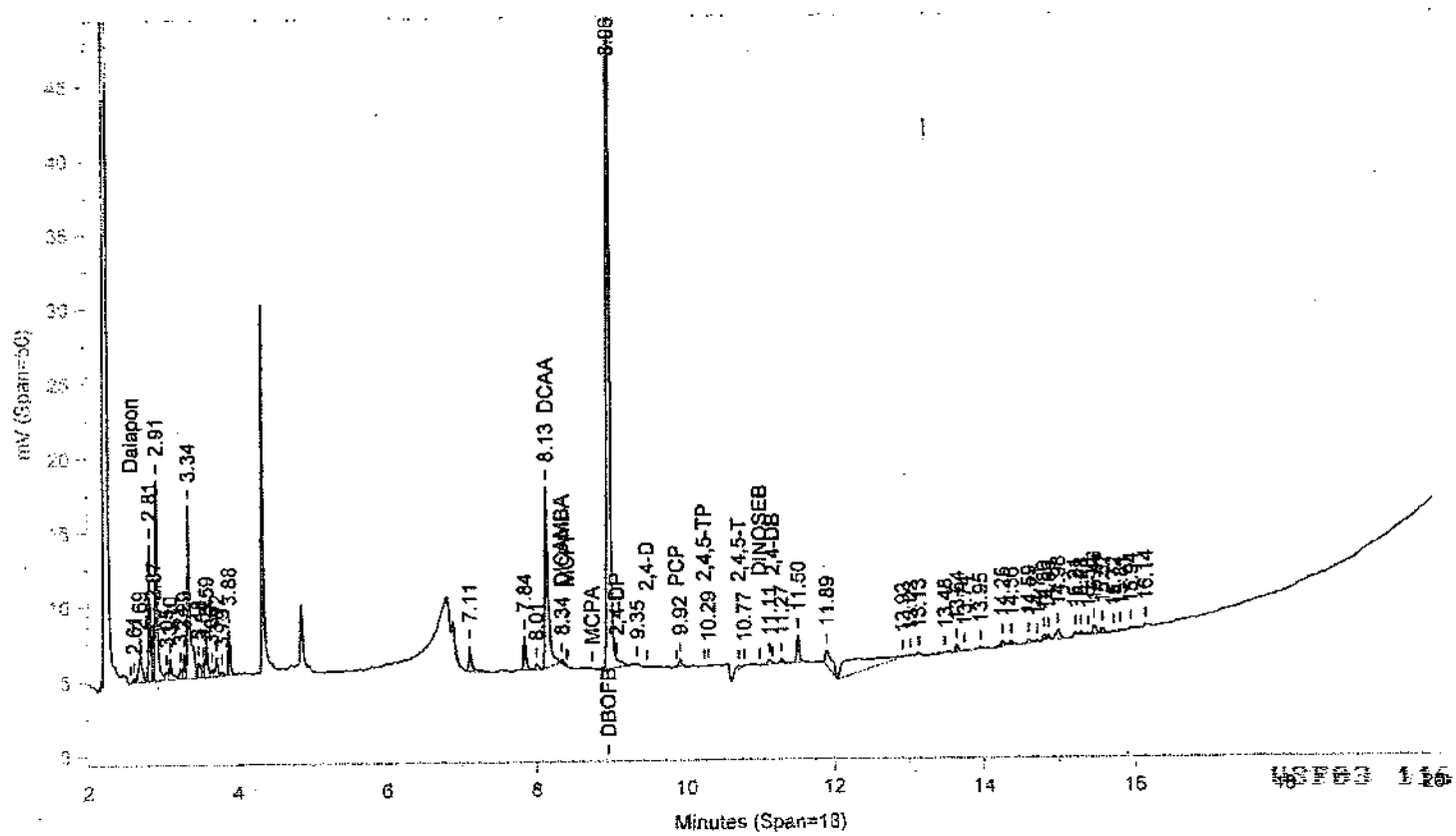
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\1H15193.36R



Instrument ID: CP15--H8456A Injected On: 7/13/2011 7:20:24 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.36R



Instrument ID: CP15--H8456B Injected On: 7/13/2011 7:20:24 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1000 Dilution Factor: 10
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.4	4678	1.181	DCAA	8.133	12210	1.238	DCAA
8.479	720	.045	DICAMBA	8.341	297	.008	DICAMBA
8.719	90	5.243	MCPP	.	0	.	MCPP
9.866	37036	.1	DBOFB	8.957	80699	.1	DBOFB
10.437	22	.	PCP	.	0	.	PCP

Files:
Area File: C:\CPWIN\DATA1\1H15193.36A
Area File: C:\CPWIN\DATA1\1H15193B.36A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 7:40:30 PM
File Reported On: 7/13/2011 at 7:40:35 PM

USF83 1163

Lancaster Laboratories-Single Component Data Summary

Sample Name: **LCSA** 7/12/11F LCS02193 Sample ID: AB **Batchnumber: 111930002A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 1145 SDG: State:
Analyses: 10407

Analysis Report (A)

Injected on : JUL 13, 2011 19:47:54
Instrument : CP15--H8456A
Result file : 1H15193.37R
Calibration file : 1H15193.CAL
Method file : HERW.MET

%SSR(DCAA) : 97.4% (35-144) Conc.: 1.947819

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.66	2.68	2.72	29196	5.195835
DCAA	8.36	8.39	8.42	7485	1.947819
DICAMBA	8.44	8.47	8.50	4087	0.263317
MCPP	8.72	8.74	8.78	4049	242.323685
MCPA	8.98	9.01	9.04	9774	408.314667
2,4-DP	9.34	9.37	9.40	11543	2.714137
2,4-D	9.65	9.68	9.71	11263	2.485361
DBOFB	9.84	9.87	9.90	35922	0.100000
PCP	10.40	10.42	10.46	33178	0.505999
2,4,5-TP	10.60	10.63	10.66	5713	0.231299
2,4,5-T	10.97	10.99	11.03	5164	0.216072
2,4-DB	11.51	11.53	11.57	5947	2.158645
DINOSEB	11.62	11.65	11.68	49418	3.226039

Analysis Report (B)

Injected on : JUL 13, 2011 19:47:54
Instrument : CP15--H8456B
Result file : 1H15193B.37R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET

%SSR(DCAA) : 98.4% (35-144) Conc.: 1.968459

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.55	2.58	2.61	57996	5.069371
DCAA	8.10	8.13	8.16	18448	1.968459
DICAMBA	8.31	8.34	8.37	8897	0.248999
MCPP	8.38	8.41	8.44	6666	248.561539
MCPA	8.72	8.75	8.78	19552	414.766052
DBOFB	8.93	8.96	8.99	76688	0.100000
2,4-DP	9.05	9.07	9.11	26146	3.212675
2,4-D	9.45	9.48	9.51	26364	2.474366
PCP	9.85	9.87	9.91	67207	0.489669
2,4,5-TP	10.21	10.24	10.27	13453	0.238855
2,4,5-T	10.67	10.69	10.73	12526	0.234632
DINOSEB	10.96	10.98	11.02	104909	3.352071
2,4-DB	11.12	11.15	11.18	13847	2.140552

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon	A	5.195835	1.25	0.25		2.46	
☐ DCAA	B	1.968459				1.05	
☑ DICAMBA	A	0.263317	<0.3	0.08	J	5.59	
☑ MCPP	B	248.561539	200	50		2.54	
☑ MCPA	B	414.766052	<1000	300	J	1.57	
☑ 2,4-DP	B	3.212675	0.5	0.16		16.82	
☑ 2,4-D	A	2.485361	0.5	0.16		0.44	
☐ DBOFB	A	0.100000				0.00	
☑ PCP	A	0.505999	0.05	0.027		3.28	
☑ 2,4,5-TP	B	0.238855	0.05	0.01		3.21	
☑ 2,4,5-T	B	0.234632	0.05	0.015		8.24	
☑ 2,4-DB	A	2.158645	1	0.3		0.84	
☑ DINOSEB	B	3.352071	0.5	0.1		3.83	

Units: ug/l

Reviewed by: J1145 Verified by: Valerie L. Tomayko, Principal Specialist
Date: 7-14-11 Date: JUL 15 2011

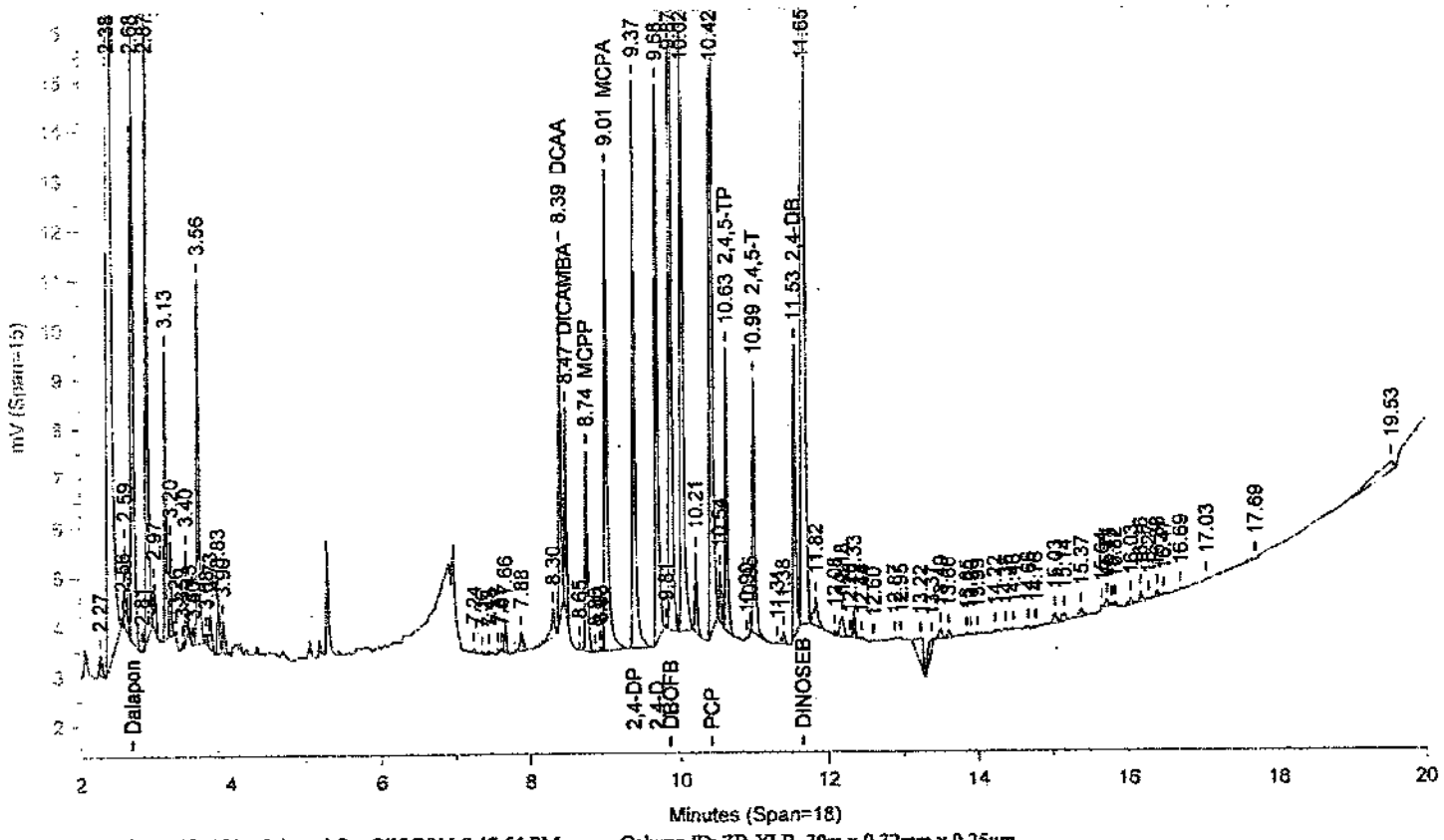
USF83 1164

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/14/11 08:16:26

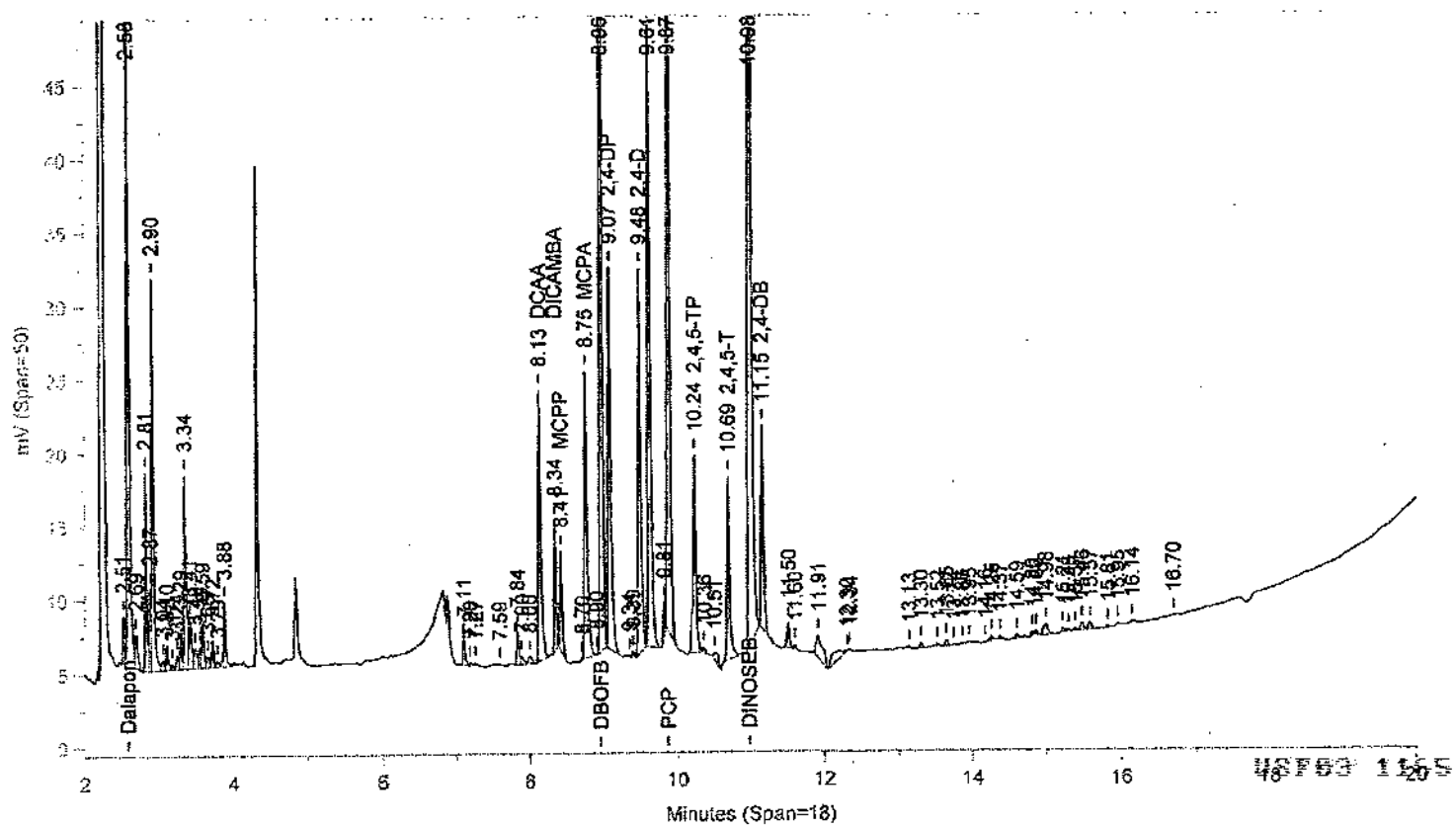
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\1H15193.37R



Instrument ID: CP15--H8456A Injected On: 7/13/2011 7:47:54 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.37R



Instrument ID: CP15--H8456B Injected On: 7/13/2011 7:47:54 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; hokVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1000 Dilution Factor: 10
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.683	29196	5.196	Dalapon	2.576	57996	5.069	Dalapon
8.393	7485	1.948	DCAA	8.127	18448	1.968	DCAA
8.467	4087	.263	DICAMBA	8.339	8897	.249	DICAMBA
8.74	4049	242.324	MCPP	8.411	6666	248.562	MCPP
9.005	9774	408.315	MCPA	8.747	19552	414.766	MCPA
9.867	35922	.1	DBOFB	8.957	76688	.1	DBOFB
9.372	11543	2.714	2,4-DP	9.072	26146	3.213	2,4-DP
9.683	11263	2.485	2,4-D	9.475	26364	2.474	2,4-D
10.425	33178	.506	PCP	9.871	67207	.49	PCP
10.63	5713	.231	2,4,5-TP	10.236	13453	.239	2,4,5-TP
10.994	5164	.216	2,4,5-T	10.692	12526	.235	2,4,5-T
11.649	49418	3.226	DINOSEB	10.98	104909	3.352	DINOSEB
11.535	5947	2.159	2,4-DB	11.149	13847	2.141	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\1H15193.37A
Area File: C:\CPWIN\DATA1\1H15193B.37A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 8:07:58 PM
File Reported On: 7/13/2011 at 8:08:05 PM

USF93 1166

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSDA 7/12/11F LCSD02193 Sample ID: AB **Batchnumber: 111930002A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 1145 SDG: State:
Analyses: 10407

Analysis Report (A)

Injected on : JUL 13, 2011 20:15:34
Instrument : CP15--H8456A
Result file : 1H15193.38R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 92.3% (35-144) Conc.: 1.845594

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.66	2.68	2.72	20668	3.877045
DCAA	8.36	8.39	8.42	6728	1.845594
DICAMBA	8.44	8.47	8.50	3769	0.255955
MCPP	8.72	8.74	8.78	3756	236.940628
MCPA	8.98	9.00	9.04	9281	408.678375
2,4-DP	9.34	9.37	9.40	10922	2.706973
2,4-D	9.65	9.68	9.71	10775	2.506291
DBOFB	9.84	9.86	9.90	34079	0.100000
PCP	10.40	10.42	10.46	30674	0.493115
2,4,5-TP	10.60	10.63	10.66	5367	0.229024
2,4,5-T	10.97	10.99	11.03	4933	0.217597
2,4-DB	11.51	11.53	11.57	5657	2.164624
DINOSEB	11.62	11.65	11.68	45227	3.112072

Analysis Report (B)

Injected on : JUL 13, 2011 20:15:34
Instrument : CP15--H8456B
Result file : 1H15193B.38R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 93.2% (35-144) Conc.: 1.864634

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.55	2.57	2.61	41686	3.814882
DCAA	8.10	8.12	8.16	16691	1.864634
DICAMBA	8.31	8.34	8.37	7957	0.233152
MCPP	8.38	8.41	8.44	6092	237.816483
MCPA	8.72	8.74	8.78	18379	408.196075
DBOFB	8.93	8.95	8.99	73248	0.100000
2,4-DP	9.05	9.07	9.11	25055	3.223292
2,4-D	9.45	9.47	9.51	25334	2.489337
PCP	9.85	9.87	9.91	61095	0.466045
2,4,5-TP	10.21	10.23	10.27	12953	0.240783
2,4,5-T	10.67	10.69	10.73	12098	0.237245
DINOSEB	10.96	10.98	11.02	95523	3.195544
2,4-DB	11.12	11.15	11.18	13349	2.160523

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon	A	3.877045	1.25	0.25		1.62	
☐ DCAA	B	1.864634				1.03	
☑ DICAMBA	A	0.255955	<0.3	0.08	J	9.32	
☑ MCPP	B	237.816483	200	50		0.37	
☑ MCPA	A	408.678375	<1000	300	J	0.12	
☑ 2,4-DP	B	3.223292	0.5	0.16		17.41	
☑ 2,4-D	A	2.506291	0.5	0.16		0.68	
☐ DBOFB	A	0.100000				0.00	
☑ PCP	A	0.493115	0.05	0.027		5.64	
☑ 2,4,5-TP	B	0.240783	0.05	0.01		5.01	
☑ 2,4,5-T	B	0.237245	0.05	0.015		8.64	
☑ 2,4-DB	A	2.164624	1	0.3		0.19	
☑ DINOSEB	B	3.195544	0.5	0.1		2.65	

Units: ug/l

Reviewed by: J 1145
Date: 7-14-11

Verified by: Valerie L. Tomayko
Valerie L. Tomayko
Principal Specialist
Date: JUL 15 2011

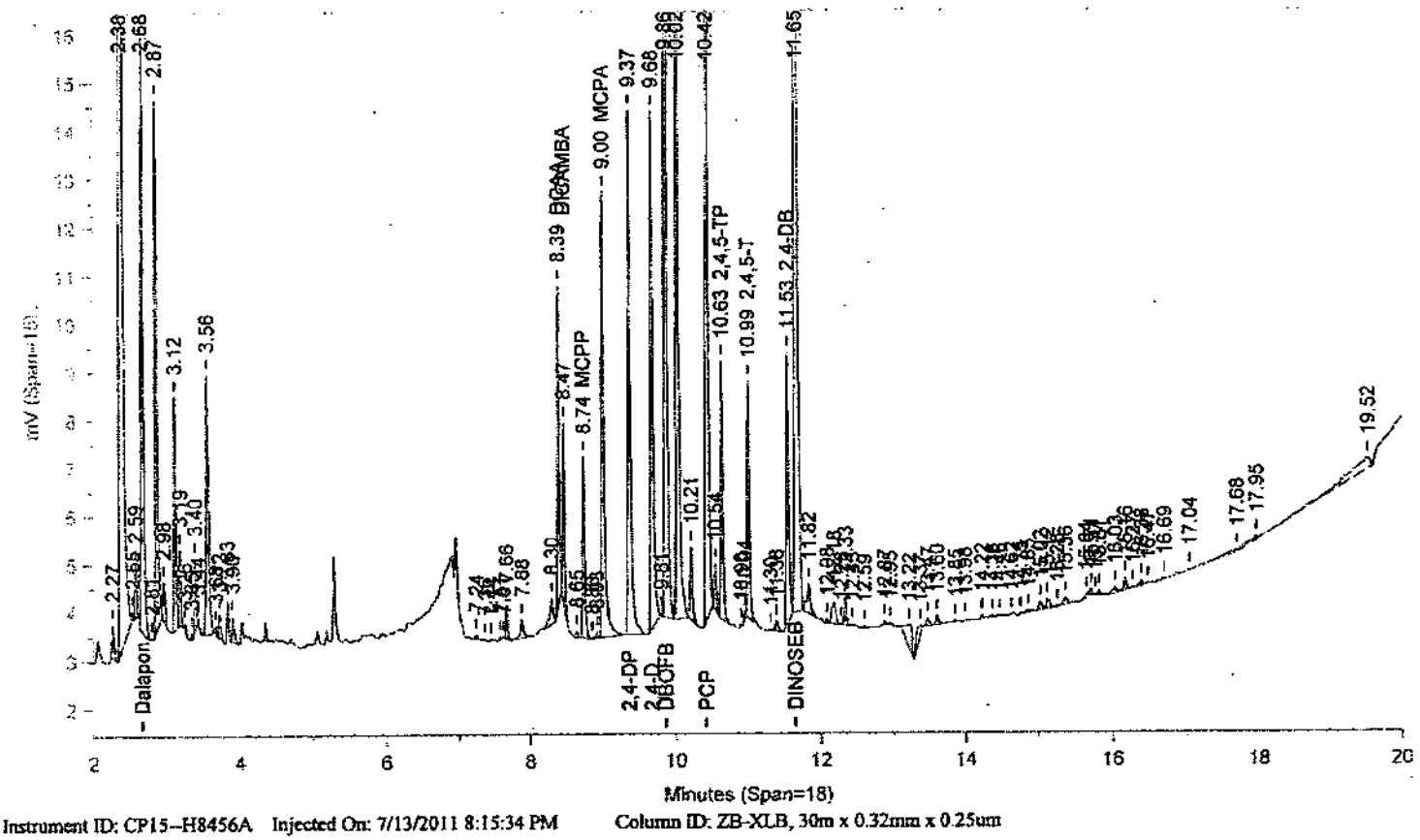
USF03 1167

%Difference = High - Low Amount divided by the Average times 100
Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/14/11 08:16:39

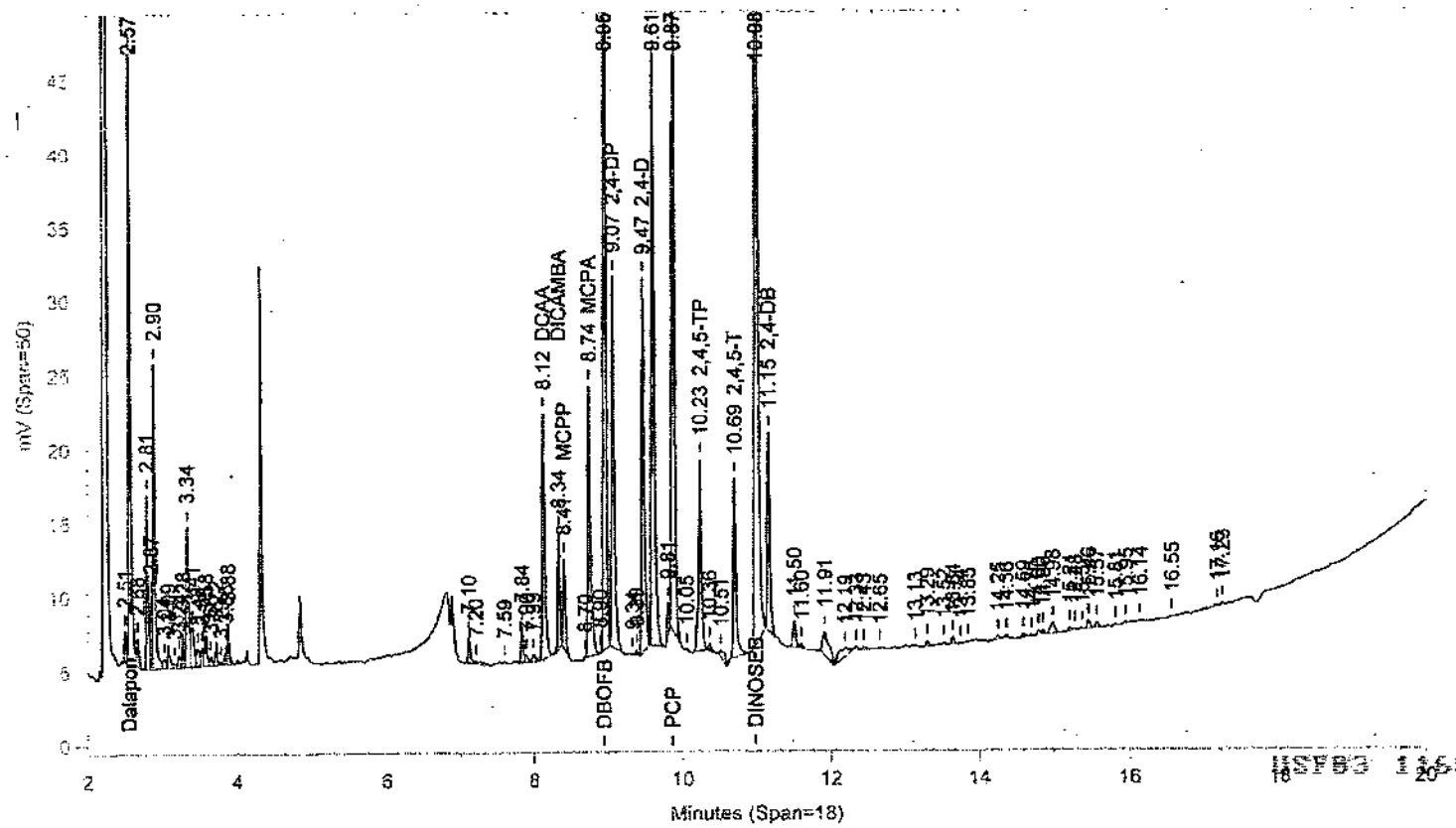
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\1H15193.38R



Instrument ID: CP15--H8456A Injected On: 7/13/2011 8:15:34 PM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\1H15193B.38R



Instrument ID: CP15--H8456B Injected On: 7/13/2011 8:15:34 PM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 1000 Dilution Factor: 10
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.682	20668	3.877	Dalapon	2.575	41686	3.815	Dalapon
8.391	6728	1.846	DCAA	8.125	16691	1.865	DCAA
8.465	3769	.256	DICAMBA	8.337	7957	.233	DICAMBA
8.737	3756	236.941	MCPP	8.409	6092	237.816	MCPP
9.003	9281	408.678	MCPA	8.745	18379	408.196	MCPA
9.864	34079	.1	DBOFB	8.955	73248	.1	DBOFB
9.369	10922	2.707	2,4-DP	9.07	25055	3.223	2,4-DP
9.68	10775	2.506	2,4-D	9.474	25334	2.489	2,4-D
10.423	30674	.493	PCP	9.869	61095	.466	PCP
10.627	5367	.229	2,4,5-TP	10.234	12953	.241	2,4,5-TP
10.992	4933	.218	2,4,5-T	10.69	12098	.237	2,4,5-T
11.647	45227	3.112	DINOSEB	10.978	95523	3.196	DINOSEB
11.533	5657	2.165	2,4-DB	11.147	13349	2.161	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\1H15193.38A
Area File: C:\CPWIN\DATA1\1H15193B.38A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/13/2011 8:35:40 PM
File Reported On: 7/13/2011 at 8:35:45 PM

USF83 1169

Lancaster Laboratories-Single Component Data Summary

Sample Name: BLANKA 7/13/11F PBLK26193 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60 g Total Volume: 2 ml Analyst: 1145 SDG: State:
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 00:13:58
Instrument : CP15--H8456A
Result file : 2H15193.34R
Calibration file : 1H15193.CAL
Method file : HERW.MET

%SSR(DCAA) : 82.5% (36-156) Conc.: 5.498506

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.36	8.39	8.42	5999	5.498506
MCPP	8.72	8.73	8.78	1830	385.761444
MCPA	8.98	8.98	9.04	815	119.868126
2,4-DP	9.34	9.34	9.40	616	0.510544
DBOFB	9.84	9.86	9.90	33995	1.666667
PCP	10.40	10.41	10.46	53	0.002853
2,4,5-T	10.97	10.99	11.03	189	0.027887
2,4-DB	11.51	11.53	11.57	423	0.540390
DINOSEB	11.62	11.66	11.68	1898	0.436385

Analysis Report (B)

Injected on : JUL 15, 2011 00:13:58
Instrument : CP15--H8456B
Result file : 2H15193B.34R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET

%SSR(DCAA) : 79.3% (36-156) Conc.: 5.285969

Peak name	Min	R.T.	Max	Height	Amount
DCAA	8.10	8.12	8.16	14745	5.285969
DICAMBA	8.31	8.33	8.37	2041	0.191946
MCPP	8.38	8.40	8.44	494	61.928165
DBOFB	8.93	8.95	8.99	76083	1.666667
2,4-DP	9.05	9.05	9.11	380	0.157045
2,4-D	9.45	9.45	9.51	1149	0.362280
PCP	9.85	9.85	9.91	1851	0.045320
2,4,5-TP	10.21	10.21	10.27	438	0.026134
2,4,5-T	10.67	10.71	10.73	638	0.040131
2,4-DB	11.12	11.13	11.18	370	0.192202

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon			<9	<4.4			
☐ DCAA	A	5.498506				3.94	
☑ DICAMBA			<1.2	<0.4			
☑ MCPP			<250	<75			
☑ MCPA			<250	<76			
☑ 2,4-DP			<1.7	<0.8			
☑ 2,4-D			<3.6	<1.2			
☐ DBOFB	A	1.666667				0.00	
☑ PCP			<0.17	<0.033			
☑ 2,4,5-TP			<0.17	<0.075			
☑ 2,4,5-T			<0.17	<0.082			
☑ 2,4-DB			<1.7	<0.62			
☑ DINOSEB			<2.4	<0.8			

Units: ug/kg

Reviewed by: 1145 Verified by:
Date: 7-17-11 Date: 7.19.11

USPS3 1179

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/15/11 08:12:57

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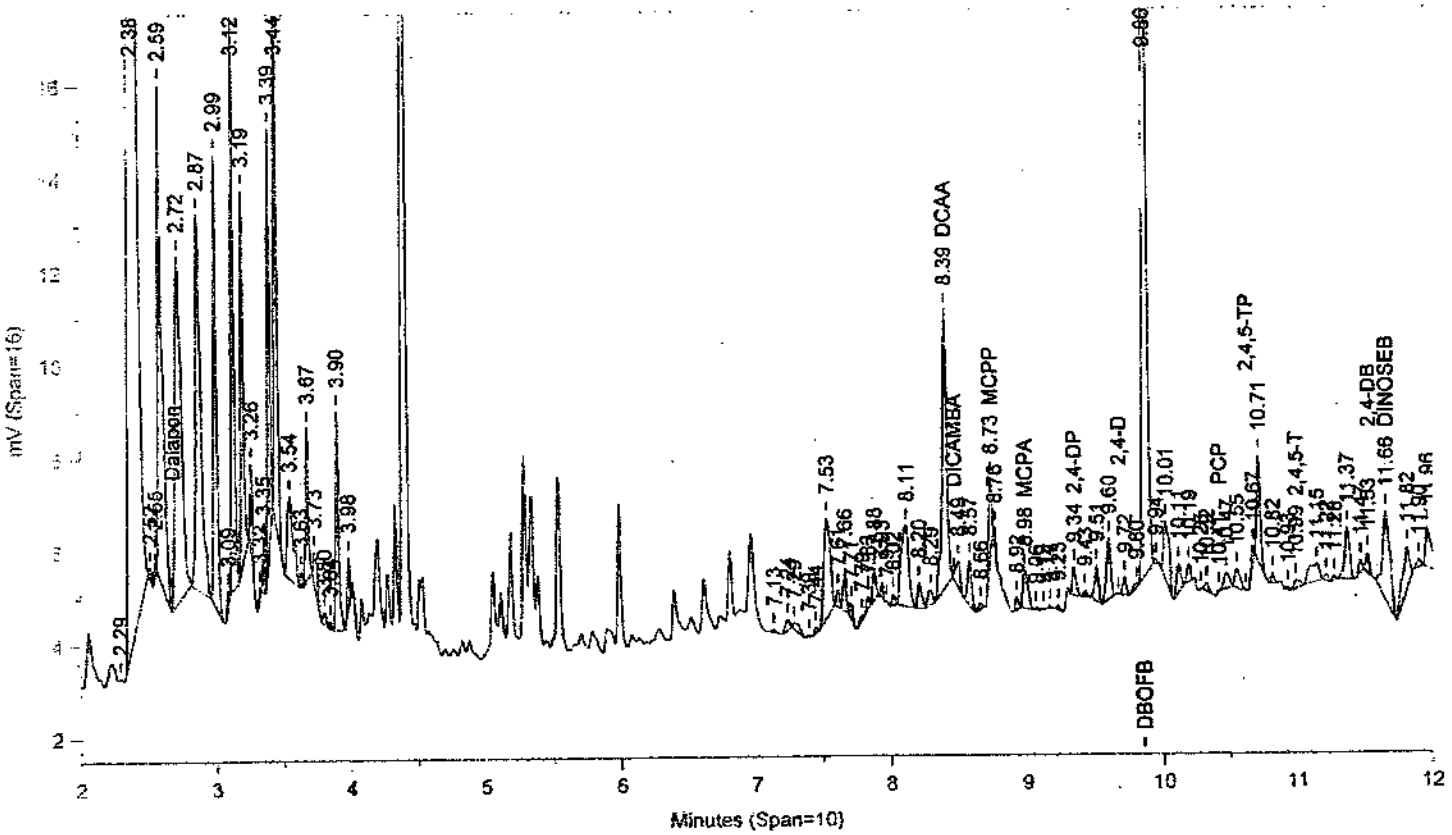
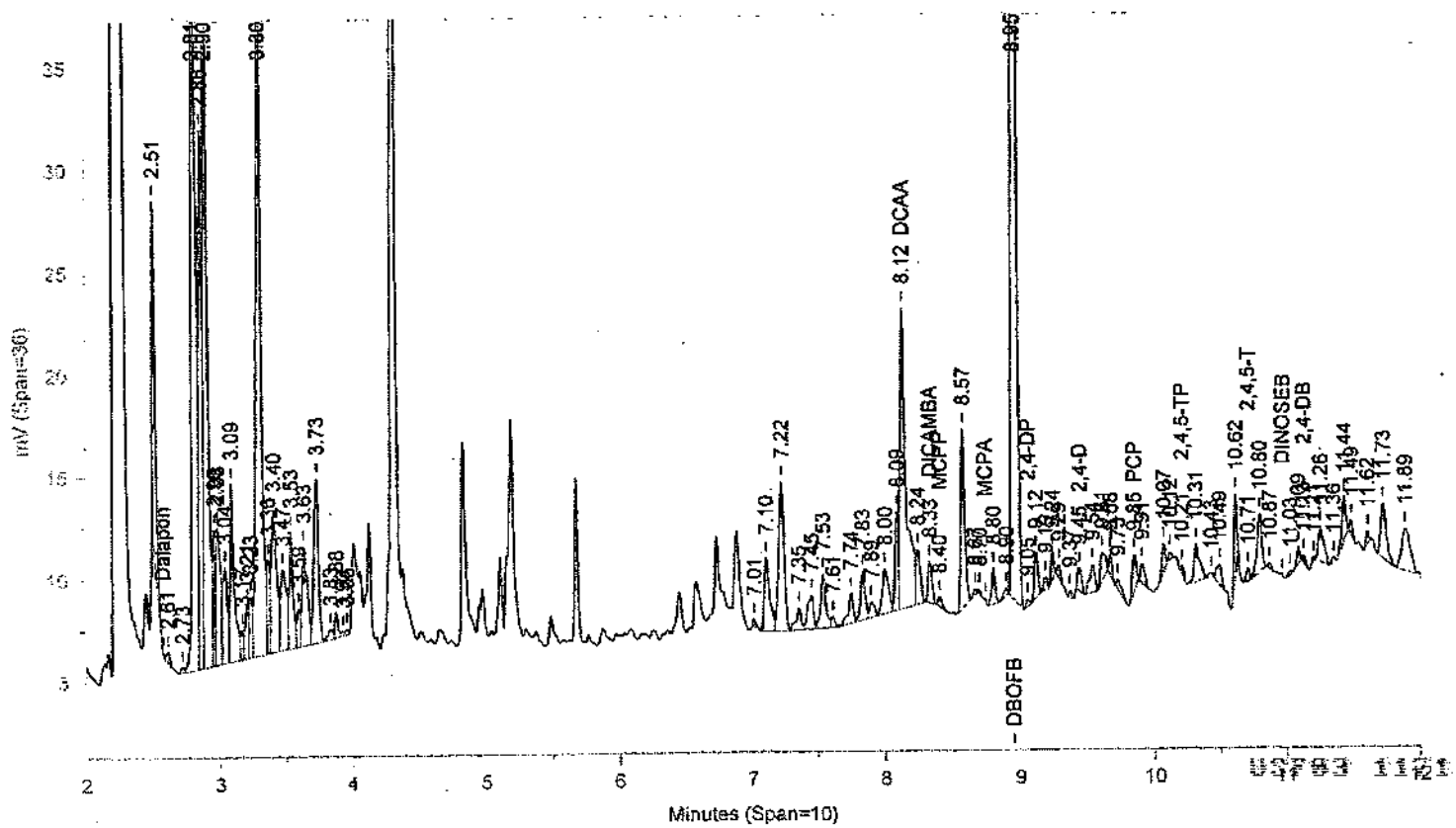
File: C:\CPWIN\DATA1\2H15193.34R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 12:13:58 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

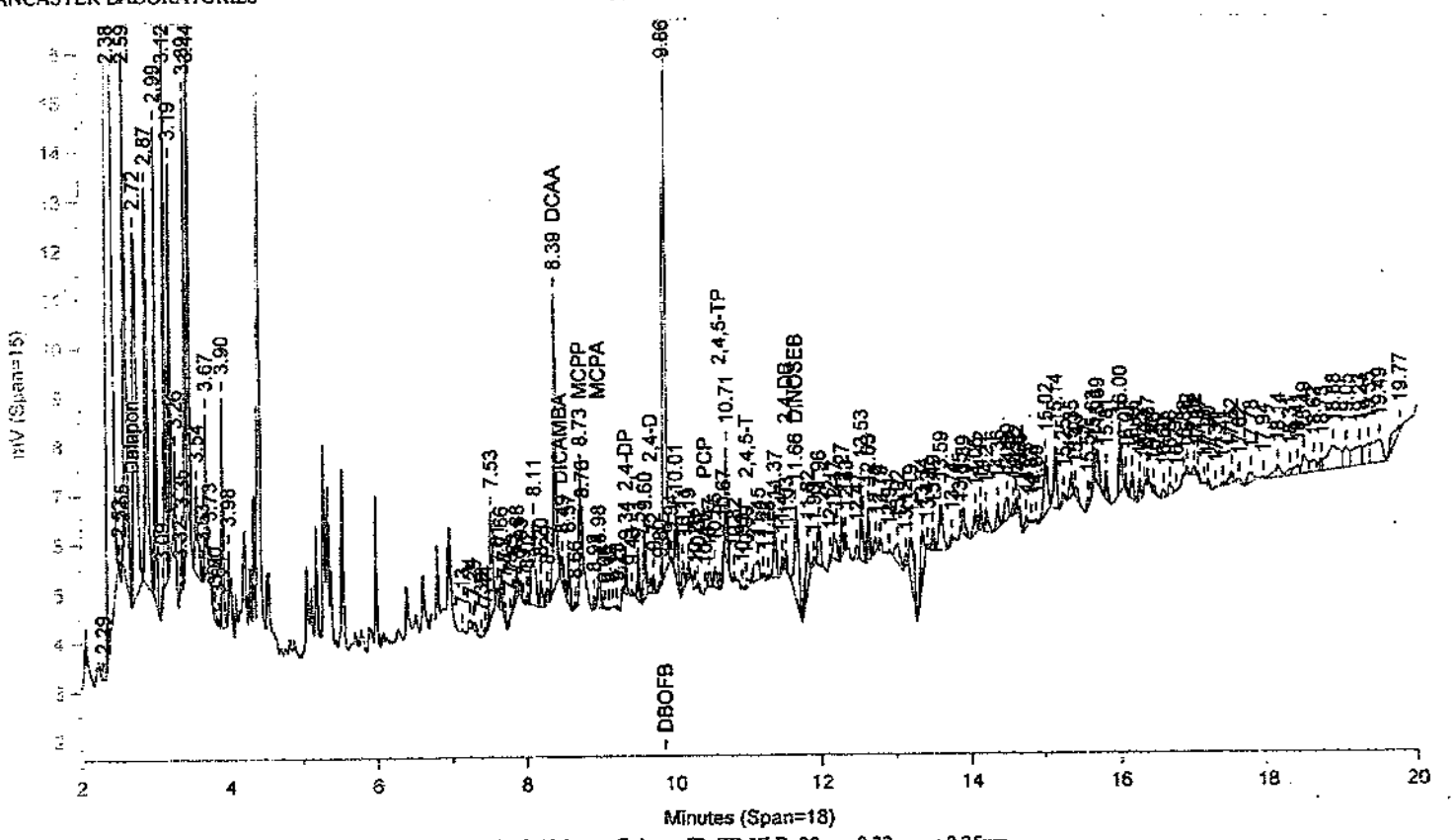
File: C:\CPWIN\DATA1\2H15193B.34R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 12:13:58 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

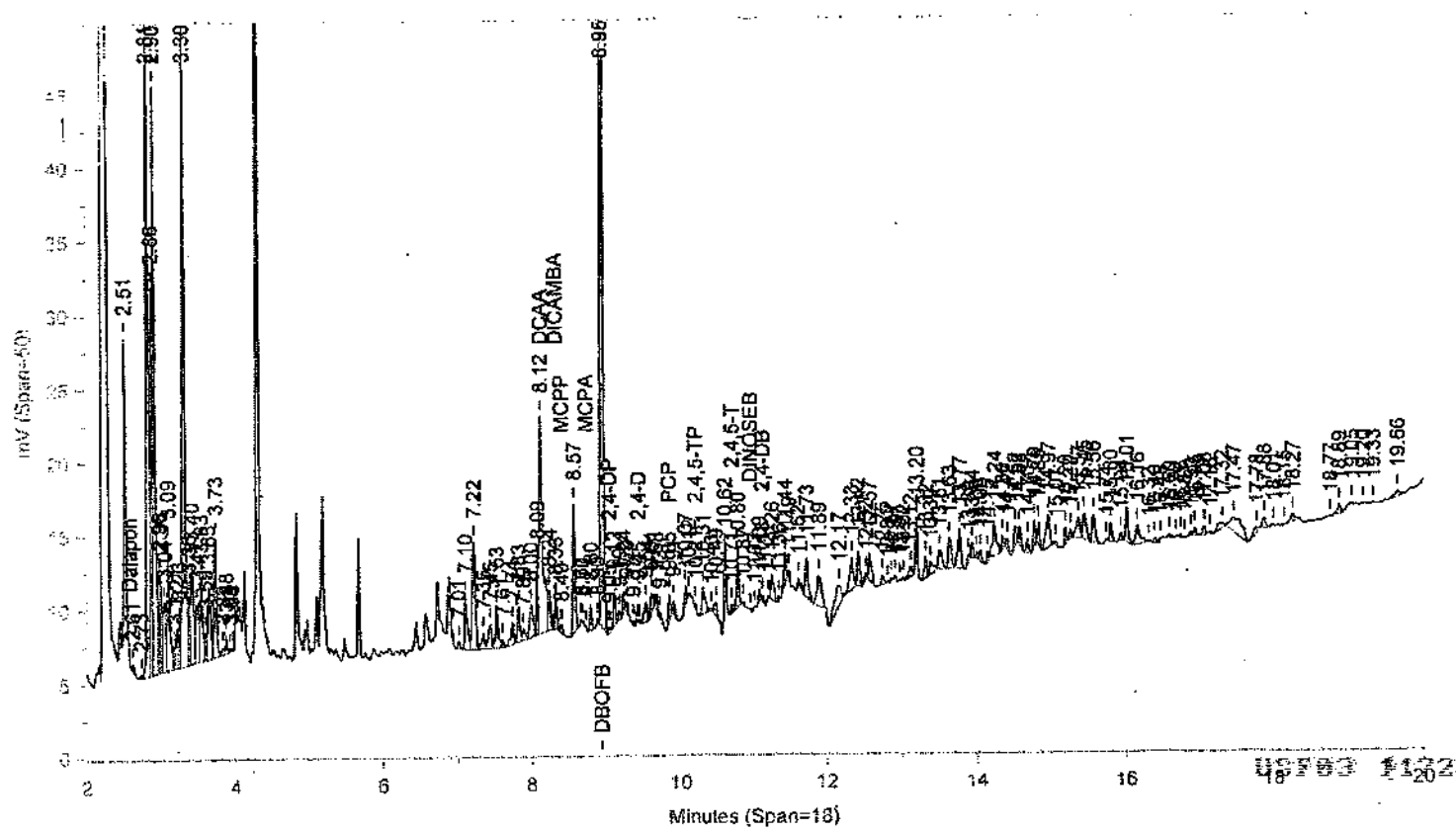
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.34R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 12:13:58 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.34R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 12:13:58 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
8.391	5999	5.499	DCAA	8.123	14745	5.286	DCAA
.	0	.	DICAMBA	8.327	2041	.192	DICAMBA
8.727	1830	385.761	MCPP	8.402	494	61.928	MCPP
9.86	33995	1.667	DBOFB	8.949	76083	1.667	DBOFB
8.98	815	119.868	MCPA	.	0	.	MCPA
9.344	616	.511	2,4-DP	9.054	380	.157	2,4-DP
.	0	.	2,4-D	9.445	1149	.362	2,4-D
10.412	53	.003	PCP	9.851	1851	.045	PCP
.	0	.	2,4,5-TP	10.207	438	.026	2,4,5-TP
10.988	189	.028	2,4,5-T	10.711	638	.04	2,4,5-T
11.527	423	.54	2,4-DB	11.133	370	.192	2,4-DB
11.659	1898	.436	DINOSEB	.	0	.	DINOSEB

Files:
Area File: C:\CPWIN\DATA1\2H15193.34A
Area File: C:\CPWIN\DATA1\2H15193B.34A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 12:34:04 AM
File Reported On: 7/15/2011 at 12:34:10 AM

Lancaster Laboratories-Single Component Data Summary

Sample Name: LCSA 7/13/11F LCS26193 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60 g Total Volume: 2 ml Analyst: 1145 SDG: State:
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 00:41:24
Instrument : CP15-H8456A
Result file : 2H15193.35R
Calibration file : 1H15193.CAL
Method file : HERW.MET

%SSR(DCAA) : 75.7% (36-156) Conc.: 5.046048

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.66	2.68	2.72	17556	10.727073
DCAA	8.36	8.39	8.42	5647	5.046048
DICAMBA	8.44	8.46	8.50	2984	0.660157
MCPP	8.72	8.73	8.78	3363	691.133850
MCPA	8.98	9.00	9.04	4834	693.276123
2,4-DP	9.34	9.36	9.40	9856	7.957014
2,4-D	9.65	9.67	9.71	9441	7.153018
DBOFB	9.84	9.86	9.90	34874	1.666667
PCP	10.40	10.42	10.46	15046	0.787871
2,4,5-TP	10.60	10.62	10.66	4327	0.601416
2,4,5-T	10.97	10.98	11.03	4565	0.655823
2,4-DB	11.51	11.52	11.57	5402	6.732481
DINOSEB	11.62	11.64	11.68	8003	1.793649

Analysis Report (B)

Injected on : JUL 15, 2011 00:41:24
Instrument : CP15-H8456B
Result file : 2H15193B.35R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET

%SSR(DCAA) : 80.5% (36-156) Conc.: 5.363667

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.55	2.57	2.61	31714	9.134473
DCAA	8.10	8.12	8.16	15255	5.363667
DICAMBA	8.31	8.33	8.37	8508	0.784592
MCPP	8.38	8.40	8.44	5198	638.677185
MCPA	8.72	8.74	8.78	7380	515.893677
DBOFB	8.93	8.95	8.99	77577	1.666667
2,4-DP	9.05	9.06	9.11	23212	9.398194
2,4-D	9.45	9.46	9.51	21691	6.708029
PCP	9.85	9.86	9.91	30830	0.740195
2,4,5-TP	10.21	10.23	10.27	10718	0.627049
2,4,5-T	10.67	10.68	10.73	9190	0.567223
DINOSEB	10.96	10.97	11.02	13187	1.388441
2,4-DB	11.12	11.14	11.18	11975	6.100119

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon	A	10.727073	9	4.4		16.04	
☐ DCAA	B	5.363667				6.10	
☑ DICAMBA	B	0.784592	<1.2	0.4	J	17.23	
☑ MCPP	A	691.133850	250	75		7.89	
☑ MCPA	A	693.276123	250	76		29.34	
☑ 2,4-DP	B	9.398194	1.7	0.8		16.61	
☑ 2,4-D	A	7.153018	3.6	1.2		6.42	
☐ DBOFB	A	1.666667				0.00	
☑ PCP	A	0.787871	0.17	0.033		6.24	
☑ 2,4,5-TP	B	0.627049	0.17	0.075		4.17	
☑ 2,4,5-T	A	0.655823	0.17	0.082		14.49	
☑ 2,4-DB	A	6.732481	1.7	0.62		9.86	
☑ DINOSEB	A	1.793649	<2.4	0.8	J	25.47	

Units: ug/kg

Reviewed by: 1145 Verified by:
Date: 7-17-11 Date: 7.19.11

USF03 1174

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD > 40

Printed on: 7/15/11 08:13:13

LANCASTER LABORATORIES

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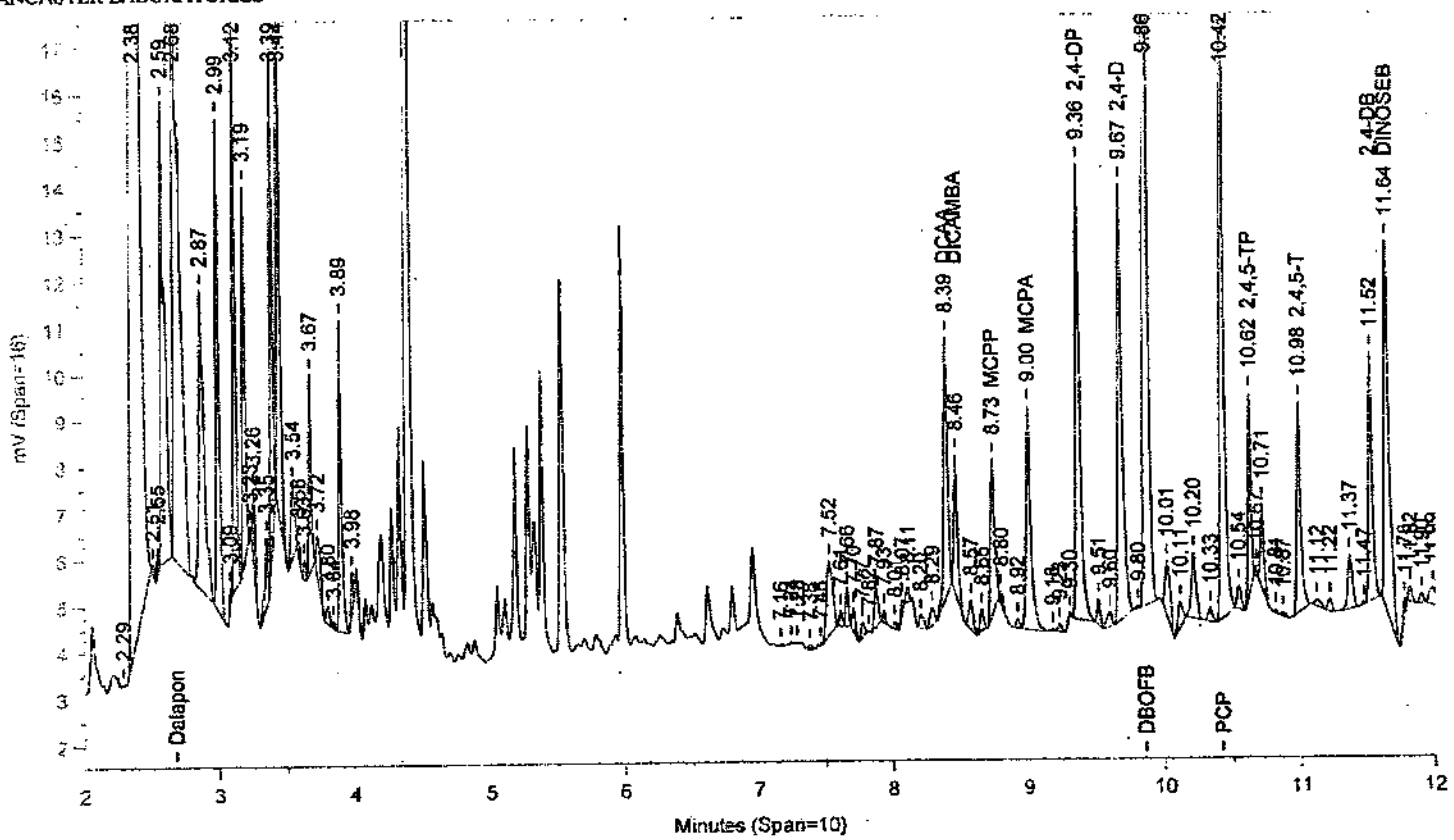
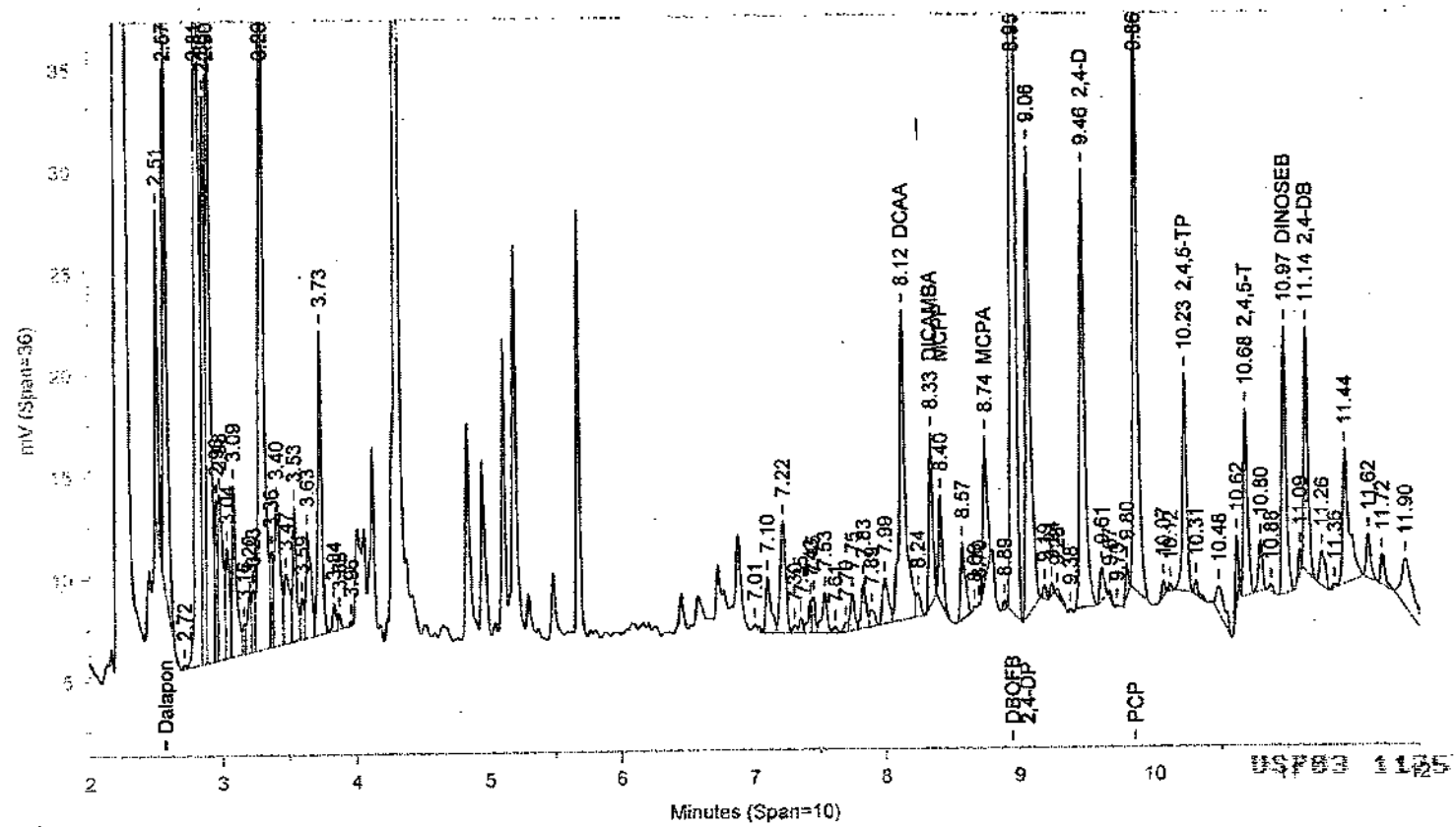


Instrument ID: CP15--H8456A Injected On: 7/15/2011 12:41:24 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

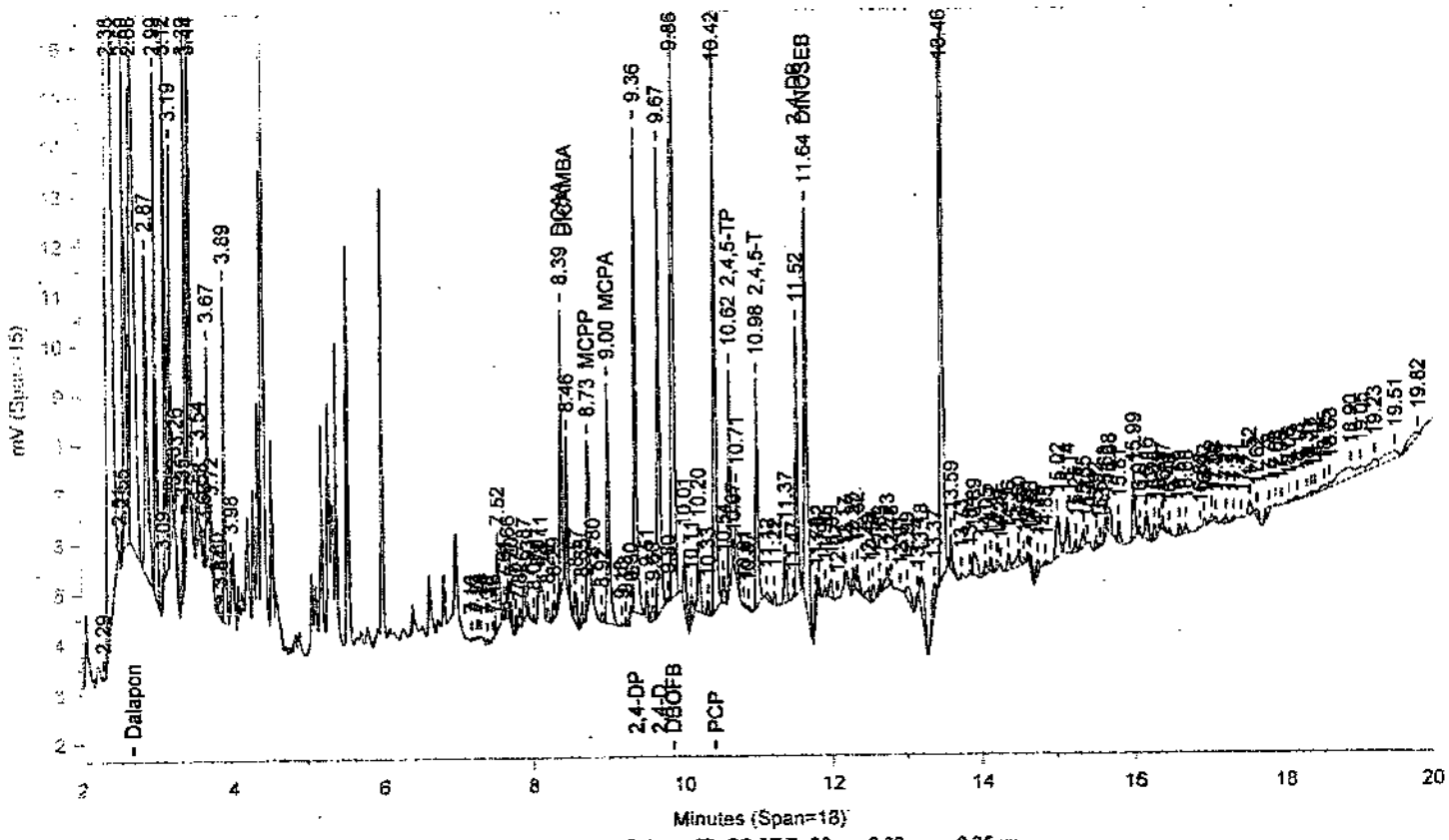
File: C:\CPWIN\DATA1\2H15193B.35R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 12:41:24 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

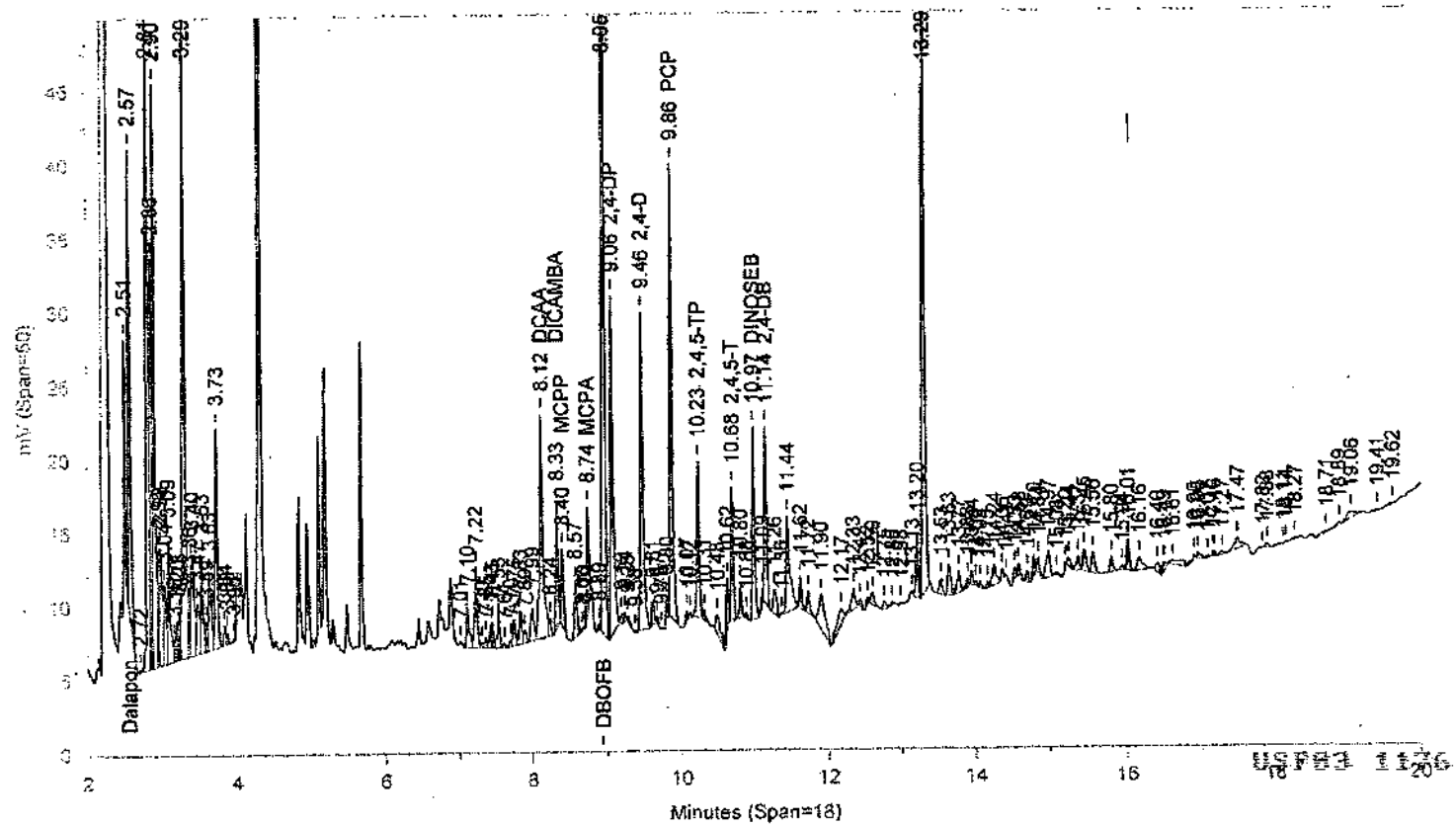
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.35R



Instrument ID: CP15–H8456A Injected On: 7/15/2011 12:41:24 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.35R



Instrument ID: CP15–H8456B Injected On: 7/15/2011 12:41:24 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holtVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.682	17556	10.727	Dalapon	2.572	31714	9.134	Dalapon
8.387	5647	5.046	DCAA	8.119	15255	5.364	DCAA
8.46	2984	.66	DICAMBA	8.331	8508	.785	DICAMBA
8.732	3363	691.134	MCPP	8.403	5198	638.677	MCPP
8.997	4834	693.276	MCPA	8.738	7380	515.894	MCPA
9.859	34874	1.667	DBOFB	8.948	77577	1.667	DBOFB
9.362	9856	7.957	2,4-DP	9.062	23212	9.398	2,4-DP
9.671	9441	7.153	2,4-D	9.465	21691	6.708	2,4-D
10.418	15046	.788	PCP	9.863	30830	.74	PCP
10.62	4327	.601	2,4,5-TP	10.225	10718	.627	2,4,5-TP
10.983	4565	.656	2,4,5-T	10.682	9190	.567	2,4,5-T
11.645	8003	1.794	DINOSEB	10.972	13187	1.388	DINOSEB
11.524	5402	6.732	2,4-DB	11.139	11975	6.1	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\2H15193.35A
Area File: C:\CPWIN\DATA1\2H15193B.35A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 1:01:30 AM
File Reported On: 7/15/2011 at 1:01:36 AM

USP03 1177

Lancaster Laboratories-Single Component Data Summary

Sample Name: LCSDA 7/13/11F LCSD26193 **Sample ID:** AB **Batchnumber:** 111930026A
Sample Amount: 60 g Total Volume: 2 ml Analyst: 1145 SDG: State:
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 01:08:47
Instrument : CP15--H8456A
Result file : 2H15193.36R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 83.4% (36-156) Conc.: 5.557218

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.66	2.68	2.72	16122	9.576215
DCAA	8.36	8.39	8.42	6398	5.557218
DICAMBA	8.44	8.46	8.50	3170	0.681659
MCPP	8.72	8.73	8.78	4145	827.925476
MCPA	8.98	9.00	9.04	5364	747.816101
2,4-DP	9.34	9.36	9.40	10997	8.630621
2,4-D	9.65	9.67	9.71	10515	7.744848
DBOFB	9.84	9.86	9.90	35875	1.666667
PCP	10.40	10.42	10.46	16995	0.865121
2,4,5-TP	10.60	10.62	10.66	4670	0.631043
2,4,5-T	10.97	10.98	11.03	5117	0.714674
2,4-DB	11.51	11.52	11.57	6076	7.361629
DINOSEB	11.62	11.65	11.68	8917	1.942893

Analysis Report (B)

Injected on : JUL 15, 2011 01:08:47
Instrument : CP15--H8456B
Result file : 2H15193B.36R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 88.9% (36-156) Conc.: 5.927775

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.55	2.57	2.61	37885	10.723450
DCAA	8.10	8.12	8.16	17156	5.927775
DICAMBA	8.31	8.33	8.37	10443	0.946362
MCPP	8.38	8.40	8.44	6009	725.531006
MCPA	8.72	8.74	8.78	7969	547.441956
DBOFB	8.93	8.95	8.99	78940	1.666667
2,4-DP	9.05	9.06	9.11	25954	10.327285
2,4-D	9.45	9.46	9.51	24733	7.516897
PCP	9.85	9.86	9.91	35655	0.841255
2,4,5-TP	10.21	10.22	10.27	11570	0.665184
2,4,5-T	10.67	10.68	10.73	10333	0.626734
DINOSEB	10.96	10.97	11.02	13184	1.364185
2,4-DB	11.12	11.14	11.18	12864	6.439821

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon	B	10.723450	9	4.4		11.30	
☐ DCAA	B	5.927775				6.45	
☑ DICAMBA	B	0.946362	<1.2	0.4	J	32.52	
☑ MCPP	A	827.925476	250	75		13.18	
☑ MCPA	A	747.816101	250	76		30.94	
☑ 2,4-DP	B	10.327285	1.7	0.8		17.90	
☑ 2,4-D	A	7.744848	3.6	1.2		2.99	
☐ DBOFB	A	1.666667				0.00	
☑ PCP	A	0.865121	0.17	0.033		2.80	
☑ 2,4,5-TP	B	0.665184	0.17	0.075		5.27	
☑ 2,4,5-T	A	0.714674	0.17	0.082		13.11	
☑ 2,4-DB	A	7.361629	1.7	0.62		13.36	
☑ DINOSEB	A	1.942893	<2.4	0.8	J	35.00	

Units: ug/kg

Reviewed by: 1145
Date: 7-17-11

Verified by:
Date: 7.19.11

USF83 1178

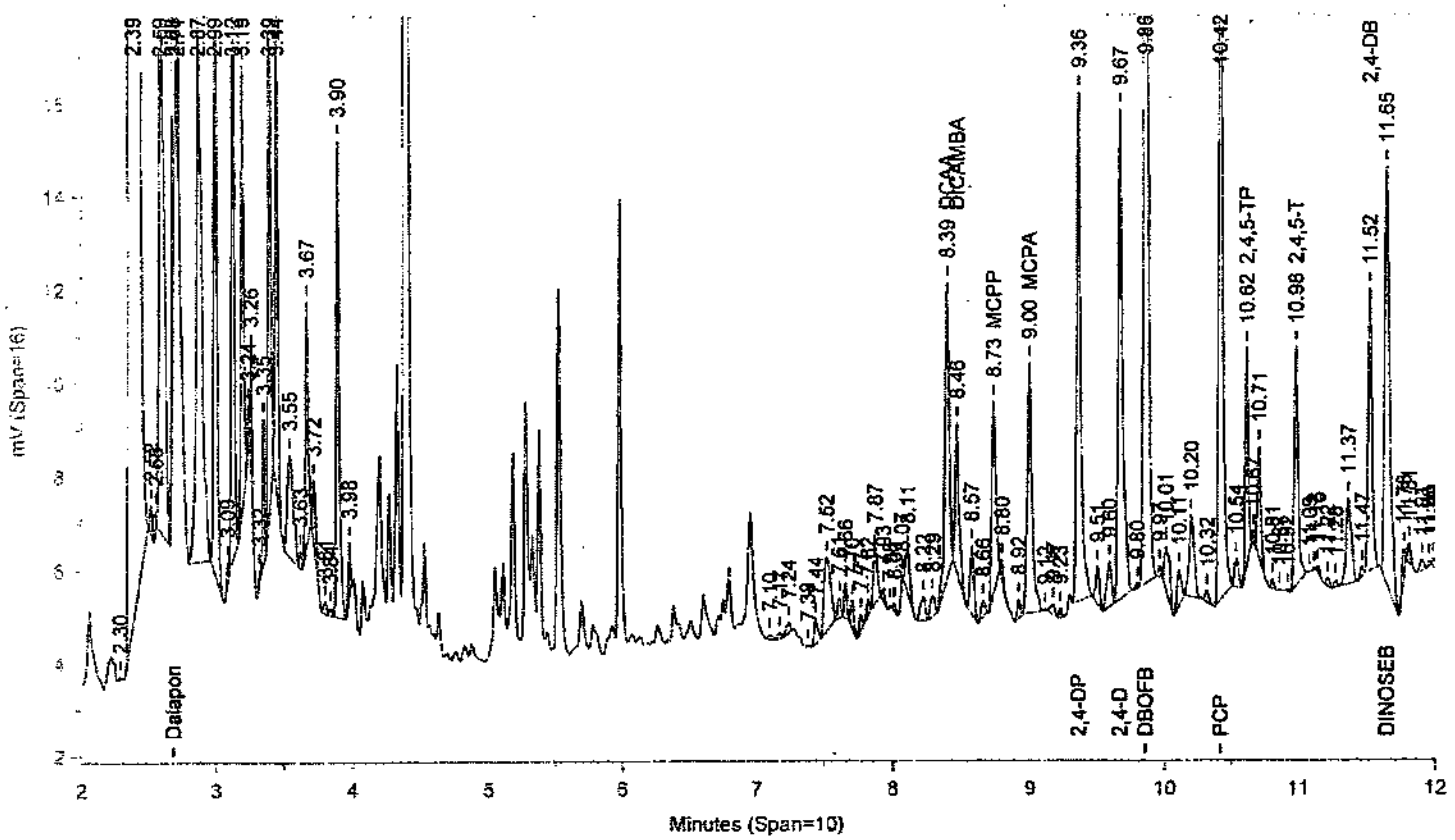
%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD > 40

Printed on: 7/15/11 08:13:28

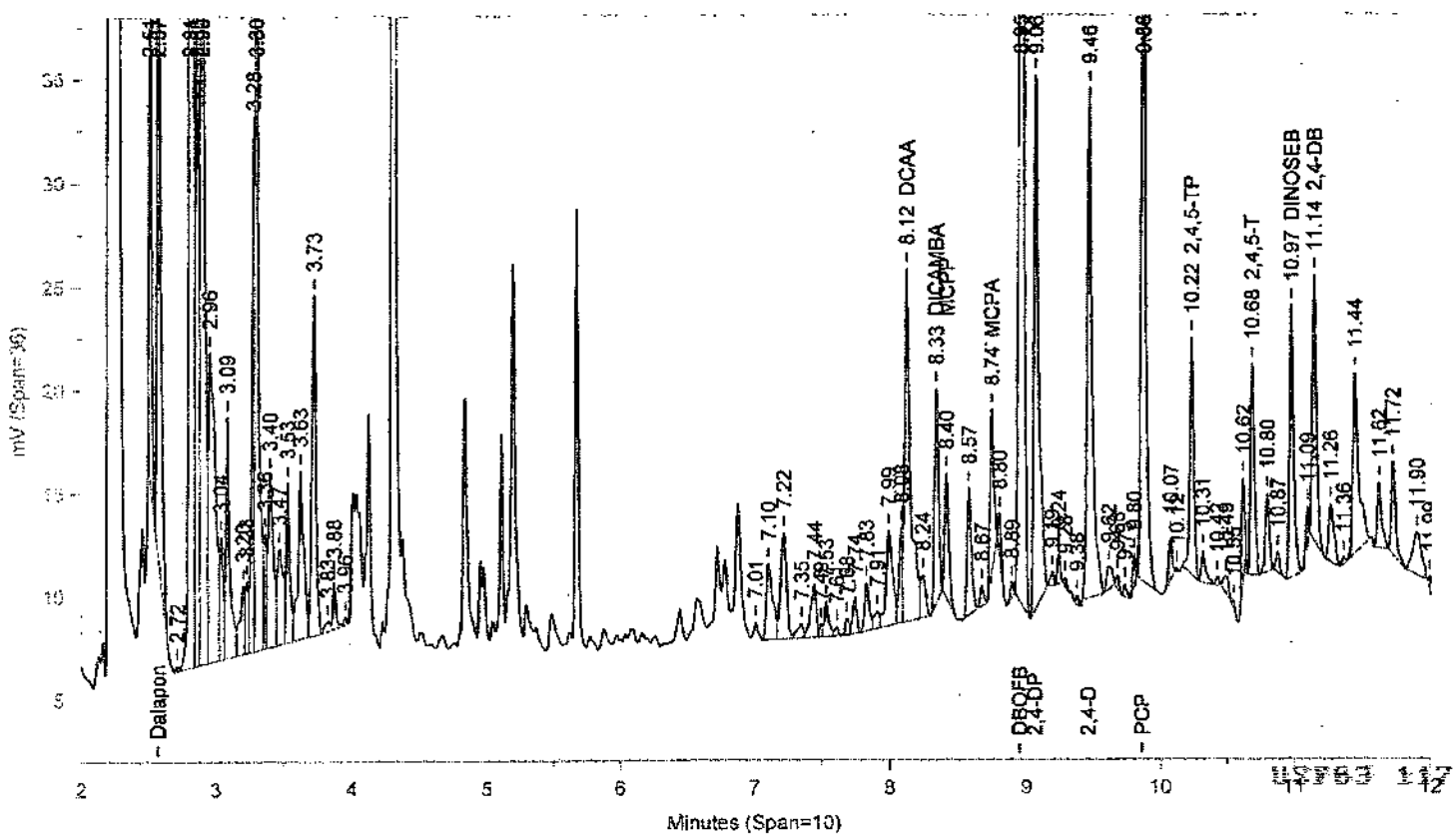
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.36R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 1:08:47 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

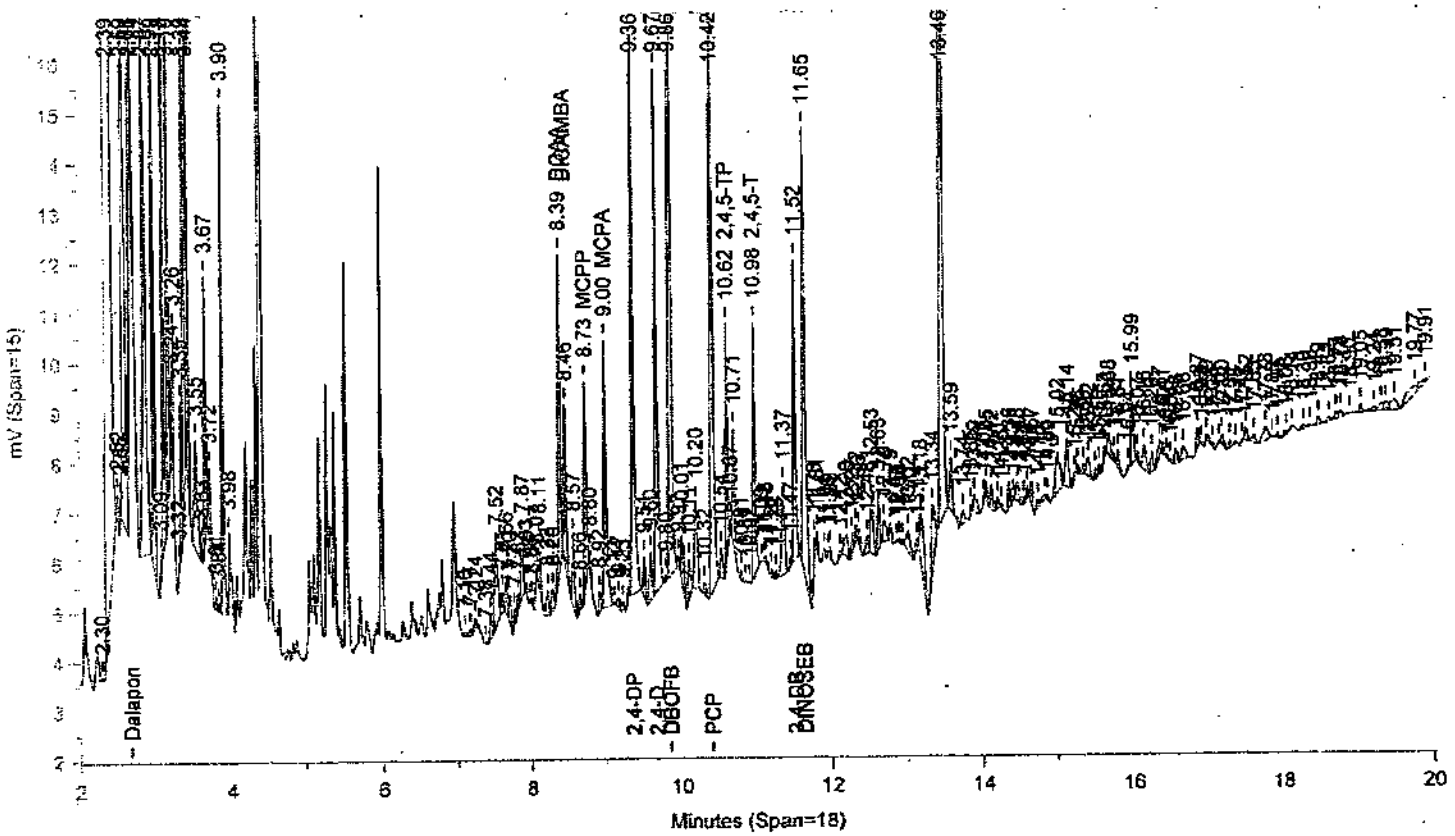
File: C:\CPWIN\DATA1\2H15193B.36R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 1:08:47 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

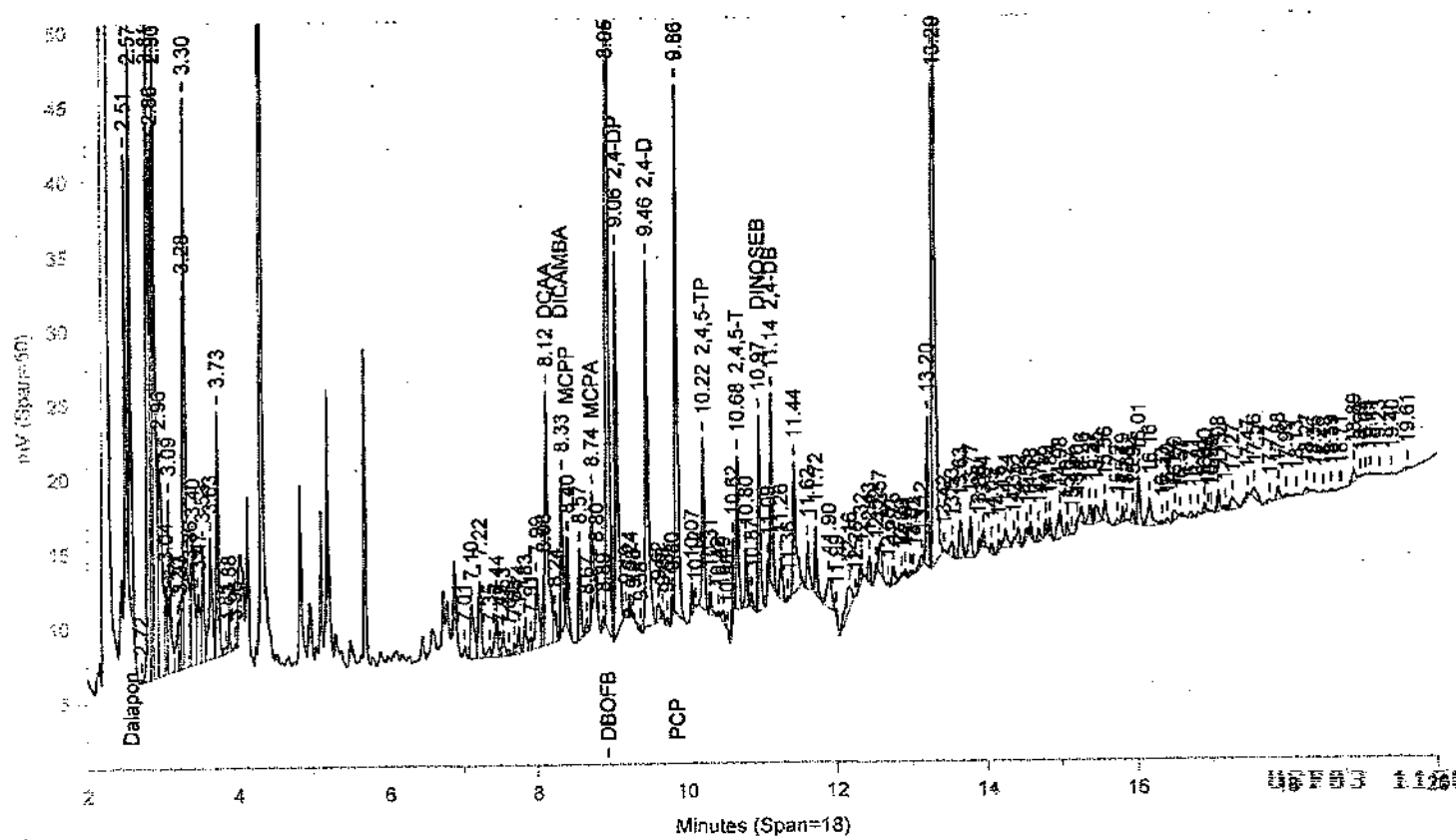
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.36R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 1:08:47 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.36R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 1:08:47 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; hokVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.683	16122	9.576	Dalapon	2.573	37885	10.723	Dalapon
8.387	6398	5.557	DCAA	8.118	17156	5.928	DCAA
8.46	3170	.682	DICAMBA	8.33	10443	.946	DICAMBA
8.732	4145	827.925	MCPP	8.403	6009	725.531	MCPP
8.997	5364	747.816	MCPA	8.739	7969	547.442	MCPA
9.858	35875	1.667	DBOFB	8.948	78940	1.667	DBOFB
9.361	10997	8.631	2,4-DP	9.061	25954	10.327	2,4-DP
9.67	10515	7.745	2,4-D	9.464	24733	7.517	2,4-D
10.418	16995	.865	PCP	9.862	35655	.841	PCP
10.619	4670	.631	2,4,5-TP	10.225	11570	.665	2,4,5-TP
10.983	5117	.715	2,4,5-T	10.682	10333	.627	2,4,5-T
11.647	8917	1.943	DINOSEB	10.973	13184	1.364	DINOSEB
11.525	6076	7.362	2,4-DB	11.139	12864	6.44	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\2H15193.36A
Area File: C:\CPWIN\DATA1\2H15193B.36A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 1:28:54 AM
File Reported On: 7/15/2011 at 1:29:00 AM

USF83 1181

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339378MSF 82S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60.4 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 05:15:08
Instrument : CP15--H8456A
Result file : 2H15193.45R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 73.9% (36-156) Conc.: 4.893643

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.65	2.68	2.72	15460	9.333952
DCAA	8.36	8.38	8.42	5543	4.893643
DICAMBA	8.44	8.45	8.50	2716	0.593642
MCPP	8.72	8.73	8.78	3374	685.119690
MCPA	8.98	8.99	9.04	4534	642.540833
2,4-DP	9.34	9.36	9.40	8816	7.032856
2,4-D	9.65	9.66	9.71	9236	6.914140
DBOFB	9.84	9.85	9.90	35061	1.655629
PCP	10.40	10.41	10.46	13198	0.682846
2,4,5-TP	10.60	10.61	10.66	3764	0.516928
2,4,5-T	10.97	10.97	11.03	8888	1.261750
2,4-DB	11.51	11.54	11.57	27553 E	33.931309
DINOSEB	11.62	11.64	11.68	6127	1.357020

Analysis Report (B)

Injected on : JUL 15, 2011 05:15:08
Instrument : CP15--H8456B
Result file : 2H15193B.45R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 82% (36-156) Conc.: 5.433282

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.55	2.57	2.61	23698	6.802552
DCAA	8.10	8.11	8.16	15506	5.433282
DICAMBA	8.31	8.33	8.37	11209	1.030174
MCPP	8.38	8.40	8.44	4625	566.391968
MCPA	8.72	8.73	8.78	8494	591.758057
DBOFB	8.93	8.94	8.99	77324	1.655629
2,4-DP	9.05	9.06	9.11	22392	9.035625
2,4-D	9.45	9.46	9.51	21010	6.475769
PCP	9.85	9.86	9.91	31360	0.750373
2,4,5-TP	10.21	10.22	10.27	10628	0.619658
2,4,5-T	10.67	10.68	10.73	6575	0.404482
DINOSEB	10.96	10.97	11.02	13585	1.425495
2,4-DB	11.12	11.15	11.18	14519	7.371040

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dalapon	A	9.333952	8.9404	4.3709		31.37	
☐ DCAA	B	5.433282				10.45	
☑ DICAMBA	A	0.593642	<1.1921	0.3974	J	53.77	**
☑ MCPP	A	685.119690	248.345	74.5035		18.97	
☑ MCPA	A	642.540833	248.345	75.4969		8.23	
☑ 2,4-DP	B	9.035625	1.6887	0.7947		24.93	
☑ 2,4-D	A	6.914140	3.5762	1.1921		6.55	
☐ DBOFB	A	1.655629				0.00	
☐ PCP	B	0.750373	0.1689	0.0328		9.42	
☑ 2,4,5-TP	B	0.619658	0.1689	0.0745		18.08	
☑ 2,4,5-T	B	0.404482	0.1689	0.0815		102.90	**
☑ 2,4-DB	B	7.371040	1.6887	0.6159		128.61	**
☑ DINOSEB	B	1.425495	<2.3841	0.7947	J	4.92	

Units: ug/kg

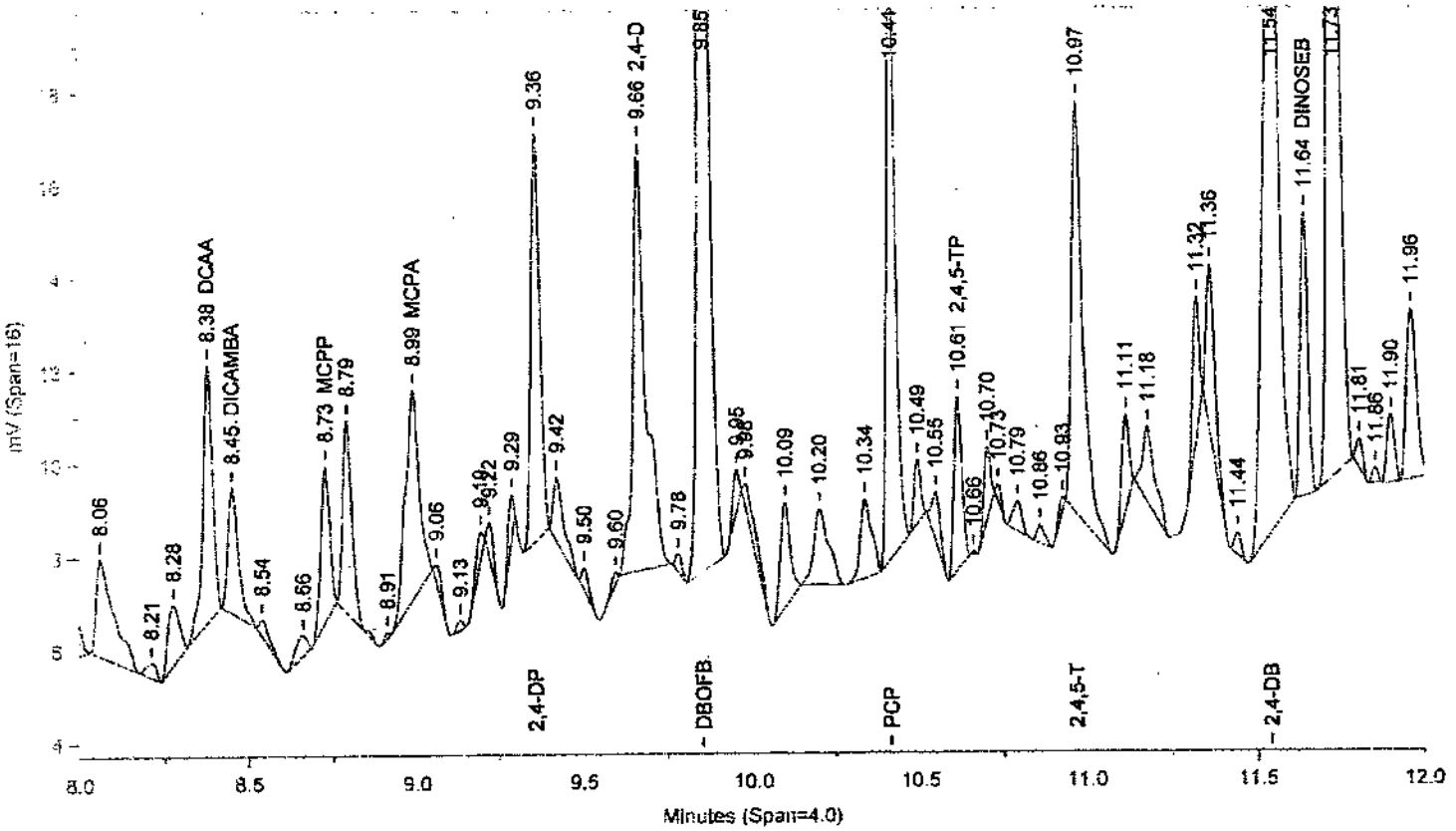
Reviewed by: 1145 Verified by:
Date: 7-17-11 Date:

USF03 1182

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

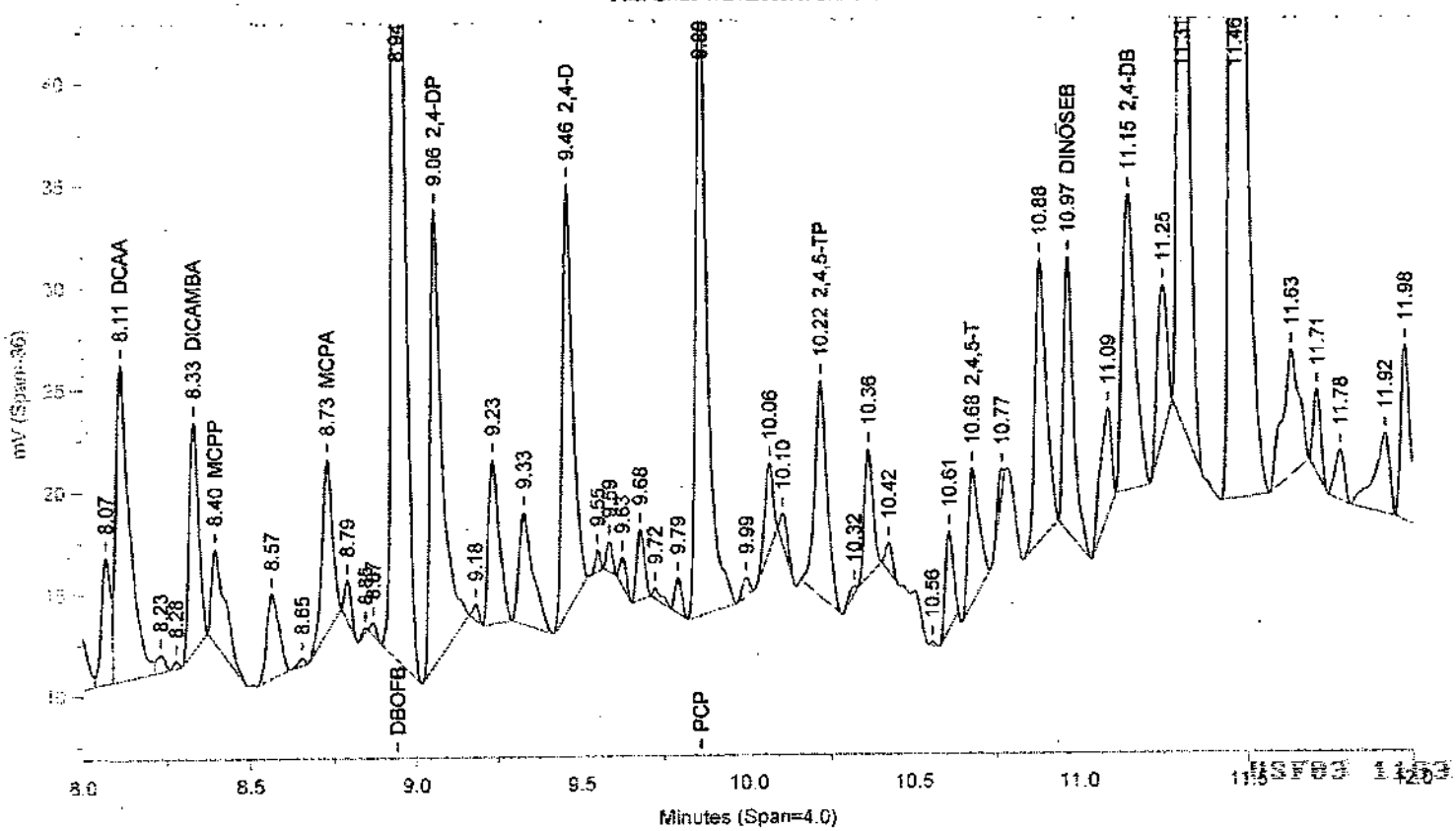
Printed on: 7/15/11 08:15:24

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\2H15193.45R



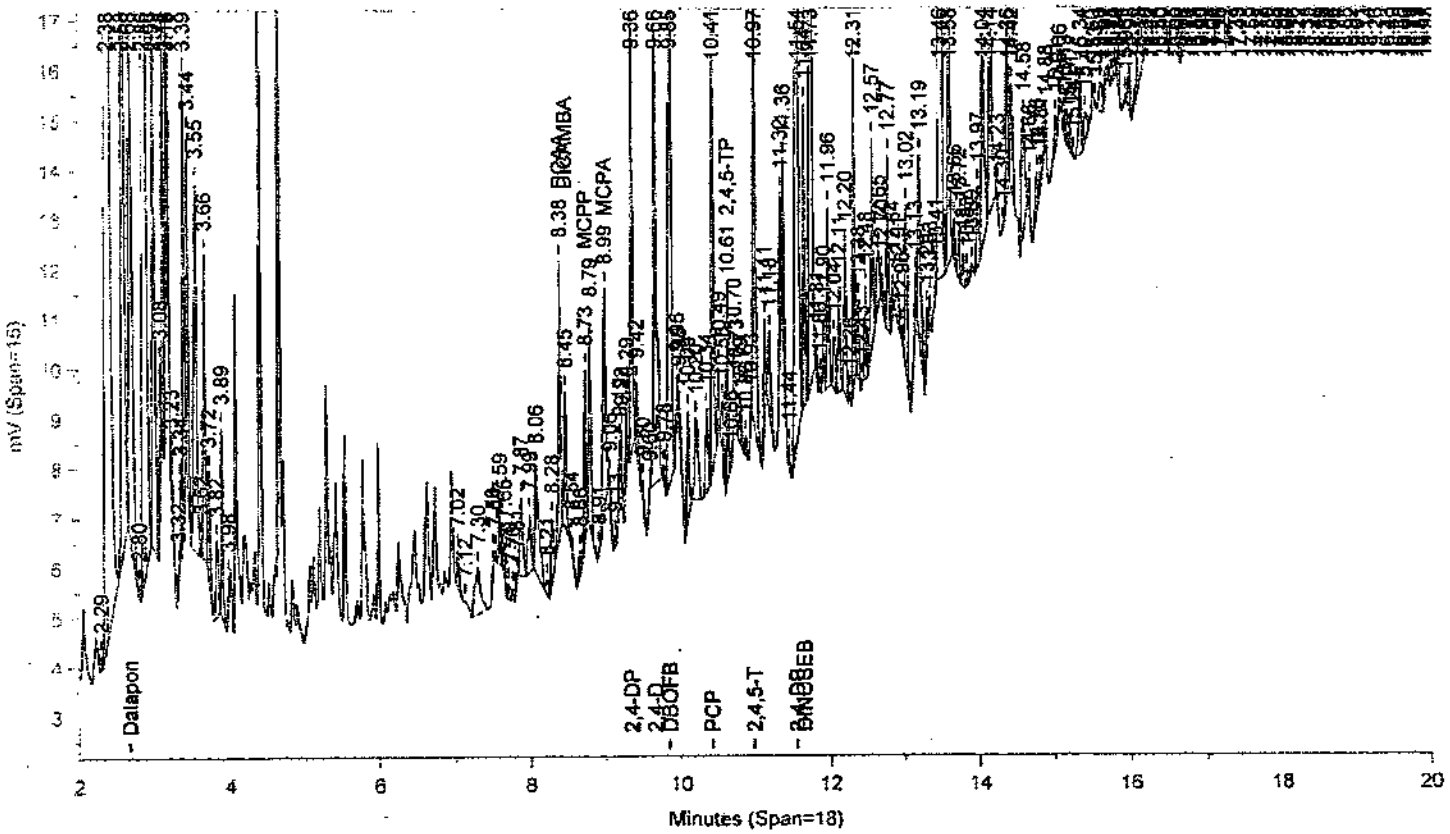
Instrument ID: CP15--H8456A Injected On: 7/15/2011 5:15:08 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.45R



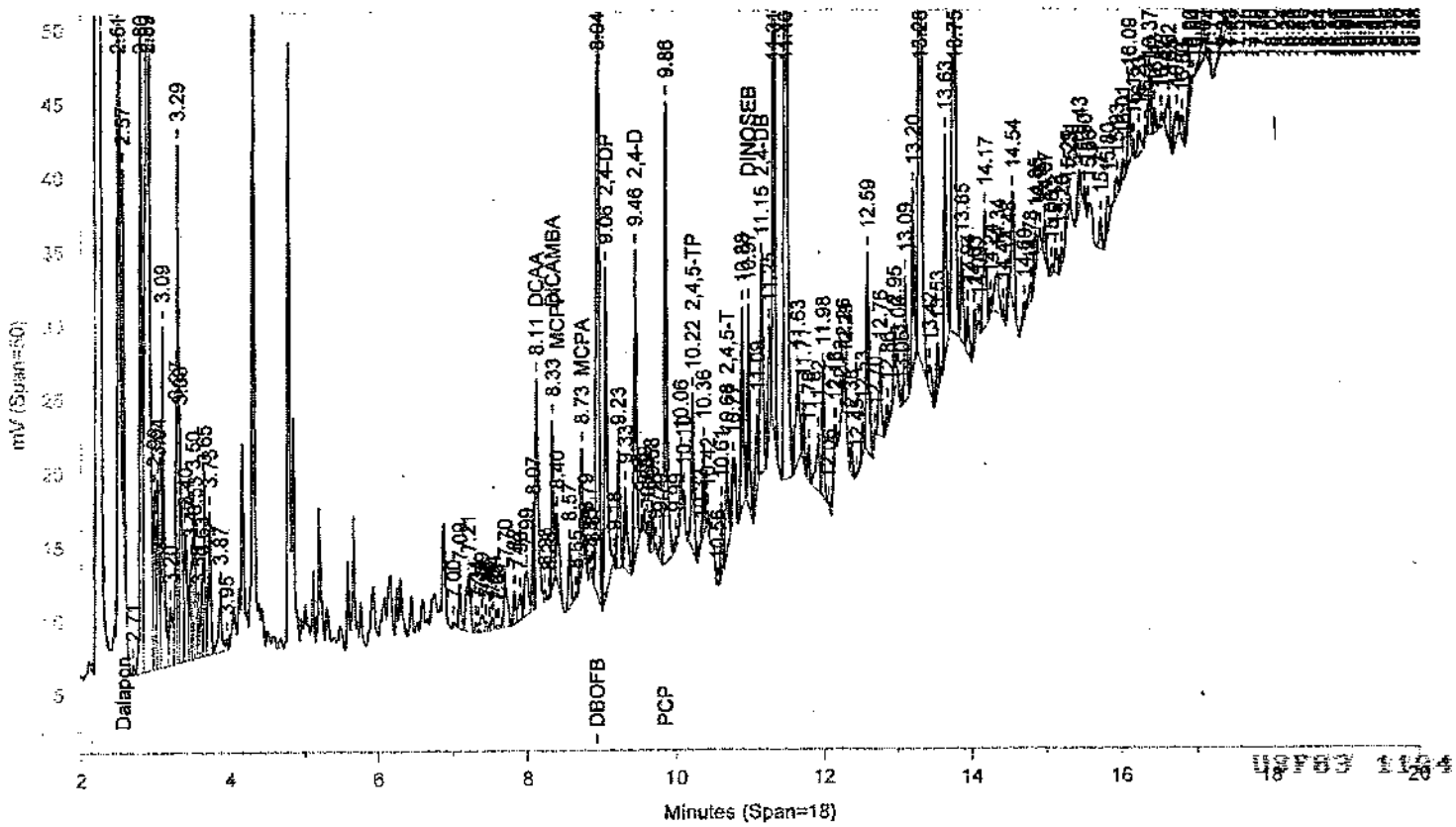
Instrument ID: CP15--H8456B Injected On: 7/15/2011 5:15:08 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\2H15193.45R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 5:15:08 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.45R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 5:15:08 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holdVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60.4 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.679	15460	9.334	Dalapon	2.568	23698	6.803	Dalapon
8.381	5543	4.894	DCAA	8.114	15506	5.433	DCAA
8.454	2716	.594	DICAMBA	8.333	11209	1.03	DICAMBA
8.727	3374	685.12	MCPP	8.397	4625	566.392	MCPP
8.991	4534	642.541	MCPA	8.731	8494	591.758	MCPA
9.854	35061	1.656	DBOFB	8.943	77324	1.656	DBOFB
9.356	8816	7.033	2,4-DP	9.057	22392	9.036	2,4-DP
9.663	9236	6.914	2,4-D	9.457	21010	6.476	2,4-D
10.413	13198	.683	PCP	9.858	31360	.75	PCP
10.614	3764	.517	2,4,5-TP	10.219	10628	.62	2,4,5-TP
10.971	8888	1.262	2,4,5-T	10.679	6575	.404	2,4,5-T
11.639	6127	1.357	DINOSEB	10.969	13585	1.425	DINOSEB
11.541	27553	33.931	2,4-DB	11.145	14519	7.371	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\2H15193.45A
Area File: C:\CPWIN\DATA1\2H15193B.45A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 5:35:14 AM
File Reported On: 7/15/2011 at 5:35:20 AM

USPB3 1185

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339379 MSDF 82S05 Sample ID: AB **Batchnumber: 111930026A**
Sample Amount: 60.4 g Total Volume: 2 ml Analyst: 1145 SDG: USF03 State: CA
Analyses: 10401

Analysis Report (A)

Injected on : JUL 15, 2011 05:42:29
Instrument : CP15-H8456A
Result file : 2H15193.46R
Calibration file : 1H15193.CAL
Method file : HERW.MET
%SSR(DCAA) : 75.2% (36-156) Conc.: 4.978388

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.66	2.68	2.72	14794	8.797429
DCAA	8.36	8.38	8.42	5725	4.978388
DICAMBA	8.44	8.45	8.50	2586	0.556769
MCPP	8.72	8.73	8.78	3115	622.884155
MCPA	8.98	8.99	9.04	3949	551.159546
2,4-DP	9.34	9.36	9.40	8347	6.558161
2,4-D	9.65	9.66	9.71	7780	5.736962
DBOFB	9.84	9.85	9.90	35598	1.655629
PCP	10.40	10.41	10.46	13182	0.671749
2,4,5-TP	10.60	10.61	10.66	3627	0.490605
2,4,5-T	10.97	10.97	11.03	10957	1.531975
2,4-DB	11.51	11.54	11.57	37076 E	44.970390
DINOSEB	11.62	11.64	11.68	5573	1.215684

Analysis Report (B)

Injected on : JUL 15, 2011 05:42:29
Instrument : CP15-H8456B
Result file : 2H15193B.46R
Calibration file : 1H15193B.CAL
Method file : HERWB.MET
%SSR(DCAA) : 80.7% (36-156) Conc.: 5.343011

Peak name	Min	R.T.	Max	Height	Amount
Dalapon	2.55	2.57	2.61	21250	6.102620
DCAA	8.10	8.11	8.16	15241	5.343011
DICAMBA	8.31	8.33	8.37	12451	1.144813
MCPP	8.38	8.40	8.44	4542	556.453247
MCPA	8.72	8.73	8.78	8566	597.005798
DBOFB	8.93	8.94	8.99	77291	1.655629
2,4-DP	9.05	9.06	9.11	21359	8.622598
2,4-D	9.45	9.46	9.51	22035	6.794500
PCP	9.85	9.86	9.91	32451	0.776807
2,4,5-TP	10.21	10.22	10.27	10521	0.613725
2,4,5-T	10.67	10.68	10.73	6551	0.403118
DINOSEB	10.96	10.97	11.02	10810	1.134765
2,4-DB	11.12	11.15	11.18	16842	8.553646

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference		Comments
☑ Dalapon	A	8.797429	<8.9404	4.3709	J	36.17		
☐ DCAA	B	5.343011				7.07		
☑ DICAMBA	A	0.556769	<1.1921	0.3974	J	69.12	**	
☑ MCPP	A	622.884155	248.345	74.5035		11.27		
☑ MCPA	B	597.005798	248.345	75.4969		7.99		
☑ 2,4-DP	B	8.622598	1.6887	0.7947		27.20		
☑ 2,4-D	B	6.794500	3.5762	1.1921		16.88		
☐ DBOFB	A	1.655629				0.00		
☐ PCP	B	0.776807	0.1689	0.0328		14.51		
☑ 2,4,5-TP	B	0.613725	0.1689	0.0745		22.30		
☑ 2,4,5-T	B	0.403118	0.1689	0.0815		116.67	**	
☑ 2,4-DB	B	8.553646	1.6887	0.6159		136.08	**	
☑ DINOSEB	A	1.215684	<2.3841	0.7947	J	6.89		

Units: ug/kg

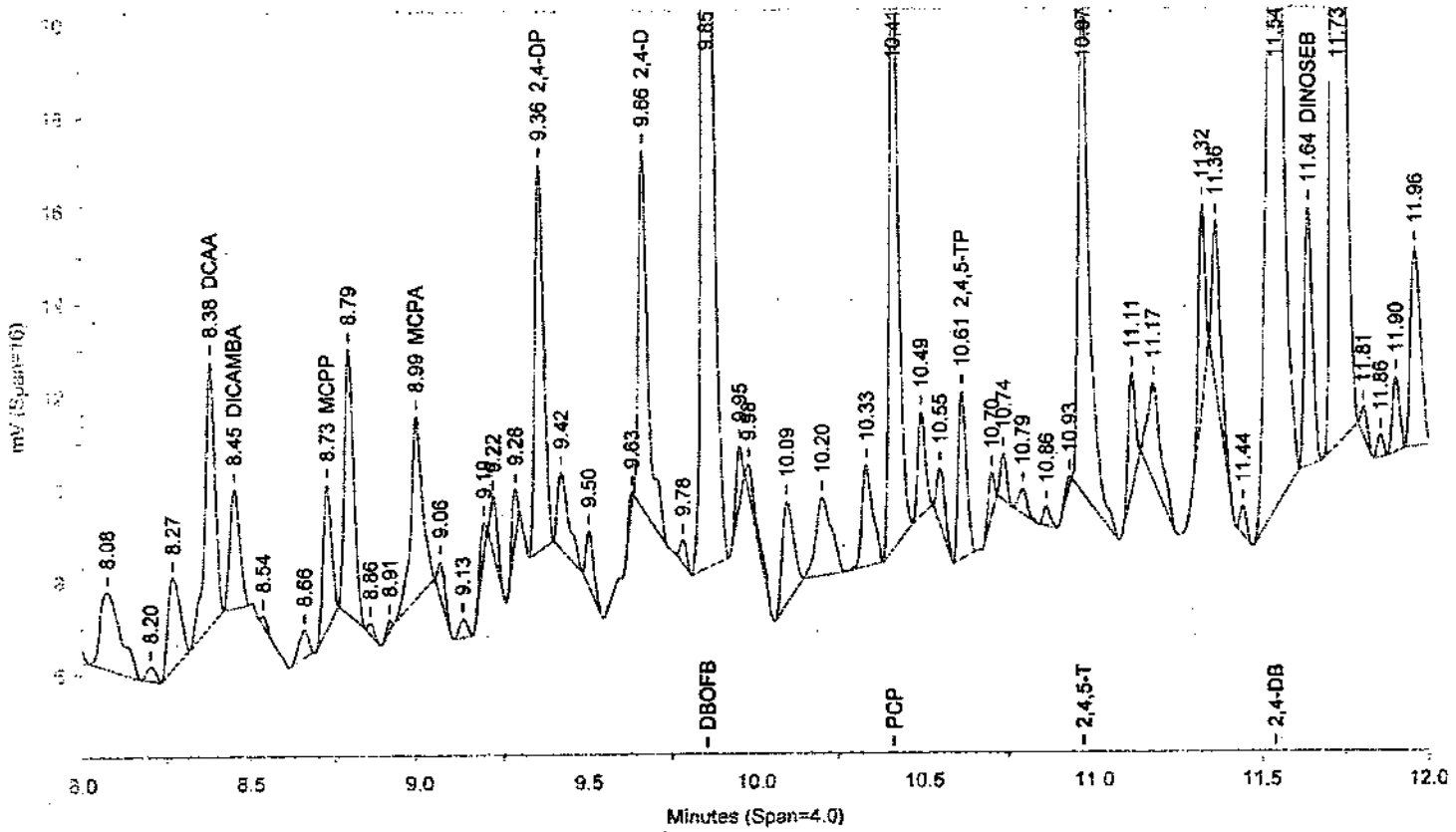
Reviewed by: 1145 Verified by:
Date: 7-17-11 Date:

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/15/11 08:15:40

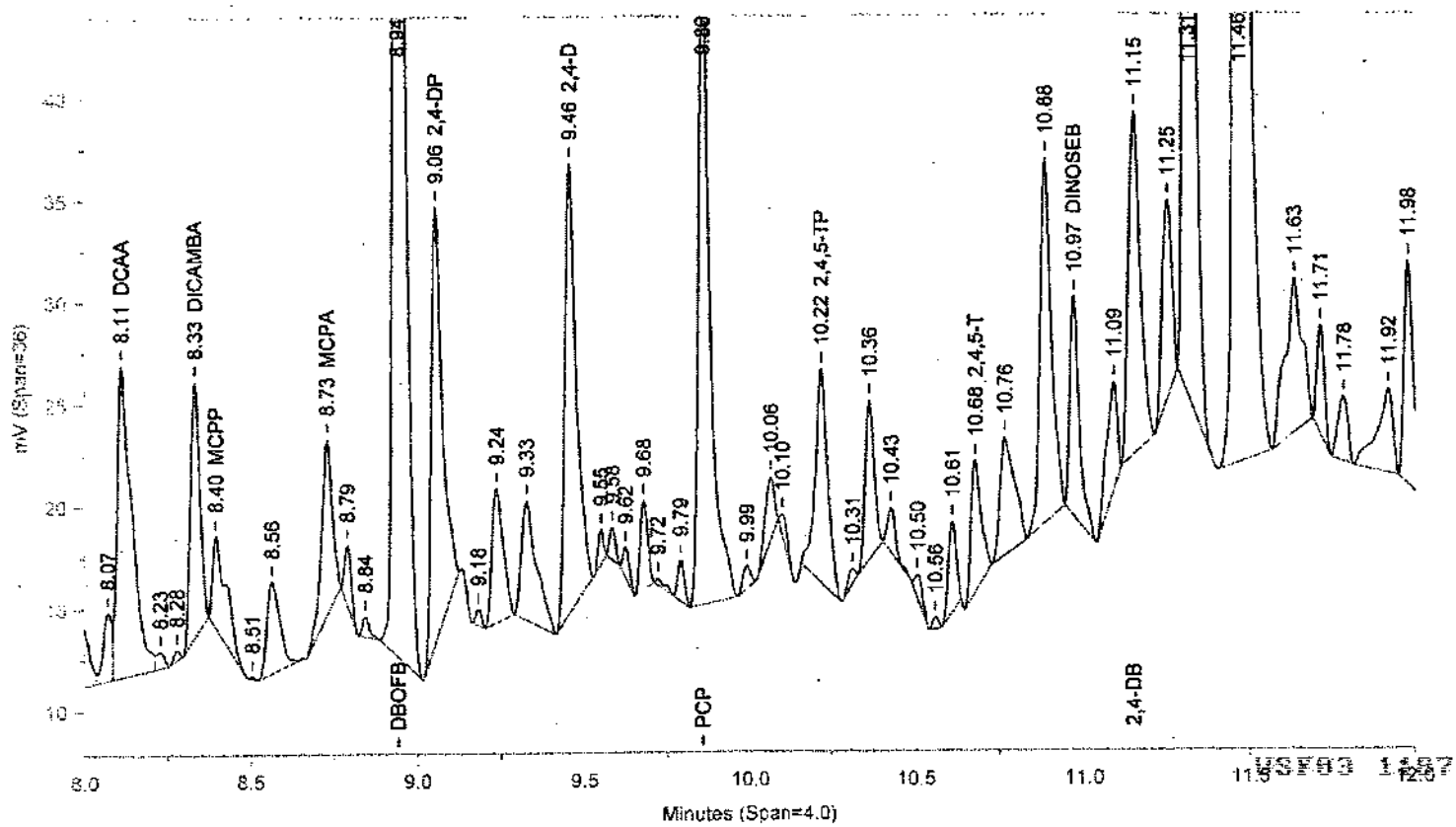
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.46R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 5:42:29 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

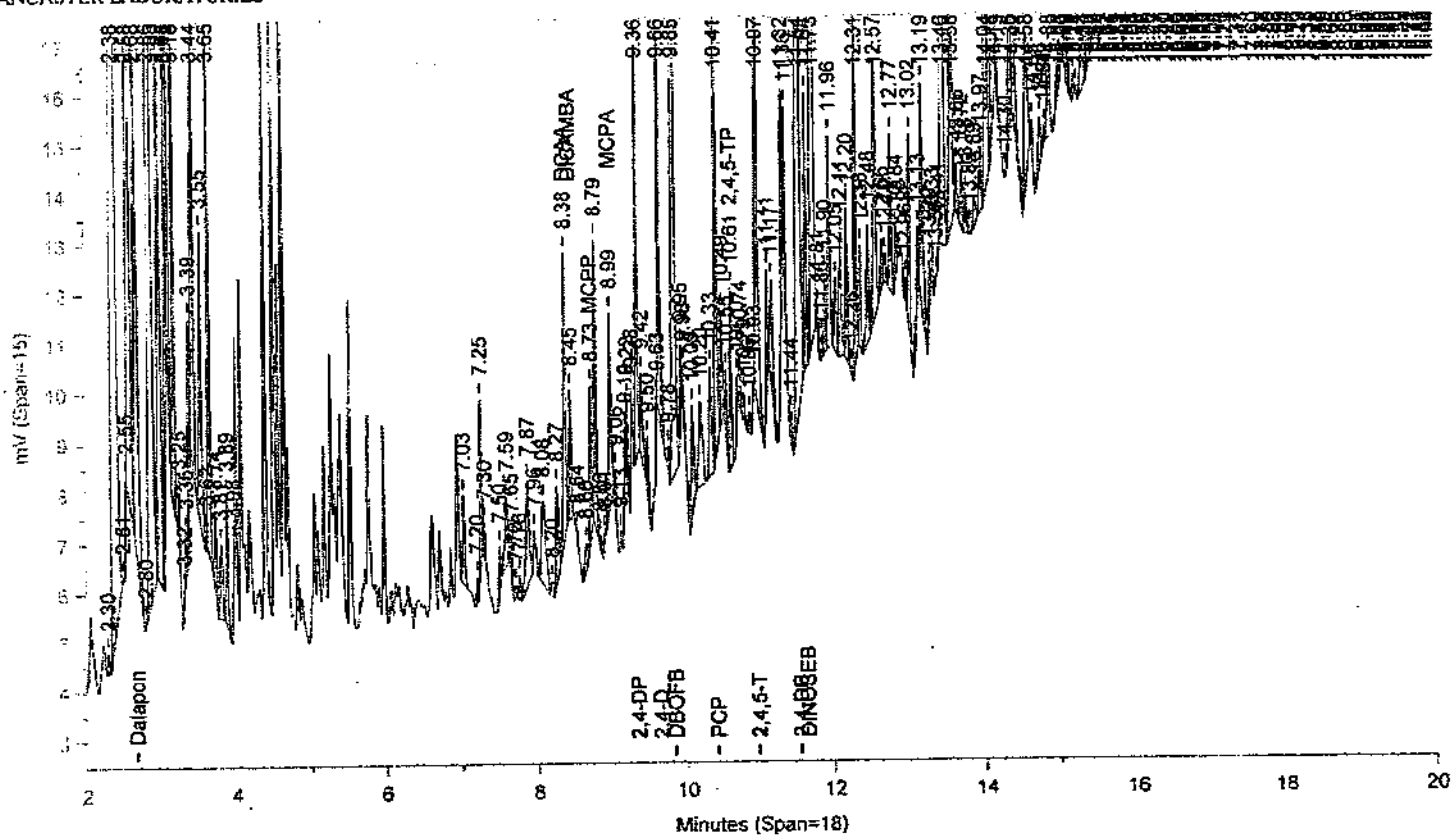
File: C:\CPWIN\DATA1\2H15193B.46R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 5:42:29 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

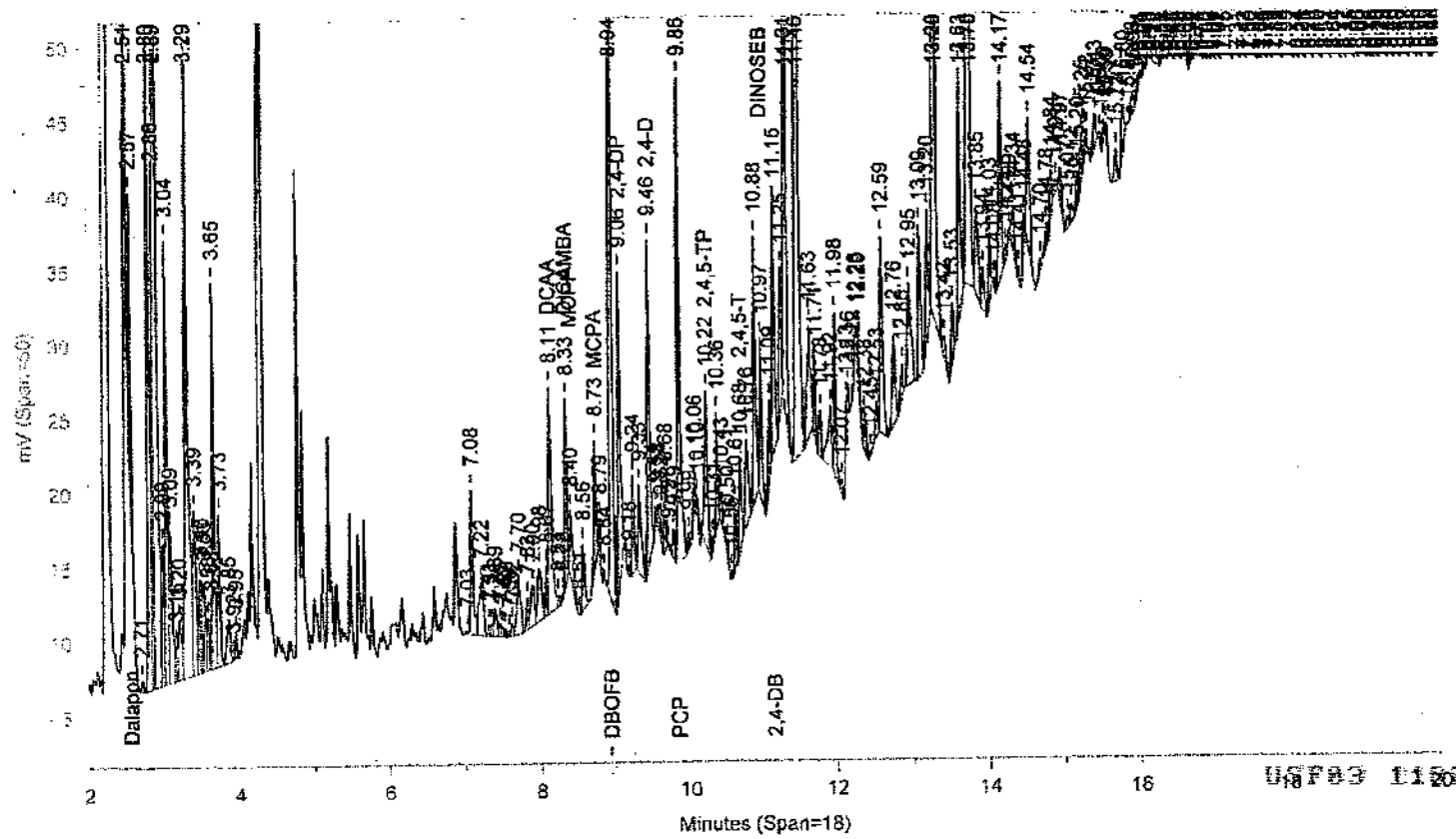
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\2H15193.46R



Instrument ID: CP15--H8456A Injected On: 7/15/2011 5:42:29 AM Column ID: ZB-XLB, 30m x 0.32mm x 0.25um

File: C:\CPWIN\DATA1\2H15193B.46R



Instrument ID: CP15--H8456B Injected On: 7/15/2011 5:42:29 AM Column ID: ZB-35, 30m x 0.32mm x 0.25um

Oven Parameters: 50C hold 0.5 min; 25c/min to 100c; 12c/min to 310c; holcVolume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Detector B Parameters:
Threshold: 2 Width: 0.03 Area Reject: 0
Calibration Type: Internal Quantitation: Height

Sample Weight: 60.4 Dilution Factor: 2
Analyst: 1145

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.679	14794	8.797	Dalapon	2.569	21250	6.103	Dalapon
8.38	5725	4.978	DCAA	8.114	15241	5.343	DCAA
8.453	2586	.557	DICAMBA	8.333	12451	1.145	DICAMBA
8.727	3115	622.884	MCPP	8.396	4542	556.453	MCPP
8.992	3949	551.16	MCPA	8.73	8566	597.006	MCPA
9.854	35598	1.656	DBOFB	8.943	77291	1.656	DBOFB
9.356	8347	6.558	2,4-DP	9.056	21359	8.623	2,4-DP
9.662	7780	5.737	2,4-D	9.456	22035	6.795	2,4-D
10.413	13182	.672	PCP	9.857	32451	.777	PCP
10.614	3627	.491	2,4,5-TP	10.219	10521	.614	2,4,5-TP
10.969	10957	1.532	2,4,5-T	10.678	6551	.403	2,4,5-T
11.64	5573	1.216	DINOSEB	10.969	10810	1.135	DINOSEB
11.541	37076	44.97	2,4-DB	11.146	16842	8.554	2,4-DB

Files:
Area File: C:\CPWIN\DATA1\2H15193.46A
Area File: C:\CPWIN\DATA1\2H15193B.46A
Method A: C:\CPWIN\DATA1\HERW.MET
Method B: C:\CPWIN\DATA1\HERWB.MET
Calibration File A: C:\CPWIN\DATA1\1H15193.CAL
Calibration File B: C:\CPWIN\DATA1\1H15193B.CAL
Format A: C:\CPWIN\DATA1\HERWD.FMTA
Format B: C:\CPWIN\DATA1\HERWD.FMTB
Area File Created On: 7/15/2011 6:02:34 AM
File Reported On: 7/15/2011 at 6:02:41 AM

USV83 1189

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog Assigned to: 1709 Olivia Santiago Reviewed by: JP1145 Start Date: 7-12-11 Start time: 12:30

111930002A Tech 1: 01S1709 Tech 2:

Dept: 24 Prep Analysis: 00816 Water Sample Herbicide Extract Herb water 8151A Master

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH 2	pH 12	BC	Comments
BLANKA	PBLK02193	1000	IS1115724A SS1110524A	0.1 1.0			10	✓	✓	NA	DI H2O
LCSA	LCS02193	1000	IS1115724A SS1110524A	0.1 1.0	MS1110124A MS1115824A	1.0 1.0	10	✓	✓	↓	↓
LCSDA	LCSD02193	1000	IS1115724A SS1110524A	0.1 1.0	MS1110124A MS1115824A	1.0 1.0	10	✓	✓	↓	↓

Solvent Used	Lot No.
12 N Sulfuric Acid	A083-21
6 N NaOH	1103243
Diazald Solution	1709D712 11A
Ethyl Ether	112038
Methylene Chloride	112968
NaCl	01211AN
Sodium Sulfate(acid)	11145A

Spike Solutions: Witness: 0S3257

IS1115724A HERB INTERNAL STANDARD
MS1115824A HERB SPIKE
MS1110124A MCPA FORTIFICATION MIX
SS1110524A HERB SURROGATE STANDARD

Sample #		Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH 2	pH 12	BC	Comments	Analyses	Due Date	Prio
1	6338269	EBQ02	1039	IS1115724A SS1110524A	0.1 1.0	10	✓	✓	430	clear	10407	07/19/2011	S
2	6339388	EBQ03	1035	IS1115724A SS1110524A	0.1 1.0	10	✓	✓	436	↓	10407	07/20/2011	S

Rack ID:		Work Station	Herb2
Internal Standard		Balance #	7

S-bath ID 12 55 C S-bath ID — C N-Evap 4 40C M-vap — C 111930002A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Prep-Process Worksheet

Florisil
Prep: 00816 Water Sample Herbicide Extracl
Batch: 111930002A

Verified: PLM5
Start Date: 7-12-11
Start Time: 18:15
Tech 1: 0151709
Tech 2:

	Sample #	QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	6338269		2.0	2.0				10407
2	6339388		2.0	2.0				10407
3	BLANKA		2.0	2.0				
4	LCSA		2.0	2.0				
5	LCSDA		2.0	2.0				

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
50% ether/hexane	170501211B		
Florisil	505121 BR		

S-Evap/bath	C	S-Evap/bath	C	N-Evap	40 C

The documented temperatures are NIST corrected.

USF03 1192

Organic Extraction Batchlog Assigned to: 2133 Roman Kuropatkin Reviewed by: DWS Start Date: 7/12 7/13/11 Start time: 2:00

111930026A

Tech 1: D.H LM Tech 2: RK2133 D.H LM 7-13-11

Dept: 24 Prep Analysis: 04181 Herbicide Soil Extraction Herbicide soils 8151A Master

QC	Sample Code	Amt (G)	SS/IS Sol. *IS1117924A	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH 2	pH 12	BC	Comments
24DBDLV		60	SS1101424B	1	MS1119324C	1	2	Z	Z	—	
6339378MS	82S05	60.4	~~IS1115724A~~ SS1101424B	1 1	MS1107624A	1	2	Z	Z	2A	Brown Sol
6339379MSD	82S05	60.4	~~IS1115724A~~ SS1101424B	1 1	MS1107624A	1	2	Z	Z	2A	Brown Sol
BLANKA	PBLK26193	60	~~IS1115724A~~ SS1101424B	1 1	—	—	2	Z	Z	—	Na_2SO_4
DICDALV		60	~~IS1115724A~~ SS1101424B	1 1	MS1119324D	1	2	Z	Z	—	
LCSA	LCS26193	60	~~IS1115724A~~ SS1101424B	1 1	MS1107624A	1	2	Z	Z	—	
LCSDA	LCSD26193	60	~~IS1115724A~~ SS1101424B	1 1	MS1107624A	1	2	Z	Z	—	
MDLV		60	~~IS1115724A~~ SS1101424B	1 1	MS1119324B	1	2	Z	Z	—	
RL2LCS	LCS26193	60	~~IS1115724A~~ SS1101424B	1 1	MS1107624A	.2	2	Z	Z	—	

Solvent Used	Lot No.
1:1 Methylene Chloride/Acetone	1850628/1A
25% Sulfuric Acid	2102923
37% KOH	1429071311A
Diazald Solution	1429071311B
Ethyl Ether	112038
Filter paper	99768
Hexane	112392
Methanol	110302
Methylene Chloride	112968
Sodium Sulfate(Acid)	11160A

*IS1117924A

Spike Solutions: Witness: LM 7-1 7/13/11

~~IS1115724A~~	HERB INTERNAL STANDARD
MS1119324B	SSFL HERB MDLV #1
MS1119324C	SSFL HERB MDLV #2
MS1119324D	SSFL HERB MDLV #3
MS1107624A	SSFL HERB SPIKE
SS1101424B	SSFL HERB SURROGATE STD.

Sample #	Sample Code	Amt (G)	SS/IS Sol. *IS1117924A	Amt (mL)	FV (mL)	pH 2	pH 12	BC	Comments	Analyses	Due Date	Prio
4 6337203	WR01S	60.2	SS1101424B	1	2	Z	Z	2A	Brown Sol	10401	07/20/2011	S
5 6337205	WR03S	60.5	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	2A		10401	07/20/2011	S
6 6337207	WR05S	60.1	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	2A		10401	07/20/2011	S
7 6337209	WR07S	60.4	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	2A		10401	07/20/2011	S
8 6337212	WR11S	60.4	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	2A		10401	07/20/2011	S

D.H LM 7/13/11

Rack ID:		Work Station	Sonic 3
Internal Standard		Balance #	2710

S-bath ID 6	94 C	S-bath ID	C	N-Evap	C	M-vap	C	111930026A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

	Sample #	Sample Code	Amt (6)	SS/IS Sol.	Amt (mL)	FV (mL)	pH 2	pH 12	BC	Comments	Analyses	Due Date	Prio
9	6338249	WR09S	60.5	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A	Brown Soil	10401	07/21/2011	S
10	6338250 ***	WR135	*** 68.4	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/21/2011	S
11	6338252	WR295	60.2	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/21/2011	S
12	6338261	WR885	60.2	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/21/2011	S
13	6338263	WR905	60.3	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/21/2011	S
14	6338264	WR90D	60.2	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/21/2011	S
15	6339368	15S05	60.1	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/22/2011	S
16	6339370	17S05	60.5	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/22/2011	S
17	6339372	19S05	60.3	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/22/2011	S
18	6339374	21S05	60.5	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/22/2011	S
19	6339375	74S05	60.3	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/22/2011	S
20	6339377BKG	82S05	60.4	~~IS1115724A~~ SS1101424B	1 1	2	Z	Z	21A		10401	07/22/2011	S
21	6339384	82S06	60.0	~~IS1115724A~~ SS1101424B	1 1 5	2	Z	Z	~~21A~~	~~Given 7/13/11~~ RL LCS .5ml of MS1107624A	10401	07/22/2011	S
22	6339386	87S05	60.5	~~IS1115724A~~ SS1101424B	1 1 1.4	2	Z	Z	21A		10401	07/22/2011	S

7-13-11

D.H 1424
7/13/11

Rack ID:		Work Station	Sonic 3
Internal Standard		Balance #	2910

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	111930026A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Prep-Process Worksheet

Florisil

Prep: 04181 Herbicide Soil Extraction

Batch: 111930026A

Verified: PMS
Start Date: 7/13/11
Start Time: 1040
Tech 1: RK233
Tech 2:

	Sample #	QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	24DBDLV		2	2				
2	6337203		2	2				10401
3	6337205		2	2				10401
4	6337207		2	2				10401
5	6337209		2	2				10401
6	6337212		2	2				10401
7	6338249		2	2				10401
8	6338250		2	2				10401
9	6338252		2	2				10401
10	6338261		2	2				10401
11	6338263		2	2				10401
12	6338264		2	2				10401
13	6339368		2	2				10401
14	6339370		2	2				10401
15	6339372		2	2				10401
16	6339374		2	2				10401
17	6339375		2	2				10401
18	6339377		2	2				10401
19	6339378	MS	2	2				10401
20	6339379	MSD	2	2				10401
21	6339384		2	2				10401
22	6339386		2	2				10401
23	BLANKA		2	2				
24	DICDALV		2	2				
25	LCSA		2	2				
26	LCSDA		2	2				
27	MDLV		2	2				
28	RL2LCS		2	2				

pH ok
7/13/11

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
Florosil	805221-BA		
50/50 Ethyl/Hexane	148207331C		

S-Evap/bath	C	S-Evap/bath	C	N-Evap	40 C

The documented temperatures are NIST corrected.

USF03 1195

Perchlorate Data

USF&G 1196

Case Narrative
Conformance/Nonconformance Summary

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Pesticide Residue Analysis

Fraction: Perchlorate

Perchlorate EPA 6850
Perchlorate EPA 6850

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
6339368	WRBS0015S005		X	1	
6339369	WRBS0016S005		X	1	
6339370	WRBS0017S005		X	1	
6339371	WRBS0018S005		X	1	
6339372	WRBS0019S005		X	1	
6339373	WRBS0020S005		X	1	
6339374	WRBS0021S005		X	1	
6339375	WRBS0074S005		X	1	
6339376	WRBS0074S045		X	1	
6339377	WRBS0082S005		X	1	Unspiked
6339378	WRBS0082S005 Matrix Spike		X	1	Matrix Spike
6339379	WRBS0082S005 Matrix Spike Dup		X	1	Matrix Spike Duplicate
6339384	RLQQS00003 RL LCS		X	1; RLQ	
6339385	WRBS0082S040		X	1	
6339386	WRBS0087S005		X	1	
6339387	WRBS0087S040		X	1	
6339388	EBQW00003	X		1	Equipment Blank

See QC Reference List for Associated Batch QC Samples

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples.

ANALYSIS:

Method: SW-846 6850 1/2007

(Sample number(s): 6339368, 6339370, 6339372, 6339376-6339377, 6339385: Analysis: 06557)
Reporting limits were raised due to interference from the sample matrix.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

The recovery for Perchlorate in LCS04196 is outside the QC acceptance limits. Since the recovery is high and Perchlorate was not detected in the associated sample, the data is reported.

USF03 1198

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Pesticide Residue Analysis

Fraction: Perchlorate

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 8/26/2011 (Date) by M. Susan Kreider
M. SUSAN KREIDER
SENIOR SPECIALIST

Quality Control and Calibration Summary Forms

USF83 1288

Lancaster Laboratories

Quality Control Reference List
Pesticide Residue Analysis

CLIENT: URS Corporation
SDG: USF03

Fraction: Perchlorate

Analysis	Batch Number	Sample Number	Analysis Date
Perchlorate EPA 6850	111960004A	PBLK04196	07/15/2011 17:59:00
		LCS04196	07/15/2011 18:05:00
		LCSD04196	07/15/2011 18:11:00
		6339388	07/15/2011 18:24:00
Perchlorate EPA 6850	112160001A	PBLK01216	08/05/2011 03:21:00
		LCS01216	08/05/2011 03:46:00
		LCSD01216	08/05/2011 03:59:00
		6339368	08/05/2011 05:03:00
		6339369	08/05/2011 05:16:00
		6339370	08/05/2011 05:28:00
		6339371	08/05/2011 05:41:00
		6339372	08/05/2011 05:54:00
		6339373	08/05/2011 06:19:00
		6339374	08/05/2011 06:32:00
		6339375	08/05/2011 06:45:00
		6339376	08/05/2011 06:57:00
		6339377 UNSPK	08/05/2011 04:25:00
		6339378 MS	08/05/2011 04:37:00
		6339379 MSD	08/05/2011 04:50:00
		6339384 RLQ	08/05/2011 04:12:00
		6339385	08/05/2011 07:10:00
		6339386	08/05/2011 07:23:00
		6339387	08/05/2011 07:36:00

USF03 1281

Lancaster Laboratories

Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: USF03
Matrix: LIQUID

Fraction: Perchlorate

111960004 / PBLK04196 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Perchlorate EPA 6850	07/15/11	N.D.	ug/l	0.20	1.0

USF03 1282

Lancaster Laboratories

Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: USF03
Matrix: SOLID

Fraction: Perchlorate

112160001 / PBLK01216 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Perchlorate EPA 6850	08/05/11	N.D.	ug/kg	0.30	0.40

USP03 1283

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: LIQUID

Pesticide Residue Analysis

Fraction: Perchlorate

LCS: LCS04196 LCSD: LCSD04196 **Analyte**	Batch: **111960004A** (Sample number(s): 6339388) **Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Perchlorate EPA 6850	5	6.07	5.94	121 *	119	80-120	2	30

USF03 1264

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: SOLID

Pesticide Residue Analysis

Fraction: Perchlorate

LCS: LCS01216 LCSD: LCSD01216	Batch: **112160001A** (Sample number(s): 6339368-6339379, 6339384-6339387)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Perchlorate EPA 6850	20	19.9	21.12	99	106	70-130	6	30

USF03 1205

Lancaster Laboratories

Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: USF03
Matrix: SOLID

Pesticide Residue Analysis

Fraction: Perchlorate

UNSPK: 6339377 MS: 6339378 MSD: PBLK01216 **Analyte**	Batch: **112160001A** (Sample number(s): 6339368-6339379, 6339384-6339387)								
	Spike Added ug/kg	**Unspiked Conc ug/kg**	**MS Conc ug/kg**	**MSD Conc ug/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Perchlorate EPA 6850	20	N.D.	21.38	20.52	107	103	80-120	4	20

USF03 *286

Results are being reported on an as received basis.

Quant Calibration Report (ISTD)

Batch Info

Batch Data Path D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

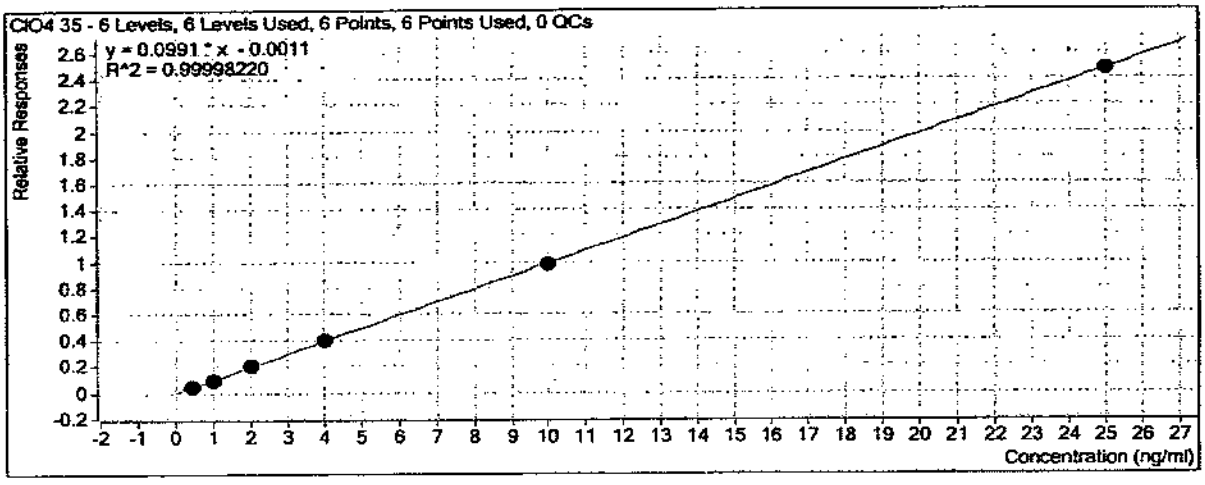
AVG = 14737.7

Calibration Info

ISTD Compound *ClO4 18*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
ms5p19611004.d	Calibration	L1	☑	14898	10.0000	1489.8101
ms5p19611005.d	Calibration	L2	☑	16044	10.0000	1604.3762
ms5p19611006.d	Calibration	L3	☑	15277	10.0000	1527.6553
ms5p19611007.d	Calibration	L4	☑	14949	10.0000	1494.8629
ms5p19611008.d	Calibration	L5	☑	15214	10.0000	1521.4198
ms5p19611009.d	Calibration	L6	☑	12044	10.0000	1204.3779

Target Compound *ClO4 35*


ClO4 35 - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs
y = 0.0991 * x - 0.0011
R^2 = 0.99998220
Relative Responses
Concentration (ng/ml)

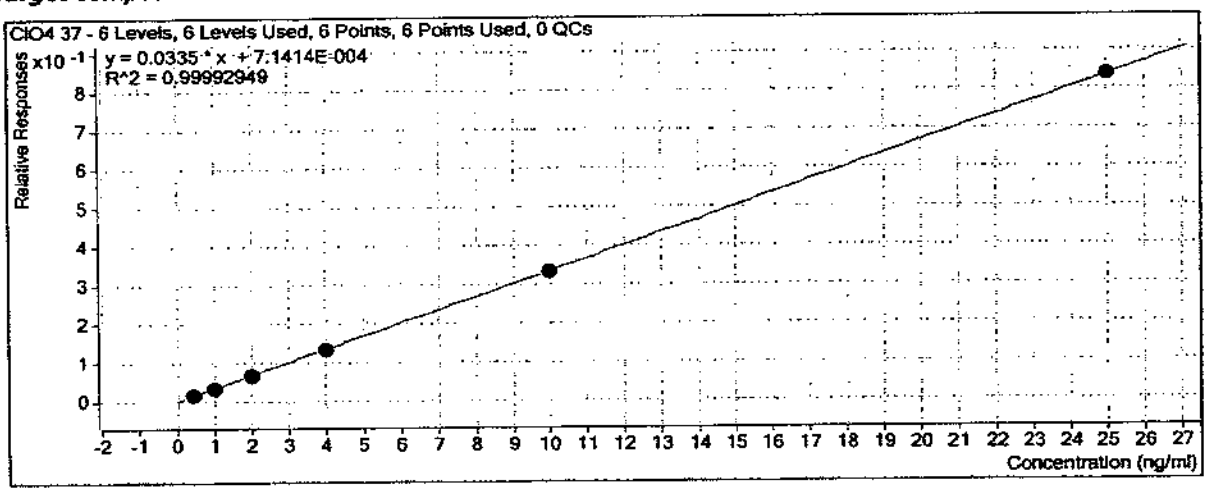
Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
ms5p19611004.d	Calibration	L1	☑	612	0.4000	1.0268
ms5p19611005.d	Calibration	L2	☑	1545	1.0000	0.9631
ms5p19611006.d	Calibration	L3	☑	3049	2.0000	0.9980 ~2.95
ms5p19611007.d	Calibration	L4	☑	5934	4.0000	0.9923
ms5p19611008.d	Calibration	L5	☑	14953	10.0000	0.9828
ms5p19611009.d	Calibration	L6	☑	29864	25.0000	0.9919

ratio 2.07 - 3.84

USEPA 1267

Quant Calibration Report (ISTD)

Target Compound *ClO4 37*

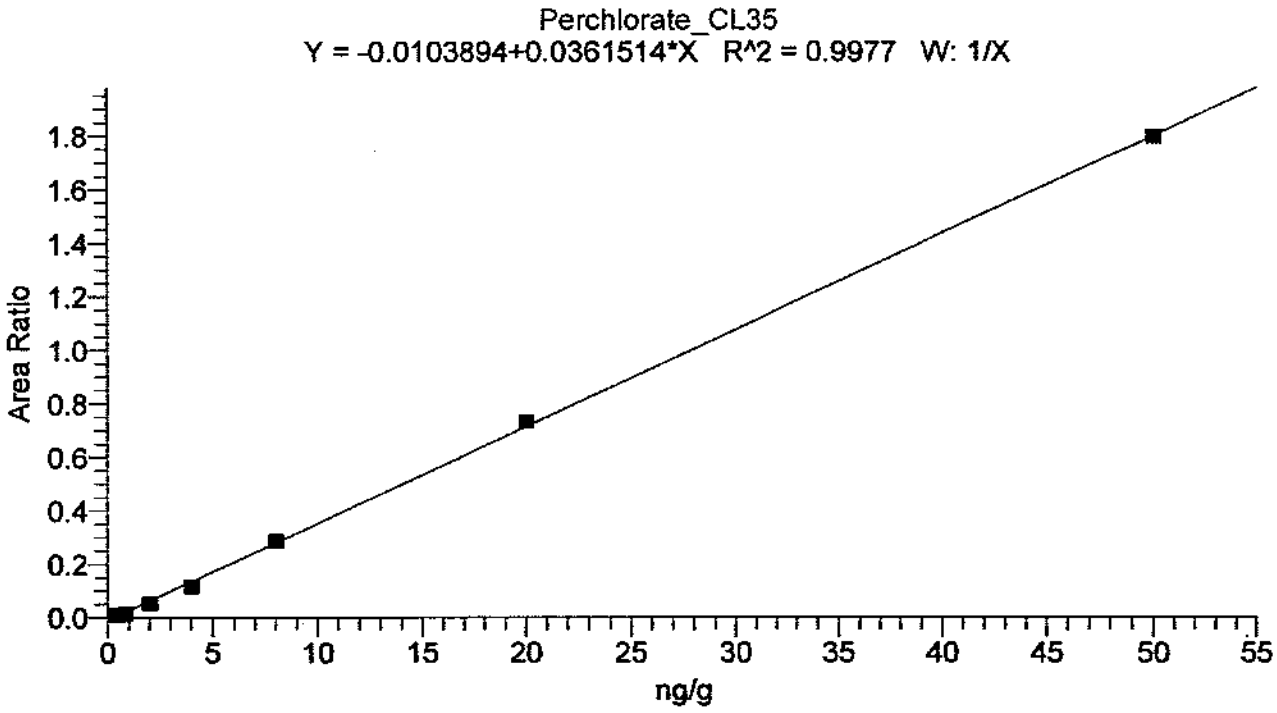

ClO4 37 - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs
y = 0.0335 * x + 7.1414E-004
R^2 = 0.99992949
Relative Responses
x10 -1
Concentration (ng/ml)

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
ms5p19611004.d	Calibration	L1	☑	218	0.4000	0.3666
ms5p19611005.d	Calibration	L2	☑	531	1.0000	0.3309
ms5p19611006.d	Calibration	L3	☑	1032	2.0000	0.3378
ms5p19611007.d	Calibration	L4	☑	1994	4.0000	0.3334
ms5p19611008.d	Calibration	L5	☑	5089	10.0000	0.3345
ms5p19611009.d	Calibration	L6	☑	10117	25.0000	0.3360

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Component Name: **Perchlorate_CL35**



Identification		Component Name:	Perchlorate_CL35
Filter:	- c ESI SRM ms2 99.40@cid26.00 [83.39-83.41]	1st Trace Type:	TIC
2nd Trace Type:	N/A	Mass Range 1 (m/z):	
Mass Range 2 (m/z):		Wavelength Range 2 (nm):	N/A
Base Peak(BP):			
Retention Time		Expected RT (min):	1.35000
Window (sec):	30.00000	View Width (min):	2.50000
RT Reference:	No	Adjust Expected RT:	No
Adjust Using:	N/A		
Detection Options		Peak Detection Algorithm:	ICIS
		ICIS Peak Integration	
ICIS Smoothing Points:	5	Baseline Window:	100
Area Noise Factor:	20	Peak Noise Factor:	100
ICIS Constrain Peak Width:	No	ICIS Peak Height (%):	N/A
ICIS Tailing Factor:	N/A		
ICIS Peak Detection		ICIS Identify By:	Nearest RT
ICIS Minimum Peak Height (S/N):	50.0	ICIS Ion Ratio Confirmation:	N/A
ICIS Window %:	N/A	ICIS Qualifier Ion Coelution (min):	N/A
		ICIS Spectrum Thresholds	
ICIS Forward:	N/A	ICIS Reverse:	N/A
ICIS Match:	N/A		
ICIS Advanced Parameters		Noise Method:	Incos
Minimum Peak Width:	3	Multiplet Resolution:	10
Area Tail Extension:	5	Area Scan Window:	0
		Calibration	
Component Type:	Target Compound	%RSD Calculation Method:	Use calculated amounts
		Internal Standard	
ISTD Amount:	N/A	ISTD Units:	N/A
		Target Compounds	
ISTD:	IS_O18	Weighting:	OneOverX
Origin:	IgnoreOrigin	Response:	Area
Calibration Curve:	Linear	Target Units:	ng/g
Number of Cal. Levels:	7	Number of QC Levels:	2
		Peak Purity Options	
Scan Threshold (mAU):	N/A	Peak Coverage (%):	N/A
Limit ScanRange (nm):	N/A		

USF03 1289

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Component Cal Level Table

Cal Level	Amount
Perc1	0.400
Perc2	0.800
Perc3	2.000
Perc4	4.000
Perc5	8.000
Perc6	20.000
Perc7	50.000

Component QC Level Table

QC Level	Amount
Icperc2	0.800
Icperc5	8.000

ICV & CCV Result Table

Sample ID	Data File Name	Calculated Amount	Area	% Diff
Icperc2 1024a	A112160001A_25	0.71184ng/g	1303.76	-11.02
Icperc5 1024a	A112160001A_13	8.37772ng/g	24575.41	4.72
Icperc5 1024a	A112160001A_33	8.95492ng/g	28427.32	11.94
Perc1 1024b	A112160001A_04	0.54134ng/g	899.05	35.33
Perc2 1024b	A112160001A_05	0.65890ng/g	1281.01	-17.64
Perc3 1024b	A112160001A_06	1.78727ng/g	4566.79	-10.64
Perc4 1024b	A112160001A_07	3.52489ng/g	11269.59	-11.88
Perc5 1024b	A112160001A_08	8.18139ng/g	28173.19 ✓	2.27
Perc6 1024b	A112160001A_09	20.51213ng/g	59226.71	2.56
Perc7 1024b	A112160001A_10	49.99407ng/g	141976.46	-0.01

Ratio CR5 3.71

2.60 - 4.83

USF03 1210

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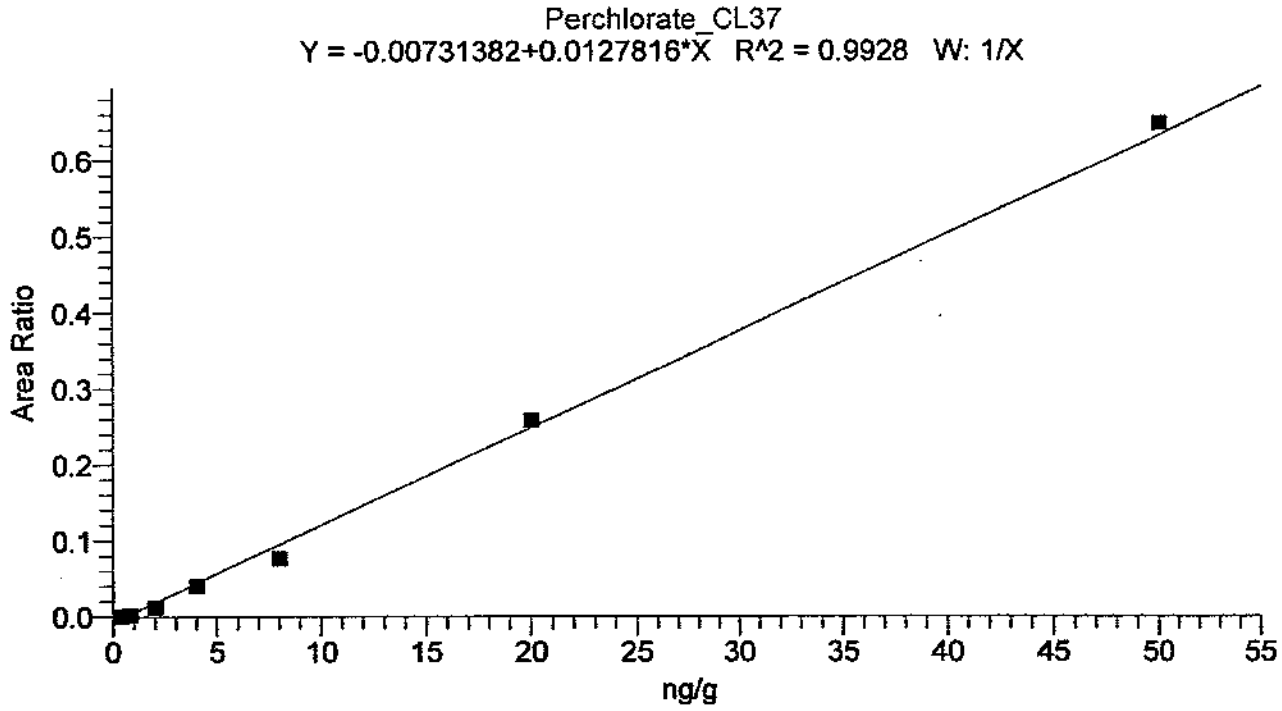
LCMSMS ANALYSIS REPORT

Component Name: **Perchlorate_CL37**



Identification		Component Name:	Perchlorate_CL37
Filter:	- c ESI SRM ms2 101.40@cid24.00 [85.39-85.41]	1st Trace Type:	TIC
2nd Trace Type:	N/A	Mass Range 1 (m/z):	
Mass Range 2 (m/z):		Wavelength Range 2 (nm):	N/A
Base Peak(BP):			
Retention Time		Expected RT (min):	1.35000
Window (sec):	30.00000	View Width (min):	2.50000
RT Reference:	No	Adjust Expected RT:	No
Adjust Using:	N/A		
Detection Options		Peak Detection Algorithm:	ICIS
		ICIS Peak Integration	
ICIS Smoothing Points:	7	Baseline Window:	100
Area Noise Factor:	5	Peak Noise Factor:	100
ICIS Constrain Peak Width:	No	ICIS Peak Height (%):	N/A
ICIS Tailing Factor:	N/A		
ICIS Peak Detection		ICIS Identify By:	Nearest RT
ICIS Minimum Peak Height (S/N):	50.0	ICIS Ion Ratio Confirmation:	N/A
ICIS Window %:	N/A	ICIS Qualifier Ion Coelution (min):	N/A
		ICIS Spectrum Thresholds	
ICIS Forward:	N/A	ICIS Reverse:	N/A
ICIS Match:	N/A		
ICIS Advanced Parameters		Noise Method:	Incos
Minimum Peak Width:	3	Multiplet Resolution:	10
Area Tail Extension:	5	Area Scan Window:	0
		Calibration	
Component Type:	Target Compound	%RSD Calculation Method:	Use calculated amounts
		Internal Standard	
ISTD Amount:	N/A	ISTD Units:	N/A
		Target Compounds	
ISTD:	IS_O18	Weighting:	OneOverX
Origin:	IgnoreOrigin	Response:	Area
Calibration Curve:	Linear	Target Units:	ng/g
Number of Cal. Levels:	7	Number of QC Levels:	2
		Peak Purity Options	
Scan Threshold (mAU):	N/A	Peak Coverage (%):	N/A
Limit ScanRange (nm):	N/A		

USPB3 1211

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Component Cal Level Table

Cal Level	Amount
Perc1	0.400
Perc2	0.800
Perc3	2.000
Perc4	4.000
Perc5	8.000
Perc6	20.000
Perc7	50.000

Component QC Level Table

QC Level	Amount
Icperc2	0.800
Icperc5	8.000

ICV & CCV Result Table

Sample ID	Data File Name	Calculated Amount	Area	% Diff
Icperc2 1024a	A112160001A_25	0.80616ng/g	254.07	0.77
Icperc5 1024a	A112160001A_13	7.66493ng/g	7617.44	-4.19
Icperc5 1024a	A112160001A_33	6.48005ng/g	6850.64	-19.00
Perc1 1024b	A112160001A_04	0.58606ng/g	17.33	46.52
Perc2 1024b	A112160001A_05	0.77153ng/g	242.98	-3.56
Perc3 1024b	A112160001A_06	1.51353ng/g	1013.32	-24.32
Perc4 1024b	A112160001A_07	3.70675ng/g	3857.74	-7.33
Perc5 1024b	A112160001A_08	6.58377ng/g	7585.55 ✓	-17.70
Perc6 1024b	A112160001A_09	20.77507ng/g	20917.48	3.88
Perc7 1024b	A112160001A_10	51.26330ng/g	51191.16	2.53

USPB3 1212

QQQ Autotune Report

Instrument Name	Instrument 1	**MS Model**	G6410A
Tune Date & Time	2011-07-15 10:42		
Data Path	D:\MassHunter\Tune\QQQ\atunes.TUNE.XML		
Ion Source	ESI		
Ionization Mode	ESI		

Source Parameters

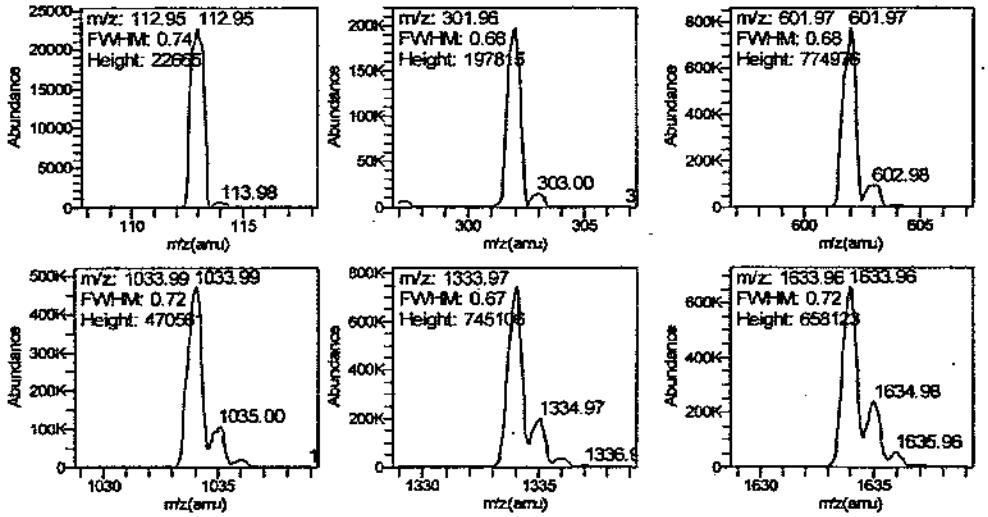
Parameter	Value
Gas Temp	300
Gas Flow	6
Nebulizer	15
Capillary	4000

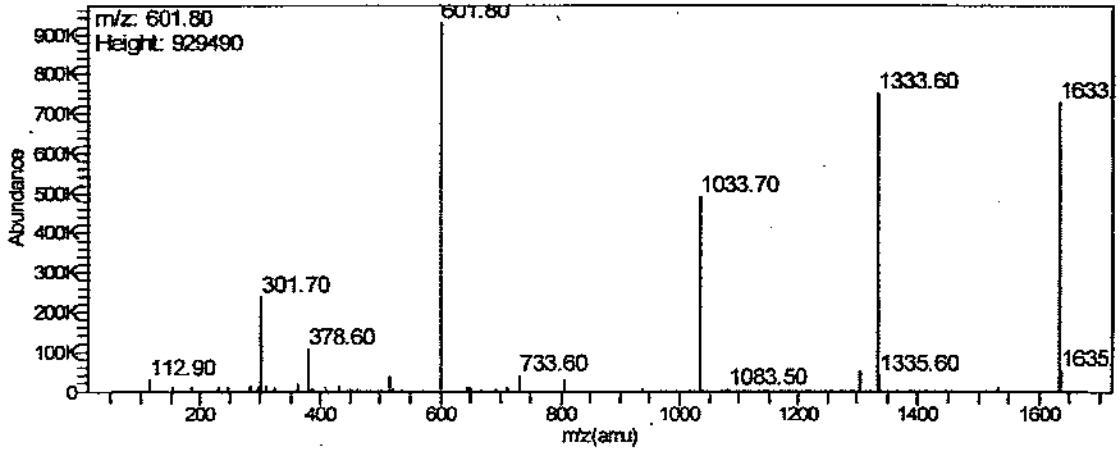
USP#3 1213

QQQ Autotune Report

Negative Results

Analyzer: *MS1* ***Polarity:*** *Negative* ***Width:*** *Unit*

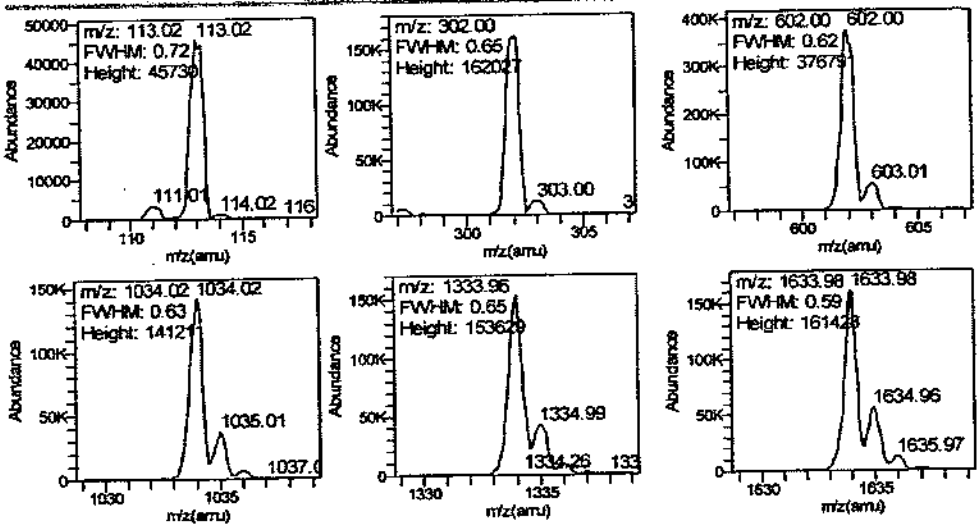


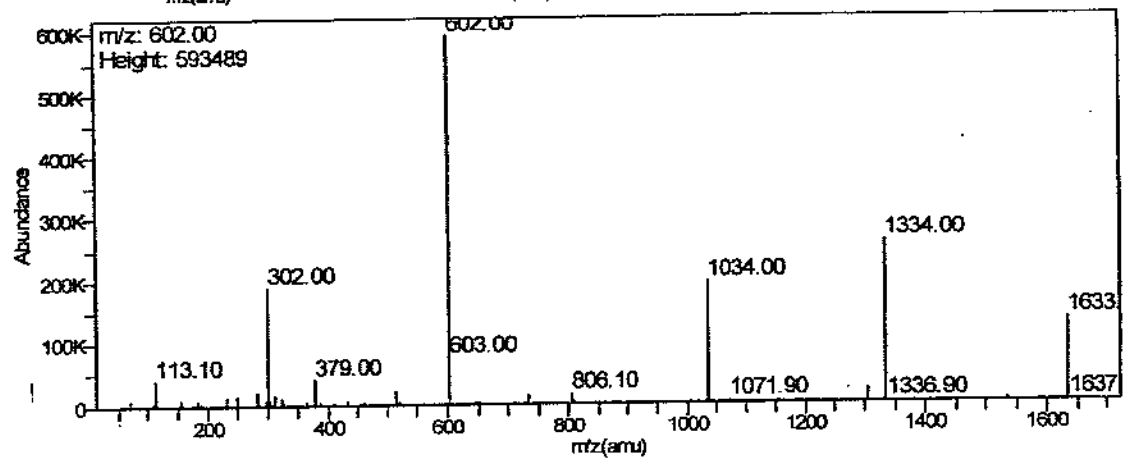


m/z	m/z Expected	FWHM	FWHM Expected	Abundance
112.95	112.99	0.74	0.70	22665
301.96	302.00	0.66	0.70	197815
601.96	601.98	0.68	0.70	774976
1033.99	1033.99	0.72	0.70	470561
1333.98	1333.97	0.67	0.70	745106
1633.97	1633.95	0.72	0.70	658123

QQQ Autotune Report

Analyzer: *MS2* **Polarity:** *Negative* **Width:** *Unit*

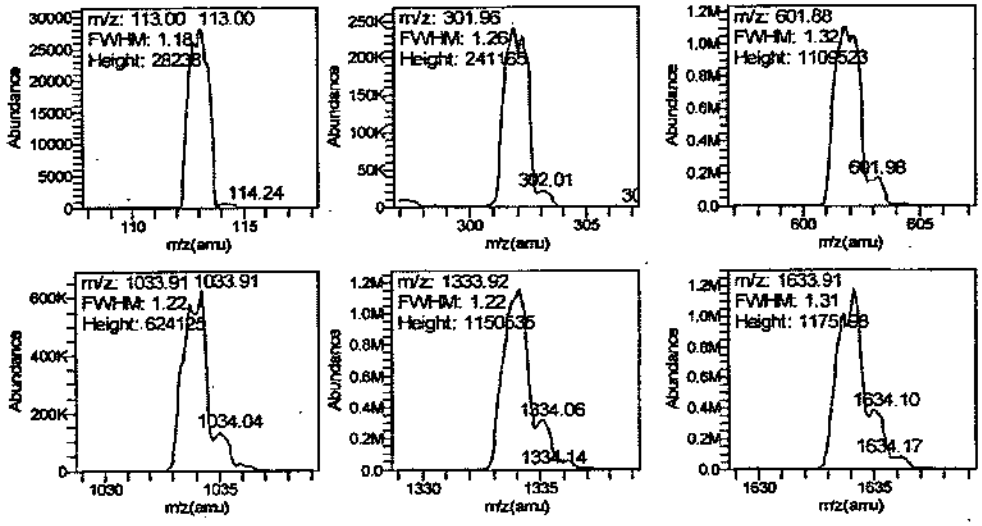




m/z	m/z Expected	FWHM	FWHM Expected	Abundance
113.02	112.99	0.72	0.70	45730
302.00	302.00	0.65	0.70	162027
602.00	601.98	0.62	0.70	376791
1034.01	1033.99	0.63	0.70	141211
1333.97	1333.97	0.65	0.70	153629
1633.99	1633.95	0.59	0.70	161428

QQQ Autotune Report

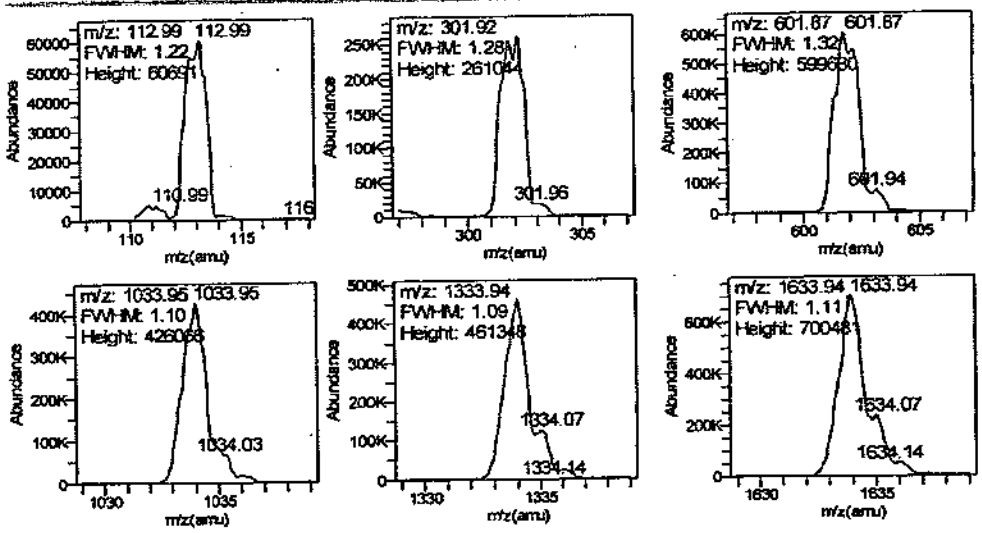
Analyzer: *MS1* ***Polarity:*** *Negative* ***Width:*** *Wide*



m/z	m/z Expected	FWHM	FWHM Expected	Abundance
113.00	112.99	1.18	1.20	28238
301.96	302.00	1.26	1.20	241165
601.88	601.98	1.32	1.20	1109523
1033.90	1033.99	1.22	1.20	624125
1333.93	1333.97	1.22	1.20	1150536
1633.92	1633.95	1.31	1.20	1175198

QQQ Autotune Report

Analyzer: *MS2* ***Polarity:*** *Negative* ***Width:*** *Wide*

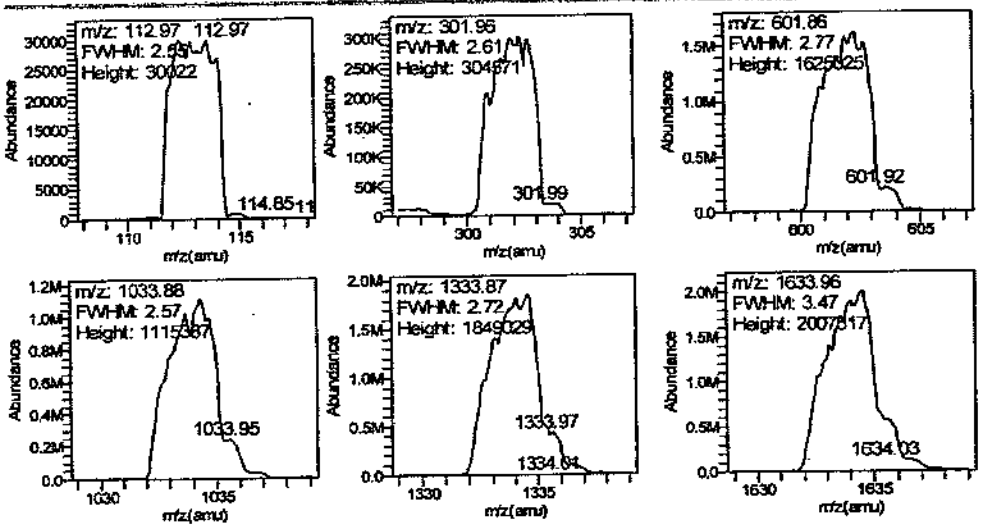


m/z	m/z Expected	FWHM	FWHM Expected	Abundance
112.99	112.99	1.22	1.20	60691
301.92	302.00	1.28	1.20	261044
601.87	601.98	1.32	1.20	599680
1033.95	1033.99	1.10	1.20	426066
1333.95	1333.97	1.09	1.20	461348
1633.95	1633.95	1.11	1.20	700481

USPB3 11217

QQQ Autotune Report

Analyzer: *MS1* ***Polarity:*** *Negative* ***Width:*** *Widest*

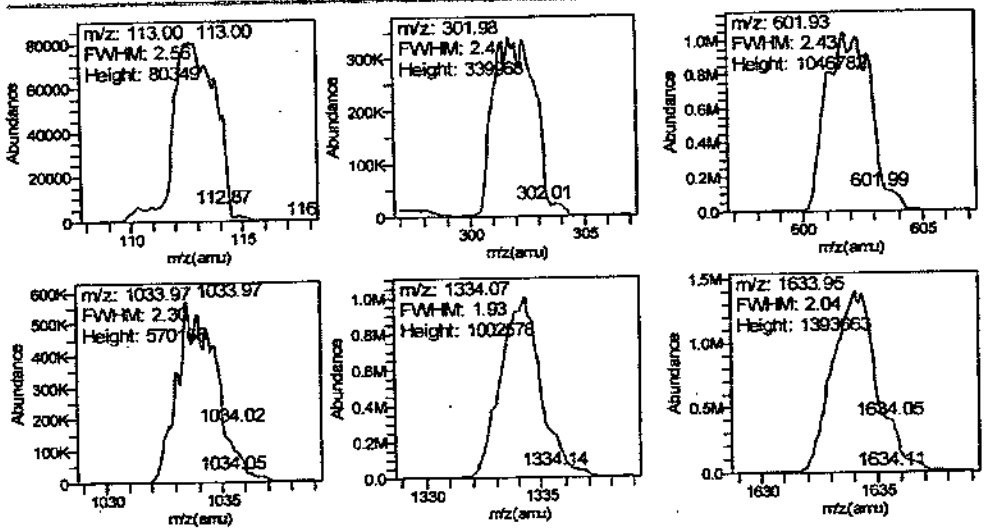


m/z	m/z Expected	FWHM	FWHM Expected	Abundance
112.97	112.99	2.55	2.50	30022
301.96	302.00	2.61	2.50	304571
601.86	601.98	2.77	2.50	1625025
1033.88	1033.99	2.57	2.50	1115387
1333.88	1333.97	2.72	2.50	1849029
1633.97	1633.95	3.47	2.50	2007617

USP83 1218

QQQ Autotune Report

Analyzer: *MS2* ***Polarity:*** *Negative* ***Width:*** *Widest*



m/z	m/z Expected	FWHM	FWHM Expected	Abundance
113.00	112.99	2.56	2.50	80349
301.98	302.00	2.41	2.50	339968
601.93	601.98	2.43	2.50	1046782
1033.97	1033.99	2.29	2.50	570166
1334.09	1333.97	1.93	2.50	1002578
1633.97	1633.95	2.05	2.50	1393663

USP03 1219

QQQ Autotune Report

Negative Parameters

Tune Parameters

Parameter	Setting
Fragmentor	135.00
Skimmer	15.00
Octopole DC	5.00
Octopole RF	600.00
Lens1	0.10
Lens2 DC	2.20
Lens2 RF Enable	1.00
Lens2 RF	322.00
Lens2 RF Phase	-108.00
MS1 DC	-3.00
MS1 PostFilter	-2.00
MS1 Axis Offset	0.81
MS1 Axis Gain	-28.80
MS1 Width Offset	0.05
MS1 Width Gain	31.00
MS1 Heater	100.00
MS2 DC	12.00
MS2 PreFilter	27.00
MS2 Axis Offset	0.75
MS2 Axis Gain	15.90
MS2 Width Offset	0.43
MS2 Width Gain	18.10
MS2 Heater	100.00
Cell Entry	0.00
Hexapole DC	0.00
Hexapole RF	400.00
Hexapole Accel	7.00
Cell Exit	8.00
Collision Gas	1.00
Iris	375.00
HED	10.00
EMV	3000.00
Collision Energy	0.00
Lens2 DC RF Off	27.00

Dynamic Ramp Tables

Lens2 DC

m/z	Setting
112.99	0.10
302.00	0.40
601.98	0.90
1033.99	1.70
1333.97	2.20
1633.95	2.70

Lens2 RF

USF#3 1228

QQQ Autotune Report

m/z	Setting
112.99	80.00
302.00	110.00
601.98	158.00
1033.99	226.00
1333.97	274.00
1633.95	322.00

MS1 Axis Offset

m/z	Setting
112.99	0.81
302.00	0.83
601.98	0.86
1033.99	0.87
1333.97	0.82
1633.95	0.81

MS1 Width Offset

m/z	Setting
112.99	0.05
302.00	-0.06
601.98	-0.07
1033.99	0.03
1333.97	0.02
1633.95	0.05

MS2 Axis Offset

m/z	Setting
112.99	0.75
302.00	0.75
601.98	0.78
1033.99	0.79
1333.97	0.79
1633.95	0.75

MS2 Width Offset

m/z	Setting
112.99	0.43
302.00	0.35
601.98	0.39
1033.99	0.45
1333.97	0.51
1633.95	0.43

MS1 Calibrations

Resolution	Mass Gain	Mass Offset	Width Gain	Width Offset
Unit	-28.80	0.81	31.00	0.05
Wide	-29.10	1.00	31.30	0.36
Widest	-29.40	1.41	31.60	1.35

QQQ Autotune Report

MS2 Calibrations

Resolution	Mass Gain	Mass Offset	Width Gain	Width Offset
Unit	15.90	0.75	18.10	0.43
Wide	15.75	0.89	18.80	0.80
Widest	15.30	1.38	18.80	1.70

USF03 1222

Continuing Calibration Method 6850

Run # ms5p19611

	Added ug/L	ug/L #	%D	
MS5P19611010 RT (min) 0.78 perchlorate	4.13	4	-3%	ICV
MS5P19611021 RT (min) 0.78 perchlorate	0.4587	0.4	-13%	
MS5P19611032 RT (min) 0.77 perchlorate	4.0683	4	-2%	
MS5P19611043 RT (min) 0.79 perchlorate	0.5297	0.4	-24%	
MS5P19611054 RT (min) 0.75 perchlorate	4.1369	4	-3%	
MS5P19611065 RT (min) 0.75 perchlorate	0.4598	0.4	-13%	
MS5P19611076 RT (min) 0.74 perchlorate	4.1343	4	-3%	
MS5P19611079 RT (min) 0.74 perchlorate	0.4587	0.4	-13%	

entered by _____ 7/20/11

verified by _____ 7/20/11

Perchlorate 83/85 ratio 2.07-3.8

IS = 7368.9 – 22106.6

Mean = 14953.7 1223

Continuing Calibration Method 6850

Run # Thermo TSQ A112160001A

File 13	Found	Added		
RT (min)	ug/L	ug/L	%D	
1.34 perchlorate	8.378	8	5%	ICV

File 25	Found	Added		
RT (min)	ug/L	ug/L	%D	
1.35 perchlorate	0.712	0.8	-11%	

File 33	Found	Added		
RT (min)	ug/L	ug/L	%D	
1.33 perchlorate	8.955	8	12%	

entered by _____ 8/18/11

Valerie L Tomayko
Principal Specialist

verified by _____

AUG 18 2011

Sample Data

USF03 1233

VOID PAGE 1225-1232
DC 834
08/26/11

Lancaster Laboratories

LOQ/MDL Summary
Pesticide Residue Analysis

SDG: USF03

Fraction: Perchlorate

06557: Perchlorate EPA 6850 Analyte Name	Default MDL	Default LOQ	Units
Perchlorate EPA 6850	2.1	5.0	ug/kg

06386: Perchlorate EPA 6850 Analyte Name	Default MDL	Default LOQ	Units
Perchlorate EPA 6850	0.20	1.0	ug/l

USF03 1234

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Sample Name:	6339368	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339368	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_20	Dilution Factor:	1.00
Acquisition Date:	08/05/11 05:03:19 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:8	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

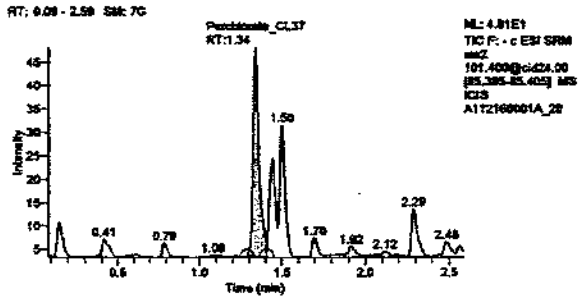
Quan Peak Table

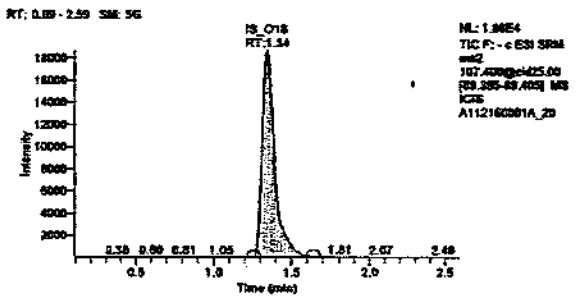
Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	105672.04	N/A	N/A	N/A
Perchlorate_CL35	0.608	1.34	1225.13	105672.04	0.012	ng/g
Perchlorate_CL37	0.656	1.34	113.31	105672.04	0.001	ng/g

MRL spec 4.7 par ratio 148 117

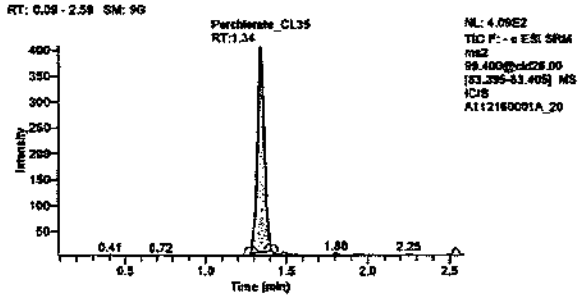
Ion Chromatogram

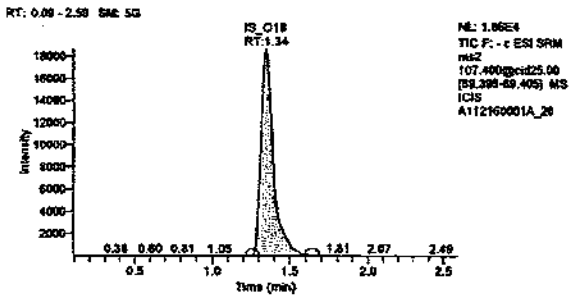
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L Tomayko
Principal Specialist

AUG 18 2011

USF83 1235

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

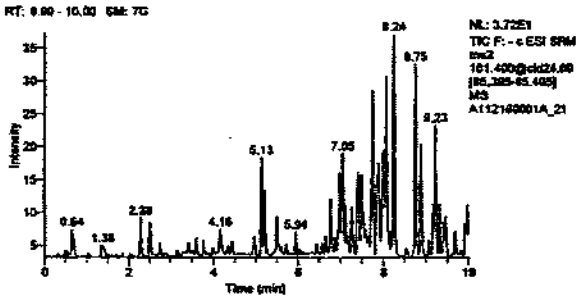
Sample Name:	6339369	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339369	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_21	Dilution Factor:	1.00
Acquisition Date:	08/05/11 05:16:05 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:9	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

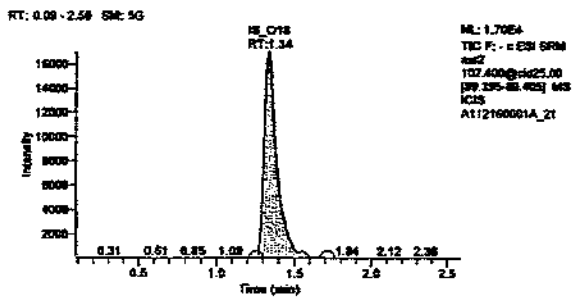
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	99347.49	N/A	N/A	N/A
Perchlorate_CL35	1.3 N/A	N/A	N/A	110 N/A	N/A	ng/g
Perchlorate_CL37	N/A	N/A	N/A	N/A	N/A	ng/g

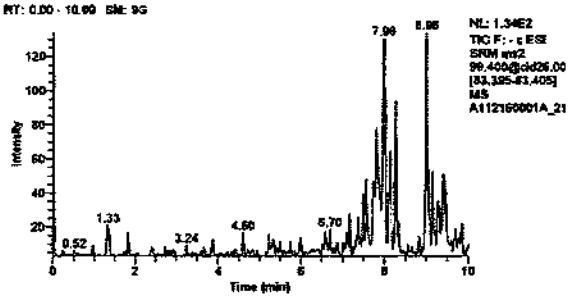
Ion Chromatogram

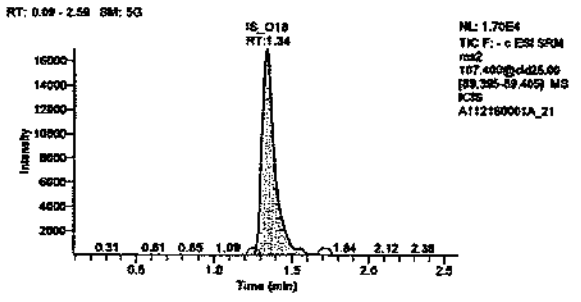
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L Tomayko
Principal Specialist

AUG 18 2011

USF03 1236

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LCMSMS ANALYSIS REPORT

Sample Name:	6339370	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339370	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_22	Dilution Factor:	1.00
Acquisition Date:	08/05/11 05:28:50 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:10	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

Quan Peak Table

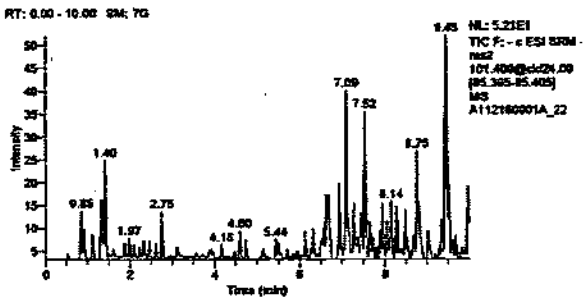
Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	107771.88	N/A	N/A	N/A
Perchlorate_CL35	0.345	1.35	222.77	107771.88	0.002	ng/g
Perchlorate_CL37	N/A	N/A	N/A	N/A	N/A	ng/g

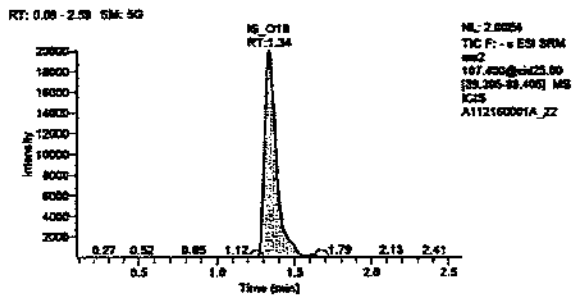
make LOQ 1.4 ng/g

11.93

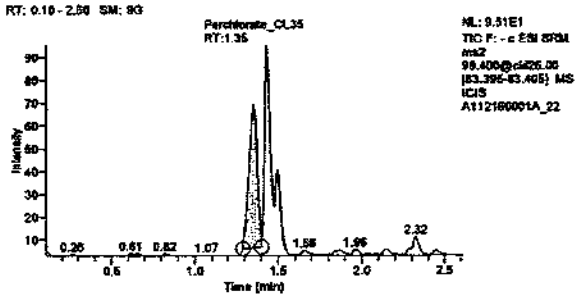
Ion Chromatogram

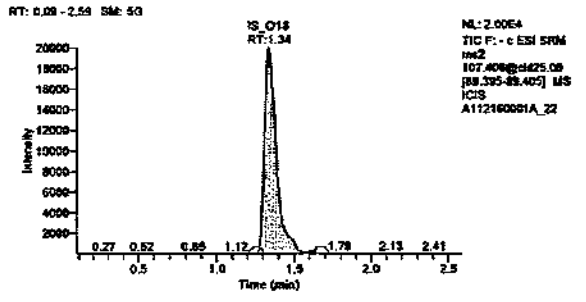
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L. Tomayko
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AUG 18 2011

USP83 1237

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Sample Name:	6339371	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339371	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_23	Dilution Factor:	1.00
Acquisition Date:	08/05/11 05:41:31 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:11	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

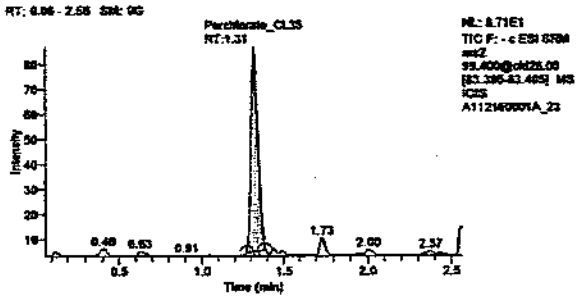
Quan Peak Table

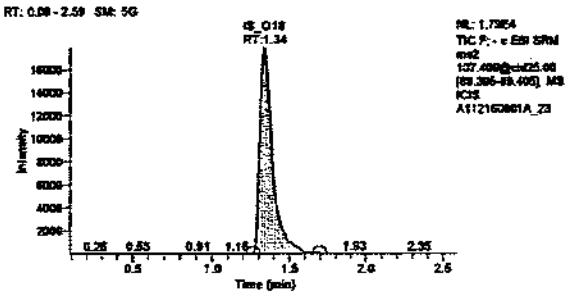
Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	101587.18	N/A	N/A	N/A
Perchlorate_CL35	0.351	1.31	233.71	101587.18	0.002	ng/g
Perchlorate_CL37	0.621	1.32	63.81	101587.18	0.001	ng/g

3.66 117

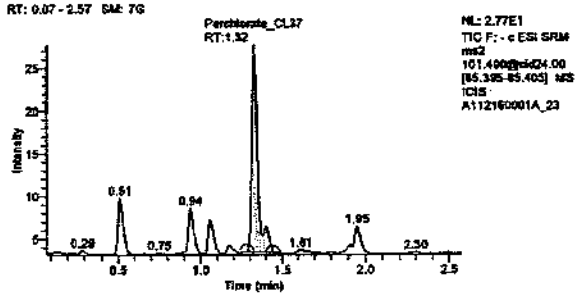
Ion Chromatogram

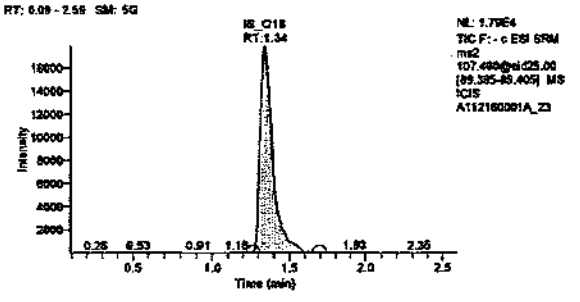
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





Valerie L. Tomayko
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AUG 18 2011

8/18/11

USF03 #238

Friday, August 05, 2011, 11:46:52

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

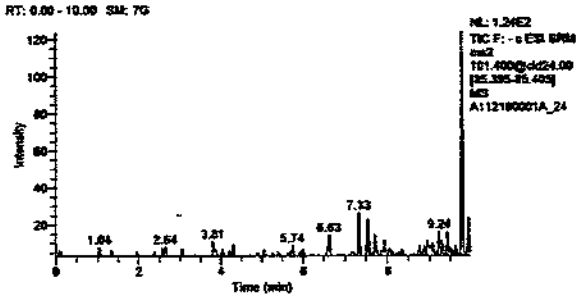
Sample Name:	6339372	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339372	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_24	Dilution Factor:	1.00
Acquisition Date:	08/05/11 05:54:17 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:12	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

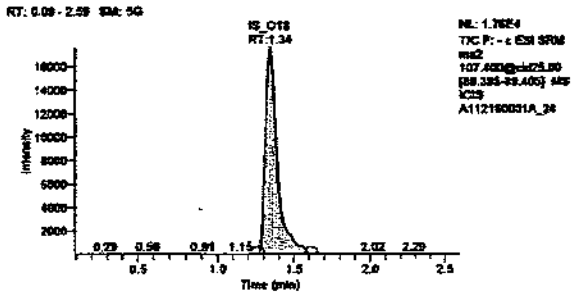
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	96954.34	N/A	N/A	N/A
Perchlorate_CL35	0.308	1.36	73.79	96954.34	0.001	ng/g
Perchlorate_CL37	N/A	N/A	N/A	N/A	N/A	ng/g

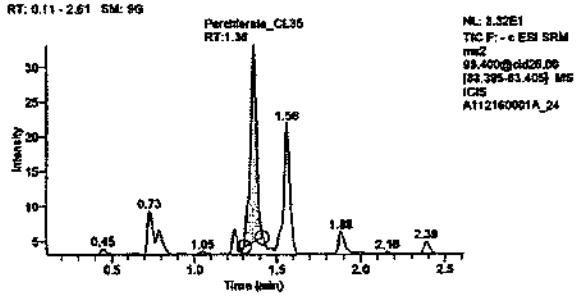
Ion Chromatogram

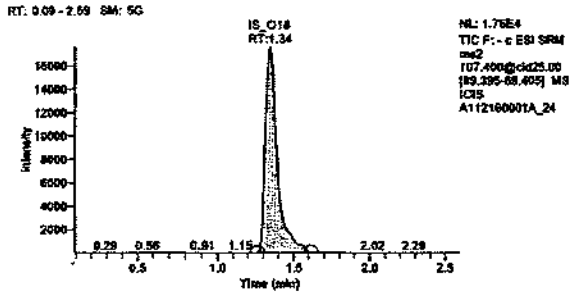
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L. Tomayko
Principal Specialist

AUG 18 2011

USP63 1239

Friday, August 05, 2011, 11:46:53

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LCMSMS ANALYSIS REPORT

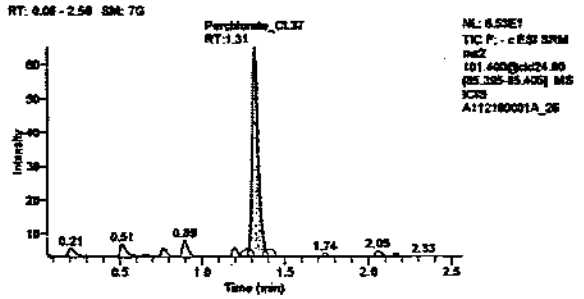
Sample Name:	6339373	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339373	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_26	Dilution Factor:	1.00
Acquisition Date:	08/05/11 06:19:43 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:13	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

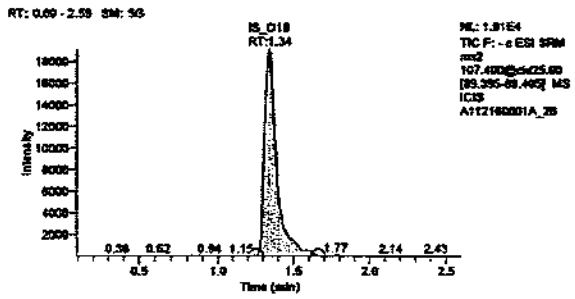
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	108733.12	N/A	N/A	N/A
Perchlorate_CL35	N/A	N/A	N/A	N/A	N/A	ng/g
Perchlorate_CL37	0.686	1.31	157.84	108733.12	0.001	ng/g

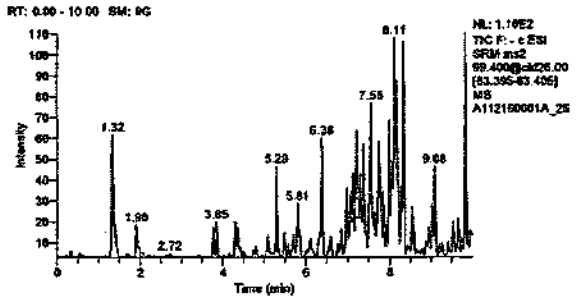
Ion Chromatogram

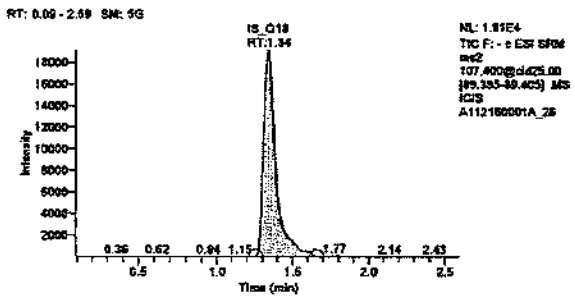
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L. Tomayko
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AUG 18 2011

USF03 1248

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

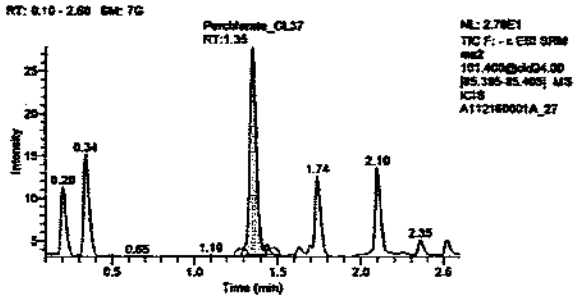
Sample Name:	6339374	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339374	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_27	Dilution Factor:	1.00
Acquisition Date:	08/05/11 06:32:25 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:14	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

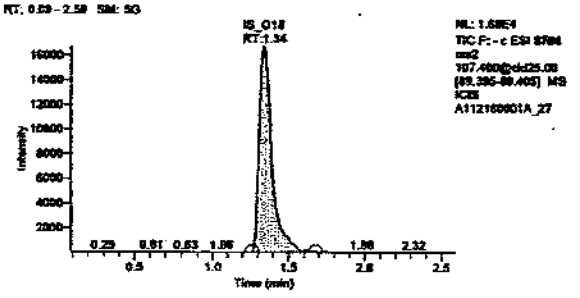
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	97779.07	N/A	N/A	N/A
Perchlorate_CL35	N/A	N/A	N/A	N/A	N/A	ng/g
Perchlorate_CL37	0.627	1.35	68.95	97779.07	0.001	ng/g

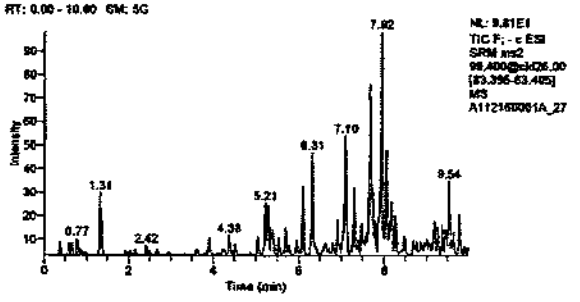
Ion Chromatogram

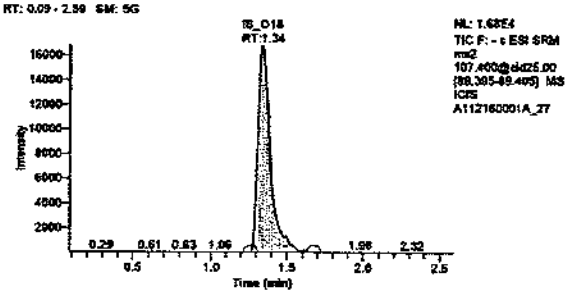
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L. Tomayko
Principal Specialist

AUG 18 2011

USPS3 1241

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LCMSMS ANALYSIS REPORT

Sample Name:	6339375	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339375	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_28	Dilution Factor:	1.00
Acquisition Date:	08/05/11 06:45:11 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:15	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

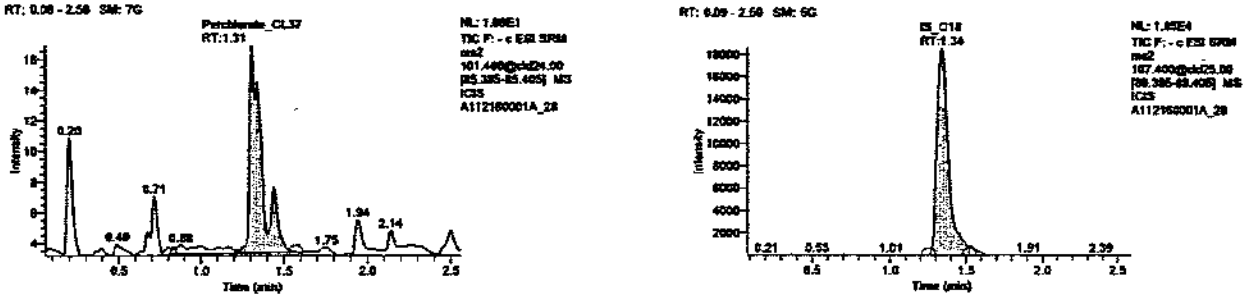
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	99051.91	N/A	N/A	N/A
Perchlorate_CL35	0.374	1.32	311.30	99051.91	0.003	ng/g
Perchlorate_CL37	0.635	1.31	78.96	99051.91	0.001	ng/g

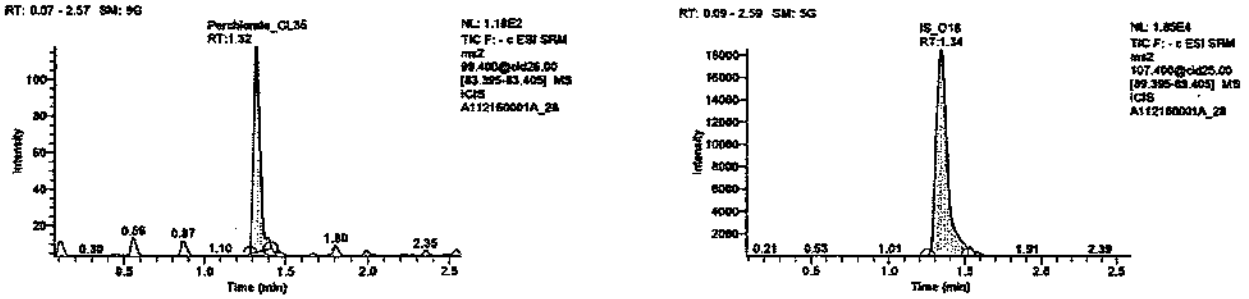
3.94 110

Ion Chromatogram

Component Name: Perchlorate_CL37



Component Name: Perchlorate_CL35



Valerie L. Tomayko
Principal Specialist

AUG 18 2011

USF03 1242

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Sample Name:	6339376	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339376	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_29	Dilution Factor:	1.00
Acquisition Date:	08/05/11 06:57:56 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:16	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

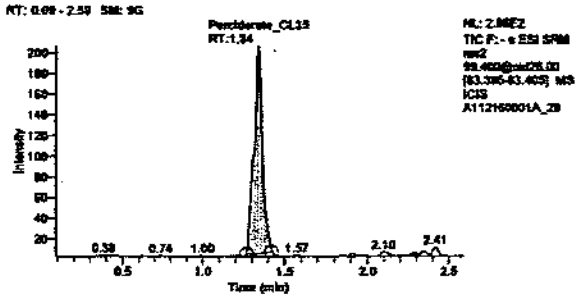
Quan Peak Table

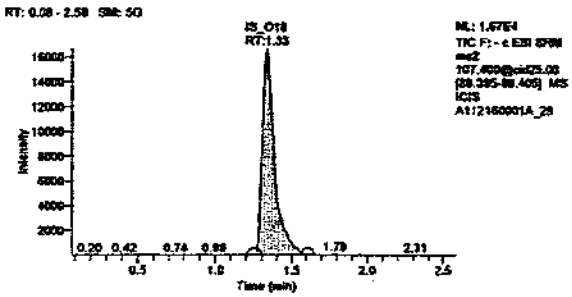
Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.33	92647.17	N/A	N/A	N/A
Perchlorate_CL35	0.502	1.34	718.15	92647.17	0.008	ng/g
Perchlorate_CL37	N/A	N/A	N/A	N/A	N/A	ng/g

0.5 LOQ
MRL
LOD
no CL37
1093

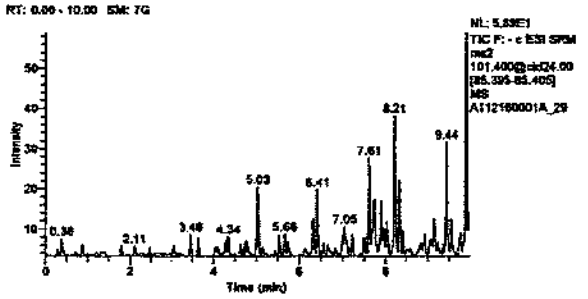
Ion Chromatogram

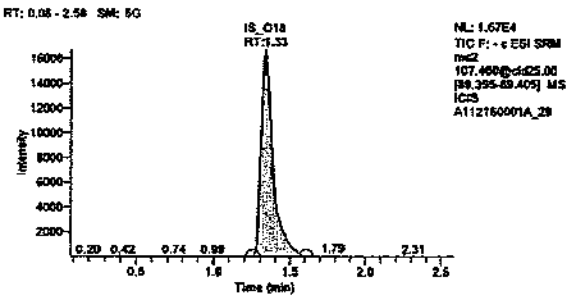
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





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AUG 18 2011

USP93 1243

Friday, August 05, 2011, 11:46:56

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Sample Name:	6339377 (BKG)	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339377 (BKG)	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_17	Dilution Factor:	1.00
Acquisition Date:	08/05/11 04:25:06 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:5	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

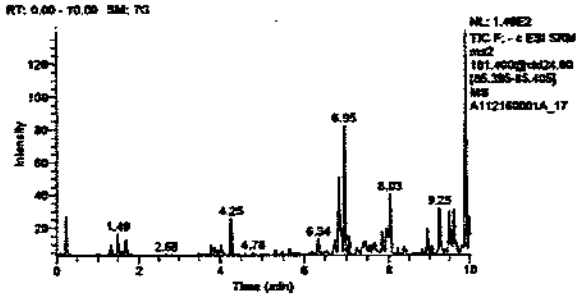
Quan Peak Table

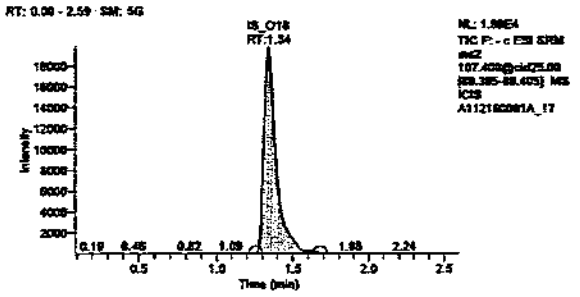
Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	109546.10	N/A	N/A	N/A
Perchlorate_CL35	0.348	1.37	240.63	109546.10	0.002	ng/g
Perchlorate_CL37	N/A	N/A	N/A	N/A	N/A	ng/g

MRL 1.4 ng/g

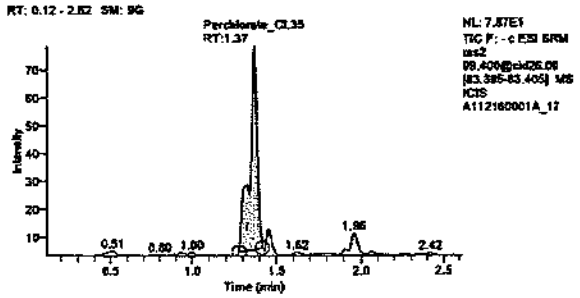
Ion Chromatogram

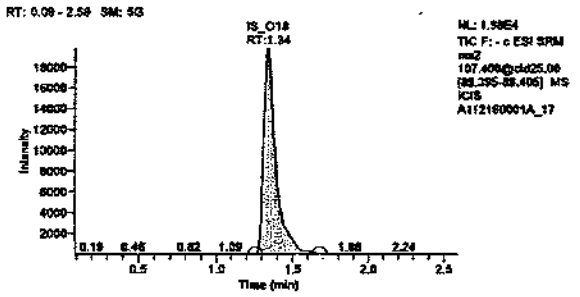
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L. Tomayko
Principal Specialist

AUG 18 2011

USF03 1244

8/17/11

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LCMSMS ANALYSIS REPORT

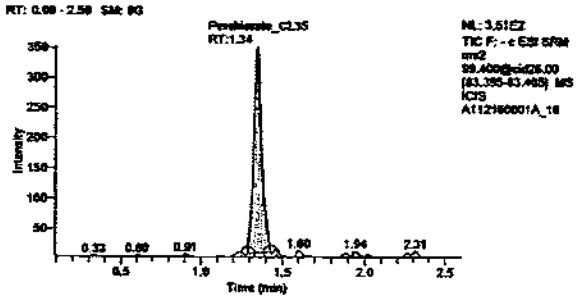
Sample Name:	RL LCS (6339384)	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	RL LCS (6339384)	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_16	Dilution Factor:	1.00
Acquisition Date:	08/05/11 04:12:25 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:4	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

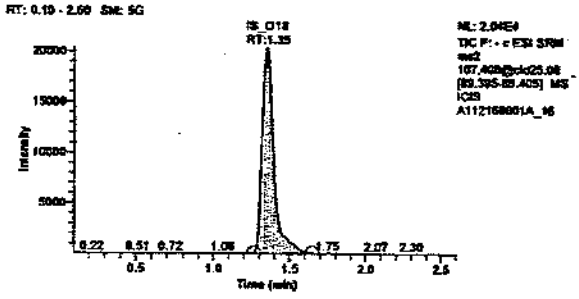
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.35	107811.86	N/A	N/A	N/A
Perchlorate_CL35	0.583	1.34	1151.67	107811.86	0.011	ng/g
Perchlorate_CL37	0.695	1.37	169.55	107811.86	0.002	ng/g

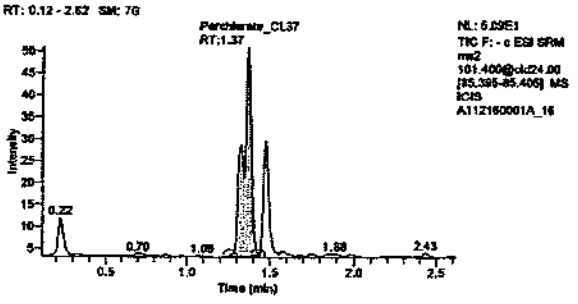
Ion Chromatogram

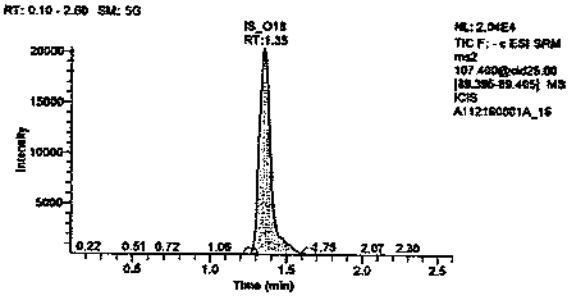
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





Valerie L. Tomayko
Principal Specialist

AUG 18 2011

USF03 1245

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LCMSMS ANALYSIS REPORT

Sample Name:	6339385	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339385	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_30	Dilution Factor:	1.00
Acquisition Date:	08/05/11 07:10:42 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:17	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

Quan Peak Table

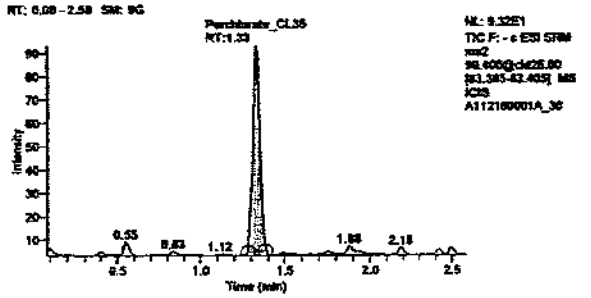
Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	106977.17	N/A	N/A	N/A
Perchlorate_CL35	0.352	1.33	248.98	106977.17	0.002	ng/g
Perchlorate_CL37	0.588	1.36	21.67	106977.17	0.000	ng/g

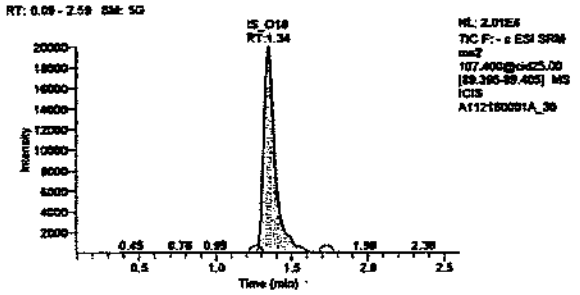
1.4 poor match

11.3 118

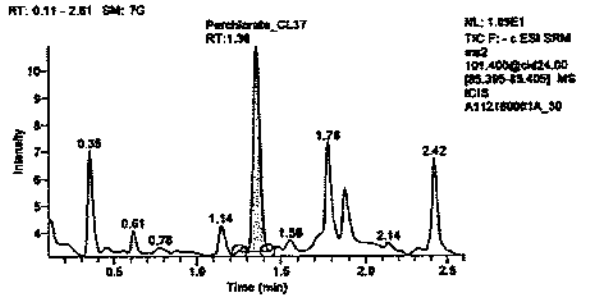
Ion Chromatogram

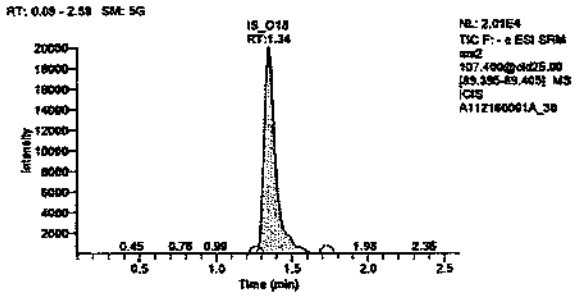
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





Valerie L. Tomayko
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AUG 18 2011

USP83 1246

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

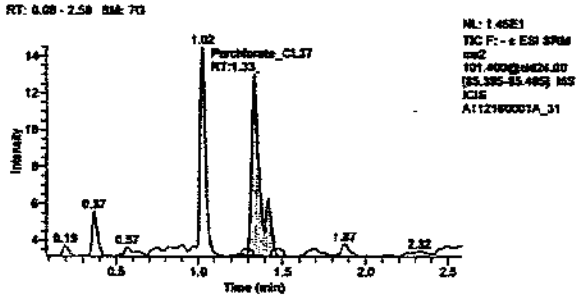
Sample Name:	6339386	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339386	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_31	Dilution Factor:	1.00
Acquisition Date:	08/05/11 07:23:24 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:18	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

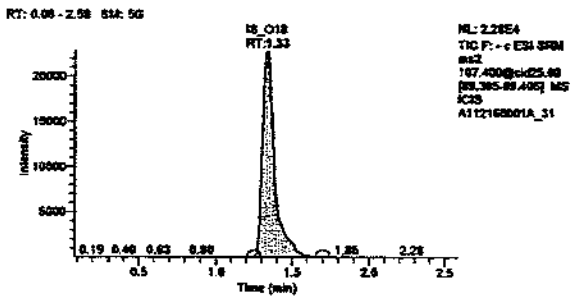
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.33	129510.54	N/A	N/A	N/A
Perchlorate_CL35	N/A	N/A	N/A	N/A	N/A	ng/g
Perchlorate_CL37	0.593	1.33	34.48	129510.54	0.000	ng/g

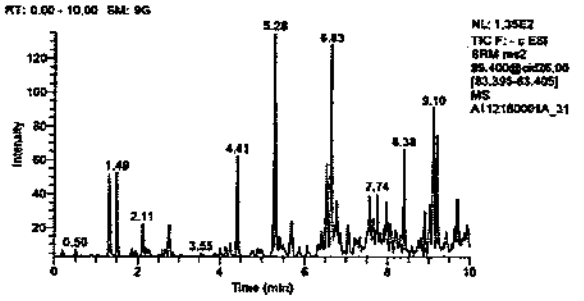
Ion Chromatogram

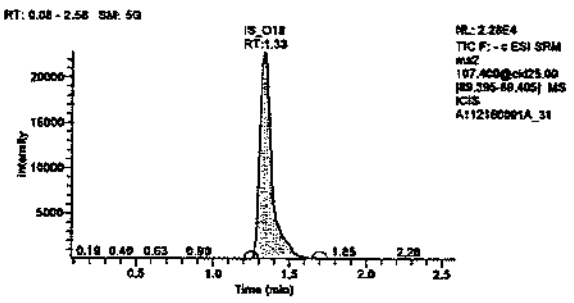
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L. Tomayko
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AUG 18 2011

USF03 1247

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LCMSMS ANALYSIS REPORT

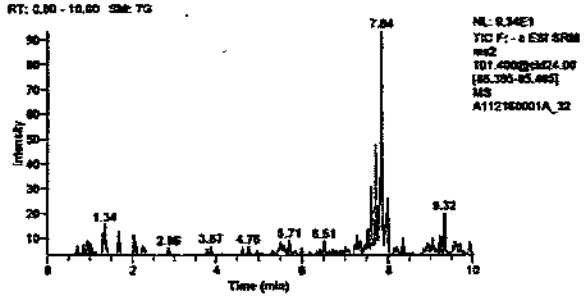
Sample Name:	6339387	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	6339387	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_32	Dilution Factor:	1.00
Acquisition Date:	08/05/11 07:36:10 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:19	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

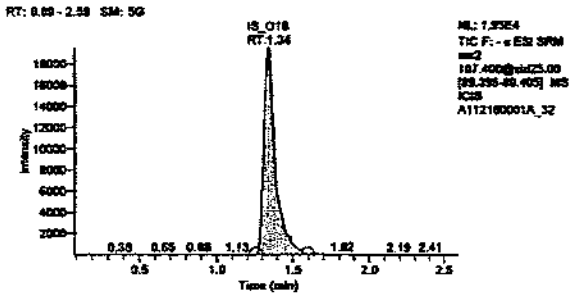
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	103650.21	N/A	N/A	N/A
Perchlorate_CL35	N/A	N/A	N/A	N/A	N/A	ng/g
Perchlorate_CL37	N/A	N/A	N/A	N/A	N/A	ng/g

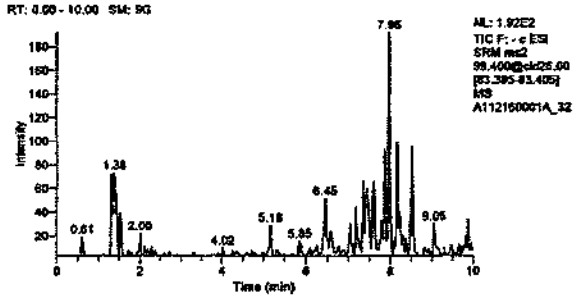
Ion Chromatogram

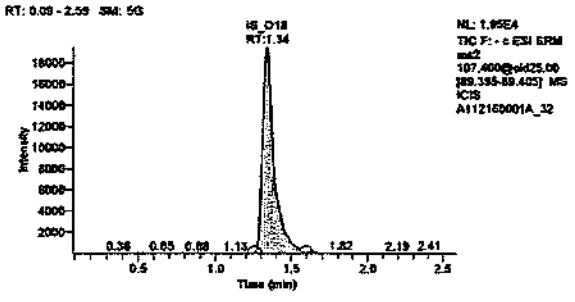
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L Tomsyko
Principal Specialist

AUG 18 2011

USF03 1249

Quant Sample Report (ISTD)

Batch Info

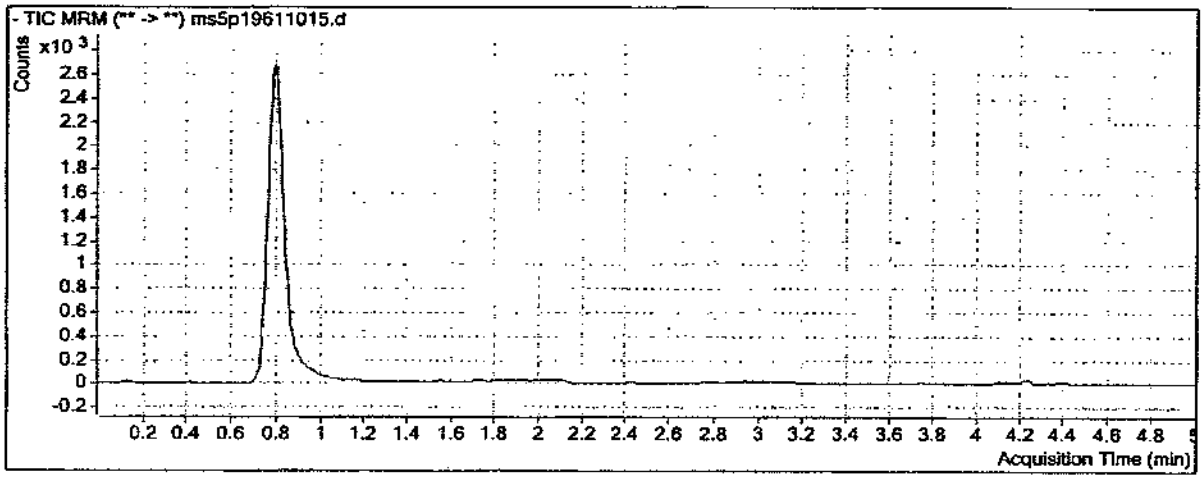
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 18:24
Data File	ms5p19611015.d
Acq Method File	clo4.m
Sample Name	6339388
Sample Info	111960004A
Sample Type	Sample
Level	
Sample Pos	P1-B6

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.786	59	14359	0.0	0.0530	42
ClO4 37	ClO4 18	0.786	21	14359	0.0	0.0213	

97%

Valerie L. Tomayko
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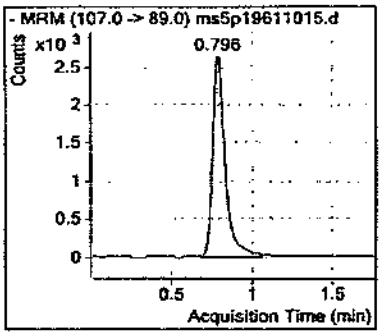
7/18/11

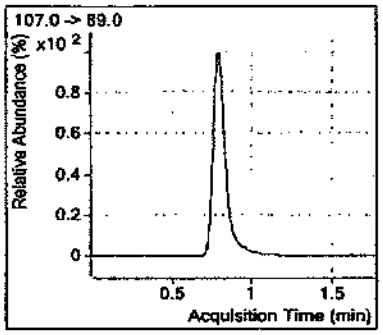
USPB3 1249

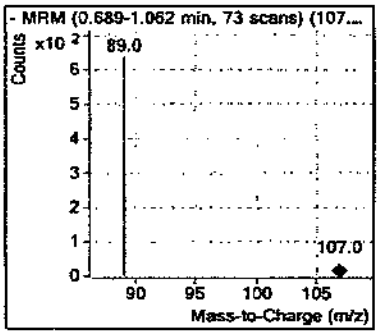
Quant Sample Report (ISTD)

Compound Graphics

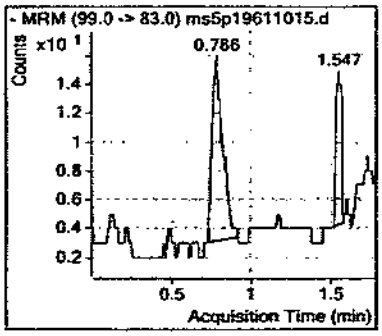
ISTD Compound *ClO4 18*

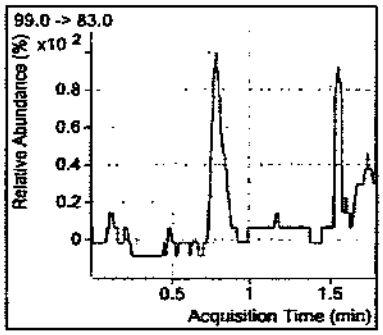


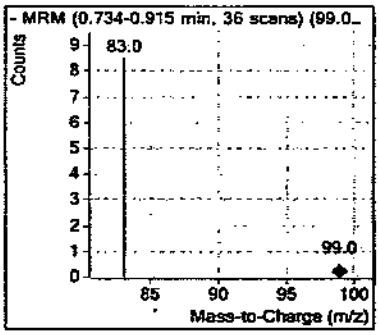




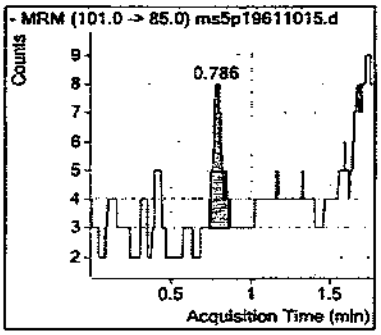
Target Compound *ClO4 35*

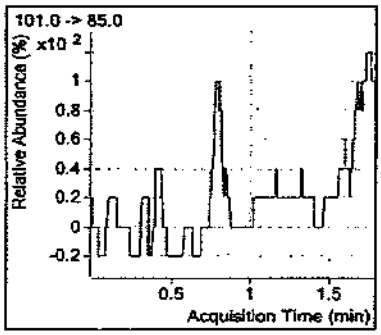


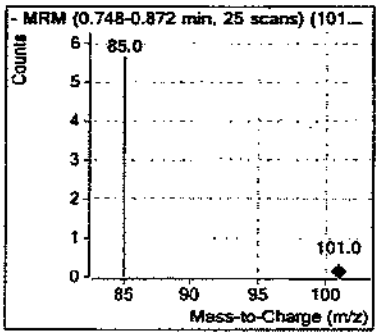




Target Compound *ClO4 37*







Standards Data

USFR3 1265

VOID PAGE 1251-1264
OC 834
08/26/11

Worklist Report

Worklist Path:	D:\MassHunter\Worklists\ms5p19611.wkl

Worklist Run Parameters

Operator Name:	---
Run Type:	Standard Start
Part of Method to Run:	Acquisition Only
Execution for Acquisition-DA:	Synchronous
Acquisition Method Path:	D:\MassHunter\methods
DA Method Path:	D:\MassHunter\methods
Data File Path:	D:\MassHunter\data
Pre-Worklist Script:	---
Post-Worklist Script:	---
Acquisition Clean Up Script:	---
Overlapped Injection:	Yes
Clear sample selection after run:	Yes
Wait Time for Ready(Min):	10
Threshold Disk Value(MB):	10240
Comment:	---

Worklist Table

Sample Name	Sample Position	Method	Data File	Sample Type	Level Name	Dilution	Comment
Conditioner	P1-A1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611001.d	Sample		1	
Conditioner	P1-A2	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611002.d	Sample		1	
Perc11024b	P1-A3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611003.d	Sample		1	
Perc21024b	P1-A4	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611004.d	Calibration	L1	1	
Perc31024b	P1-A5	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611005.d	Calibration	L2	1	
Perc41024b	P1-A6	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611006.d	Calibration	L3	1	

Perc51024b	P1-A7	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611007.d	Calibration	L4	1	
Perc61024b	P1-A8	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611008.d	Calibration	L5	1	
Perc71024b	P1-A9	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611009.d	Calibration	L6	1	
lcperc51024a	P1-B1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611010.d	Sample		1	
Blank	P1-B2	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611011.d	Sample		1	111960004A
LCS	P1-B3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611012.d	Sample		1	111960004A
LCSD	P1-B4	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611013.d	Sample		1	111960004A
6334923	P1-B5	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611014.d	Sample		1	111960004A
6339388	P1-B6	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611015.d	Sample		1	111960004A
6340962	P1-B7	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611016.d	Sample		1	111960004A
6340963	P1-B8	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611017.d	Sample		1	111960004A
6342280	P1-B9	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611018.d	Sample		1	111960004A
6343315	P1-C1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611019.d	Sample		1	111960004A
Blank	P1-C2	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611020.d	Sample		1	111960026A
lcperc21024a	P1-C3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611021.d	Sample		1	
LCS	P1-C4	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611022.d	Sample		1	111960026A
6343255	P1-C5	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611023.d	Sample		1	111960026A
6343255MS	P1-C6	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611024.d	Sample		1	111960026A
6343255MSD	P1-C7	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611025.d	Sample		1	111960026A
6343256	P1-C8	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611026.d	Sample		1	111960026A
6343257	P1-C9	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611027.d	Sample		1	111960026A
6343266	P1-D1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611028.d	Sample		1	111960026A
6343267	P1-D2	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611029.d	Sample		1	111960026A
6343268	P1-D3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611030.d	Sample		1	111960026A
6343269	P1-D4	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611031.d	Sample		1	111960026A
lcperc51024a	P1-B1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611032.d	Sample		1	
6343270	P1-D6	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611033.d	Sample		1	111960026A
6343271	P1-D7	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611034.d	Sample		1	111960026A
6343272	P1-D8	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611035.d	Sample		1	111960026A
6343273	P1-D9	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611036.d	Sample		1	111960026A
6343274	P1-E1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611037.d	Sample		1	111960026A
6343275	P1-E2	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611038.d	Sample		1	111960026A

6343276	P1-E3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611039.d	Sample		1	111960026A
Blank	P1-E4	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611040.d	Sample		5	111960001A
LCS	P1-E5	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611041.d	Sample		5	111960001A
LCSD	P1-E6	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611042.d	Sample		5	111960001A
lcperc21024a	P1-C3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611043.d	Sample		1	
MDLV	P1-E8	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611044.d	Sample		5	111960001A
6337203	P1-E9	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611045.d	Sample		5	111960001A
6337204	P1-F1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611046.d	Sample		5	111960001A
6337205	P1-F2	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611047.d	Sample		5	111960001A
6337206	P1-F3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611048.d	Sample		5	111960001A
6337207	P1-F4	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611049.d	Sample		5	111960001A
6337208	P1-F5	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611050.d	Sample		5	111960001A
6337209	P1-F6	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611051.d	Sample		5	111960001A
6337210	P1-F7	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611052.d	Sample		5	111960001A
6337211	P1-F8	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611053.d	Sample		5	111960001A
lcperc51024a	P1-B1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611054.d	Sample		1	
6337212	P2-A1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611055.d	Sample		5	111960001A
6337213	P2-A2	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611056.d	Sample		5	111960001A
6337214MS	P2-A3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611057.d	Sample		5	111960001A
6337215MSD	P2-A4	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611058.d	Sample		5	111960001A
6337220	P2-A5	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611059.d	Sample		5	111960001A
6337221	P2-A6	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611060.d	Sample		5	111960001A
Blank	P2-A7	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611061.d	Sample		5	111960002A
LCS	P2-A8	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611062.d	Sample		5	111960002A
LCSD	P2-A9	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611063.d	Sample		5	111960002A
6338249	P2-B1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611064.d	Sample		5	111960002A
lcperc21024a	P1-C3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611065.d	Sample		1	
6338250	P2-B3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611066.d	Sample		5	111960002A
6338251	P2-B4	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611067.d	Sample		5	111960002A
6338252	P2-B5	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611068.d	Sample		5	111960002A
6338253	P2-B6	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611069.d	Sample		5	111960002A
6338254MS	P2-B7	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611070.d	Sample		5	111960002A

6338255MSD	P2-B8	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611071.d	Sample		5	111960002A
6338260	P2-B9	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611072.d	Sample		5	111960002A
6338261	P2-C1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611073.d	Sample		5	111960002A
6338262	P2-C2	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611074.d	Sample		5	111960002A
6338263	P2-C3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611075.d	Sample		5	111960002A
lcperc51024a	P1-B1	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611076.d	Sample		1	
6338264	P2-C5	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611077.d	Sample		5	111960002A
6338265	P2-C6	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611078.d	Sample		5	111960002A
lcperc21024a	P1-C3	clo4.m	D:\MassHunter\data\perchlorate\ms5p19611079.d	Sample		1	
SCP_InstrumentStandby(){Acquisition : AcqEngSystem : SCP_System}							

Quant Sample Report (ISTD)

Batch Info

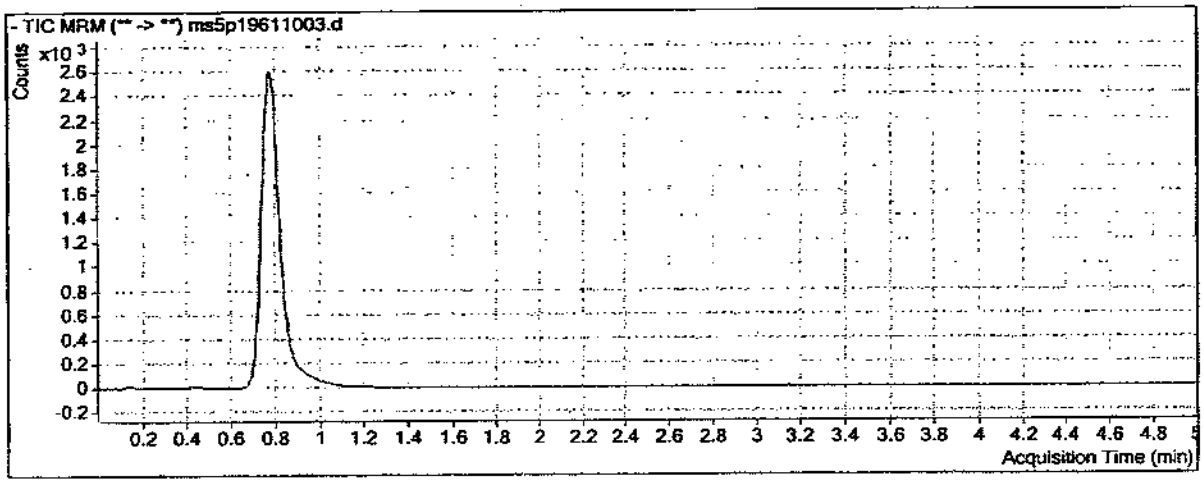
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 17:09
Data File	ms5p19611003.d
Acq Method File	clo4.m
Sample Name	Perc11024b
Sample Info	
Sample Type	Sample
Level	
Sample Pos	P1-A3

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.780	331	15112	0.0	0.2321	
ClO4 37	ClO4 18	0.779	107	15112	0.0	0.1900	

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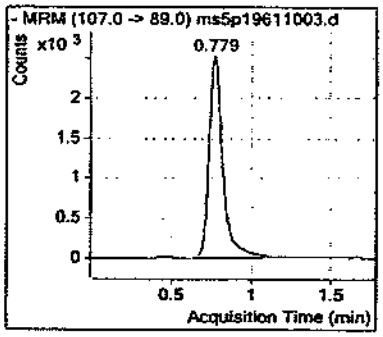
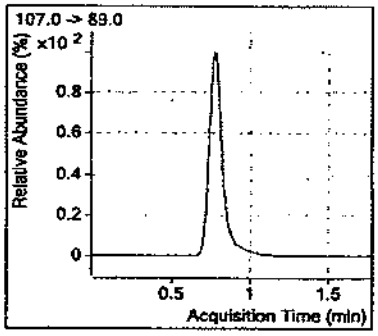
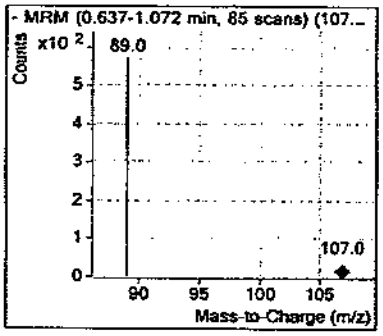
Quant Sample Report (ISTD)

Compound Graphics

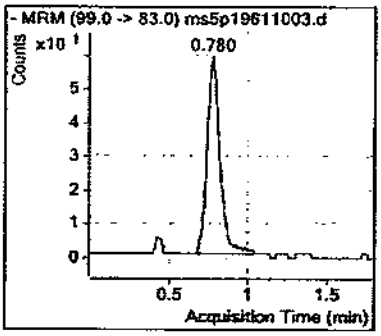
ISTD Compound *ClO4 18*

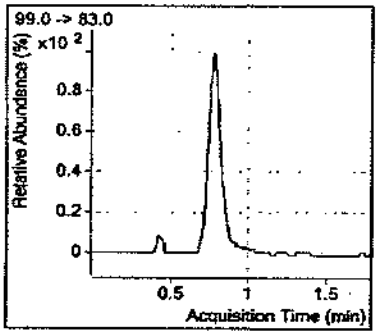


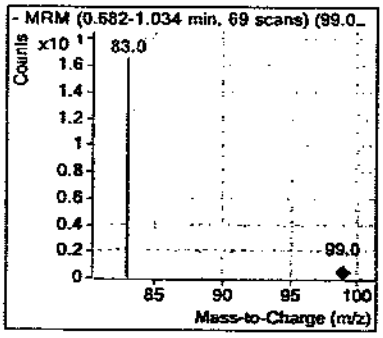




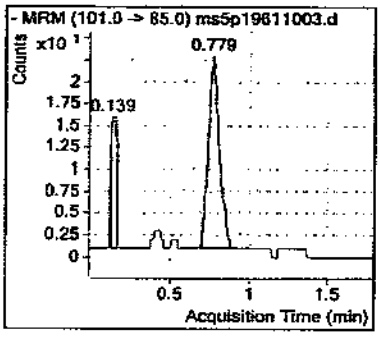
Target Compound *ClO4 35*

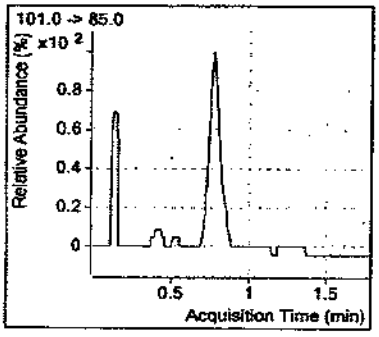


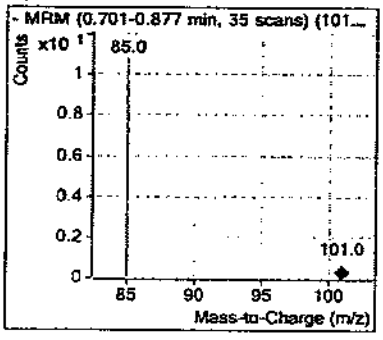




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

Batch Info

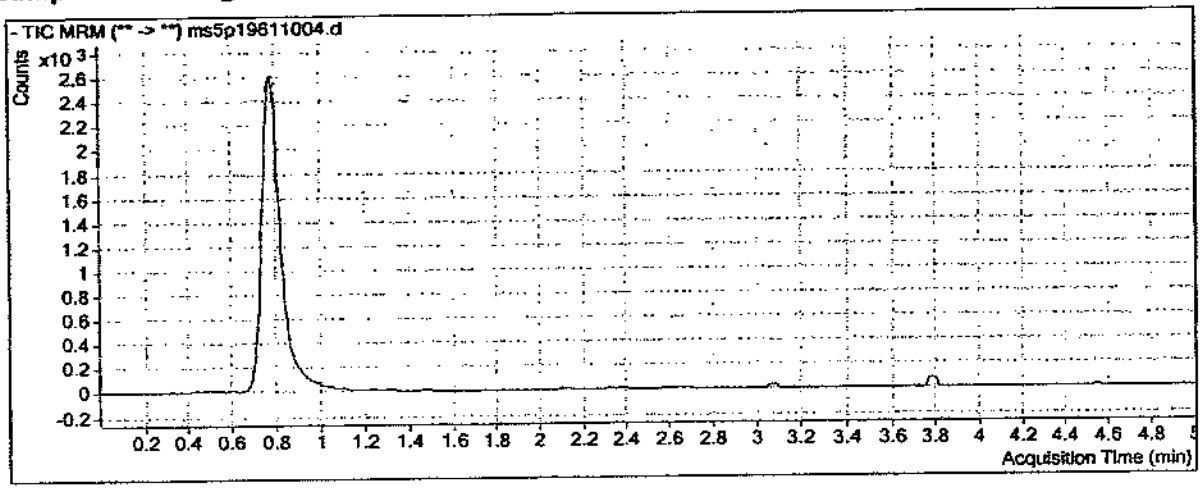
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 17:16
Data File	ms5p19611004.d
Acq Method File	clo4.m
Sample Name	Perc21024b
Sample Info	
Sample Type	Calibration
Level	L1
Sample Pos	P1-A4

Sample Chromatogram



Quantitation Results

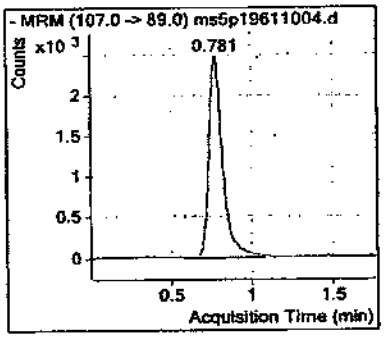
Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.778	612	14898	0.0	0.4256	106.4
ClO4 37	ClO4 18	0.779	218	14898	0.0	0.4169	104.2

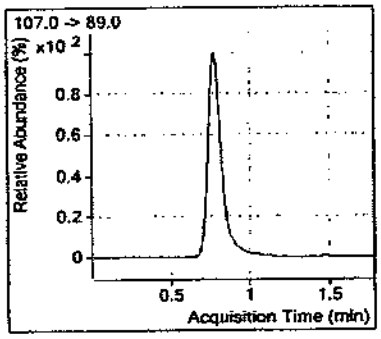
USF003 1272

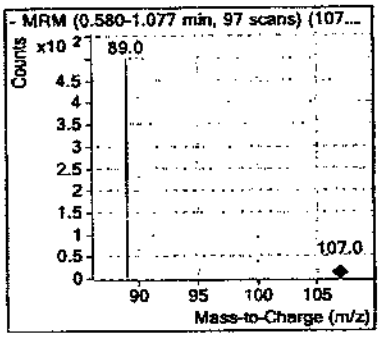
Quant Sample Report (ISTD)

Compound Graphics

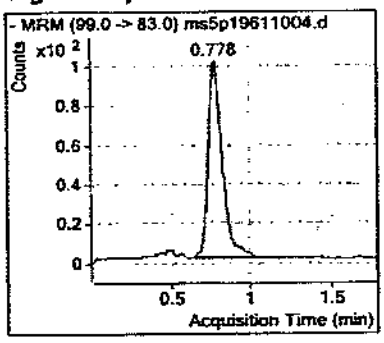
ISTD Compound *ClO4 18*

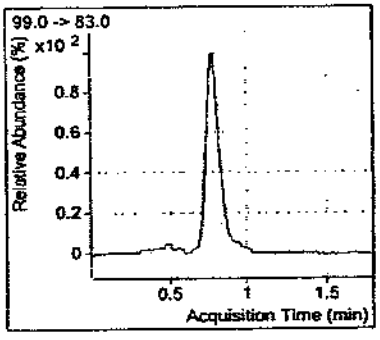


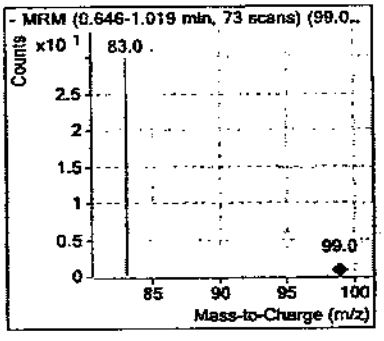




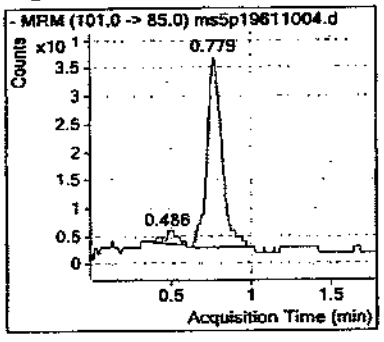
Target Compound *ClO4 35*

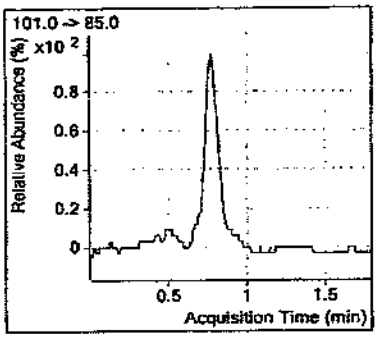


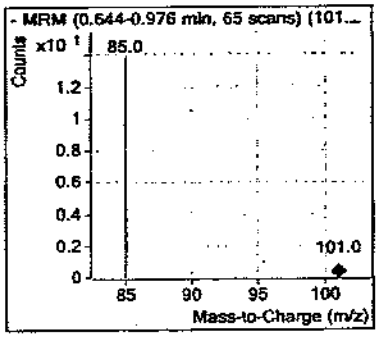




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

Batch Info

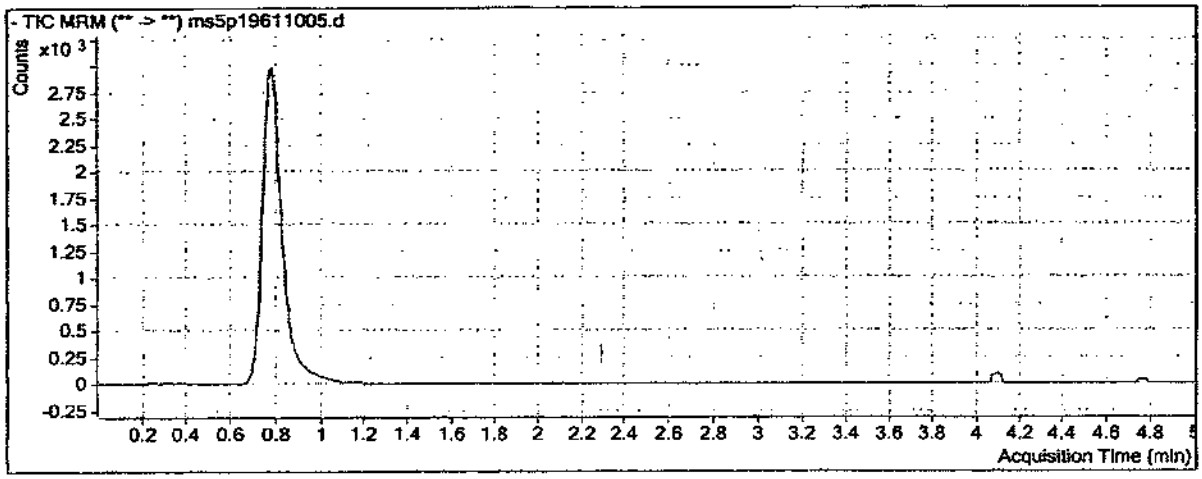
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 17:22
Data File	ms5p19611005.d
Acq Method File	clo4.m
Sample Name	Perc31024b
Sample Info	
Sample Type	Calibration
Level	L2
Sample Pos	P1-A5

Sample Chromatogram



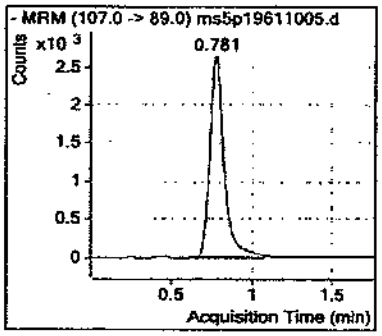
Quantitation Results

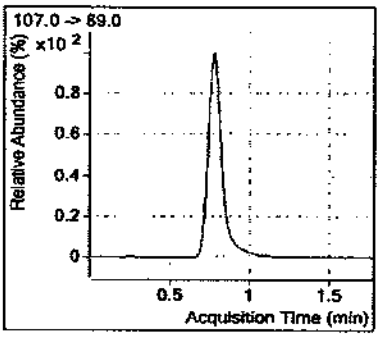
Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.782	1545	16044	0.1	0.9828	98.3
ClO4 37	ClO4 18	0.783	531	16044	0.0	0.9676	96.8

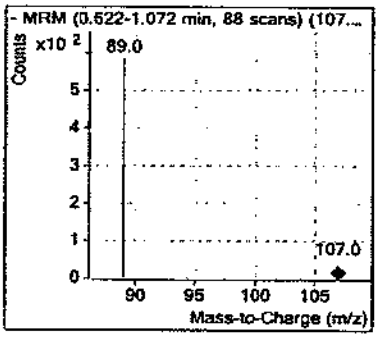
Quant Sample Report (ISTD)

Compound Graphics

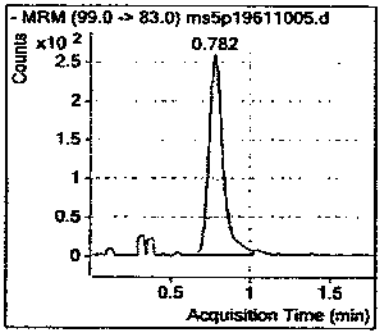
ISTD Compound *ClO4 18*

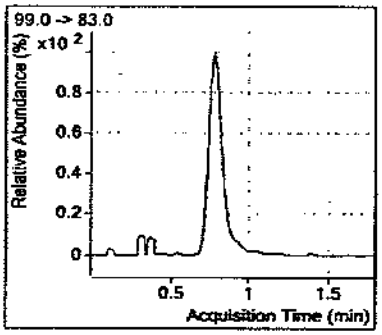


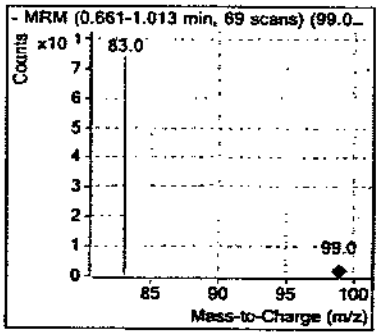




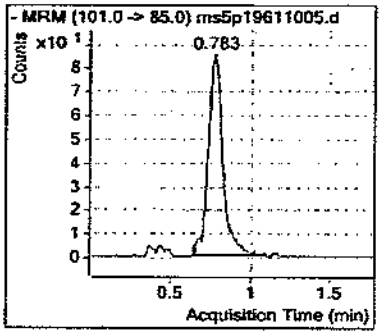
Target Compound *ClO4 35*

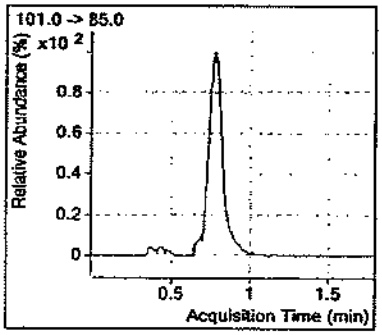


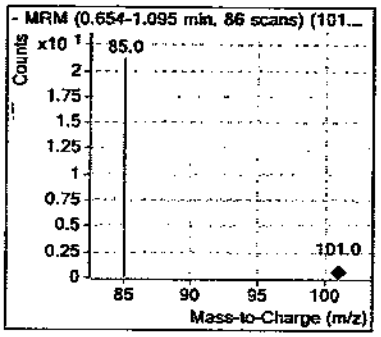




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

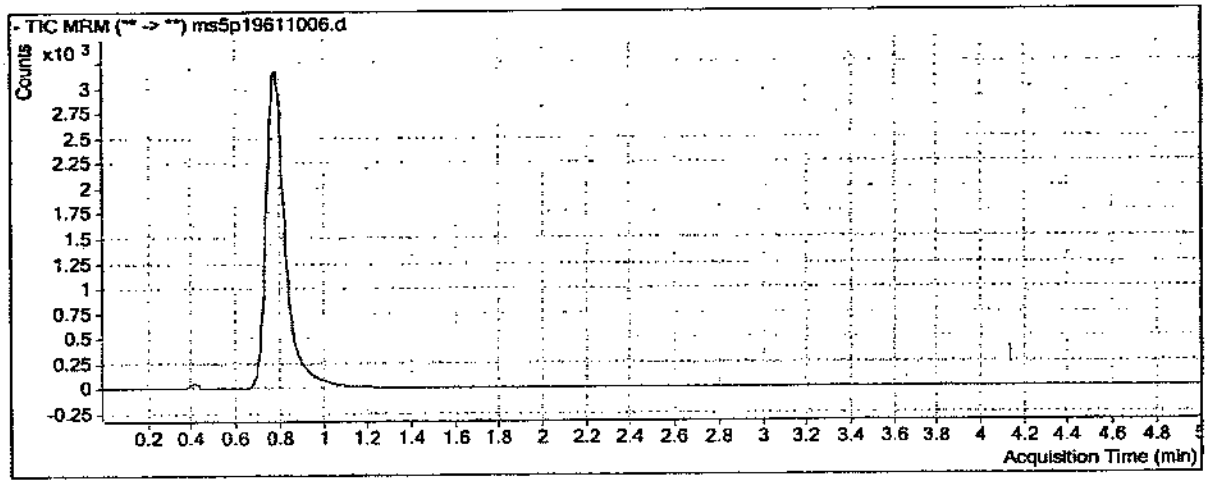
Batch Info

Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml		
Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 17:28
Data File	ms5p19611006.d
Acq Method File	clo4.m
Sample Name	Perc41024b
Sample Info	
Sample Type	Calibration
Level	L3
Sample Pos	P1-A6

Sample Chromatogram



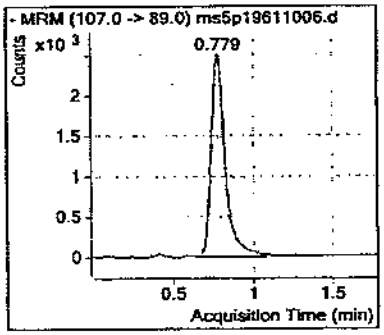
Quantitation Results

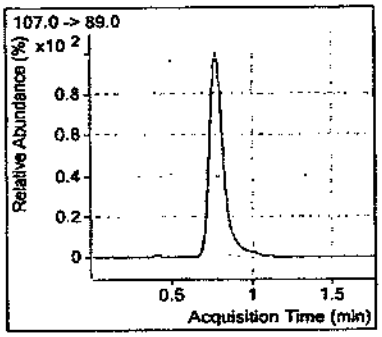
Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.782	3049	15277	0.2	2.0248	101.2
ClO4 37	ClO4 18	0.782	1032	15277	0.1	1.9973	99.9

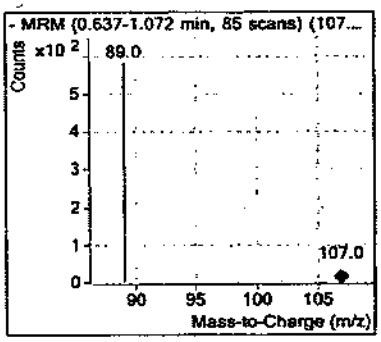
Quant Sample Report (ISTD)

Compound Graphics

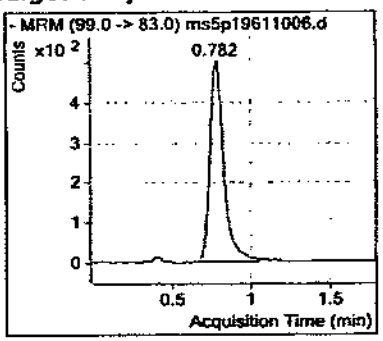
ISTD Compound *ClO4 18*

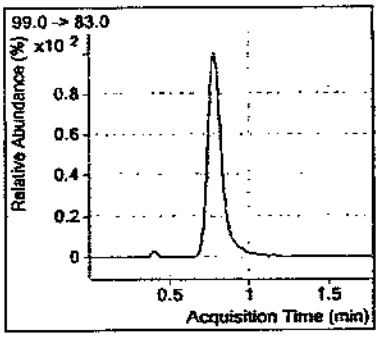


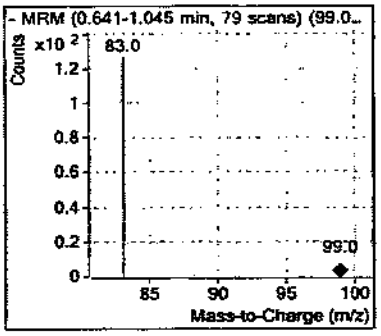




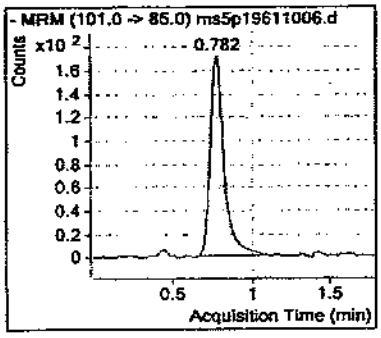
Target Compound *ClO4 35*

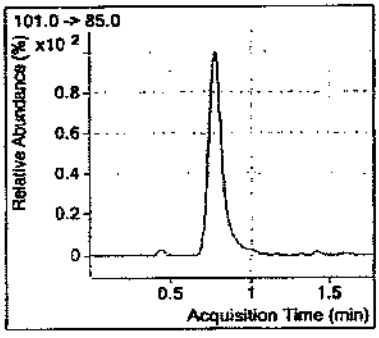


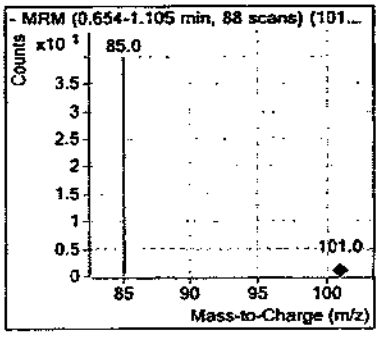




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

Batch Info

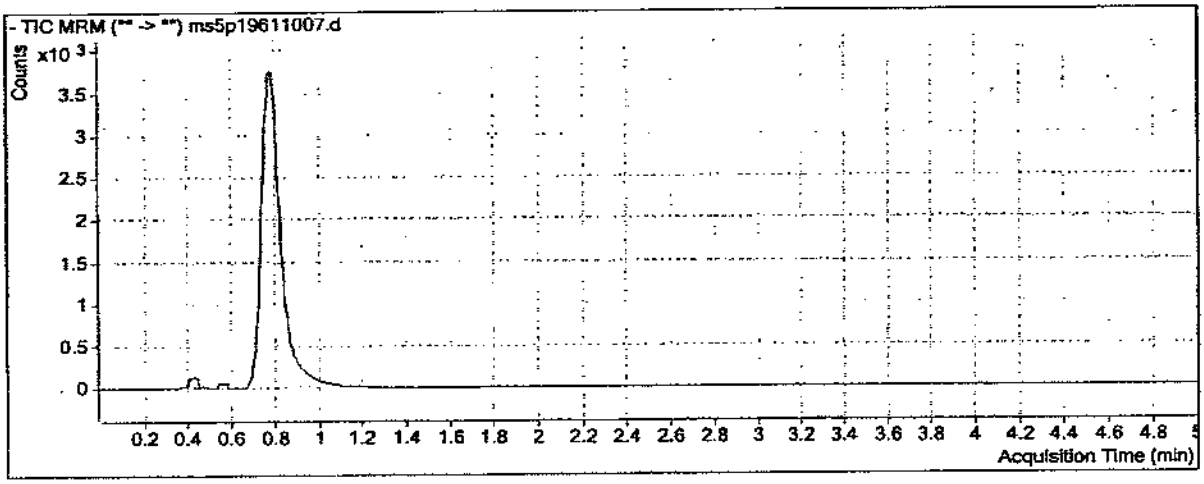
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 17:34
Data File	ms5p19611007.d
Acq Method File	clo4.m
Sample Name	Perc51024b
Sample Info	
Sample Type	Calibration
Level	L4
Sample Pos	P1-A7

Sample Chromatogram



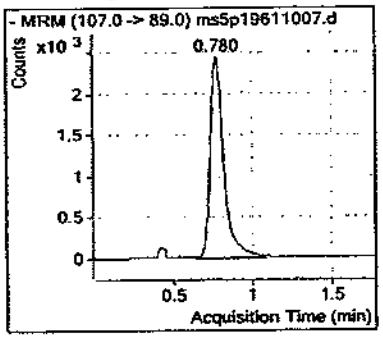
Quantitation Results

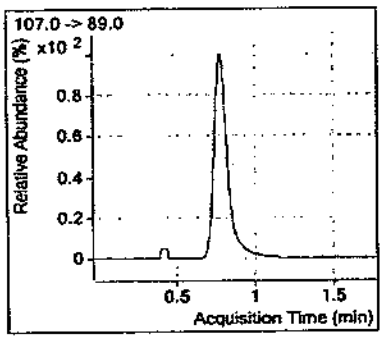
Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.780	5934	14949	0.4	4.0154	100.4
ClO4 37	ClO4 18	0.779	1994	14949	0.1	3.9643	99.1

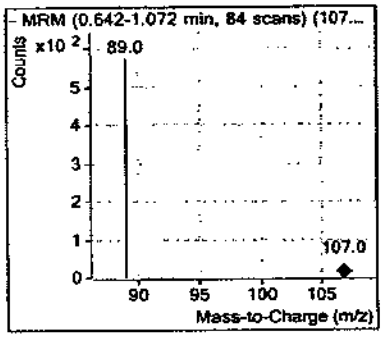
Quant Sample Report (ISTD)

Compound Graphics

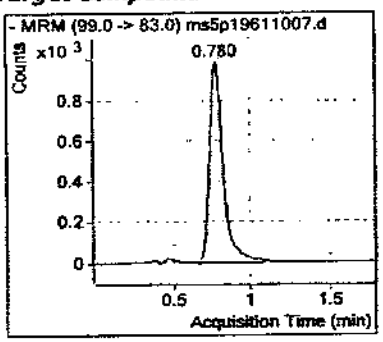
ISTD Compound *ClO4 18*

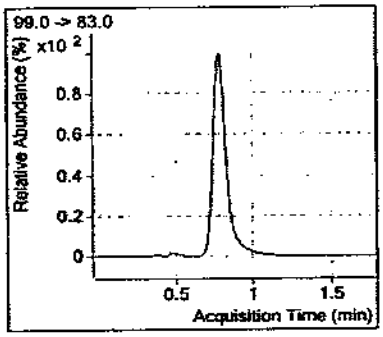


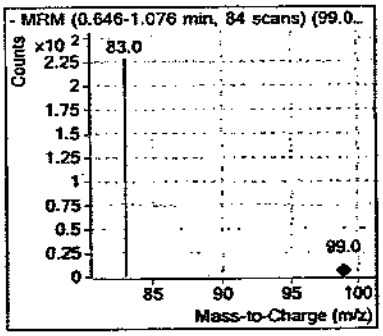




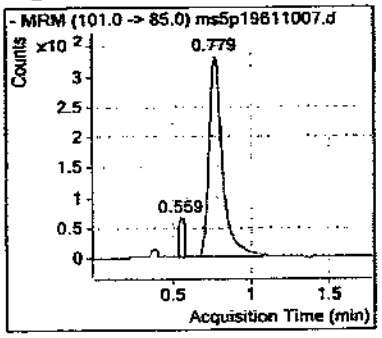
Target Compound *ClO4 35*

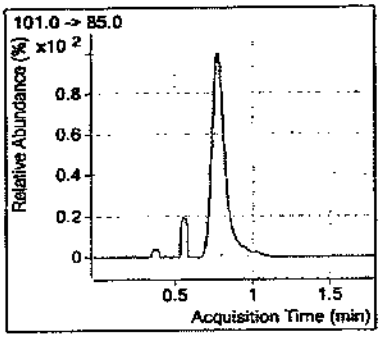


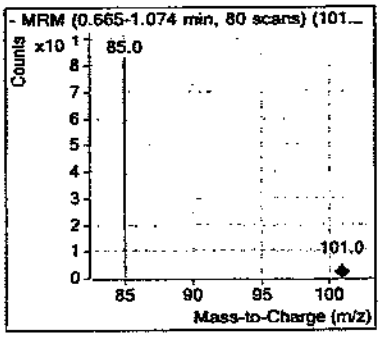




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

Batch Info

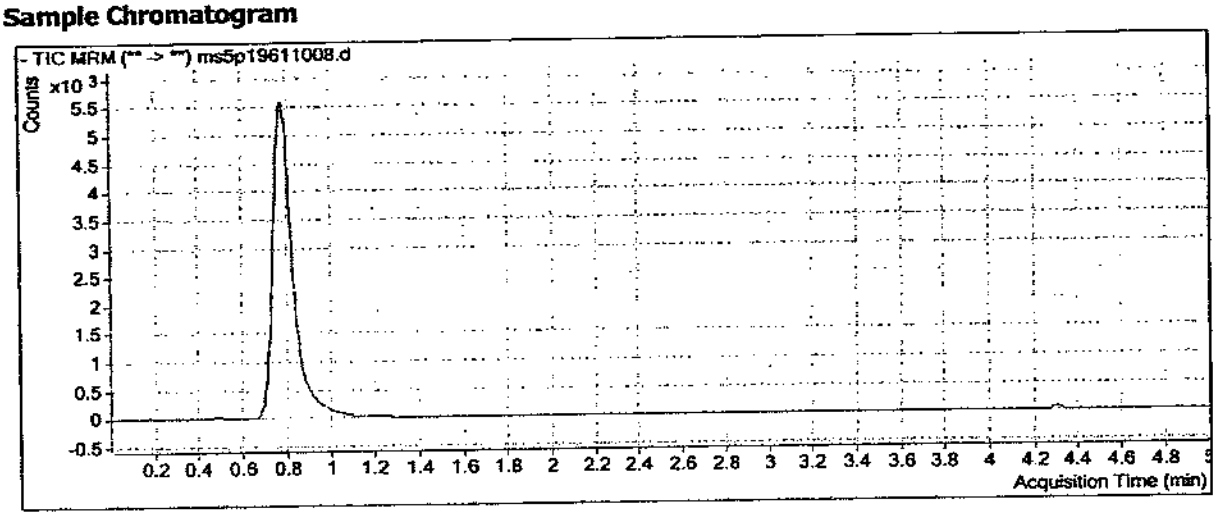
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 17:40
Data File	ms5p19611008.d
Acq Method File	clo4.m
Sample Name	Perc61024b
Sample Info	
Sample Type	Calibration
Level	L5
Sample Pos	P1-A8

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.781	14953	15214	1.0	9.9259	99.3
ClO4 37	ClO4 18	0.782	5089	15214	0.3	9.9737	99.7

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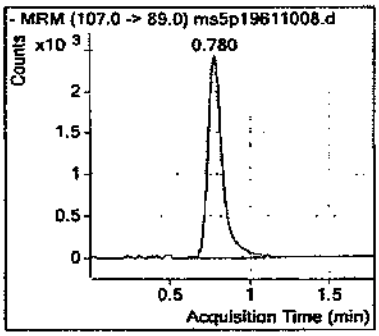
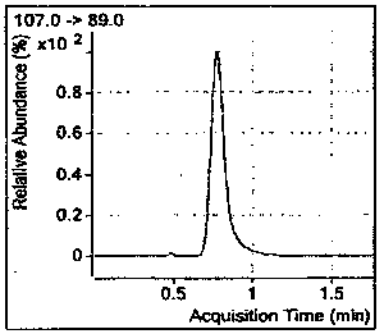
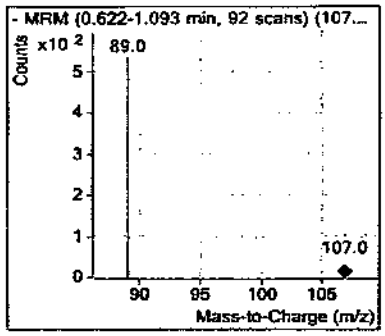
Quant Sample Report (ISTD)

Compound Graphics

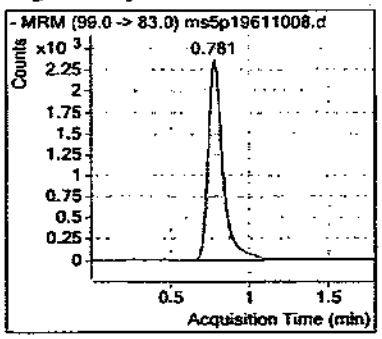
ISTD Compound *ClO4 18*

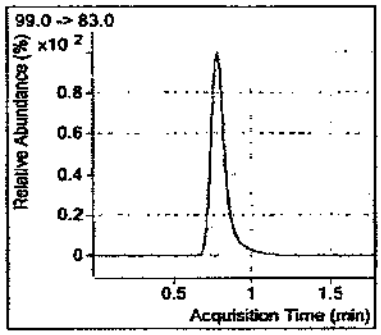


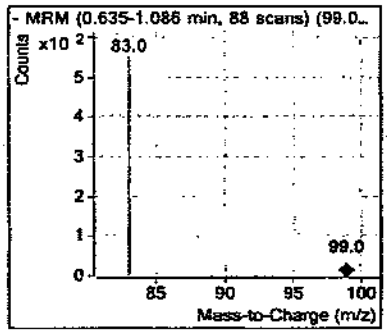




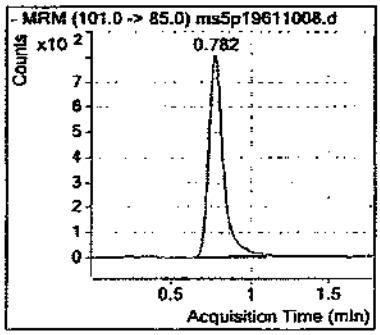
Target Compound *ClO4 35*

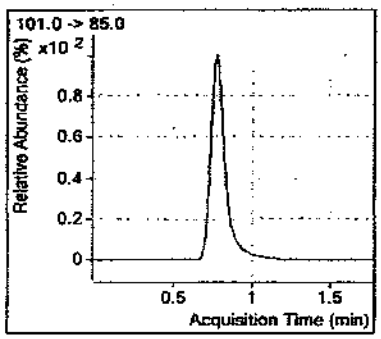


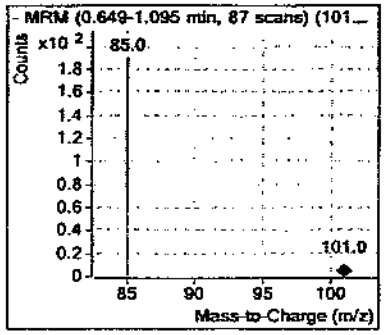




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

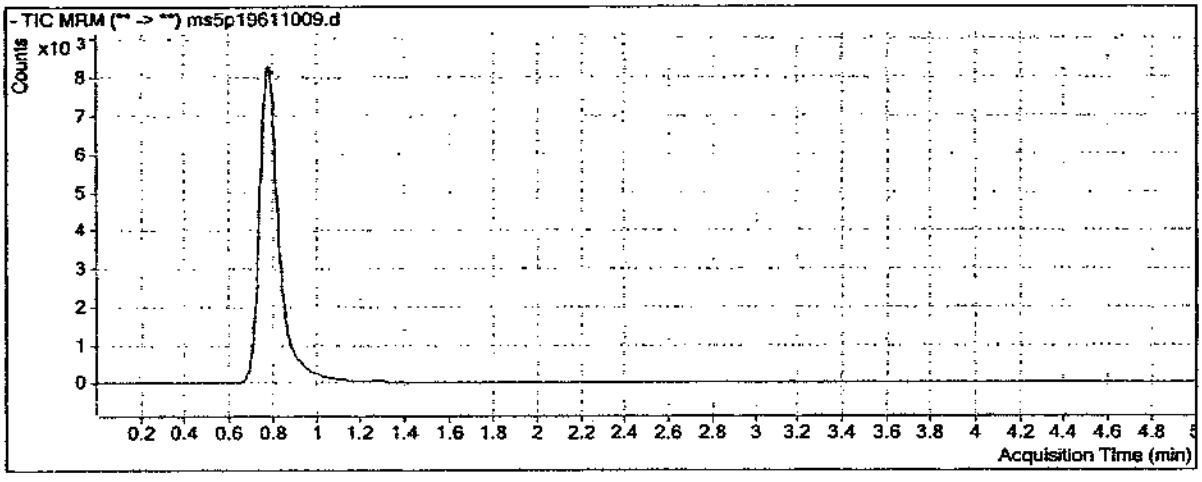
Batch Info

Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml		
Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 17:47
Data File	ms5p19611009.d
Acq Method File	clo4.m
Sample Name	Perc71024b
Sample Info	
Sample Type	Calibration
Level	L6
Sample Pos	P1-A9

Sample Chromatogram



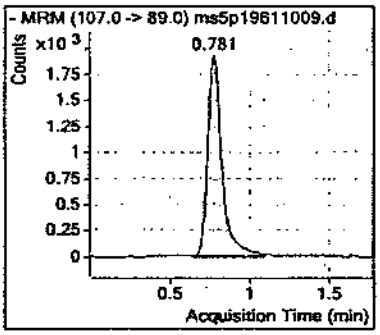
Quantitation Results

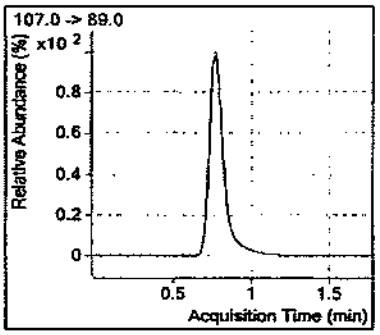
Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.781	29864	12044	2.5	25.0255	100.1
ClO4 37	ClO4 18	0.782	10117	12044	0.8	25.0804	100.3

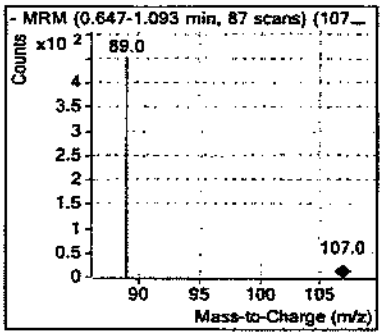
Quant Sample Report (ISTD)

Compound Graphics

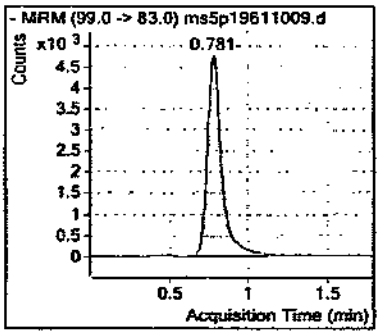
ISTD Compound *ClO4 18*

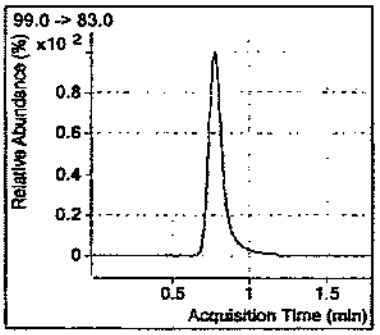


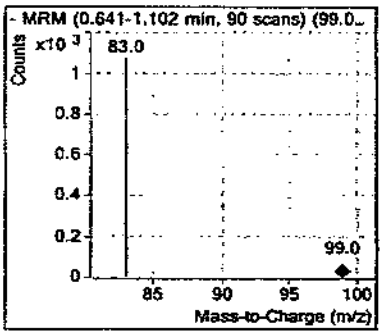




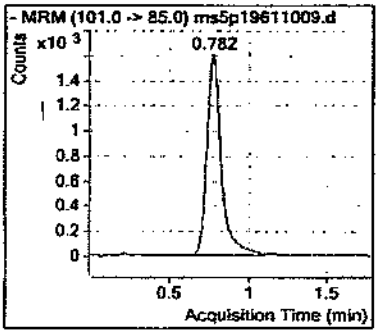
Target Compound *ClO4 35*

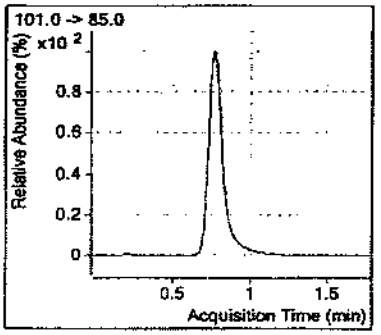


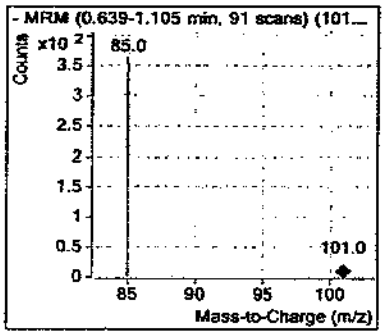




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

Batch Info

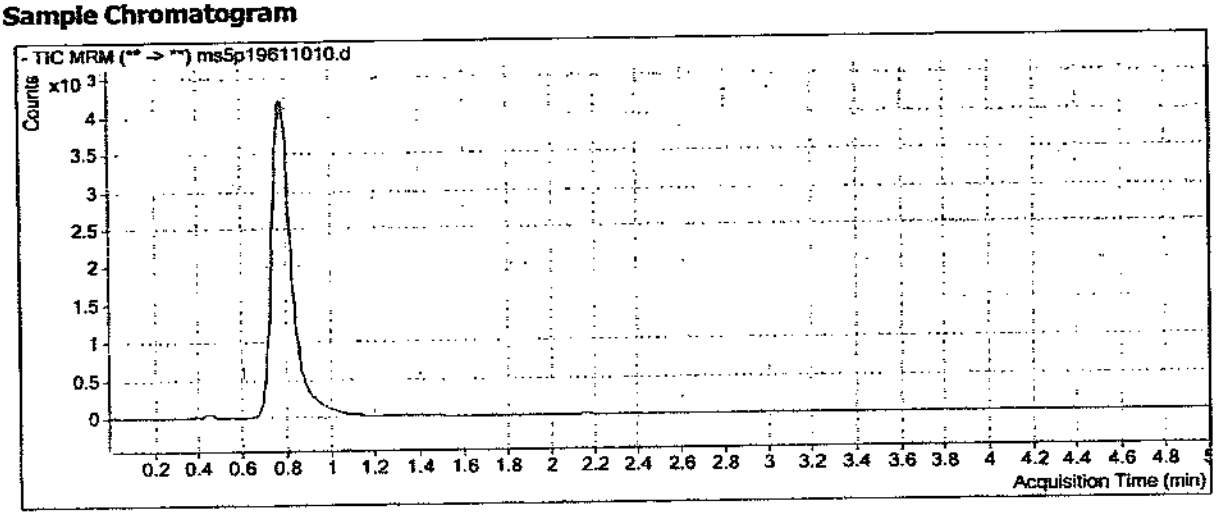
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 17:53
Data File	ms5p19611010.d
Acq Method File	clo4.m
Sample Name	lcperc51024a
Sample Info	
Sample Type	Sample
Level	
Sample Pos	P1-B1

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.779	6926	16955	0.4	4.1320	3%
ClO4 37	ClO4 18	0.781	2315	16955	0.1	4.0582	

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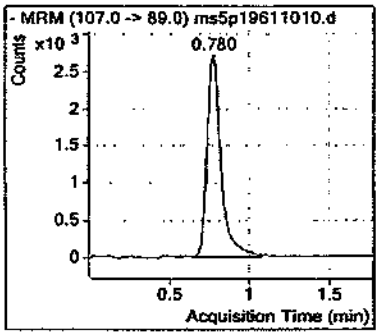
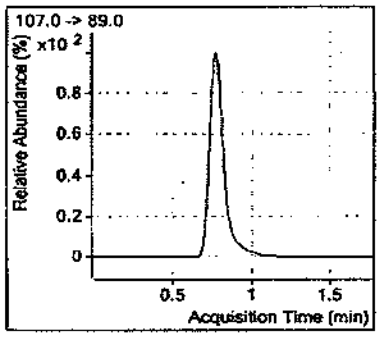
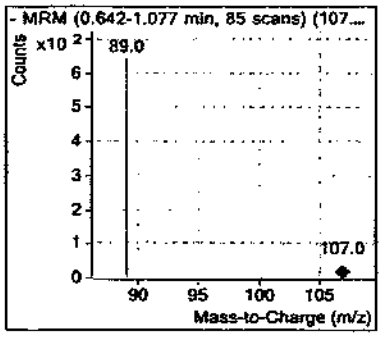
Quant Sample Report (ISTD)

Compound Graphics

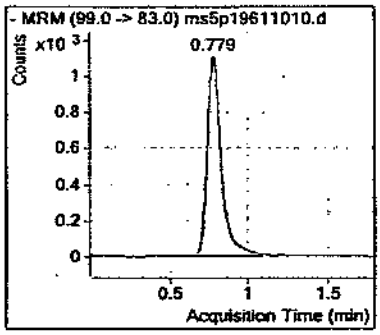
ISTD Compound *ClO4 18*

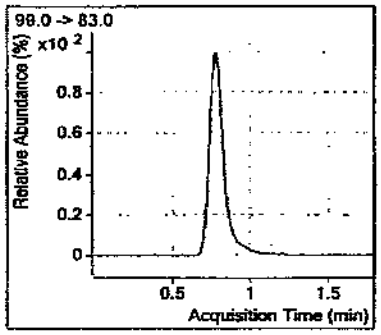


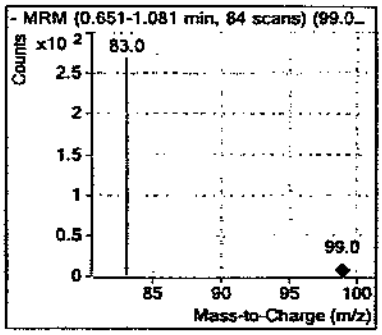




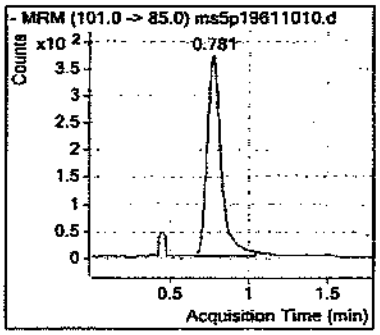
Target Compound *ClO4 35*

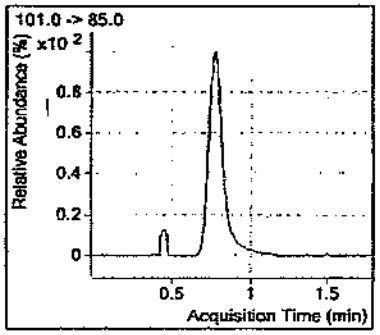


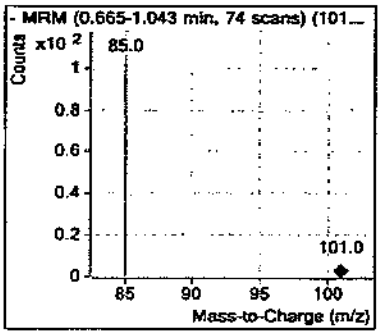




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

Batch Info

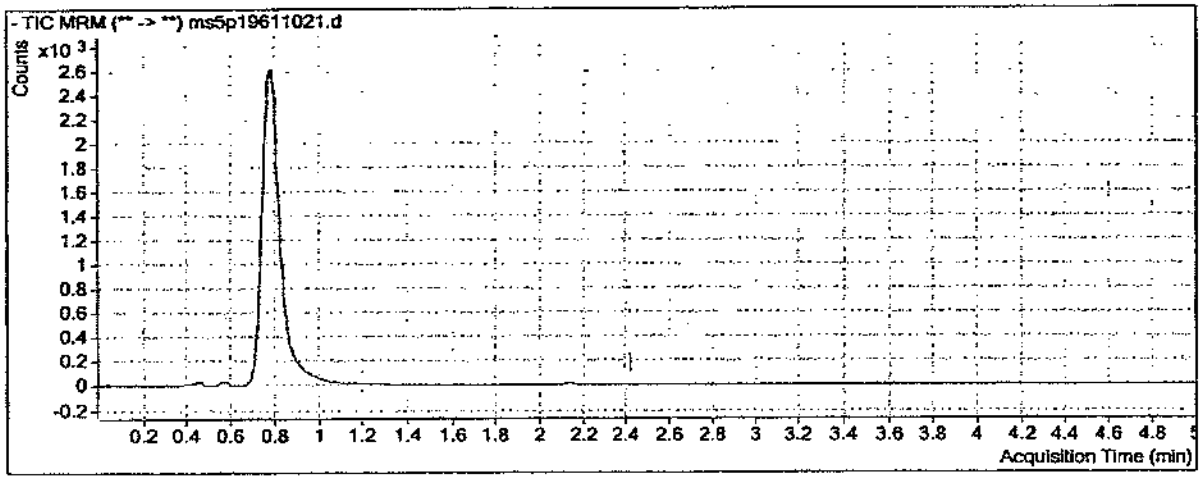
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 19:01
Data File	ms5p19611021.d
Acq Method File	clo4.m
Sample Name	lcperc21024a
Sample Info	
Sample Type	Sample
Level	
Sample Pos	P1-C3

Sample Chromatogram



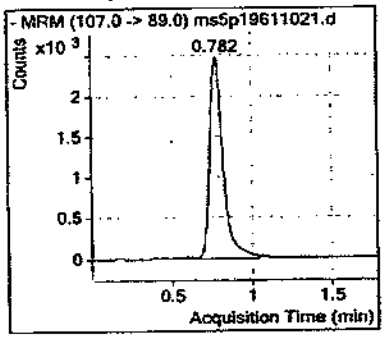
Quantitation Results

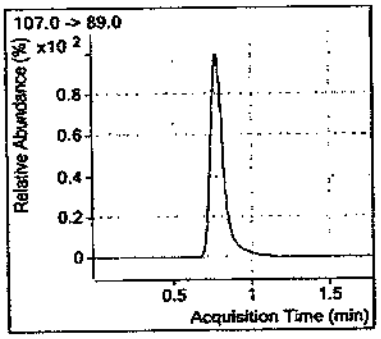
Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.778	637	14356	0.0	0.4587	
ClO4 37	ClO4 18	0.779	210	14356	0.0	0.4162	

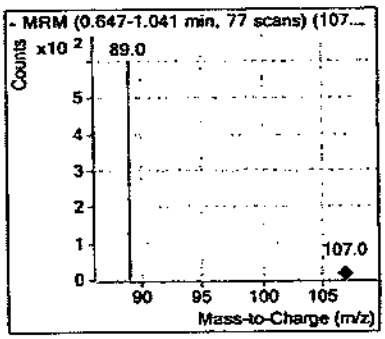
Quant Sample Report (ISTD)

Compound Graphics

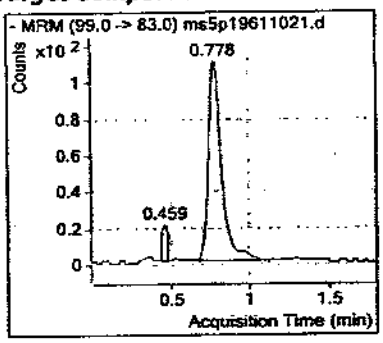
ISTD Compound *ClO4 18*

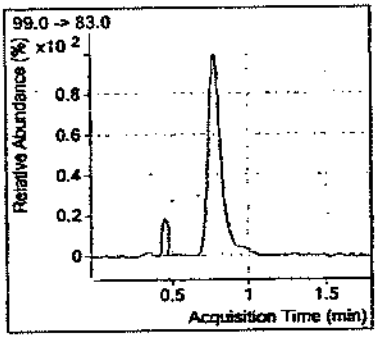


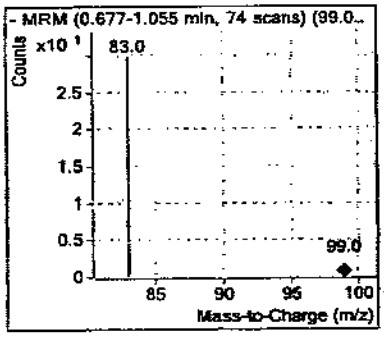




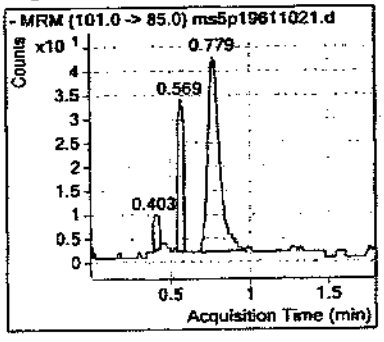
Target Compound *ClO4 35*

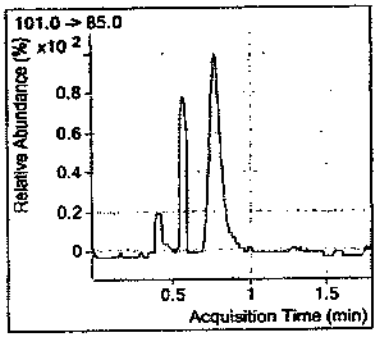


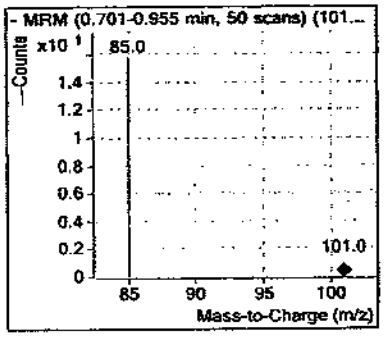




Target Compound *ClO4 37*







Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Quan Summary Table

Component Name	Sample ID	Data File Name	Sample Type	Response	RT	ISTD Response	Response Ratio	Specified Amount	Calculated Amount	Units	% Diff
IS_O18	conditioner	A112160001A_01	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	conditioner	A112160001A_02	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	SYS(MDL)	A112160001A_03	Unknown	92044.67	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	Perc1 1024b	A112160001A_04	Standard	97927.88	1.35	N/A	N/A	1.000	N/A	N/A	N/A
IS_O18	Perc2 1024b	A112160001A_05	Standard	95378.33	1.35	N/A	N/A	1.000	N/A	N/A	N/A
IS_O18	Perc3 1024b	A112160001A_06	Standard	84222.39	1.35	N/A	N/A	1.000	N/A	N/A	N/A
IS_O18	Perc4 1024b	A112160001A_07	Standard	96288.22	1.34	N/A	N/A	1.000	N/A	N/A	N/A
IS_O18	Perc5 1024b	A112160001A_08	Standard	98722.00	1.34	N/A	N/A	1.000	N/A	N/A	N/A
IS_O18	Perc6 1024b	A112160001A_09	Standard	81004.66	1.36	N/A	N/A	1.000	N/A	N/A	N/A
IS_O18	Perc7 1024b	A112160001A_10	Standard	79009.05	1.34	N/A	N/A	1.000	N/A	N/A	N/A
IS_O18	BLK(H2O)	A112160001A_11	Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	BLK(112160001A)	A112160001A_12	Blank	88916.48	1.35	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	lcperc5 1024a	A112160001A_13	QC	84025.23	1.34	N/A	N/A	1.000	N/A	N/A	N/A
IS_O18	LCS (112160001A)	A112160001A_14	Unknown	87895.80	1.35	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	LCSD (112160001A)	A112160001A_15	Unknown	82339.19	1.35	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	RL LCS (6339384)	A112160001A_16	Unknown	107811.86	1.35	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339377 (BKG)	A112160001A_17	Unknown	109546.10	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	MS (6339378)	A112160001A_18	Unknown	100384.29	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	MS (6339379)	A112160001A_19	Unknown	92988.05	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339368	A112160001A_20	Unknown	105672.04	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339369	A112160001A_21	Unknown	99347.49	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339370	A112160001A_22	Unknown	107771.88	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339371	A112160001A_23	Unknown	101587.18	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339372	A112160001A_24	Unknown	96954.34	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	lcperc2 1024a	A112160001A_25	QC	84965.33	1.34	N/A	N/A	1.000	N/A	N/A	N/A
IS_O18	6339373	A112160001A_26	Unknown	108733.12	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339374	A112160001A_27	Unknown	97779.07	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339375	A112160001A_28	Unknown	99051.91	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339376	A112160001A_29	Unknown	92647.17	1.33	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339385	A112160001A_30	Unknown	106977.17	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339386	A112160001A_31	Unknown	129510.54	1.33	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	6339387	A112160001A_32	Unknown	103650.21	1.34	N/A	N/A	N/A	N/A	N/A	N/A
IS_O18	lcperc5 1024a	A112160001A_33	QC	90722.60	1.32	N/A	N/A	1.000	N/A	N/A	N/A
Perchlorate_CL35	conditioner	A112160001A_01	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL35	conditioner	A112160001A_02	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL35	SYS(MDL)	A112160001A_03	Unknown	266.23	1.33	92044.67	0.003	N/A	0.367	ng/g	N/A
Perchlorate_CL35	Perc1 1024b	A112160001A_04	Standard	899.05	1.34	97927.88	0.009	0.400	0.541	ng/g	35.33
Perchlorate_CL35	Perc2 1024b	A112160001A_05	Standard	1261.01	1.35	95378.33	0.013	0.800	0.659	ng/g	-17.64
Perchlorate_CL35	Perc3 1024b	A112160001A_06	Standard	4566.79	1.36	84222.39	0.054	2.000	1.787	ng/g	-10.64
Perchlorate_CL35	Perc4 1024b	A112160001A_07	Standard	11269.59	1.35	96288.22	0.117	4.000	3.525	ng/g	-11.88
Perchlorate_CL35	Perc5 1024b	A112160001A_08	Standard	28173.19	1.34	98722.00	0.285	8.000	8.181	ng/g	2.27
Perchlorate_CL35	Perc6 1024b	A112160001A_09	Standard	59226.71	1.35	81004.66	0.731	20.000	20.512	ng/g	2.56
Perchlorate_CL35	Perc7 1024b	A112160001A_10	Standard	141976.46	1.34	79009.05	1.797	50.000	49.994	ng/g	-0.01
Perchlorate_CL35	BLK(H2O)	A112160001A_11	Blank	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL35	BLK(112160001A)	A112160001A_12	Blank	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL35	lcperc5 1024a	A112160001A_13	QC	24575.41	1.34	84025.23	0.292	8.000	8.378	ng/g	4.72

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AVG FS 90364

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LCMSMS ANALYSIS REPORT

Component Name	Sample ID	Data File Name	Sample Type	Response	RT	ISTD Response	Response Ratio	Specified Amount	Calculated Amount	Units	% Diff
Perchlorate_CL35	LCS (112160001A)	A112160001A_14	Unknown	62304.28	1.36	87895.80	0.709	N/A	19.895	ng/g	N/A
Perchlorate_CL35	LCSD (112160001A)	A112160001A_15	Unknown	62007.14	1.35	82339.19	0.753	N/A	21.118	ng/g	N/A
Perchlorate_CL35	RL LCS (6339384)	A112160001A_16	Unknown	1151.67	1.34	107811.86	0.011	N/A	0.583	ng/g	N/A
Perchlorate_CL35	6339377 (BKG)	A112160001A_17	Unknown	240.63	1.37	109546.10	0.002	N/A	0.348	ng/g	N/A
Perchlorate_CL35	MS (6339378)	A112160001A_18	Unknown	76544.96	1.35	100384.29	0.763	N/A	21.380	ng/g	N/A
Perchlorate_CL35	MS (6339379)	A112160001A_19	Unknown	68014.27	1.34	92988.05	0.731	N/A	20.520	ng/g	N/A
Perchlorate_CL35	6339368	A112160001A_20	Unknown	1225.13	1.34	105672.04	0.012	N/A	0.608	ng/g	N/A
Perchlorate_CL35	6339369	A112160001A_21	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL35	6339370	A112160001A_22	Unknown	222.77	1.35	107771.88	0.002	N/A	0.345	ng/g	N/A
Perchlorate_CL35	6339371	A112160001A_23	Unknown	233.71	1.31	101587.18	0.002	N/A	0.351	ng/g	N/A
Perchlorate_CL35	6339372	A112160001A_24	Unknown	73.79	1.36	96954.34	0.001	N/A	0.308	ng/g	N/A
Perchlorate_CL35	lcperc2 1024a	A112160001A_25	QC	1303.76	1.35	84965.33	0.015	0.800	0.712	ng/g	-11.02
Perchlorate_CL35	6339373	A112160001A_26	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL35	6339374	A112160001A_27	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL35	6339375	A112160001A_28	Unknown	311.30	1.32	99051.91	0.003	N/A	0.374	ng/g	N/A
Perchlorate_CL35	6339376	A112160001A_29	Unknown	718.15	1.34	92647.17	0.008	N/A	0.502	ng/g	N/A
Perchlorate_CL35	6339385	A112160001A_30	Unknown	248.98	1.33	105977.17	0.002	N/A	0.352	ng/g	N/A
Perchlorate_CL35	6339386	A112160001A_31	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL35	6339387	A112160001A_32	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL35	lcperc5 1024a	A112160001A_33	QC	28427.32	1.33	90722.60	0.313	8.000	8.955	ng/g	11.94
Perchlorate_CL37	conditioner	A112160001A_01	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL37	conditioner	A112160001A_02	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL37	SYS(MDL)	A112160001A_03	Unknown	139.85	1.33	92044.67	0.002	N/A	0.691	ng/g	N/A
Perchlorate_CL37	Perc1 1024b	A112160001A_04	Standard	17.33	1.36	97927.88	0.000	0.400	0.586	ng/g	46.52
Perchlorate_CL37	Perc2 1024b	A112160001A_05	Standard	242.98	1.35	95378.33	0.003	0.800	0.772	ng/g	-3.56
Perchlorate_CL37	Perc3 1024b	A112160001A_06	Standard	1013.32	1.33	84222.39	0.012	2.000	1.514	ng/g	-24.32
Perchlorate_CL37	Perc4 1024b	A112160001A_07	Standard	3857.74	1.32	96288.22	0.040	4.000	3.707	ng/g	-7.33
Perchlorate_CL37	Perc5 1024b	A112160001A_08	Standard	7585.55	1.34	98722.00	0.077	8.000	6.584	ng/g	-17.70
Perchlorate_CL37	Perc6 1024b	A112160001A_09	Standard	20917.48	1.35	81004.66	0.258	20.000	20.775	ng/g	3.88
Perchlorate_CL37	Perc7 1024b	A112160001A_10	Standard	51191.18	1.34	79009.05	0.648	50.000	51.263	ng/g	2.53
Perchlorate_CL37	BLK(H2O)	A112160001A_11	Blank	0.00	1.56	0.00	33.432	N/A	0.000	ng/g	N/A
Perchlorate_CL37	BLK(112160001A)	A112160001A_12	Blank	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL37	lcperc5 1024a	A112160001A_13	QC	7617.44	1.33	84025.23	0.091	8.000	7.665	ng/g	-4.19
Perchlorate_CL37	LCS (112160001A)	A112160001A_14	Unknown	18729.34	1.35	87895.80	0.213	N/A	17.243	ng/g	N/A
Perchlorate_CL37	LCSD (112160001A)	A112160001A_15	Unknown	17976.11	1.35	82339.19	0.218	N/A	17.653	ng/g	N/A
Perchlorate_CL37	RL LCS (6339384)	A112160001A_16	Unknown	169.55	1.37	107811.86	0.002	N/A	0.595	ng/g	N/A
Perchlorate_CL37	6339377 (BKG)	A112160001A_17	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL37	MS (6339378)	A112160001A_18	Unknown	24292.60	1.34	100384.29	0.242	N/A	19.505	ng/g	N/A
Perchlorate_CL37	MS (6339379)	A112160001A_19	Unknown	22112.68	1.35	92988.05	0.238	N/A	19.177	ng/g	N/A
Perchlorate_CL37	6339368	A112160001A_20	Unknown	113.31	1.34	105672.04	0.001	N/A	0.656	ng/g	N/A
Perchlorate_CL37	6339369	A112160001A_21	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL37	6339370	A112160001A_22	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL37	6339371	A112160001A_23	Unknown	63.81	1.32	101587.18	0.001	N/A	0.621	ng/g	N/A
Perchlorate_CL37	6339372	A112160001A_24	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL37	lcperc2 1024a	A112160001A_25	QC	254.07	1.34	84965.33	0.003	0.800	0.806	ng/g	0.77
Perchlorate_CL37	6339373	A112160001A_26	Unknown	157.84	1.31	108733.12	0.001	N/A	0.686	ng/g	N/A
Perchlorate_CL37	6339374	A112160001A_27	Unknown	68.95	1.35	97779.07	0.001	N/A	0.627	ng/g	N/A
Perchlorate_CL37	6339375	A112160001A_28	Unknown	78.96	1.31	99051.91	0.001	N/A	0.635	ng/g	N/A
Perchlorate_CL37	6339376	A112160001A_29	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A

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LCMSMS ANALYSIS REPORT

Component Name	Sample ID	Data File Name	Sample Type	Response	RT	ISTD Response	Response Ratio	Specified Amount	Calculated Amount	Units	% Diff
Perchlorate_CL37	6339385	A112160001A_30	Unknown	21.67	1.36	106977.17	0.000	N/A	0.588	ng/g	N/A
Perchlorate_CL37	6339386	A112160001A_31	Unknown	34.48	1.33	129510.54	0.000	N/A	0.593	ng/g	N/A
Perchlorate_CL37	6339387	A112160001A_32	Unknown	N/A	N/A	N/A	N/A	N/A	N/A	ng/g	N/A
Perchlorate_CL37	lcperc5 1024a	A112160001A_33	QC	6850.84	1.33	90722.60	0.076	8.000	6.480	ng/g	-19.00

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LCMSMS ANALYSIS REPORT

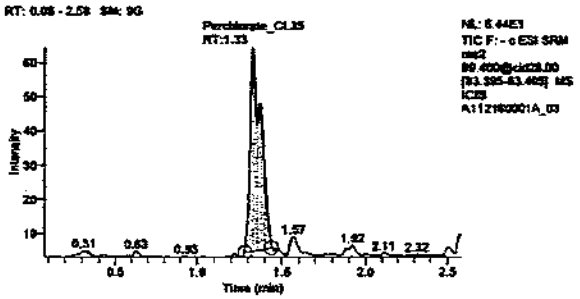
Sample Name:	SYS(MDL)	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	SYS(MDL)	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_03	Dilution Factor:	1.00
Acquisition Date:	08/05/11 01:26:55 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	e:1	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

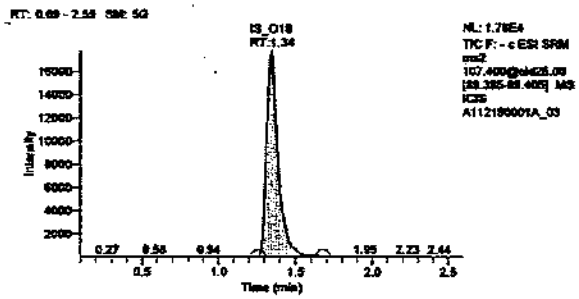
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	92044.67	N/A	N/A	N/A
Perchlorate_CL35	0.367	1.33	266.23	92044.67	0.003	ng/g
Perchlorate_CL37	0.691	1.33	139.85	92044.67	0.002	ng/g

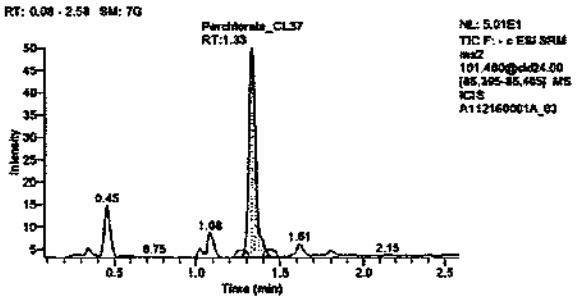
Ion Chromatogram

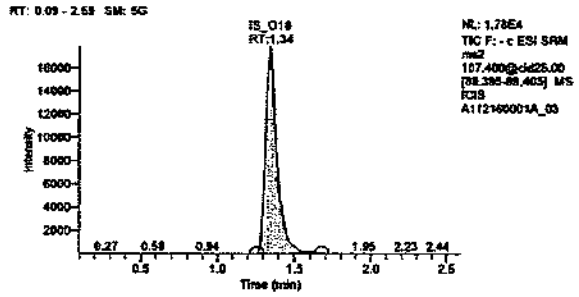
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





USF03 1291

Friday, August 05, 2011, 11:46:44

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LCMSMS ANALYSIS REPORT

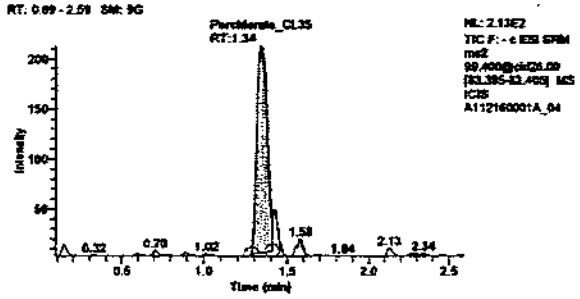
Sample Name:	Perc1 1024b	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	Perc1 1024b	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_04	Dilution Factor:	1.00
Acquisition Date:	08/05/11 01:39:35 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Std Bracket	Instrument Software Version:	1.4.1
Vial:	e:2	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

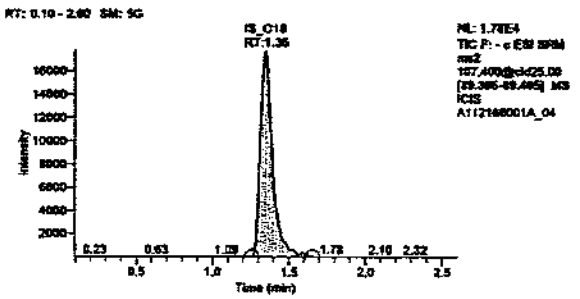
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.35	97927.88	N/A	N/A	N/A
Perchlorate_CL35	0.541	1.34	899.05	97927.88	0.009	ng/g
Perchlorate_CL37	0.586	1.36	17.33	97927.88	0.000	ng/g

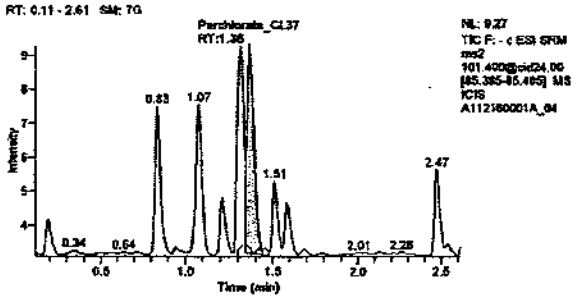
Ion Chromatogram

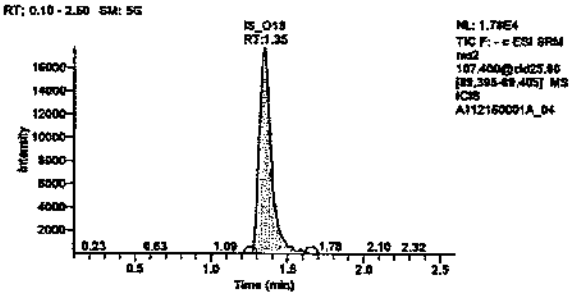
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





USF03 1292

Friday, August 05, 2011, 11:46:32

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LCMSMS ANALYSIS REPORT

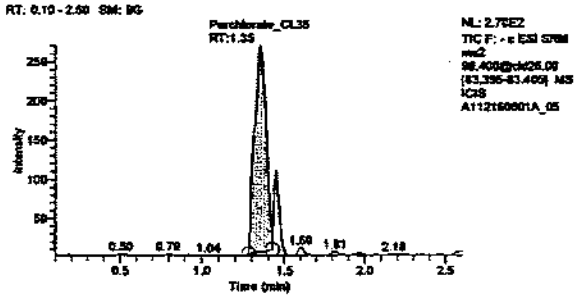
Sample Name:	Perc2 1024b	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	Perc2 1024b	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_05	Dilution Factor:	1.00
Acquisition Date:	08/05/11 01:52:16 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Std Bracket	Instrument Software Version:	1.4.1
Vial:	e:3	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

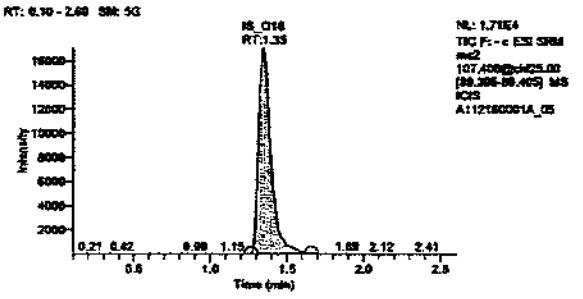
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.35	95378.33	N/A	N/A	N/A
Perchlorate_CL35	0.659	1.35	1281.01	95378.33	0.013	ng/g
Perchlorate_CL37	0.772	1.35	242.98	95378.33	0.003	ng/g

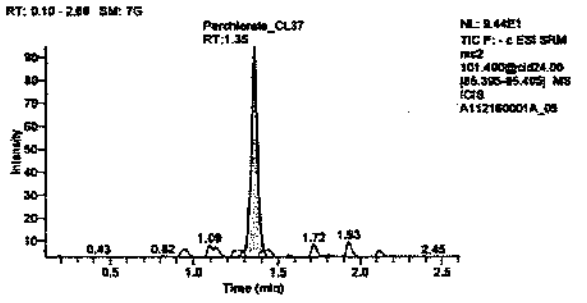
Ion Chromatogram

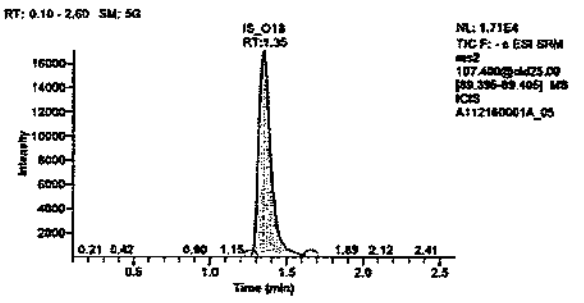
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





USF03 1293

Friday, August 05, 2011, 11:46:32

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LCMSMS ANALYSIS REPORT

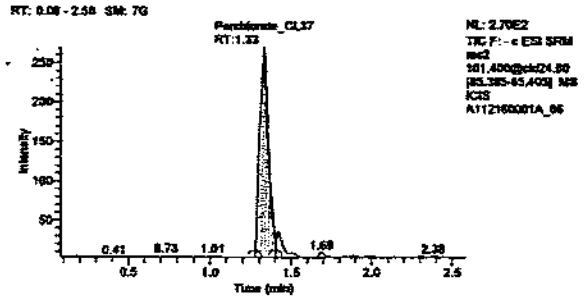
Sample Name:	Perc3 1024b	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	Perc3 1024b	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_06	Dilution Factor:	1.00
Acquisition Date:	08/05/11 02:04:58 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Std Bracket	Instrument Software Version:	1.4.1
Vial:	e:4	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

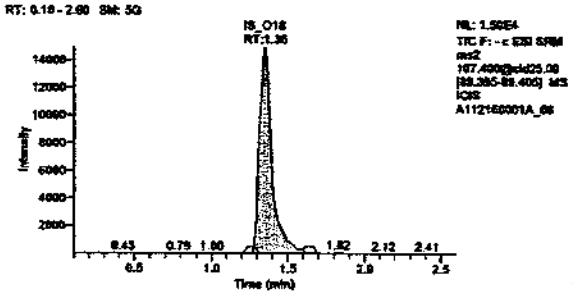
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.35	84222.39	N/A	N/A	N/A
Perchlorate_CL35	1.787	1.36	4566.79	84222.39	0.054	ng/g
Perchlorate_CL37	1.514	1.33	1013.32	84222.39	0.012	ng/g

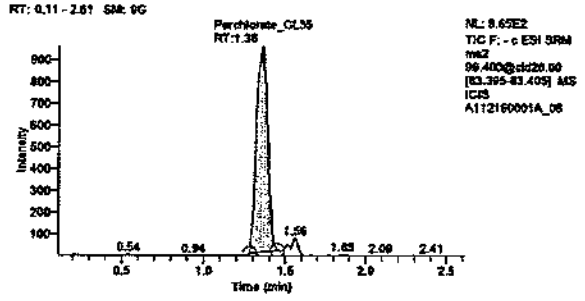
Ion Chromatogram

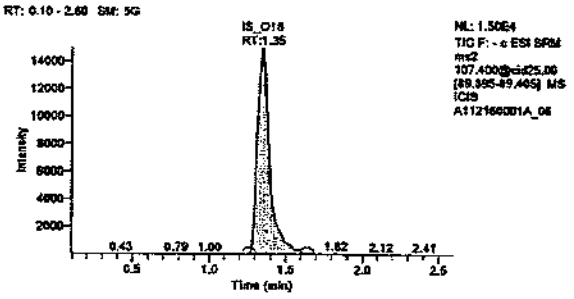
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





USP83 1294

Friday, August 05, 2011, 11:46:33

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

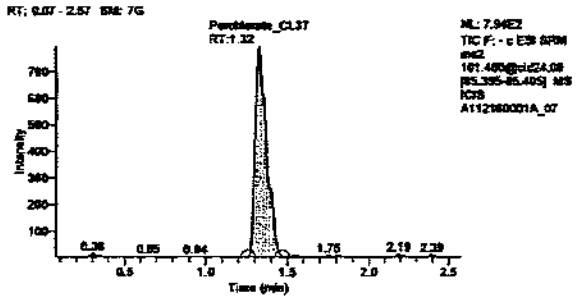
Sample Name:	Perc4 1024b	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	Perc4 1024b	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_07	Dilution Factor:	1.00
Acquisition Date:	08/05/11 02:17:43 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Std Bracket	Instrument Software Version:	1.4.1
Vial:	e:5	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

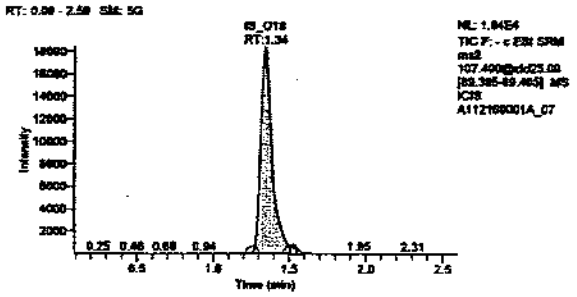
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	96288.22	N/A	N/A	N/A
Perchlorate_CL35	3.525	1.35	11269.59	96288.22	0.117	ng/g
Perchlorate_CL37	3.707	1.32	3857.74	96288.22	0.040	ng/g

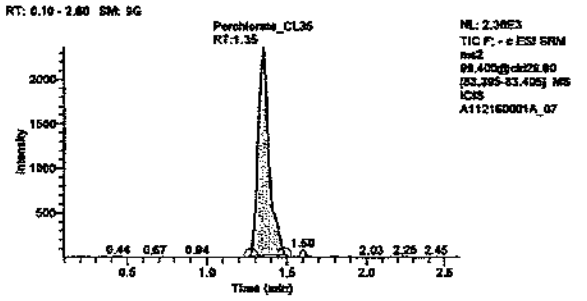
Ion Chromatogram

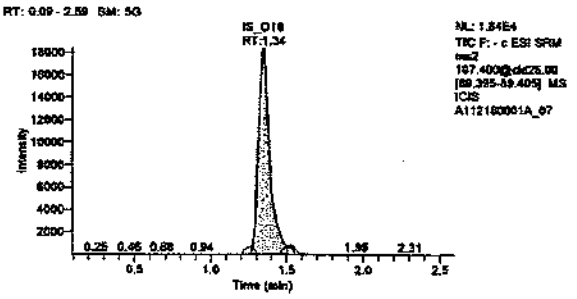
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





USFW3 1295

Friday, August 05, 2011, 11:46:34

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LCMSMS ANALYSIS REPORT

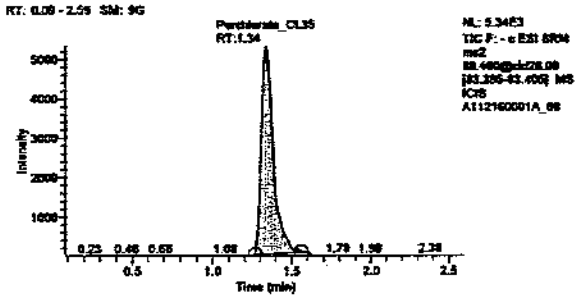
Sample Name:	Perc5 1024b	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	Perc5 1024b	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_08	Dilution Factor:	1.00
Acquisition Date:	08/05/11 02:30:29 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Std Bracket	Instrument Software Version:	1.4.1
Vial:	e:6	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

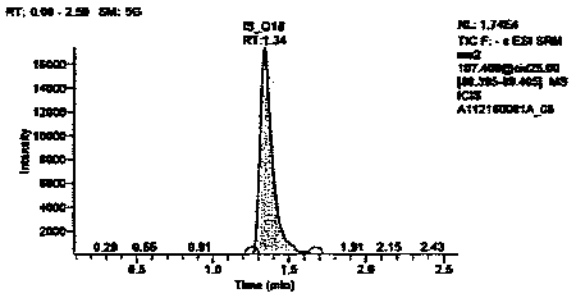
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	98722.00	N/A	N/A	N/A
Perchlorate_CL35	8.181	1.34	28173.19	98722.00	0.285	ng/g
Perchlorate_CL37	6.584	1.34	7585.55	98722.00	0.077	ng/g

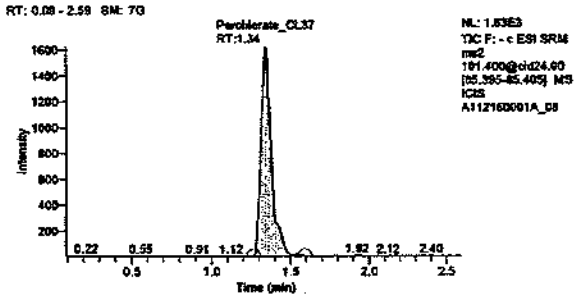
Ion Chromatogram

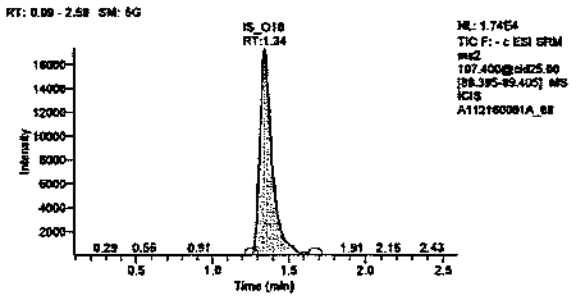
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





USP99 1296

Friday, August 05, 2011, 11:46:35

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LCMSMS ANALYSIS REPORT

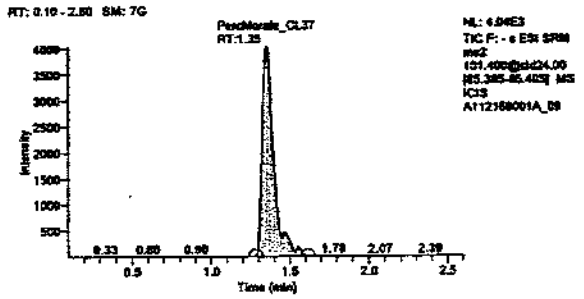
Sample Name:	Perc6 1024b	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	Perc6 1024b	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_09	Dilution Factor:	1.00
Acquisition Date:	08/05/11 02:43:14 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Std Bracket	Instrument Software Version:	1.4.1
Vial:	e:7	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

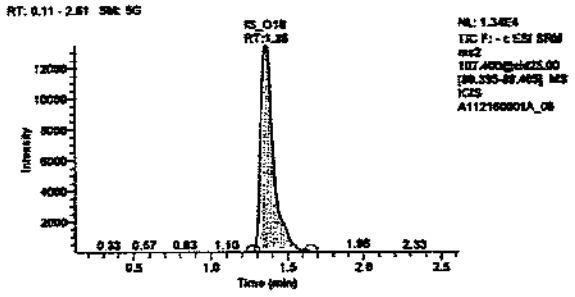
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.36	81004.66	N/A	N/A	N/A
Perchlorate_CL35	20.512	1.35	59226.71	81004.66	0.731	ng/g
Perchlorate_CL37	20.775	1.35	20917.48	81004.66	0.258	ng/g

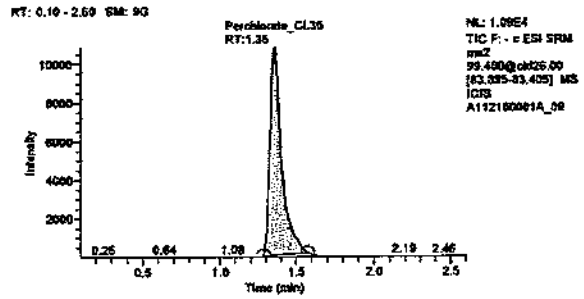
Ion Chromatogram

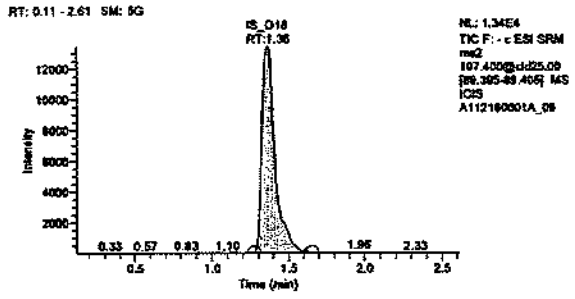
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





USF03 1297

Friday, August 05, 2011, 11:46:36

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LCMSMS ANALYSIS REPORT

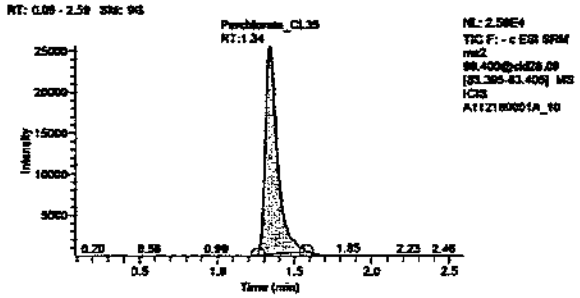
Sample Name:	Perc7 1024b	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	Perc7 1024b	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_10	Dilution Factor:	1.00
Acquisition Date:	08/05/11 02:55:56 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Std Bracket	Instrument Software Version:	1.4.1
Vial:	e:8	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

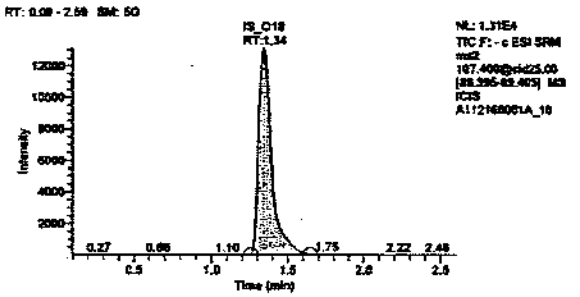
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	79009.05	N/A	N/A	N/A
Perchlorate_CL35	49.994	1.34	141976.46	79009.05	1.797	ng/g
Perchlorate_CL37	51.263	1.34	51191.16	79009.05	0.648	ng/g

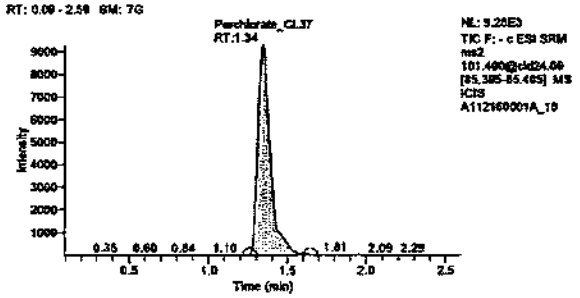
Ion Chromatogram

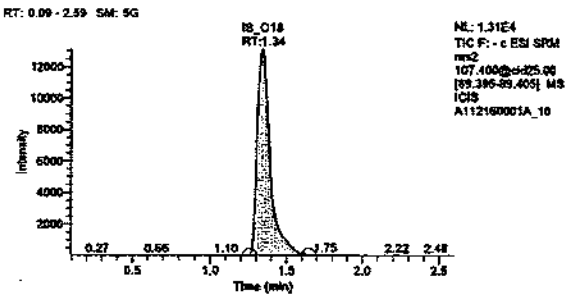
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





USF83 $298

Friday, August 05, 2011, 11:46:37

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

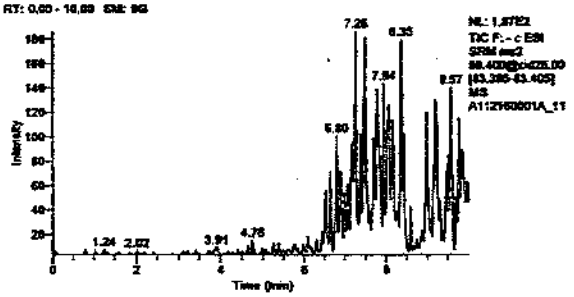
Sample Name:	BLK(H2O)	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	BLK(H2O)	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_11	Dilution Factor:	1.00
Acquisition Date:	08/05/11 03:08:41 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Blank	Instrument Software Version:	1.4.1
Vial:	e:9	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

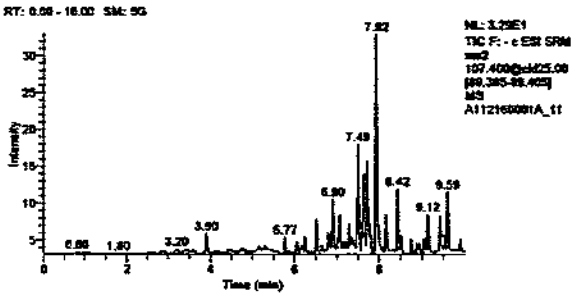
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	N/A	N/A	N/A	N/A	N/A
Perchlorate_CL35	N/A	N/A	N/A	N/A	N/A	ng/g
Perchlorate_CL37	0.000	1.56	0.00	0.00	33.432	ng/g

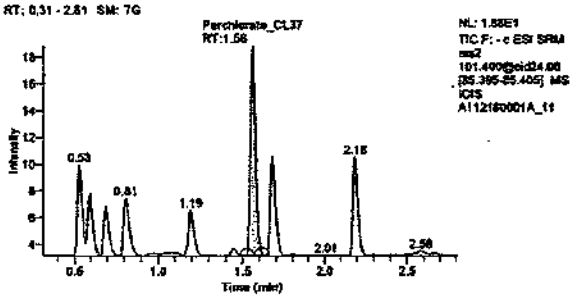
Ion Chromatogram

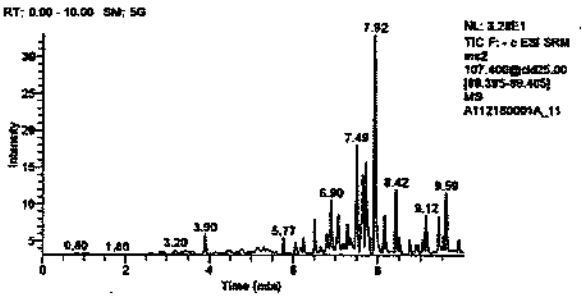
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





USP83 1299

Friday, August 05, 2011, 11:46:40

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

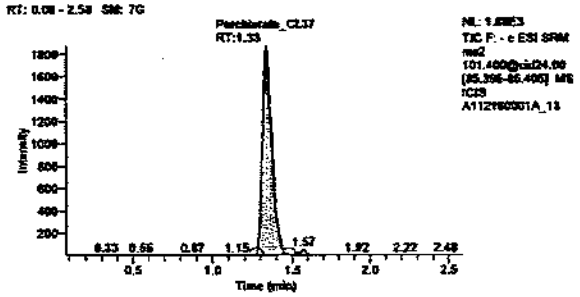
Sample Name:	lcperc5 1024a	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	lcperc5 1024a	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_13	Dilution Factor:	1.00
Acquisition Date:	08/05/11 03:34:08 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	QC	Instrument Software Version:	1.4.1
Vial:	e:12	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

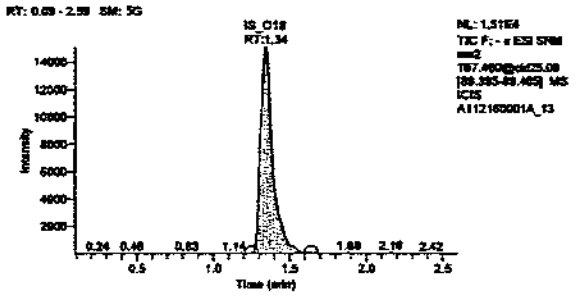
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	84025.23	N/A	N/A	N/A
Perchlorate_CL35	8.378	1.34	24575.41	84025.23	0.292	ng/g
Perchlorate_CL37	7.665	1.33	7617.44	84025.23	0.091	ng/g

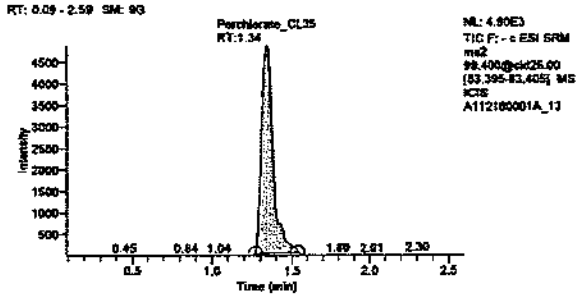
Ion Chromatogram

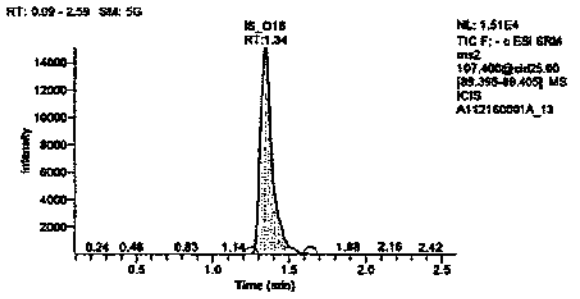
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





USP03 1388

Friday, August 05, 2011, 11:46:38

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

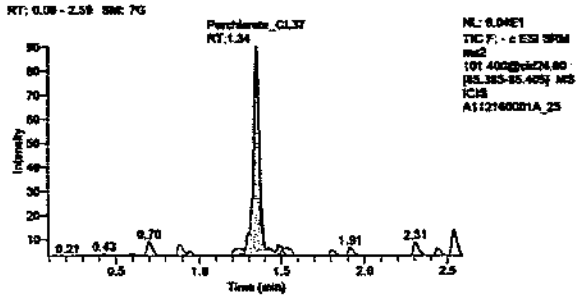
Sample Name:	Icperc2 1024a	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	Icperc2 1024a	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_25	Dilution Factor:	1.00
Acquisition Date:	08/05/11 06:06:59 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	QC	Instrument Software Version:	1.4.1
Vial:	e:11	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

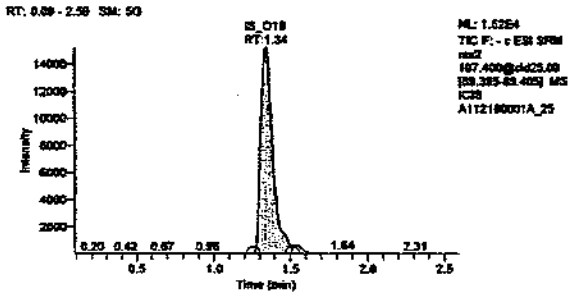
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	84965.33	N/A	N/A	N/A
Perchlorate_CL35	0.712	1.35	1303.76	84965.33	0.015	ng/g
Perchlorate_CL37	0.806	1.34	254.07	84965.33	0.003	ng/g

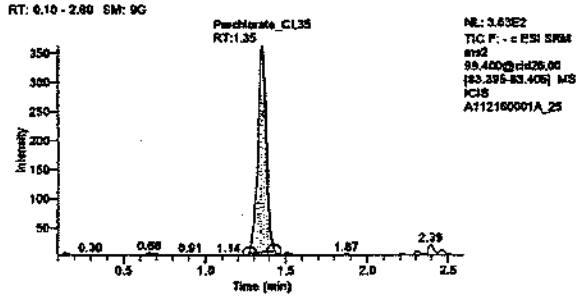
Ion Chromatogram

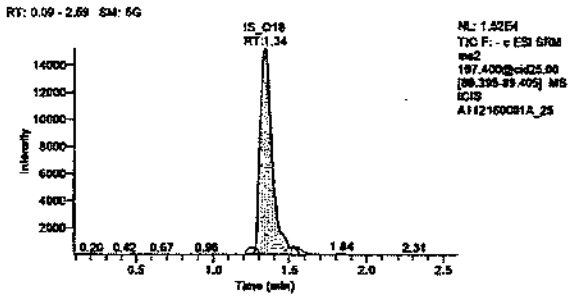
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





USP83 1391

Friday, August 05, 2011, 11:46:38

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

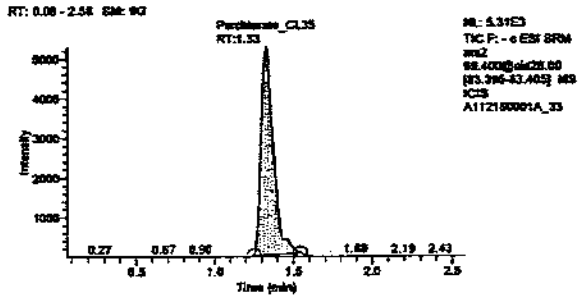
Sample Name:	lcperc5 1024a	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	lcperc5 1024a	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_33	Dilution Factor:	1.00
Acquisition Date:	08/05/11 07:48:55 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	QC	Instrument Software Version:	1.4.1
Vial:	e:12	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

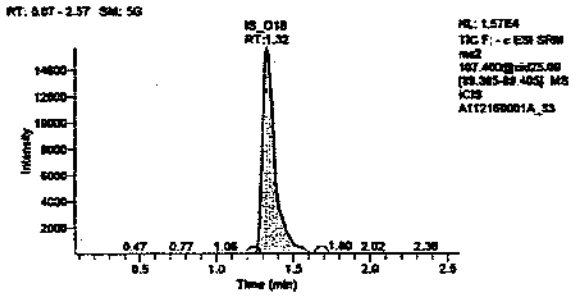
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.32	90722.60	N/A	N/A	N/A
Perchlorate_CL35	8.955	1.33	28427.32	90722.60	0.313	ng/g
Perchlorate_CL37	6.480	1.33	6850.64	90722.60	0.076	ng/g

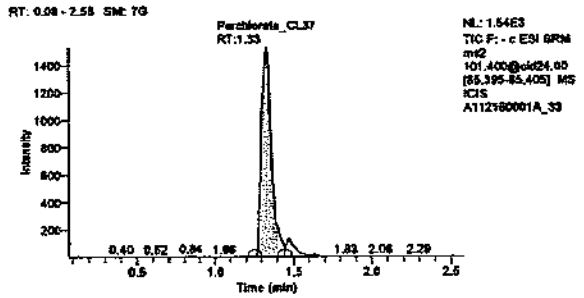
Ion Chromatogram

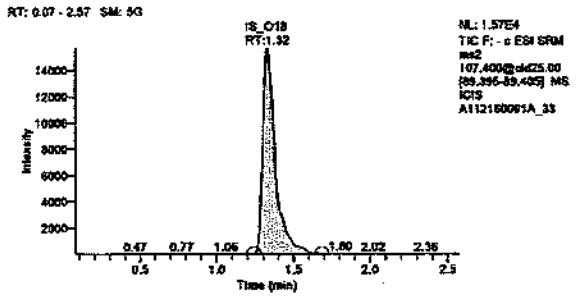
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





USP83 1382

Friday, August 05, 2011, 11:46:39

Raw QC Data

USF83 1311

VOID PAGE 1303-1310
OC 834
08/26/11

Quant Sample Report (ISTD)

Batch Info

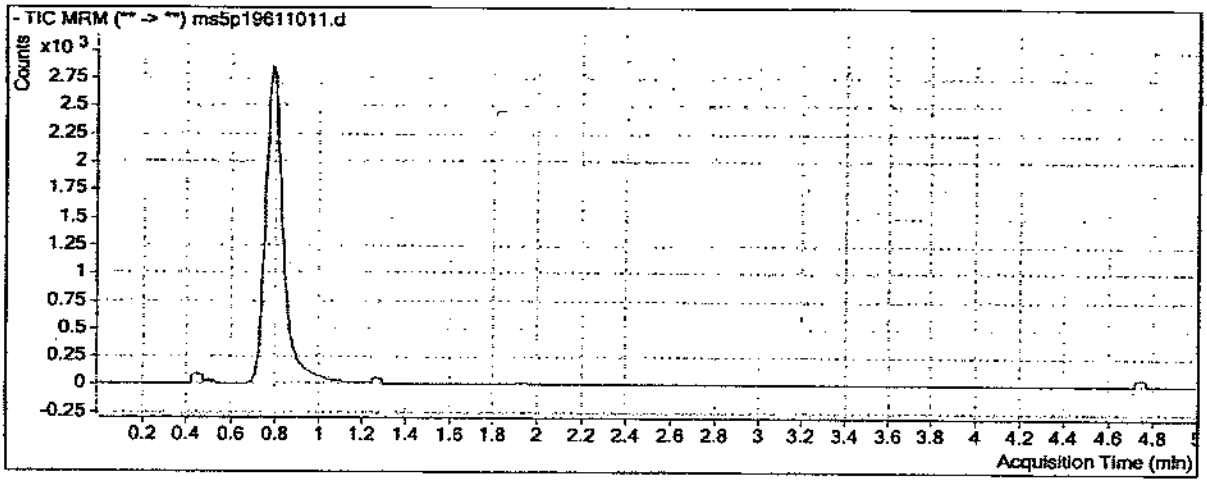
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 17:59
Data File	ms5p19611011.d
Acq Method File	do4.m
Sample Name	Blank
Sample Info	111960004A
Sample Type	Sample
Level	
Sample Pos	P1-B2

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.788	60	16204	0.0	0.0485	1.2
ClO4 37	ClO4 18	0.776	23	16204	0.0	0.0215	

110%

Valerie L. Tomayko
Principal Specialist

JUL 19 2011

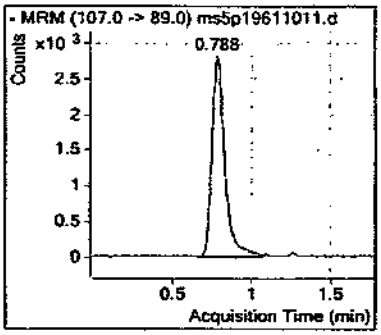
7/18/11

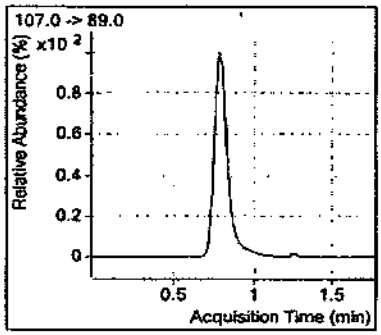
USF03 1312

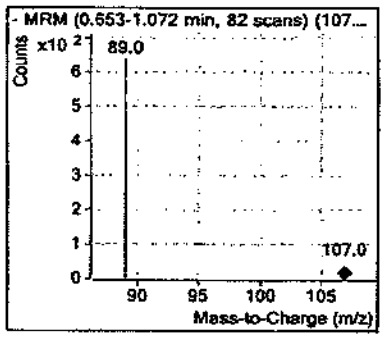
Quant Sample Report (ISTD)

Compound Graphics

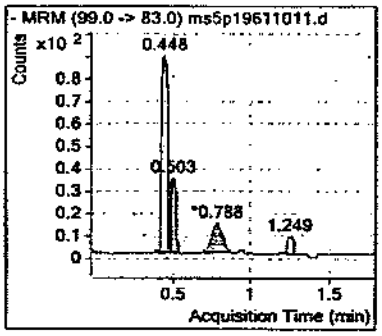
ISTD Compound *ClO4 18*

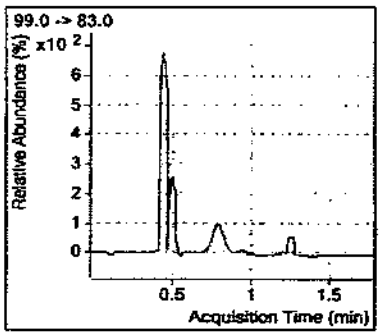


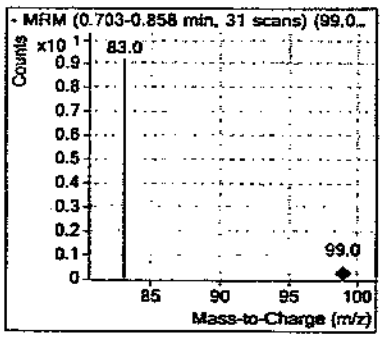




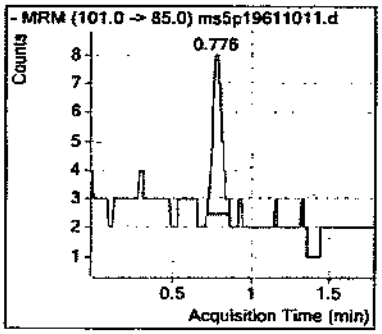
Target Compound *ClO4 35*

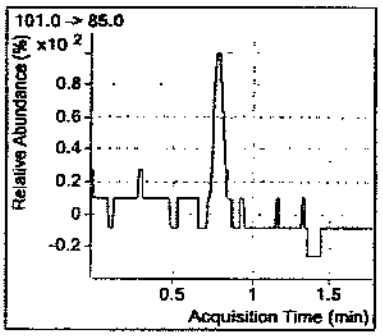


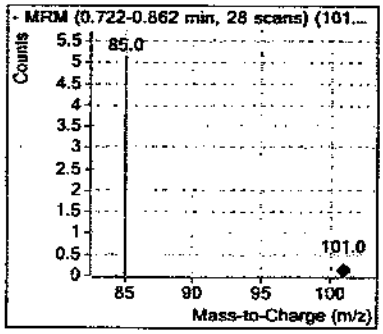




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

Batch Info

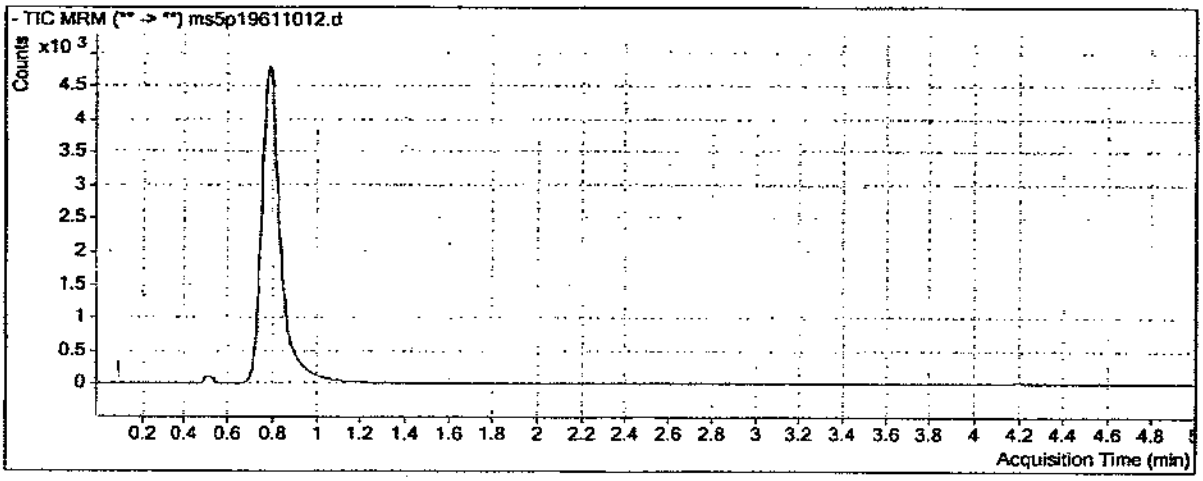
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 18:05
Data File	ms5p19611012.d
Acq Method File	do4.m
Sample Name	LCS
Sample Info	111960004A
Sample Type	Sample
Level	
Sample Pos	P1-B3

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.787	9303	15478	0.6	6.0743	
ClO4 37	ClO4 18	0.786	3197	15478	0.2	6.1500	

105%

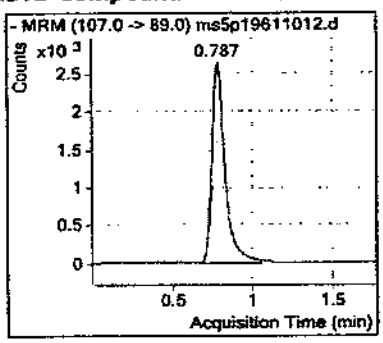
Valerie L. Tomayko
Principal Specialist

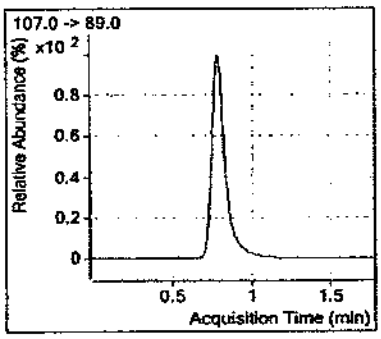
JUL 19 2011

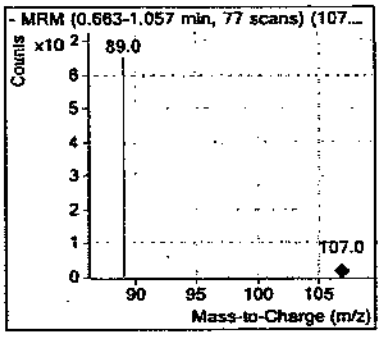
Quant Sample Report (ISTD)

Compound Graphics

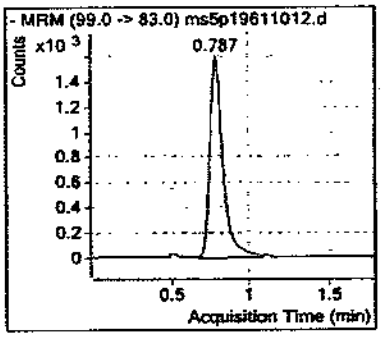
ISTD Compound *ClO4 18*

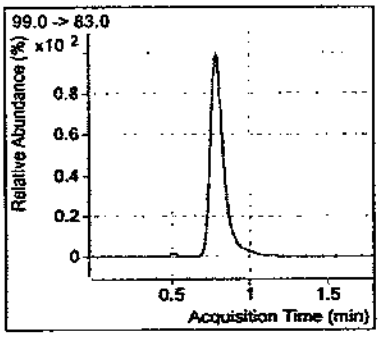


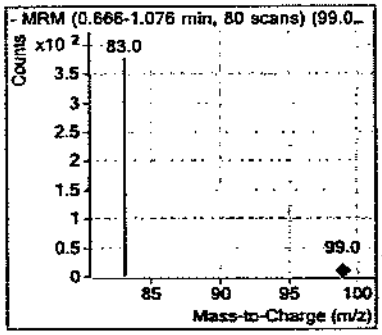




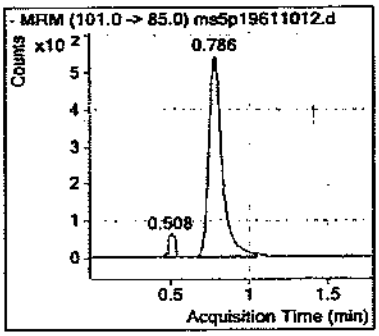
Target Compound *ClO4 35*

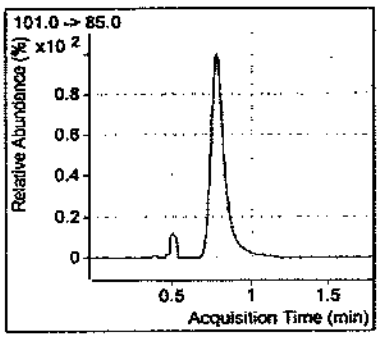


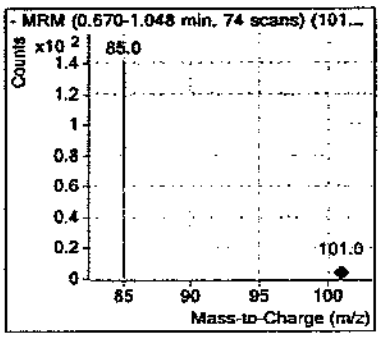




Target Compound *ClO4 37*







Quant Sample Report (ISTD)

Batch Info

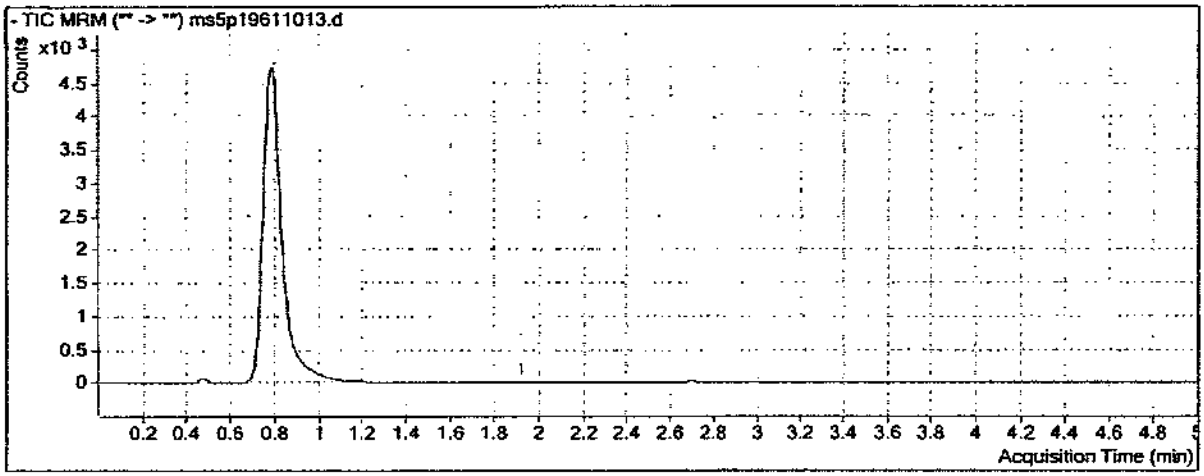
Batch Data Path	D:\MassHunter\Data\perchlorate\QuantResults\ms5p19611.batch.xml

Analysis Time	2011-07-18 14:27	**Analyst Name**	Administrator
Report Time	2011-07-18 14:37	**Reporter Name**	Administrator
Last Calib Update	2011-07-18 14:14	**Batch State**	ResultsDirty

Analysis Info

Acq Time	2011-07-15 18:11
Data File	ms5p19611013.d
Acq Method File	clo4.m
Sample Name	LCSD
Sample Info	111960004A
Sample Type	Sample
Level	
Sample Pos	P1-B4

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	Resp Ratio	Final Conc	Accuracy
ClO4 35	ClO4 18	0.787	9218	15693	0.6	5.9368	119%
ClO4 37	ClO4 18	0.786	3136	15693	0.2	5.9507	

106%

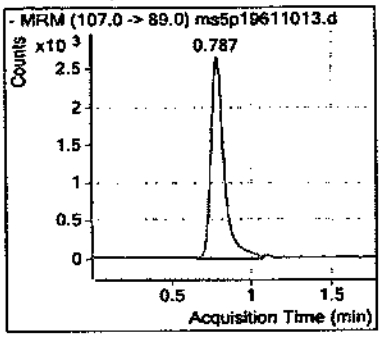
Valerie L. Tomayko
Principal Specialist

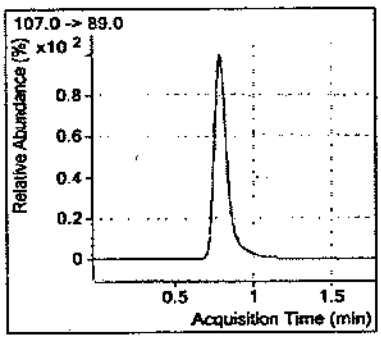
JUL 19 2011

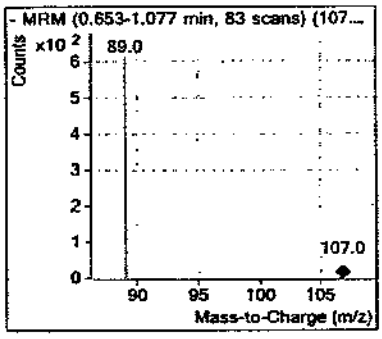
Quant Sample Report (ISTD)

Compound Graphics

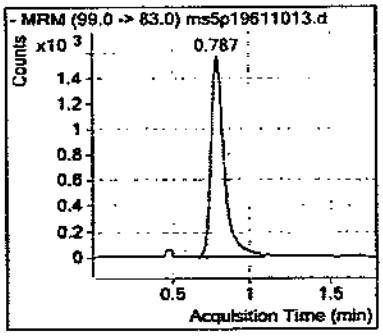
ISTD Compound *ClO4 18*

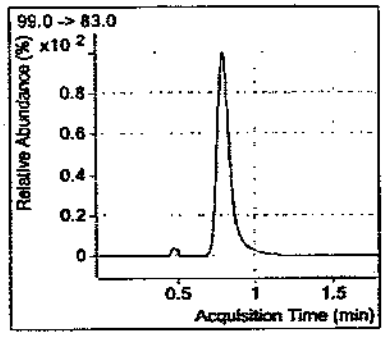


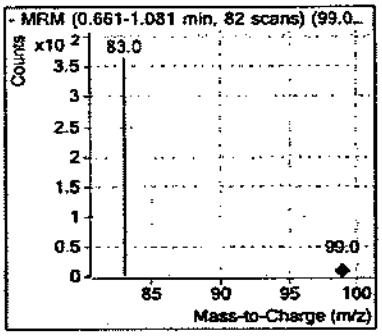




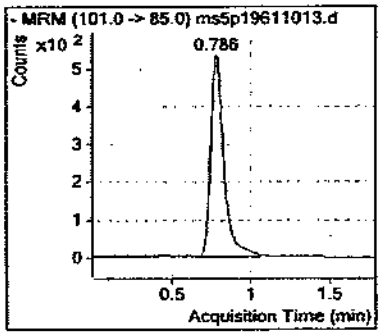
Target Compound *ClO4 35*

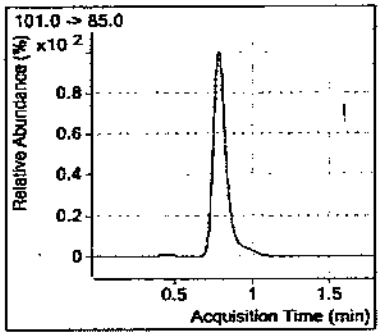


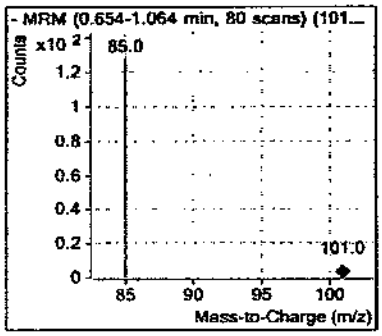




Target Compound *ClO4 37*







Lancaster Laboratories

LCMSMS ANALYSIS REPORT

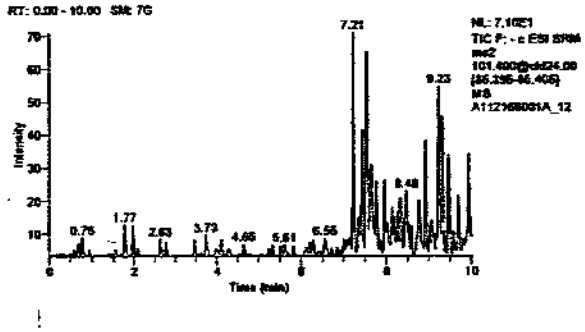
Sample Name:	BLK(112160001A)	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	BLK(112160001A)	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_12	Dilution Factor:	1.00
Acquisition Date:	08/05/11 03:21:27 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Blank	Instrument Software Version:	1.4.1
Vial:	c:1	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

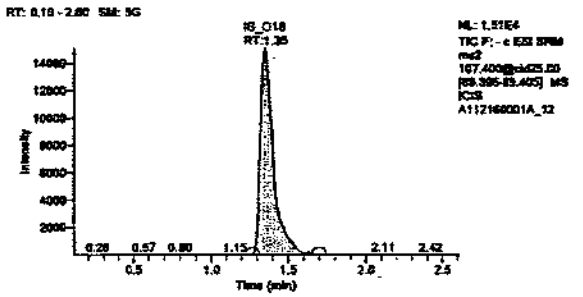
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.35	88916.48	N/A	N/A	N/A
Perchlorate_CL35	N/A	N/A	N/A	N/A	N/A	ng/g
Perchlorate_CL37	1.3 N/A	N/A	N/A	98 N/A	N/A	ng/g

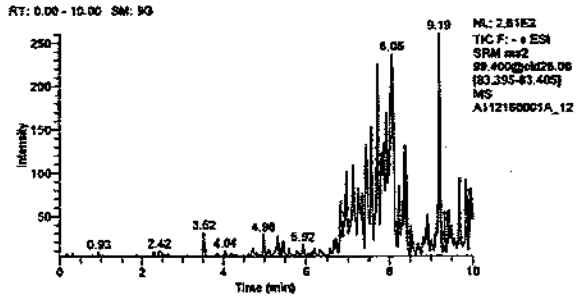
Ion Chromatogram

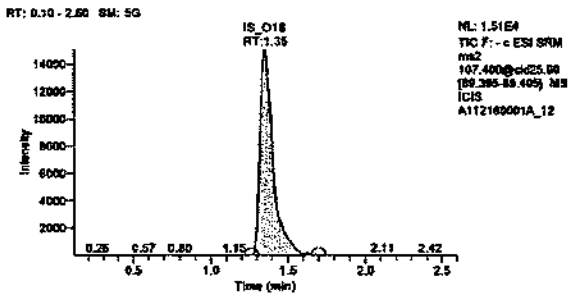
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L. Tomayko
Principal Specialist

AUG 16 2011

USFW3 1318

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

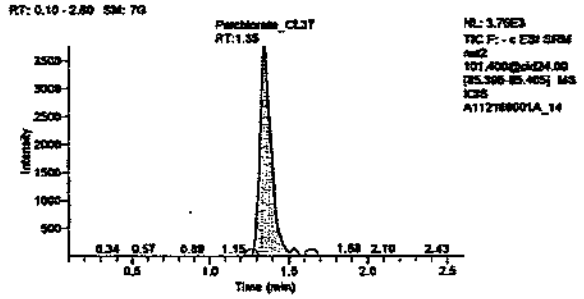
Sample Name:	LCS (112160001A)	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	LCS (112160001A)	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_14	Dilution Factor:	1.00
Acquisition Date:	08/05/11 03:46:54 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:2	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

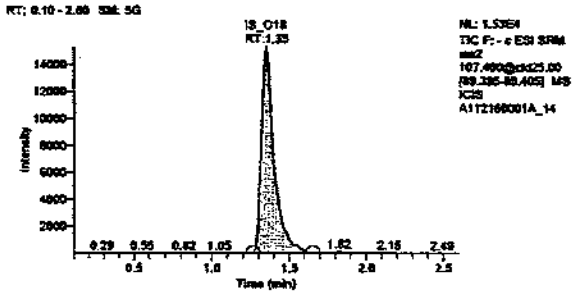
Quan Peak Table

Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.35	87895.80	N/A	N/A	N/A
Perchlorate_CL35	19.895	1.35	62304.28	87895.80	0.709	ng/g
Perchlorate_CL37	17.243	1.35	18729.34	87895.80	0.213	ng/g

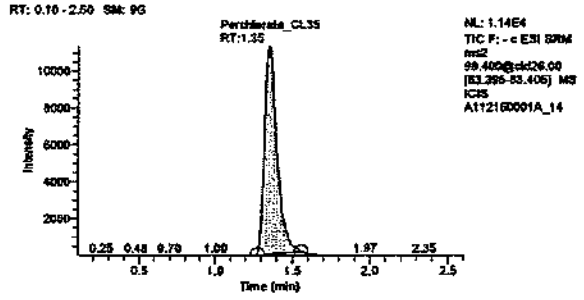
Ion Chromatogram

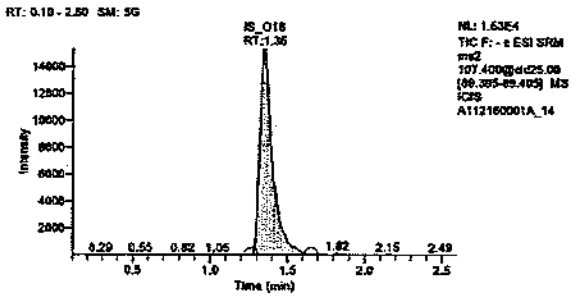
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L. Tomeyko
Principal Specialist

AUG 18 2011

USPS3 1319

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Sample Name:	LCSD (112160001A)	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	LCSD (112160001A)	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_15	Dilution Factor:	1.00
Acquisition Date:	08/05/11 03:59:40 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:3	Instrument Serial Number:	TQU01408
Run Time(min):	10.00	Operator:	Quantum
Injection Volume(µl):	20.00		

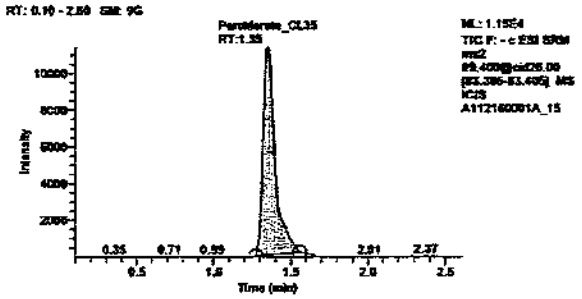
Quan Peak Table

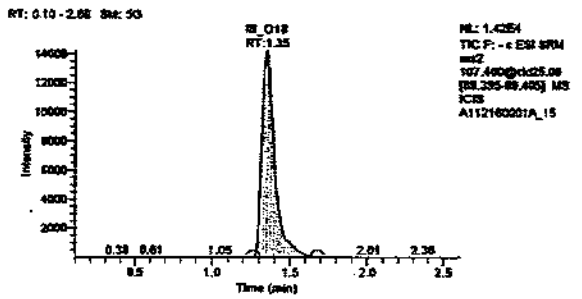
Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.35	82339.19	N/A	N/A	N/A
Perchlorate_CL35	21.118	1.35	62007.14	82339.19	0.753	ng/g
Perchlorate_CL37	17.653	1.35	17976.11	82339.19	0.218	ng/g

91

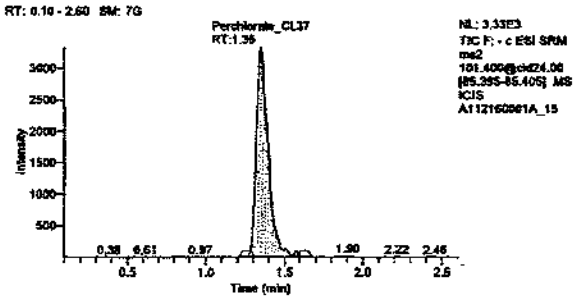
Ion Chromatogram

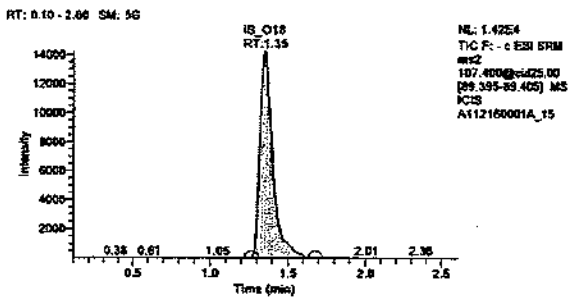
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





Valerie L. Tomayko
Principal Specialist

AUG 18 2011

USF03-2328

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Sample Name:	MS (6339378)	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	MS (6339378)	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_18	Dilution Factor:	1.00
Acquisition Date:	08/05/11 04:37:52 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:6	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

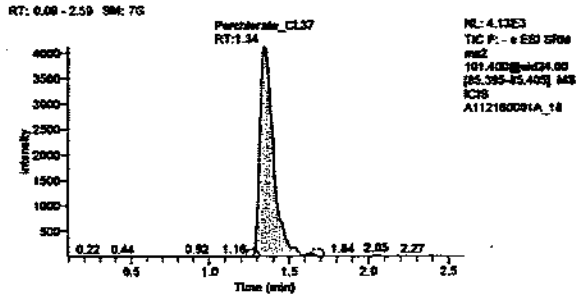
Quan Peak Table

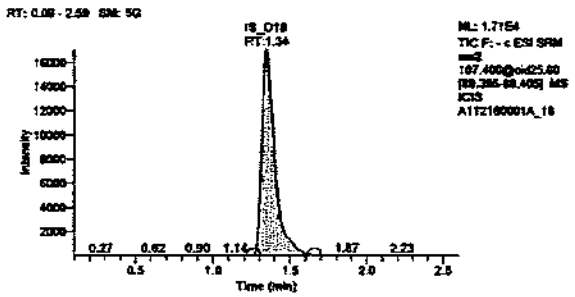
Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	100384.29	N/A	N/A	N/A
Perchlorate_CL35	21.380	1.35	76544.96	100384.29	0.763	ng/g
Perchlorate_CL37	19.505	1.34	24292.60	100384.29	0.242	ng/g

(11

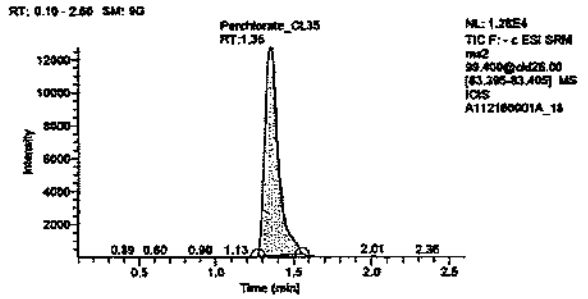
Ion Chromatogram

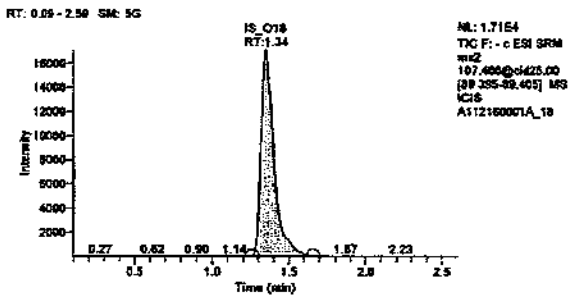
Component Name: Perchlorate_CL37





Component Name: Perchlorate_CL35





Valerie L. Tomayko
Principal Specialist

AUG 16 2011

USF03 1321

Lancaster Laboratories

LCMSMS ANALYSIS REPORT

Sample Name:	MSD (6339379)	Original Data Path:	C:\XCalibur\Perchlorate\2011Aug
Sample ID:	MS (6339379)	Instrument Method:	C:\XCalibur\Perchlorate\Perchlorate
Data File:	A112160001A_19	Dilution Factor:	1.00
Acquisition Date:	08/05/11 04:50:33 AM	Instrument Model:	TSQ Quantum Access
Sample Type:	Unknown	Instrument Software Version:	1.4.1
Vial:	c:7	Instrument Serial Number:	TQU01408
Run Time(min):	9.99	Operator:	Quantum
Injection Volume(µl):	20.00		

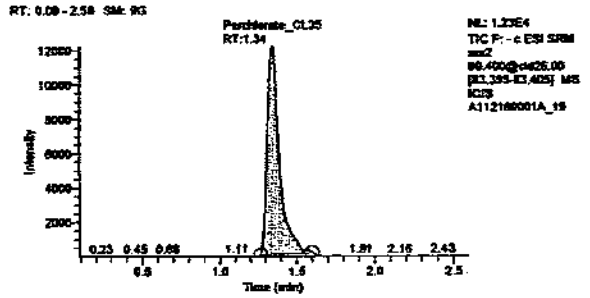
Quan Peak Table

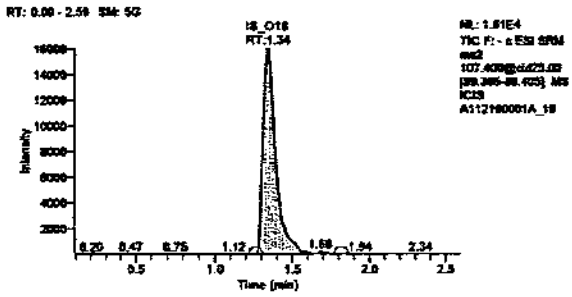
Component Name	Calculated Amount	RT	Response	ISTD Response	Response Ratio	Units
IS_O18	N/A	1.34	92988.05	N/A	N/A	N/A
Perchlorate_CL35	20.520	1.34	68014.27	92988.05	0.731	ng/g
Perchlorate_CL37	~~19.177~~	1.35	22112.68	92988.05	0.238	ng/g

1034

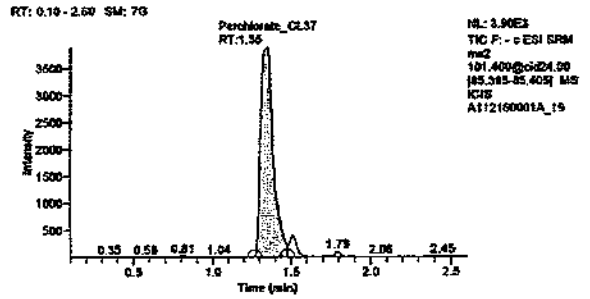
Ion Chromatogram

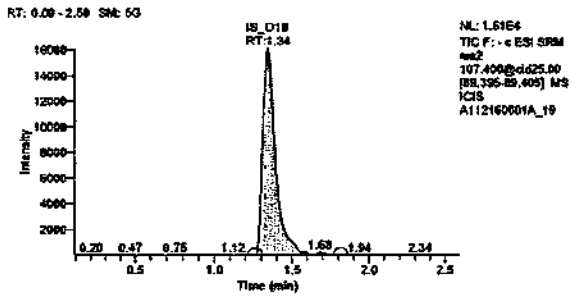
Component Name: Perchlorate_CL35





Component Name: Perchlorate_CL37





Valerie L. Tomayko
Principal Specialist

AUG 18 2011

USF03 1322

Extraction/Distillation/Digestion Logs

USF03 1328

VOID Page 1323 - 1327
DC 834
08/26/11

Organic Extraction Batchlog Assigned to: 120 Richard Shober Reviewed by: _____ Start Date: 7-15-11 Start time: 15:15

111960004A Tech 1: PILAR Tech 2: _____

Dept: 24 Prep Analysis: 00000 Perchlorate In Water LC/MS/MS

QC	Sample Code	Amt ( )uL	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
~~6337222MSD~~	~~WREBWMSD~~		IS1118024B	0.01	IM10327-04	0.005	1	STORAGE CANT FIND			
~~6337222MS~~	~~WREBWMS~~			0.01	IM10327-04	0.05	1	STORAGE CANT FIND			
BLANKA	PBLK04196			0.01							
LCSA	LCS04196			0.01	IM10363-24 D	0.05	1				
LCSDA	LCSD04196			0.01	IM10363-24 D	0.05	1				

Solvent Used	Lot No.

Spike Solutions: Witness: _____

IS1118024B Perchlorate Internal Standard

Sample #	Sample Code	Amt ( )uL	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1 6334923	PTSEF		IS1118024B	0.01	1					06386	07/15/2011	P
~~2 6337222~~	~~WREBW~~		~~IS1118024B~~	0.01	1				STORAGE CANT FIND	06386	07/20/2011	S
~~3 6338269~~	~~EBQ02~~		~~IS1118024B~~	0.01	1				STORAGE CANT FIND	06386	07/21/2011	S
4 6339388	EBQ03		IS1118024B	0.01	1					06386	07/22/2011	S
5 6340962	WREB4		IS1118024B	0.01	1					06386	07/25/2011	S
6 6340963	WRFB1		IS1118024B	0.01	1					06386	07/25/2011	S
7 6342280	WREB5		IS1118024B	0.01	1					06386	07/26/2011	S
8 6343315	WREB6		IS1118024B	0.01	1					06386	07/27/2011	S

Rack ID:		Work Station	
Internal Standard		Balance #	

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	111960004A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Organic Extraction Batchlog Assigned to: 308 Deborah Zimmerman Reviewed by: LM/8/4/11 Start Date: 8/4/11 Start time: 1030

112160001A

Tech 1: DRR 1826 Tech 2: MM 2628

Dept: 24 Prep Analysis: 06568 Perchlorate Soil Prep — Perchlorate in Soil LC/MS/MS

QC	Sample Code	Amt ( )	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6339378MS	82S05	5.00	IS111824B	0.01	IN112624A	0.10	10	Z	Z		
6339379MSD	82S05	5.01			"	0.10		Z	Z		
BLANKA	PBLK01216	5.00			NA	NA		Z	Z		
LCSA	LCS01216	5.00			IN112624A	0.10		Z	Z		
LCSDA	LCSD01216	5.00	"		"	0.10		Z	Z		

Solvent Used	Lot No.

Sample #			Sample Code	Amt ( )	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1	6339368	R	15S05	5.02	IS111824B	0.01	10	Z	Z			06557	07/20/2011	S
2	6339369	R	16S-5	5.00		0.01		Z	Z			06557	07/20/2011	S
3	6339370	R	17S05	5.01		0.01		Z	Z			06557	07/20/2011	S
4	6339371	R	18S05	4.96	5.05	0.01		Z	Z			06557	07/20/2011	S
5	6339372	R	19S05	5.02		0.01		Z	Z			06557	07/20/2011	S
6	6339373	R	20S05	5.04		0.01		Z	Z			06557	07/20/2011	S
7	6339374	R	21S05	5.01		0.01		Z	Z			06557	07/20/2011	S
8	6339375	R	74S05	5.02		0.01		Z	Z			06557	07/20/2011	S
9	6339376	R	74S45	5.03		0.01		Z	Z			06557	07/20/2011	S
10	6339377BKG	R	82S05	5.02		0.01		Z	Z			06557	07/20/2011	S
11	6339384	R	82S05	5.01		0.01		Z	Z		RL LCS + 0.08mL IN111324A Δ2	06557	07/20/2011	S
12	6339385	R	82S40	5.03		0.01		Z	Z			06557	07/20/2011	S
13	6339386	R	87S05	5.07		0.01		Z	Z			06557	07/20/2011	S
14	6339387	R	87S40	5.00		0.01		Z	Z			06557	07/20/2011	S

Δ3 DRR 1826 8/4/11

Δ2: ③ MM 2628 8/4/11 128787-20-3 20mL

Rack ID:		Work Station	
Internal Standard		Balance #	B0120197266

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	112160001A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Organochlorine Pesticides Data

Case Narrative
Conformance/Nonconformance
Summary

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Pesticide Residue Analysis

Fraction: Pesticides

OC Pesticides in Solids

Sample #	Client ID	Matrix Liquid	Matrix Solid	Comments
6339368	WRBS0015S005		X	
6339370	WRBS0017S005		X	
6339372	WRBS0019S005		X	
6339374	WRBS0021S005		X	DF1; DF5
6339375	WRBS0074S005		X	
6339377	WRBS0082S005		X	Unspiked
6339378	WRBS0082S005 Matrix Spike		X	Matrix Spike
6339379	WRBS0082S005 Matrix Spike Dup		X	Matrix Spike Duplicate
6339384	RLQQS00003 RL LCS		X	RLQ
6339386	WRBS0087S005		X	DF1; DF10
6339388	EBQW00003	X		Equipment Blank

See QC Reference List for Associated Batch QC Samples

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples.

ANALYSIS:

Dilutions are listed in the table above.

ICAL 1P10200:
The individual response for target analytes in the initial calibration verification standard is outside the %D criteria on one of the analytical columns. The response on the second column meets the %D criteria, and therefore all data is reported from this column. The sample raw data identifies the column used to report each analyte.

Endrin breakdown is outside the %D criteria on one of the analytical columns. The response on the second column meets the %D criteria, and therefore endrin, endrin ketone and endrin aldehyde are reported from this column. The sample raw data identifies the column used to report each analyte.

The individual response and/or average %D for target analytes in one or more of the continuing calibration standards is outside the %D criteria on one of the analytical columns. The response on the second column meets the %D criteria, and therefore all data is reported from this column. The sample raw data identifies the column used to report each analyte.

(Sample number(s): 6339368, 6339374: Analysis: 01363)
Reporting limits were raised for endrin aldehyde and mirex due to interference from the sample matrix.

USF03 1333

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Pesticide Residue Analysis

Fraction: Pesticides

(Sample number(s): 6339386: Analysis: 01363)
Reporting limits were raised for delta-BHC, mirex, methoxychlor and endrin due to interference from the sample matrix.

(Sample number(s): 6339375: Analysis: 01363)
Reporting limits were raised for beta-BHC due to interference from the sample matrix.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

All QC is within specification.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 8/1/2011 (Date) by M. Susan Kreider
M. SUSAN KREIDER
SENIOR SPECIALIST

Quality Control and Calibration Summary Forms

Lancaster Laboratories

Quality Control Reference List
Pesticide Residue Analysis

CLIENT: URS Corporation
SDG: USF03

Fraction: Pesticides

Analysis	Batch Number	Sample Number	Analysis Date
OC Pesticides in Solids	111930027A	PBLK27193	07/19/2011 21:23:00
		LCS27193	07/19/2011 22:09:00
		LCSD27193	07/19/2011 22:55:00
		6339368	07/20/2011 06:01:00
		6339370	07/20/2011 06:16:00
		6339372	07/20/2011 06:31:00
		6339374	07/20/2011 06:47:00
		6339374	07/26/2011 08:53:00
		6339375	07/20/2011 07:02:00
		6339377 UNSPK	07/20/2011 07:17:00
		6339378 MS	07/20/2011 07:32:00
		6339379 MSD	07/20/2011 07:48:00
		6339384	07/20/2011 08:12:00
		6339386	07/20/2011 08:27:00
		6339386	07/26/2011 09:09:00
OC Pesticides in Water	111940013A	PBLK13194	07/14/2011 22:51:00
		LCS13194	07/14/2011 23:04:00
		LCSD13194	07/14/2011 23:17:00
		6339388	07/14/2011 23:29:00

USF03 1936

Lancaster Laboratories

Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: USF03
Matrix: LIQUID

Fraction: Pesticides

111940013 / PBLK13194 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Alpha BHC	07/14/11	N.D.	ug/l	0.0030	0.010
Gamma BHC - Lindane	07/14/11	N.D.	ug/l	0.0020	0.010
Beta BHC	07/14/11	N.D.	ug/l	0.0029	0.010
Delta BHC	07/14/11	N.D.	ug/l	0.0029	0.010
Heptachlor	07/14/11	N.D.	ug/l	0.0026	0.010
Aldrin	07/14/11	N.D.	ug/l	0.0020	0.010
Heptachlor Epoxide	07/14/11	N.D.	ug/l	0.0023	0.010
p,p-DDE	07/14/11	N.D.	ug/l	0.0050	0.020
Endosulfan I	07/14/11	N.D.	ug/l	0.0043	0.010
Dieldrin	07/14/11	N.D.	ug/l	0.0053	0.020
Endrin	07/14/11	N.D.	ug/l	0.0081	0.020
p,p-DDD	07/14/11	N.D.	ug/l	0.0050	0.020
Endosulfan II	07/14/11	N.D.	ug/l	0.015	0.020
p,p-DDT	07/14/11	N.D.	ug/l	0.0050	0.020
Endrin Aldehyde	07/14/11	N.D.	ug/l	0.020	0.10
Methoxychlor	07/14/11	N.D.	ug/l	0.030	0.10
Endosulfan Sulfate	07/14/11	N.D.	ug/l	0.0058	0.020
Mirex	07/14/11	N.D.	ug/l	0.085	0.25
Endrin Ketone	07/14/11	N.D.	ug/l	0.0050	0.020
Chlordane	07/14/11	N.D.	ug/l	0.12	0.50
Toxaphene	07/14/11	N.D.	ug/l	1.0	3.0

Lancaster Laboratories

Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: USF03
Matrix: SOLID

Fraction: Pesticides

111930027 / PBLK27193 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Alpha BHC	07/19/11	N.D.	ug/kg	0.034	0.17
Gamma BHC - Lindane	07/19/11	N.D.	ug/kg	0.034	0.17
Beta BHC	07/19/11	N.D.	ug/kg	0.060	0.17
Delta BHC	07/19/11	N.D.	ug/kg	0.036	0.17
Heptachlor	07/19/11	N.D.	ug/kg	0.060	0.17
Aldrin	07/19/11	N.D.	ug/kg	0.066	0.17
Heptachlor Epoxide	07/19/11	N.D.	ug/kg	0.034	0.17
p,p-DDE	07/19/11	N.D.	ug/kg	0.066	0.34
Endosulfan I	07/19/11	N.D.	ug/kg	0.044	0.17
Dieldrin	07/19/11	N.D.	ug/kg	0.066	0.34
Endrin	07/19/11	N.D.	ug/kg	0.066	0.34
p,p-DDD	07/19/11	N.D.	ug/kg	0.066	0.34
Endosulfan II	07/19/11	N.D.	ug/kg	0.066	0.34
p,p-DDT	07/19/11	N.D.	ug/kg	0.066	0.34
Endrin Aldehyde	07/19/11	N.D.	ug/kg	0.066	0.34
Methoxychlor	07/19/11	N.D.	ug/kg	0.34	1.7
Endosulfan Sulfate	07/19/11	N.D.	ug/kg	0.066	0.34
Mirex	07/19/11	N.D.	ug/kg	0.066	0.34
Endrin Ketone	07/19/11	N.D.	ug/kg	0.066	0.34
Chlordane	07/19/11	N.D.	ug/kg	0.80	3.4
Toxaphene	07/19/11	N.D.	ug/kg	2.2	6.6

Lancaster Laboratories

Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: USF03
Matrix: LIQUID

Fraction: Pesticides

111940013A	Tetrachloro-m-xylene		Decachlorobiphenyl	
	Spike Added	0.3 ug/l	Spike Added	0.3 ug/l
Sample	% Recovery	Limits	% Recovery	Limits
6339388	95	52 - 141	93	40 - 144
LCS13194	95	52 - 141	110	40 - 144
LCSD13194	100	52 - 141	112	40 - 144
PBLK13194	91	52 - 141	81	40 - 144

USF03 1339

Lancaster Laboratories

Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: USF03
Matrix: SOLID

Fraction: Pesticides

111930027A	Tetrachloro-m-xylene		Decachlorobiphenyl	
	Spike Added	1.04 ug/kg	Spike Added	1.04 ug/kg
Sample	% Recovery	Limits	% Recovery	Limits
6339368	29	28 - 121	74	45 - 150
6339370	45	28 - 121	78	45 - 150
6339372	44	28 - 121	100	45 - 150
6339374	56	28 - 121	93	45 - 150
6339375	51	28 - 121	107	45 - 150
6339377	56	28 - 121	103	45 - 150
6339378 MS	56	28 - 121	99	45 - 150
6339379 MSD	68	28 - 121	105	45 - 150
6339384	46	28 - 121	92	45 - 150
6339386	59	28 - 121	62	45 - 150
LCS27193	51	28 - 121	98	45 - 150
LCSD27193	54	28 - 121	112	45 - 150
PBLK27193	53	28 - 121	108	45 - 150

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: LIQUID

Pesticide Residue Analysis

Fraction: Pesticides

LCS: LCS13194 LCSD: LCSD13194	Batch: **111940013A** (Sample number(s): 6339388)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Alpha BHC	0.1	0.10	.11	100	110	59-146	10	30
Gamma BHC - Lindane	0.1	0.099	.11	99	110	68-128	11	30
Beta BHC	0.097	0.096	0.10	99	103	73-147	4	30
Delta BHC	0.097	0.099	.11	102	113	76-148	11	30
Heptachlor	0.1	0.099	.11	99	110	57-126	11	30
Aldrin	0.099	0.092	0.099	93	100	54-159	7	30
Heptachlor Epoxide	0.098	0.094	0.097	96	99	73-156	3	30
p,p-DDE	.19	.21	.22	111	116	66-130	5	30
Endosulfan I	0.1	0.091	0.097	91	97	68-128	6	30
Dieldrin	.2	.21	.23	105	115	76-132	9	30
Endrin	.2	.11	.14	55	70	52-132	24	30
p,p-DDD	.2	.24	.25	120	125	71-139	4	30
Endosulfan II	.2	.19	.2	95	100	59-144	5	30
p,p-DDT	.21	.2	.21	95	100	53-126	5	30
Endrin Aldehyde	.2	.19	.19	95	95	68-139	0	20
Methoxychlor	1	1	1.1	100	110	52-133	10	30
Endosulfan Sulfate	.2	.2	.21	100	105	71-142	5	30
Endrin Ketone	.2	.2	.21	100	105	69-146	5	30

USF03 11341

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: SOLID

Pesticide Residue Analysis

Fraction: Pesticides

LCS: LCS27193 LCSD: LCSD27193	Batch: **111930027A** (Sample number(s): 6339368, 6339370, 6339372, 6339374-6339375, 6339377-6339379, 6339384, 6339386)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Alpha BHC	.34	.18	.2	53	59	38-130	11	50
Gamma BHC - Lindane	.34	.2	.23	59	68	46-127	14	50
Beta BHC	.32	.26	.29	81	91	56-134	11	50
Delta BHC	.32	.27	.29	84	91	55-144	7	50
Heptachlor	.34	.22	.24	65	71	43-124	9	50
Aldrin	.33	.23	.26	70	79	44-135	12	50
Heptachlor Epoxide	.33	.3	.35	91	106	65-131	15	50
p,p-DDE	.65	.64	.74	98	114	59-141	14	50
Endosulfan I	.34	.25	.29	74	85	45-123	15	50
Dieldrin	.68	.57	.65	84	96	65-129	13	50
Endrin	.67	.57	.66	85	99	62-129	15	50
p,p-DDD	.67	.6	.67	90	100	60-137	11	50
Endosulfan II	.65	.63	.7	97	108	63-127	11	50
p,p-DDT	.71	.61	.72	86	101	54-130	17	50
Endrin Aldehyde	.66	.57	.59	86	89	55-132	3	35
Methoxychlor	3.5	3.3	3.83	94	109	59-125	15	50
Endosulfan Sulfate	.65	.68	.76	105	117	72-138	11	50
Endrin Ketone	.66	.63	.71	95	108	69-139	12	50

USFB3 1342

Lancaster Laboratories

Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: USF03
Matrix: SOLID

Pesticide Residue Analysis

Fraction: Pesticides

UNSPK: 6339377 MS: 6339378 MSD: 6339379 **Analyte**	Batch: **111930027A** (Sample number(s): 6339368, 6339370, 6339372, 6339374-6339375, 6339377-6339379, 6339384, 6339386)								
	Spike Added ug/kg	**Unspiked Conc ug/kg**	**MS Conc ug/kg**	**MSD Conc ug/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Alpha BHC	.34	N.D.	.21	.23	62	68	10-129	9	50
Gamma BHC - Lindane	.34	N.D.	.23	.26	68	76	10-140	12	50
Beta BHC	.32	0.072	.21	.22	43	46	14-147	5	50
Delta BHC	.32	N.D.	.27	.29	84	91	23-140	7	50
Heptachlor	.34	N.D.	.26	.29	76	85	13-126	11	50
Aldrin	.33	N.D.	.28	.31	85	94	16-126	10	50
Heptachlor Epoxide	.33	N.D.	.34	.36	103	113	13-157	6	50
p,p-DDE	.65	.13	.52	.52	60	60	18-161	0	50
Endosulfan I	.34	N.D.	.12	.13	35	38	16-137	8	50
Dieldrin	.68	N.D.	.43	.46	63	69	19-154	7	50
Endrin	.67	N.D.	.49	.51	73	76	11-149	4	50
p,p-DDD	.67	N.D.	.59	.6	88	90	16-163	2	50
Endosulfan II	.65	N.D.	.46	.46	71	71	28-154	0	50
p,p-DDT	.71	.14	.72	.74	82	85	10-176	3	50
Endrin Aldehyde	.66	N.D.	.61	.63	92	97	10-148	3	35
Methoxychlor	3.49	N.D.	2.57	2.7	74	78	32-147	5	50
Endosulfan Sulfate	.65	N.D.	.62	.66	95	102	21-160	6	50
Endrin Ketone	.65	N.D.	.56	.58	86	89	22-165	4	50

Results are being reported on an as received basis.

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: S9147A Calibration File: 1P6193
GC Column (1): RTX CLP ID: 0.32 (mm) Update File: 1P6193.09R
Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Tetrachloro-m-xylene	3.19	3.19	3.19	3.19	3.19	3.19	3.17	3.22
alpha-BHC	3.49	3.49	3.49	3.49	3.49	3.49	3.46	3.51
Hcb	3.51	3.52	3.51	3.51	3.51	3.51	3.49	3.54
gamma-BHC (Lindane)	3.69	3.69	3.69	3.69	3.70	3.69	3.67	3.72
beta-BHC	3.82	3.82	3.82	3.82	3.82	3.82	3.80	3.85
delta-BHC	3.98	3.98	3.98	3.98	3.98	3.98	3.95	4.01
Heptachlor	4.07	4.06	4.07	4.07	4.07	4.07	4.04	4.09
Aldrin	4.29	4.29	4.29	4.29	4.30	4.29	4.27	4.32
Telodrin	4.35	4.35	4.35	4.35	4.35	4.35	4.33	4.37
Heptachlor epoxide	4.59	4.59	4.59	4.59	4.59	4.59	4.57	4.62
o,p-DDE	4.71	4.70	4.70	4.70	4.70	4.70	4.68	4.72
gamma-Chlordane	4.78	4.78	4.78	4.78	4.78	4.78	4.75	4.80
alpha-Chlordane	4.84	4.83	4.84	4.83	4.84	4.84	4.80	4.87
Endosulfan I	4.88	4.88	4.88	4.88	4.88	4.88	4.85	4.90
4,4'-DDE	4.96	4.96	4.96	4.96	4.96	4.96	4.94	4.99
o,p-DDD	5.04	5.04	5.04	5.04	5.04	5.04	5.02	5.07
Dieldrin	5.09	5.09	5.09	5.09	5.09	5.09	5.06	5.11
Endrin	5.26	5.26	5.26	5.26	5.26	5.26	5.24	5.29
o,p-DDT	5.28	5.28	5.28	5.28	5.28	5.28	5.26	5.30
4,4'-DDD	5.36	5.36	5.36	5.36	5.36	5.36	5.34	5.39
Endosulfan II	5.43	5.43	5.43	5.43	5.43	5.43	5.41	5.46
Kepone	5.48	5.47	5.47	5.47	5.47	5.47	5.45	5.49
Endrin aldehyde	5.53	5.53	5.53	5.53	5.53	5.53	5.51	5.56
4,4'-DDT	5.60	5.60	5.60	5.60	5.60	5.60	5.57	5.62
Endosulfan sulfate	5.71	5.71	5.71	5.71	5.71	5.71	5.68	5.73
Methoxychlor	5.96	5.96	5.96	5.96	5.96	5.96	5.93	5.98
Endrin ketone	6.07	6.07	6.07	6.07	6.08	6.07	6.05	6.10
Mirex	6.42	6.42	6.41	6.41	6.41	6.41	6.39	6.43
Decachlorobiphenyl	7.03	7.04	7.04	7.04	7.04	7.04	7.01	7.06

USF03 1344

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Calibration File: 1P6193

GC Column (1) : RTX CLP ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	5.38E+03	5.41E+03	5.24E+03	5.25E+03	4.99E+03	5.26E+03	3.2
alpha-BHC	9.19E+03	9.62E+03	1.02E+04	1.03E+04	1.00E+04	9.87E+03	4.7
Hcb	5.73E+03	5.89E+03	5.92E+03	5.98E+03	6.14E+03	5.93E+03	2.5
gamma-BHC (Lindane)	7.83E+03	8.24E+03	8.54E+03	8.62E+03	8.59E+03	8.36E+03	4.0
beta-BHC	3.12E+03	2.81E+03	2.92E+03	2.94E+03	3.01E+03	2.96E+03	3.8
delta-BHC	6.14E+03	6.36E+03	6.95E+03	7.09E+03	7.09E+03	6.73E+03	6.6
Heptachlor	6.14E+03	6.41E+03	6.85E+03	6.90E+03	6.86E+03	6.63E+03	5.1
Aldrin	6.34E+03	6.64E+03	6.93E+03	6.97E+03	6.90E+03	6.76E+03	3.9
Telodrin	2.52E+03	2.53E+03	2.50E+03	2.49E+03	2.69E+03	2.55E+03	3.2
Heptachlor epoxide	5.34E+03	5.25E+03	5.56E+03	5.64E+03	5.58E+03	5.47E+03	3.1
o,p-DDE	2.56E+03	2.51E+03	2.58E+03	2.58E+03	2.75E+03	2.60E+03	3.4
gamma-Chlordane	4.72E+03	4.84E+03	5.09E+03	5.36E+03	5.34E+03	5.07E+03	5.7
alpha-Chlordane	4.64E+03	4.59E+03	4.86E+03	4.92E+03	5.00E+03	4.80E+03	3.7
Endosulfan I	4.19E+03	4.15E+03	4.45E+03	4.55E+03	4.56E+03	4.38E+03	4.5
4,4'-DDE	2.92E+03	3.28E+03	3.48E+03	3.62E+03	3.62E+03	3.38E+03	8.7
o,p-DDD	1.98E+03	1.90E+03	1.96E+03	2.07E+03	2.16E+03	2.01E+03	5.2
Dieldrin	4.40E+03	5.00E+03	5.03E+03	5.06E+03	5.03E+03	4.90E+03	5.8
Endrin	3.18E+03	3.51E+03	4.01E+03	4.16E+03	4.09E+03	3.79E+03	11.2 — linear
o,p-DDT	1.61E+03	1.65E+03	1.71E+03	1.52E+03	1.89E+03	1.68E+03	8.1
4,4'-DDD	2.06E+03	2.19E+03	2.35E+03	2.48E+03	2.53E+03	2.32E+03	8.4
Endosulfan II	3.08E+03	3.36E+03	3.64E+03	3.70E+03	3.80E+03	3.52E+03	8.3
Kepone	5.55E+02	6.21E+02	8.07E+02	7.88E+02	7.51E+02	7.05E+02	15.7 — linear
Endrin aldehyde	2.20E+03	2.36E+03	2.53E+03	2.63E+03	2.64E+03	2.47E+03	7.7
4,4'-DDT	2.21E+03	2.27E+03	2.58E+03	2.77E+03	2.87E+03	2.54E+03	11.5 — linear
Endosulfan sulfate	2.48E+03	2.64E+03	3.02E+03	3.09E+03	3.26E+03	2.90E+03	11.3 — linear
Methoxychlor	9.17E+02	9.24E+02	9.66E+02	9.53E+02	9.57E+02	9.43E+02	2.3
Endrin ketone	3.10E+03	2.98E+03	3.20E+03	3.28E+03	3.30E+03	3.17E+03	4.3
Mirex	2.04E+03	2.14E+03	2.14E+03	2.08E+03	2.14E+03	2.11E+03	2.3
Decachlorobiphenyl	1.37E+03	1.29E+03	1.35E+03	1.34E+03	1.37E+03	1.35E+03	2.6

Average % RSD: 5.9

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Calibration File: 1P6193

GC Column (1) : RTX CLP ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	3.45	3.42	3.48	87	79	1	50	4348	6.4
					80		2	100	8032	
					77		3	200	15477	
					76		4	500	37791	
					74		5	1000	74118	
	2	3.80	3.77	3.83	109	104	1	50	5447	3.3
					107		2	100	10667	
					103		3	200	20600	
					102		4	500	50788	
					101		5	1000	100918	
	3	4.00	3.97	4.03	184	192	1	50	9177	2.9
					189		2	100	18920	
					194		3	200	38715	
					197		4	500	98299	
					197		5	1000	196768	
	4	4.10	4.07	4.13	87	85	1	50	4350	3.9
					85		2	100	8526	
					80		3	200	15981	
					85		4	500	42314	
					89		5	1000	88701	
	5	4.17	4.14	4.20	70	66	1	50	3503	5.4
					62		2	100	6240	
					62		3	200	12462	
					65		4	500	32745	
					69		5	1000	68721	
	6	4.31	4.28	4.34	75	73	1	50	3755	4.6
					69		2	100	6871	
					70		3	200	14094	
					75		4	500	37509	
					76		5	1000	76361	
Aroclor-1221	1	3.34	3.31	3.37	39	39	1	200	7808	
	2	3.40	3.37	3.43	35	35	1	200	6900	
	3	3.45	3.42	3.48	106	106	1	200	21294	
Aroclor-1232	1	3.46	3.43	3.49	87	87	1	200	17471	
	2	3.80	3.77	3.83	43	43	1	200	8527	
	3	4.00	3.97	4.03	71	71	1	200	14299	
	4	4.10	4.07	4.13	32	32	1	200	6441	
	5	4.17	4.14	4.20	21	21	1	200	4277	
	6	4.31	4.28	4.34	25	25	1	200	4969	

USTB3 1346

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Calibration File: 1P6193

GC Column (1): RTX CLP ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	3.46	3.43	3.49	61	61	1	200	12236	
	2	3.80	3.77	3.83	82	82	1	200	16397	
	3	4.00	3.97	4.03	142	142	1	200	28490	
	4	4.10	4.07	4.13	63	63	1	200	12686	
	5	4.17	4.14	4.20	46	46	1	200	9237	
	6	4.31	4.28	4.34	54	54	1	200	10782	
Aroclor-1248	1	4.17	4.14	4.20	101	101	1	200	20254	
	2	4.31	4.28	4.34	113	113	1	200	22653	
	3	4.41	4.38	4.44	87	87	1	200	17422	
	4	4.75	4.72	4.78	111	111	1	200	22293	
	5	5.03	5.00	5.06	62	62	1	200	12304	
	6	5.25	5.22	5.28	31	31	1	200	6256	
Aroclor-1254	1	4.58	4.55	4.61	136	136	1	250	33990	
	2	4.75	4.72	4.78	190	190	1	250	47381	
	3	5.03	5.00	5.06	205	205	1	250	51176	
	4	5.25	5.22	5.28	104	104	1	250	25909	
	5	5.46	5.43	5.49	81	81	1	250	20322	
	6	5.57	5.54	5.60	137	137	1	250	34136	

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Calibration File: 1P6193

GC Column (1): RTX CLP ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	5.16	5.13	5.19	151	154	1	50	7550	3.1
					151		2	100	15093	
					151		3	200	30213	
					156		4	500	78206	
					162		5	1000	161536	
	2	5.36	5.33	5.39	150	158	1	50	7482	6.0
					152		2	100	15230	
					153		3	200	30570	
					164		4	500	81906	
					172		5	1000	171953	
	3	5.57	5.54	5.60	133	143	1	50	6661	6.9
					138		2	100	13757	
					138		3	200	27699	
					150		4	500	75115	
					157		5	1000	156889	
	4	5.64	5.61	5.67	102	107	1	50	5094	5.6
					104		2	100	10382	
					103		3	200	20620	
					114		4	500	56777	
					114		5	1000	113903	
	5	6.04	6.01	6.07	225	239	1	50	11258	4.0
					236		2	100	23600	
					237		3	200	47373	
					247		4	500	123263	
					249		5	1000	248897	
	6	6.25	6.22	6.28	93	95	1	50	4628	5.0
					93		2	100	9297	
					89		3	200	17776	
					98		4	500	49117	
					101		5	1000	100762	
Aroclor-1262	1	5.36	5.33	5.39	127	127	1	200	25339	
	2	5.64	5.61	5.67	185	185	1	200	36906	
	3	5.80	5.77	5.83	160	160	1	200	31979	
	4	6.04	6.01	6.07	292	292	1	200	58317	
	5	6.24	6.21	6.27	134	134	1	200	26816	
	6	6.67	6.64	6.70	80	80	1	200	15935	

USF03 1349

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Calibration File: 1P6193

GC Column (1): RTX CLP ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	6.24	6.21	6.27	303	303	1	200	60514	
	2	6.30	6.27	6.33	254	254	1	200	50842	
	3	6.43	6.40	6.46	255	255	1	200	51050	
	4	6.49	6.46	6.52	60	60	1	200	12020	
	5	6.67	6.64	6.70	88	88	1	200	17670	
	6	6.87	6.84	6.90	624	624	1	200	124818	
Chlordane (Technical)	1	3.92	3.89	3.96	237	245	1	25.075	5941	6.1
					234		2	50.15	11733	
					232		3	100.3	23312	
					257		4	200.6	51493	
					266		5	501.5	133164	
	2	4.06	4.03	4.10	284	300	1	25.075	7121	7.5
					282		2	50.15	14119	
					286		3	100.3	28682	
					323		4	200.6	64831	
					326		5	501.5	163531	
	3	4.27	4.24	4.31	150	144	1	25.075	3771	4.2
					142		2	50.15	7101	
					135		3	100.3	13529	
					145		4	200.6	28996	
					148		5	501.5	74083	
	4	4.78	4.74	4.81	613	659	1	25.075	15372	6.1
					627		2	50.15	31425	
					655		3	100.3	65669	
					700		4	200.6	140515	
					698		5	501.5	350124	
	5	4.84	4.80	4.87	683	727	1	25.075	17135	4.6
					704		2	50.15	35329	
					733		3	100.3	73494	
					768		4	200.6	154091	
					745		5	501.5	373635	
	6	5.49	5.45	5.52	139	128	1	25.075	3493	7.8
					118		2	50.15	5911	
					117		3	100.3	11737	
					130		4	200.6	26110	
					134		5	501.5	67379	

USF03 1349

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Calibration File: 1P6193

GC Column (1): RTX CLP ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Toxaphene	1	5.22	5.18	5.25	62	68	1	100	6196	11.4
					66		2	200	13238	
					61		3	500	30705	
					71		4	1000	71384	
					80		5	2000	160246	
	2	5.44	5.40	5.47	82	91	1	100	8158	10.3
					89		2	200	17736	
					83		3	500	41646	
					95		4	1000	94519	
					105		5	2000	209052	
	3	5.63	5.59	5.66	89	99	1	100	8872	8.0
					98		2	200	19595	
					95		3	500	47598	
					102		4	1000	102240	
					110		5	2000	219712	
	4	5.70	5.66	5.73	84	92	1	100	8405	7.9
					91		2	200	18263	
					86		3	500	42887	
					95		4	1000	95261	
					102		5	2000	203703	
	5	5.76	5.73	5.80	52	59	1	100	5212	10.6
					55		2	200	10986	
					57		3	500	28459	
					64		4	1000	64188	
					67		5	2000	133553	
	6	6.28	6.25	6.32	45	51	1	100	4529	10.8
					49		2	200	9859	
					47		3	500	23681	
					58		4	1000	57573	
					57		5	2000	113074	

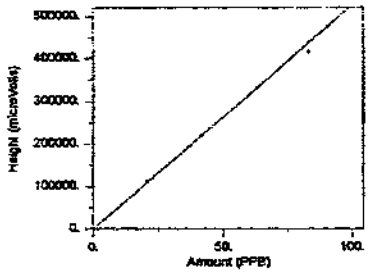
USF03 1358

Calibration File Name: **C:\CPWIN\DATA1\1P6193.CAL** Version = 19
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 50
Amount units = PPB
29 components with 5 levels each

1 TCX

Retention time = 3.192 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.170	22453.4	5384.52	Manual	7/12/2011 7:47:4
2	20.830	112747.3	5412.736	Manual	7/12/2011 7:47:4
3	41.660	218165.8	5236.817	Manual	7/12/2011 7:47:4
4	63.320	332624.3	5253.069	Manual	7/12/2011 7:47:4
5	83.320	415936.5	4992.037	Manual	7/12/2011 7:47:4



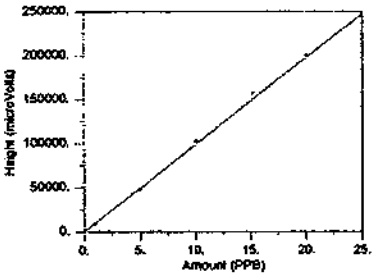
Calibration formula: Y = 5255.836 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9951, Average error = 2.17%
Average CF = 5255.8360 with RSD = 3.17%

2 alpha-BHC

Retention time = 3.487 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	9188.8	9188.838	Manual	7/12/2011 7:47:4
2	5.000	48091.6	9618.32	Manual	7/12/2011 7:47:4
3	10.000	102392.8	10239.28	Manual	7/12/2011 7:47:4
4	15.200	156571.8	10300.78	Manual	7/12/2011 7:47:4
5	20.000	200252.0	10012.6	Manual	7/12/2011 7:47:4

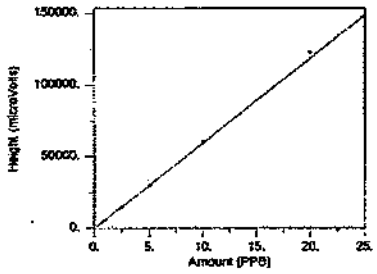
USP83 1351



Calibration formula: Y = 9871.963 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9973, Average error = 3.80%
Average CF = 9871.9630 with RSD = 4.72%

3 HCB
Retention time = 3.511 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	5733.0	5733	Manual	7/12/2011 7:47:4
2	2.500	14720.0	5888	Manual	7/12/2011 7:47:4
3	5.000	29597.0	5919.4	Manual	7/12/2011 7:47:4
4	10.000	59806.0	5980.6	Manual	7/12/2011 7:47:4
5	20.000	122837.0	6141.85	Manual	7/12/2011 7:47:4

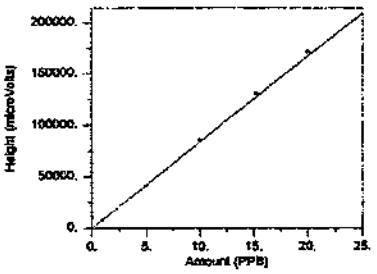


Calibration formula: Y = 5932.57 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9980, Average error = 1.73%
Average CF = 5932.5700 with RSD = 2.50%

4 gamma-BHC
Retention time = 3.693 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7825.7	7825.718	Manual	7/12/2011 7:47:4
2	5.000	41220.1	8244.024	Manual	7/12/2011 7:47:4
3	10.000	85390.1	8539.008	Manual	7/12/2011 7:47:4
4	15.200	131001.7	8618.533	Manual	7/12/2011 7:47:4
5	20.000	171816.3	8590.814	Manual	7/12/2011 7:47:4

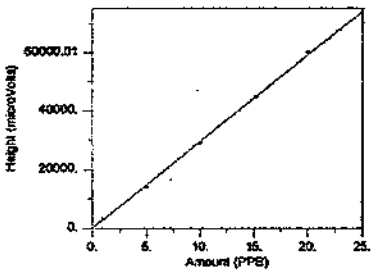
USF03 1352



Calibration formula: Y = 8363.619 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9977, Average error = 3.14%
Average CF = 8363.6190 with RSD = 4.01%

5 beta-BHC
Retention time = 3.821 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3119.7	3119.73	Manual	7/12/2011 7:47:4
2	5.000	14062.1	2812.422	Manual	7/12/2011 7:47:4
3	10.000	29183.0	2918.297	Manual	7/12/2011 7:47:4
4	15.200	44742.5	2943.588	Manual	7/12/2011 7:47:4
5	20.000	60196.3	3009.813	Manual	7/12/2011 7:47:4



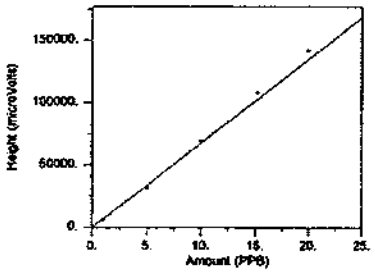
Calibration formula: Y = 2960.77 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9992, Average error = 2.81%
Average CF = 2960.7700 with RSD = 3.84%

6 delta-BHC
Retention time = 3.980 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6135.5	6135.506	Manual	7/12/2011 7:47:4
2	5.000	31920.7	6384.136	Manual	7/12/2011 7:47:4
3	10.000	69466.3	6946.626	Manual	7/12/2011 7:47:4
4	15.200	107795.4	7091.803	Manual	7/12/2011 7:47:4

USP03 1353

Level	Amount	Height	Height/Amt	Source	Date and time
5	20.000	141800.6	7090.03	Manual	7/12/2011 7:47:4

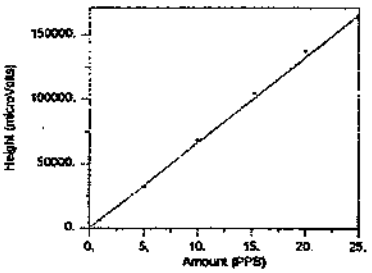


Calibration formula: Y = 6729.62 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9925, Average error = 5.58%
Average CF = 6729.6200 with RSD = 6.56%

7 Heptachlor

Retention time = 4.065 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6137.4	6137.377	Manual	7/12/2011 7:47:4
2	5.000	32037.6	6407.512	Manual	7/12/2011 7:47:4
3	10.000	68528.2	6852.824	Manual	7/12/2011 7:47:4
4	15.200	104859.8	6898.671	Manual	7/12/2011 7:47:4
5	20.000	137118.9	6855.945	Manual	7/12/2011 7:47:4



Calibration formula: Y = 6630.466 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9961, Average error = 4.32%
Average CF = 6630.4660 with RSD = 5.14%

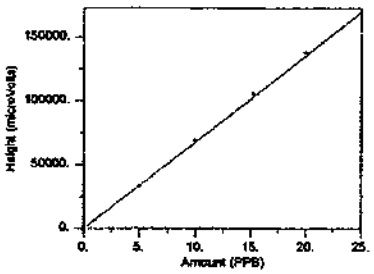
8 Aldrin

Retention time = 4.294 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6339.4	6339.382	Manual	7/12/2011 7:47:4

USF03 1354

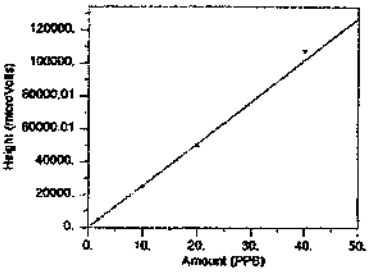
Level	Amount	Height	Height/Amt	Source	Date and time
2	5.000	33215.0	6643.006	Manual	7/12/2011 7:47:4
3	10.000	69322.0	6932.196	Manual	7/12/2011 7:47:4
4	15.200	105877.4	6965.618	Manual	7/12/2011 7:47:4
5	20.000	137914.4	6895.72	Manual	7/12/2011 7:47:4



Calibration formula: Y = 6755.185 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9981, Average error = 3.13%
Average CF = 6755.1850 with RSD = 3.92%

9 Telodrin
Retention time = 4.349 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	5039.0	2519.5	Manual	7/12/2011 7:47:4
2	5.000	12652.0	2530.4	Manual	7/12/2011 7:47:4
3	10.000	24992.0	2499.2	Manual	7/12/2011 7:47:4
4	20.000	49782.0	2489.1	Manual	7/12/2011 7:47:4
5	40.000	107518.0	2687.95	Manual	7/12/2011 7:47:4

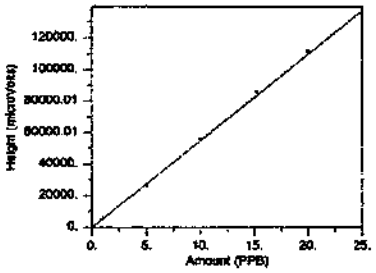


Calibration formula: Y = 2545.23 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9950, Average error = 2.24%
Average CF = 2545.2300 with RSD = 3.20%

10 Hept. epoxide
Retention time = 4.592 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USP83 1355

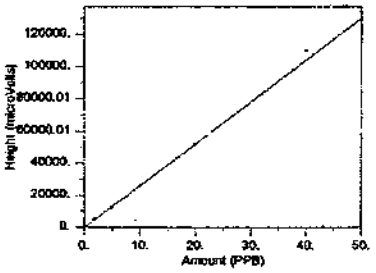
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	5336.5	5336.458	Manual	7/12/2011 7:47:4
2	5.000	26248.4	5249.68	Manual	7/12/2011 7:47:4
3	10.000	55638.6	5563.865	Manual	7/12/2011 7:47:4
4	15.200	85796.0	5644.477	Manual	7/12/2011 7:47:4
5	20.000	111578.2	5578.91	Manual	7/12/2011 7:47:4



Calibration formula: Y = 5474.678 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9982, Average error = 2.65%
Average CF = 5474.6780 with RSD = 3.13%

11 o,p-DDE
Retention time = 4.702 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	5119.0	2559.5	Manual	7/12/2011 7:47:4
2	5.000	12572.0	2514.4	Manual	7/12/2011 7:47:4
3	10.000	25800.0	2580	Manual	7/12/2011 7:47:4
4	20.000	51541.0	2577.05	Manual	7/12/2011 7:47:4
5	40.000	109892.0	2747.3	Manual	7/12/2011 7:47:4

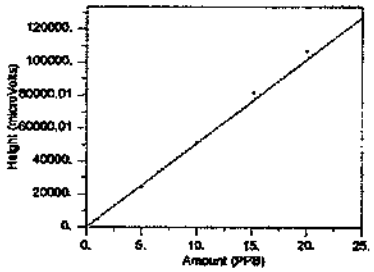


Calibration formula: Y = 2595.65 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9948, Average error = 2.34%
Average CF = 2595.6500 with RSD = 3.42%

12 g. Chlordane
Retention time = 4.777 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USF93 1356

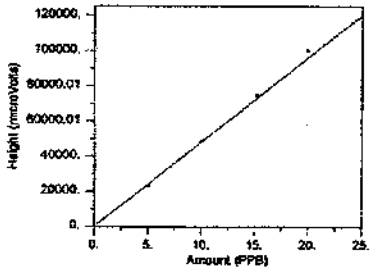
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	4719.7	4719.73	Manual	7/12/2011 7:47:4
2	5.000	24207.7	4841.546	Manual	7/12/2011 7:47:4
3	10.000	50916.8	5091.684	Manual	7/12/2011 7:47:4
4	15.200	81532.3	5363.967	Manual	7/12/2011 7:47:4
5	20.000	106794.4	5339.72	Manual	7/12/2011 7:47:4



Calibration formula: Y = 5071.329 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9927, Average error = 4.59%
Average CF = 5071.3290 with RSD = 5.70%

13 a. Chlordane
Retention time = 4.835 min., Search window = 0.031 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	4642.0	4641.977	Manual	7/12/2011 7:47:4
2	5.000	22962.8	4592.566	Manual	7/12/2011 7:47:4
3	10.000	48589.4	4858.941	Manual	7/12/2011 7:47:4
4	15.210	74866.5	4922.191	Manual	7/12/2011 7:47:4
5	20.010	100120.6	5003.528	Manual	7/12/2011 7:47:4



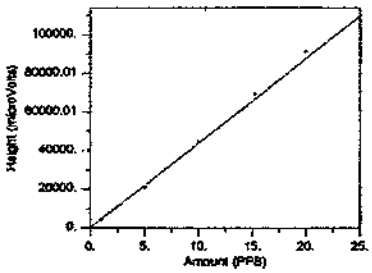
Calibration formula: Y = 4803.841 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9965, Average error = 3.11%
Average CF = 4803.8410 with RSD = 3.72%

14 Endosulfan I
Retention time = 4.877 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component

USEPA 1357

Single peak quantification by height

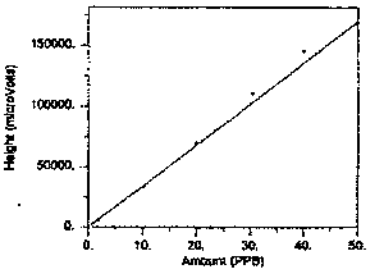
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	4188.7	4188.739	Manual	7/12/2011 7:47:4
2	5.000	20758.0	4151.596	Manual	7/12/2011 7:47:4
3	10.000	44508.0	4450.797	Manual	7/12/2011 7:47:4
4	15.200	69208.2	4553.168	Manual	7/12/2011 7:47:4
5	20.000	91232.8	4561.642	Manual	7/12/2011 7:47:4



Calibration formula: Y = 4381.188 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9956, Average error = 3.85%
Average CF = 4381.1890 with RSD = 4.52%

15 4,4'-DDE
Retention time = 4.961 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	5832.6	2916.283	Manual	7/12/2011 7:47:4
2	10.000	32849.0	3284.897	Manual	7/12/2011 7:47:4
3	20.000	69565.3	3478.267	Manual	7/12/2011 7:47:4
4	30.400	109954.8	3616.934	Manual	7/12/2011 7:47:4
5	40.000	144970.3	3624.257	Manual	7/12/2011 7:47:4



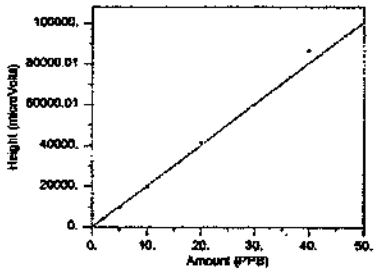
Calibration formula: Y = 3384.128 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9883, Average error = 6.70%
Average CF = 3384.1280 with RSD = 8.73%

16 o,p-DDD
Retention time = 5.041 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0

USF83 1358

No retention time reference component
Single peak quantification by height

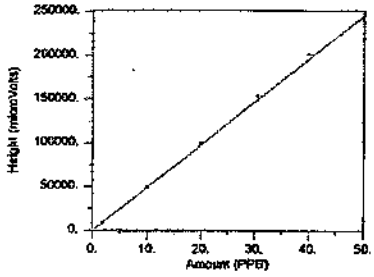
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	3952.0	1976	Manual	7/12/2011 7:47:4
2	5.000	9475.0	1895	Manual	7/12/2011 7:47:4
3	10.000	19598.0	1959.8	Manual	7/12/2011 7:47:4
4	20.000	41468.0	2073.4	Manual	7/12/2011 7:47:4
5	40.000	86482.0	2162.05	Manual	7/12/2011 7:47:4



Calibration formula: Y = 2013.25 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9917, Average error = 4.15%
Average CF = 2013.2500 with RSD = 5.21%

17 Dieldrin
Retention time = 5.086 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	8799.6	4399.797	Manual	7/12/2011 7:47:4
2	10.000	49982.6	4998.258	Manual	7/12/2011 7:47:4
3	20.000	100608.1	5030.405	Manual	7/12/2011 7:47:4
4	30.400	153751.2	5057.605	Manual	7/12/2011 7:47:4
5	40.000	201318.6	5032.965	Manual	7/12/2011 7:47:4



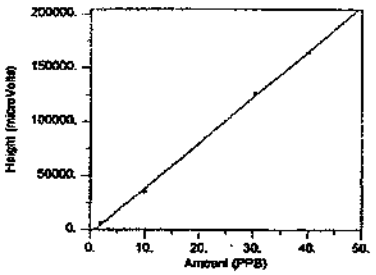
Calibration formula: Y = 4903.806 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9976, Average error = 4.11%
Average CF = 4903.8060 with RSD = 5.76%

18 Endrin
Retention time = 5.262 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2

USF83 1359

Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

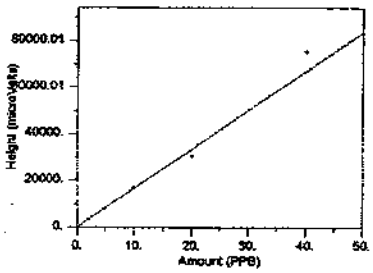
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	6358.1	3179.046	Manual	7/12/2011 7:47:4
2	10.000	35115.9	3511.595	Manual	7/12/2011 7:47:4
3	20.010	80224.0	4009.193	Manual	7/12/2011 7:47:4
4	30.410	126434.4	4157.659	Manual	7/12/2011 7:47:4
5	40.010	163559.3	4087.961	Manual	7/12/2011 7:47:4



Calibration formula: Y = 4212.292 X + -3954.688
Fit type = Linear with equal weighting
Coefficient of determination = 0.9988, Average error = 10.57%
Average CF = 3789.0910 with RSD = 11.22%

19 o,p-DDT
Retention time = 5.281 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	3221.0	1610.5	Manual	7/12/2011 7:47:4
2	5.000	8252.0	1650.4	Manual	7/12/2011 7:47:4
3	10.000	17050.0	1705	Manual	7/12/2011 7:47:4
4	20.000	30493.0	1524.65	Manual	7/12/2011 7:47:4
5	40.000	75552.0	1888.8	Manual	7/12/2011 7:47:4



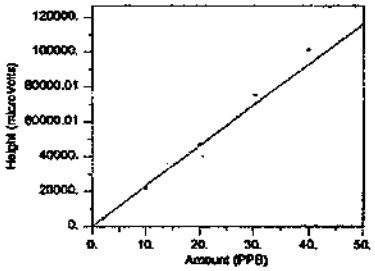
Calibration formula: Y = 1675.87 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9758, Average error = 5.78%
Average CF = 1675.8700 with RSD = 8.11%

20 4,4'-DDD
Retention time = 5.362 min., Search window = 0.026 min.

USF93 1368

Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4128.1	2064.042	Manual	7/12/2011 7:47:4
2	10.000	21902.2	2190.216	Manual	7/12/2011 7:47:4
3	20.010	46929.4	2345.298	Manual	7/12/2011 7:47:4
4	30.410	75414.9	2479.938	Manual	7/12/2011 7:47:4
5	40.010	101307.4	2532.052	Manual	7/12/2011 7:47:4

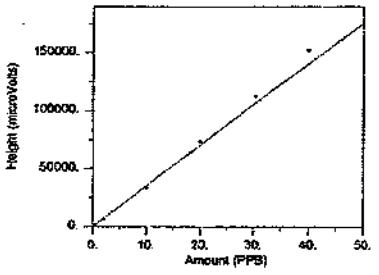


Calibration formula: Y = 2322.309 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9845, Average error = 6.72%
Average CF = 2322.3090 with RSD = 8.44%

21 Endosulfan II

Retention time = 5.432 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	6166.9	3083.448	Manual	7/12/2011 7:47:4
2	10.000	33575.3	3357.526	Manual	7/12/2011 7:47:4
3	20.000	72749.8	3637.492	Manual	7/12/2011 7:47:4
4	30.400	112606.8	3704.171	Manual	7/12/2011 7:47:4
5	40.000	152035.3	3800.882	Manual	7/12/2011 7:47:4



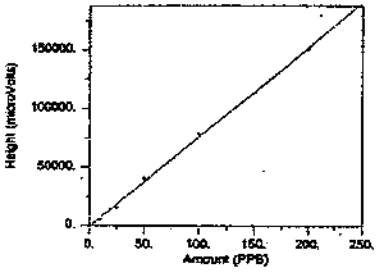
Calibration formula: Y = 3516.704 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9876, Average error = 6.74%
Average CF = 3516.7040 with RSD = 8.33%

USF83 1361

22 Kepone

Retention time = 5.471 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

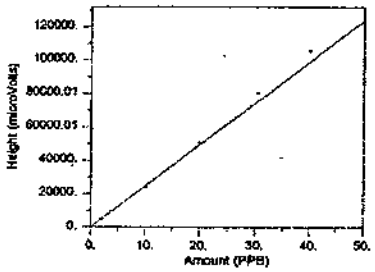
Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	5553.0	555.3	Manual	7/12/2011 7:47:4
2	25.000	15525.0	621	Manual	7/12/2011 7:47:4
3	50.000	40357.0	807.14	Manual	7/12/2011 7:47:4
4	100.000	78814.0	788.14	Manual	7/12/2011 7:47:4
5	200.000	150299.0	751.495	Manual	7/12/2011 7:47:4



Calibration formula: Y = 764.653 X + -768.648
Fit type = Linear with equal weighting
Coefficient of determination = 0.9977, Average error = 9.54%
Average CF = 704.6150 with RSD = 15.70%

23 Endrin aldehyde
Retention time = 5.531 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4402.6	2201.28	Manual	7/12/2011 7:47:4
2	10.010	23596.3	2357.274	Manual	7/12/2011 7:47:4
3	20.030	50646.1	2528.511	Manual	7/12/2011 7:47:4
4	30.440	80164.8	2633.535	Manual	7/12/2011 7:47:4
5	40.060	105673.1	2637.871	Manual	7/12/2011 7:47:4

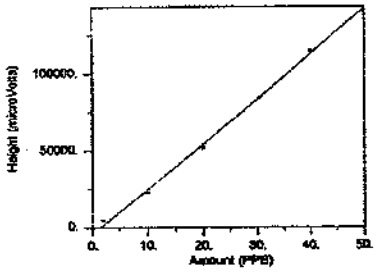


Calibration formula: Y = 2471.694 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9894, Average error = 6.23%
Average CF = 2471.6940 with RSD = 7.66%

USF03 5362

24 4,4'-DDT
Retention time = 5.597 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

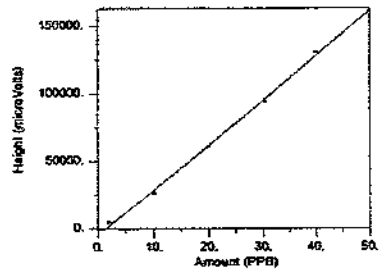
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4428.6	2214.276	Manual	7/12/2011 7:47:4
2	10.010	22728.9	2270.62	Manual	7/12/2011 7:47:4
3	20.030	51674.7	2579.867	Manual	7/12/2011 7:47:4
4	30.440	84260.2	2768.073	Manual	7/12/2011 7:47:4
5	40.060	114858.6	2867.164	Manual	7/12/2011 7:47:4



Calibration formula: Y = 2931.033 X + -4519.44
Fit type = Linear with equal weighting
Coefficient of determination = 0.9970, Average error = 49.03%
Average CF = 2540.0000 with RSD = 11.47%

25 Endo. sulfate
Retention time = 5.707 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4958.7	2479.374	Manual	7/12/2011 7:47:4
2	10.000	26353.3	2635.333	Manual	7/12/2011 7:47:4
3	20.000	60327.3	3016.363	Manual	7/12/2011 7:47:4
4	30.400	93940.1	3090.136	Manual	7/12/2011 7:47:4
5	40.000	130502.1	3262.552	Manual	7/12/2011 7:47:4

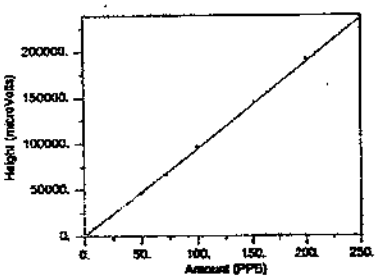


Calibration formula: Y = 3310.938 X + -4591.701
Fit type = Linear with equal weighting
Coefficient of determination = 0.9974, Average error = 31.65%
Average CF = 2896.7520 with RSD = 11.29%

USF03 1363

26 Methoxychlor
Retention time = 5.956 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

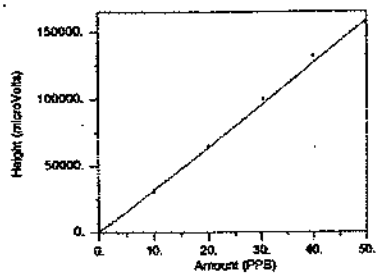
Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	9169.4	916.9359	Manual	7/12/2011 7:47:4
2	50.000	46200.9	924.0182	Manual	7/12/2011 7:47:4
3	100.000	96598.4	965.9836	Manual	7/12/2011 7:47:4
4	152.000	144854.3	952.9888	Manual	7/12/2011 7:47:4
5	200.000	191346.4	956.7321	Manual	7/12/2011 7:47:4



Calibration formula: Y = 943.332 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9993, Average error = 1.94%
Average CF = 943.3317 with RSD = 2.28%

27 Endrin ketone
Retention time = 6.073 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	6192.0	3095.979	Manual	7/12/2011 7:47:4
2	10.010	29789.3	2975.958	Manual	7/12/2011 7:47:4
3	20.010	64072.3	3202.011	Manual	7/12/2011 7:47:4
4	30.420	99813.6	3281.185	Manual	7/12/2011 7:47:4
5	40.020	131923.9	3296.449	Manual	7/12/2011 7:47:4



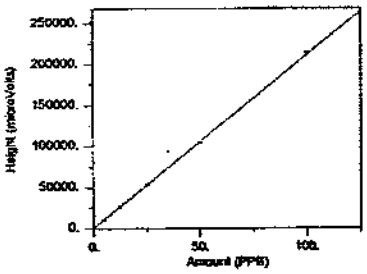
Calibration formula: Y = 3170.316 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9960, Average error = 3.39%

USF03 1364

Average CF = 3170.3160 with RSD = 4.25%

28 Mirex
Retention time = 6.411 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

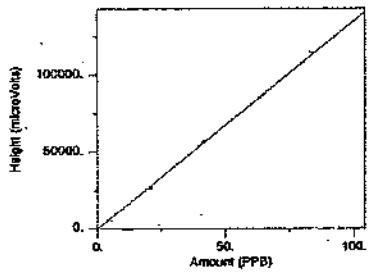
Level	Amount	Height	Height/Amt	Source	Date and time
1	5.000	10181.0	2036.2	Manual	7/12/2011 7:47:4
2	12.500	26812.0	2144.96	Manual	7/12/2011 7:47:4
3	25.000	53395.0	2135.8	Manual	7/12/2011 7:47:4
4	50.000	104001.0	2080.02	Manual	7/12/2011 7:47:4
5	100.100	214441.0	2142.268	Manual	7/12/2011 7:47:4



Calibration formula: Y = 2107.85 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9995, Average error = 1.89%
Average CF = 2107.8500 with RSD = 2.28%

29 DCB
Retention time = 7.035 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.170	5720.0	1371.711	Manual	7/12/2011 7:47:4
2	20.850	26826.4	1286.639	Manual	7/12/2011 7:47:4
3	41.700	56435.8	1353.376	Manual	7/12/2011 7:47:4
4	63.380	85033.8	1341.65	Manual	7/12/2011 7:47:4
5	83.400	114429.2	1372.053	Manual	7/12/2011 7:47:4



Calibration formula: Y = 1345.086 X
Fit type = Avg CF with equal weighting, forced to origin

USP83 1365

Coefficient of determination = 0.9991, Average error = 1.84%
Average CF = 1345.0860 with RSD = 2.61%

USF03 1366

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Calibration File: 1P6193B

GC Column (2) : RTX CLPII ID: 0.32 (mm) Update File: 1P6193B.09R

Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Tetrachloro-m-xylene	2.96	2.96	2.96	2.96	2.96	2.96	2.94	2.98
Hcb	3.28	3.28	3.28	3.28	3.28	3.28	3.26	3.30
alpha-BHC	3.32	3.32	3.32	3.32	3.32	3.32	3.30	3.34
gamma-BHC (Lindane)	3.53	3.53	3.53	3.53	3.53	3.53	3.51	3.55
beta-BHC	3.71	3.71	3.71	3.71	3.72	3.71	3.69	3.73
Heptachlor	3.75	3.75	3.75	3.75	3.76	3.75	3.73	3.78
delta-BHC	3.87	3.87	3.87	3.87	3.87	3.87	3.85	3.89
Aldrin	3.94	3.94	3.94	3.94	3.94	3.94	3.92	3.96
Telodrin	4.01	4.01	4.01	4.01	4.01	4.01	3.98	4.03
Heptachlor epoxide	4.27	4.27	4.27	4.27	4.28	4.27	4.25	4.30
o,p-DDE	4.39	4.39	4.39	4.39	4.39	4.39	4.37	4.41
gamma-Chlordane	4.44	4.44	4.44	4.44	4.45	4.44	4.42	4.47
alpha-Chlordane	4.49	4.49	4.49	4.49	4.49	4.49	4.47	4.51
Endosulfan I	4.54	4.54	4.54	4.54	4.54	4.54	4.52	4.56
4,4'-DDE	4.61	4.61	4.61	4.61	4.61	4.61	4.59	4.63
Dieldrin	4.73	4.73	4.73	4.73	4.73	4.73	4.70	4.76
o,p-DDD	4.73	4.73	4.73	4.73	4.73	4.73	4.71	4.75
o,p-DDT	4.92	4.92	4.92	4.92	4.92	4.92	4.90	4.94
Endrin	4.94	4.94	4.94	4.94	4.94	4.94	4.91	4.96
4,4'-DDD	5.02	5.02	5.02	5.02	5.02	5.02	5.00	5.05
Kepone	5.04	5.04	5.04	5.04	5.04	5.04	5.02	5.06
Endosulfan II	5.16	5.16	5.16	5.16	5.16	5.16	5.13	5.18
4,4'-DDT	5.22	5.22	5.22	5.22	5.22	5.22	5.19	5.24
Endrin aldehyde	5.29	5.29	5.29	5.29	5.29	5.29	5.27	5.32
Endosulfan sulfate	5.46	5.46	5.46	5.46	5.46	5.46	5.43	5.48
Methoxychlor	5.65	5.65	5.65	5.65	5.65	5.65	5.62	5.67
Endrin ketone	5.85	5.85	5.86	5.85	5.86	5.86	5.83	5.88
Mirex	6.00	6.00	6.00	6.00	6.00	6.00	5.97	6.02
Decachlorobiphenyl	6.63	6.63	6.63	6.63	6.63	6.63	6.61	6.65

7/13/11

USF83 1367

FORM VI-1

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Calibration File: 1P6193B

GC Column (2): RTX CLPII ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	CALIBRATION FACTORS						%RSD	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN		
Tetrachloro-m-xylene	8.93E+03	9.03E+03	9.03E+03	8.60E+03	8.25E+03	8.77E+03	3.9	
Hcb	1.35E+04	1.35E+04	1.37E+04	1.38E+04	1.44E+04	1.38E+04	2.7	
alpha-BHC	1.39E+04	1.41E+04	1.47E+04	1.51E+04	1.48E+04	1.45E+04	3.4	
gamma-BHC (Lindane)	1.27E+04	1.26E+04	1.33E+04	1.35E+04	1.32E+04	1.31E+04	3.1	
beta-BHC	5.79E+03	5.12E+03	5.19E+03	5.32E+03	5.12E+03	5.31E+03	5.3	
Heptachlor	9.50E+03	9.08E+03	9.61E+03	9.88E+03	9.82E+03	9.58E+03	3.3	
delta-BHC	1.09E+04	1.13E+04	1.21E+04	1.25E+04	1.27E+04	1.19E+04	6.3	
Aldrin	8.30E+03	8.73E+03	8.79E+03	9.03E+03	8.54E+03	8.68E+03	3.2	
Telodrin	8.22E+03	7.77E+03	7.36E+03	7.19E+03	7.55E+03	7.62E+03	5.3	
Heptachlor epoxide	9.05E+03	8.25E+03	8.43E+03	8.52E+03	8.33E+03	8.51E+03	3.7	
o,p-DDE	5.88E+03	5.27E+03	5.05E+03	5.09E+03	5.12E+03	5.28E+03	6.5	
gamma-Chlordane	8.52E+03	7.91E+03	8.22E+03	8.38E+03	8.31E+03	8.27E+03	2.7	
alpha-Chlordane	7.24E+03	7.05E+03	7.23E+03	7.30E+03	7.00E+03	7.17E+03	1.8	
Endosulfan I	7.81E+03	7.31E+03	7.37E+03	7.57E+03	7.44E+03	7.50E+03	2.6	
4,4'-DDE	5.44E+03	5.73E+03	7.19E+03	7.55E+03	7.60E+03	6.70E+03	15.5	linear
Dieldrin	7.74E+03	7.89E+03	8.00E+03	8.14E+03	8.02E+03	7.96E+03	1.9	
o,p-DDD	4.79E+03	4.37E+03	4.25E+03	4.11E+03	4.34E+03	4.37E+03	5.9	
o,p-DDT	4.50E+03	4.49E+03	4.47E+03	4.42E+03	4.68E+03	4.51E+03	2.1	
Endrin	6.56E+03	6.36E+03	6.71E+03	6.76E+03	6.68E+03	6.61E+03	2.4	
4,4'-DDD	5.26E+03	5.21E+03	5.47E+03	5.66E+03	5.71E+03	5.46E+03	4.2	
Kepone	7.18E+02	8.46E+02	1.07E+03	1.05E+03	1.01E+03	9.39E+02	16.2	linear
Endosulfan II	5.83E+03	5.77E+03	5.97E+03	6.08E+03	6.19E+03	5.97E+03	2.9	
4,4'-DDT	5.09E+03	4.96E+03	5.50E+03	5.72E+03	5.89E+03	5.43E+03	7.3	
Endrin aldehyde	4.51E+03	4.34E+03	4.67E+03	4.75E+03	4.89E+03	4.63E+03	4.6	
Endosulfan sulfate	4.68E+03	4.45E+03	4.97E+03	5.06E+03	5.25E+03	4.88E+03	6.5	
Methoxychlor	2.15E+03	1.97E+03	1.96E+03	1.87E+03	1.81E+03	1.95E+03	6.5	
Endrin ketone	6.67E+03	6.00E+03	6.08E+03	6.07E+03	6.08E+03	6.18E+03	4.5	
Mirex	4.12E+03	4.03E+03	3.88E+03	3.77E+03	3.87E+03	3.93E+03	3.6	
Decachlorobiphenyl	3.71E+03	3.32E+03	3.48E+03	3.53E+03	3.50E+03	3.51E+03	4.0	

Average % RSD: 4.9

7/13/11

USF83 1368

FORM VI-2

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Calibration File: 1P6193B

GC Column (2): RTX CLPII ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	3.25	3.22	3.28	160	147	1	50	7994	8.0
					158		2	100	15754	
					147		3	200	29307	
					139		4	500	69308	
					133		5	1000	132724	
	2	3.46	3.43	3.49	222	205	1	50	11117	7.2
					215		2	100	21531	
					204		3	200	40885	
					195		4	500	97575	
					186		5	1000	186133	
	3	3.59	3.56	3.62	199	186	1	50	9943	5.6
					194		2	100	19415	
					183		3	200	36589	
					177		4	500	88637	
					175		5	1000	175345	
	4	3.76	3.73	3.79	432	427	1	50	21590	2.5
					436		2	100	43608	
					430		3	200	85920	
					431		4	500	215431	
					409		5	1000	408875	
	5	3.80	3.77	3.83	214	206	1	50	10710	3.4
					212		2	100	21155	
					203		3	200	40525	
					202		4	500	101057	
					198		5	1000	197560	
	6	4.06	4.03	4.09	180	167	1	50	8980	5.7
					175		2	100	17498	
					158		3	200	31528	
					165		4	500	82288	
					160		5	1000	159851	
Aroclor-1221	1	3.13	3.10	3.16	80	80	1	200	15991	
	2	3.19	3.16	3.22	57	57	1	200	11469	
	3	3.25	3.22	3.28	199	199	1	200	39863	
Aroclor-1232	1	3.25	3.22	3.28	168	168	1	200	33605	
	2	3.47	3.44	3.50	87	87	1	200	17496	
	3	3.59	3.56	3.62	79	79	1	200	15874	
	4	3.76	3.73	3.79	176	176	1	200	35242	
	5	3.80	3.77	3.83	86	86	1	200	17147	
	6	4.06	4.03	4.09	65	65	1	200	13013	

USF83 1369

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Calibration File: 1P6193B

GC Column (2): RTX CLPII ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	3.25	3.22	3.28	116	116	1	200	23148	
	2	3.47	3.44	3.50	160	160	1	200	32085	
	3	3.59	3.56	3.62	144	144	1	200	28816	
	4	3.76	3.73	3.79	332	332	1	200	66350	
	5	3.80	3.77	3.83	158	158	1	200	31564	
	6	4.06	4.03	4.09	135	135	1	200	27070	
Aroclor-1248	1	3.91	3.88	3.94	208	208	1	200	41572	
	2	4.06	4.03	4.09	252	252	1	200	50454	
	3	4.16	4.13	4.19	188	188	1	200	37577	
	4	4.31	4.28	4.34	367	367	1	200	73426	
	5	4.46	4.43	4.49	190	190	1	200	38052	
	6	4.71	4.68	4.74	142	142	1	200	28477	
Aroclor-1254	1	4.31	4.28	4.34	373	373	1	250	93221	
	2	4.41	4.38	4.44	318	318	1	250	79516	
	3	4.71	4.68	4.74	449	449	1	250	112251	
	4	4.89	4.86	4.92	288	288	1	250	72008	
	5	5.13	5.10	5.16	187	187	1	250	46702	
	6	5.21	5.18	5.24	308	308	1	250	76963	

USF03 1378

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Calibration File: 1P6193B

GC Column (2): RTX CLPII ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	4.81	4.78	4.84	312	301	1	50	15582	2.8
					305		2	100	30549	
					299		3	200	59805	
					297		4	500	148632	
					290		5	1000	289545	
	2	4.96	4.93	4.99	370	363	1	50	18512	1.8
					362		2	100	36243	
					363		3	200	72671	
					365		4	500	182518	
					352		5	1000	351965	
	3	5.08	5.05	5.11	317	305	1	50	15870	3.7
					313		2	100	31284	
					293		3	200	58555	
					308		4	500	153807	
					293		5	1000	293048	
	4	5.21	5.18	5.24	343	345	1	50	17142	1.5
					343		2	100	34310	
					343		3	200	68677	
					355		4	500	177384	
					343		5	1000	342545	
	5	5.64	5.61	5.67	602	600	1	50	30088	1.9
					603		2	100	60347	
					589		3	200	117711	
					616		4	500	308205	
					590		5	1000	589623	
	6	5.90	5.87	5.93	422	403	1	50	21118	2.9
					403		2	100	40285	
					394		3	200	78765	
					394		4	500	197172	
					400		5	1000	400305	
Aroclor-1262	1	5.08	5.05	5.11	267	267	1	200	53435	
	2	5.25	5.22	5.28	433	433	1	200	86601	
	3	5.44	5.41	5.47	357	357	1	200	71439	
	4	5.64	5.61	5.67	714	714	1	200	142795	
	5	5.90	5.87	5.93	495	495	1	200	99090	
	6	6.27	6.24	6.30	215	215	1	200	42924	

USF63 1371

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Calibration File: 1P6193B

GC Column (2): RTX CLPII ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	5.85	5.82	5.88	807	807	1	200	161444	
	2	5.90	5.87	5.93	761	761	1	200	152157	
	3	6.05	6.02	6.08	538	538	1	200	107554	
	4	6.12	6.09	6.15	149	149	1	200	29893	
	5	6.27	6.24	6.30	241	241	1	200	48204	
	6	6.47	6.44	6.50	1710	1710	1	200	341930	
Chlordane (Technical)	1	3.64	3.61	3.68	379	359	1	25.08	9497	3.4
					349		2	50.15	17494	
					350		3	100.3	35103	
					357		4	200.6	71540	
					362		5	501.5	181741	
	2	3.75	3.72	3.79	430	427	1	25.08	10792	2.9
					409		2	50.15	20494	
					421		3	100.3	42261	
					436		4	200.6	87447	
					440		5	501.5	220629	
	3	4.01	3.98	4.05	325	276	1	25.08	8139	10.2
					278		2	50.15	13918	
					263		3	100.3	26399	
					258		4	200.6	51846	
					257		5	501.5	128986	
	4	4.45	4.41	4.48	1014	987	1	25.08	25435	2.2
					969		2	50.15	48587	
					963		3	100.3	96574	
					1000		4	200.6	200629	
					988		5	501.5	495621	
	5	4.49	4.46	4.53	692	656	1	25.08	17352	5.3
					639		2	50.15	32049	
					674		3	100.3	67571	
					604		4	200.6	121166	
					671		5	501.5	336596	
	6	5.16	5.13	5.20	226	229	1	25.08	5677	3.3
					229		2	50.15	11484	
					220		3	100.3	22102	
					231		4	200.6	46299	
					241		5	501.5	120777	

USF03 5372

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Calibration File: 1P6193B

GC Column (2) : RTX CLPII ID: 0.32 (mm) Date(s) Analyzed: 7/12/2011 7/13/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Toxaphene	1	4.91	4.88	4.95	63	68	1	100	6274	8.3
					64		2	200	12735	
					65		3	500	32270	
					74		4	1000	74131	
					73		5	2000	146855	
	2	5.32	5.28	5.35	87	92	1	100	8674	6.9
					89		2	200	17758	
					88		3	500	44030	
					101		4	1000	101013	
					97		5	2000	194343	
	3	5.38	5.35	5.42	170	199	1	100	17006	10.4
					195		2	200	38908	
					192		3	500	95793	
					216		4	1000	216160	
					221		5	2000	442997	
	4	5.59	5.55	5.62	98	114	1	100	9790	11.5
					107		2	200	21389	
					110		3	500	54965	
					129		4	1000	128789	
					126		5	2000	252038	
	5	5.67	5.63	5.70	111	125	1	100	11148	10.7
					120		2	200	23917	
					116		3	500	57817	
					138		4	1000	137697	
					141		5	2000	281677	
	6	5.77	5.73	5.80	220	240	1	100	21967	7.0
					232		2	200	46461	
					234		3	500	117208	
					264		4	1000	264098	
					247		5	2000	494923	

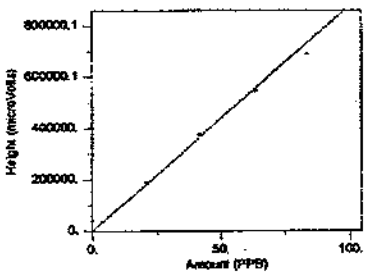
USF03 1373

Calibration File Name: **C:\CPWIN\DATA1\1P6193B.CAL** Version = 16
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 50
Amount units = PPB
29 components with 5 levels each

1 TCX

Retention time = 2.956 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.170	37235.8	8929.458	Manual	7/12/2011 7:55:0
2	20.830	188195.3	9034.82	Manual	7/12/2011 7:55:0
3	41.660	376308.6	9032.852	Manual	7/12/2011 7:55:0
4	63.320	544744.3	8603.037	Manual	7/12/2011 7:55:0
5	83.320	687301.1	8248.934	Manual	7/12/2011 7:55:0



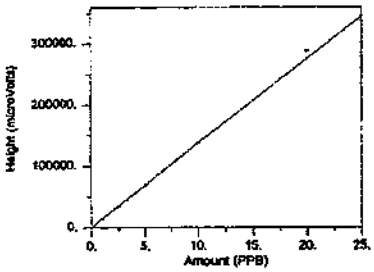
Calibration formula: Y = 8769.82 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9922, Average error = 3.14%
Average CF = 8769.8200 with RSD = 3.88%

2 HCB

Retention time = 3.278 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	13512.0	13512	Manual	7/12/2011 7:55:0
2	2.500	33806.0	13522.4	Manual	7/12/2011 7:55:0
3	5.000	68262.0	13652.4	Manual	7/12/2011 7:55:0
4	10.000	137947.0	13794.7	Manual	7/12/2011 7:55:0
5	20.000	287983.0	14399.15	Manual	7/12/2011 7:55:0

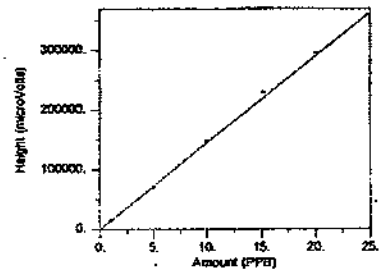
USP03 1374



Calibration formula: Y = 13776.13 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9968, Average error = 1.86%
Average CF = 13776.1300 with RSD = 2.66%

3 alpha-BHC
Retention time = 3.316 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	13909.2	13909.2	Manual	7/12/2011 7:55:0
2	5.000	70451.1	14090.22	Manual	7/12/2011 7:55:0
3	10.000	147220.8	14722.08	Manual	7/12/2011 7:55:0
4	15.200	229256.2	15082.65	Manual	7/12/2011 7:55:0
5	20.000	295309.8	14765.49	Manual	7/12/2011 7:55:0

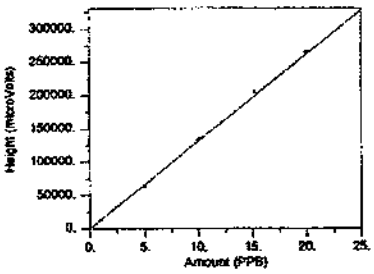


Calibration formula: Y = 14513.93 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9979, Average error = 2.83%
Average CF = 14513.9300 with RSD = 3.40%

4 gamma-BHC
Retention time = 3.533 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	12681.0	12681.01	Manual	7/12/2011 7:55:0
2	5.000	63090.4	12618.07	Manual	7/12/2011 7:55:0
3	10.000	133191.0	13319.1	Manual	7/12/2011 7:55:0
4	15.200	205320.7	13507.94	Manual	7/12/2011 7:55:0
5	20.000	264623.5	13231.17	Manual	7/12/2011 7:55:0

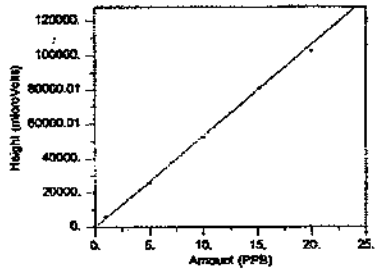
USF93 1375



Calibration formula: Y = 13071.46 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9984, Average error = 2.58%
Average CF = 13071.4600 with RSD = 3.05%

5 beta-BHC
Retention time = 3.713 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	5790.4	5790.398	Manual	7/12/2011 7:55:0
2	5.000	25605.0	5121.004	Manual	7/12/2011 7:55:0
3	10.000	51856.9	5185.693	Manual	7/12/2011 7:55:0
4	15.200	80895.8	5322.09	Manual	7/12/2011 7:55:0
5	20.000	102379.9	5118.995	Manual	7/12/2011 7:55:0



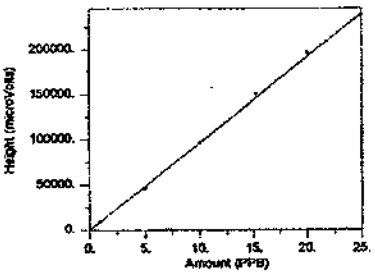
Calibration formula: Y = 5307.636 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9973, Average error = 3.75%
Average CF = 5307.6360 with RSD = 5.32%

6 Heptachlor
Retention time = 3.754 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	9502.7	9502.745	Manual	7/12/2011 7:55:0
2	5.000	45401.2	9080.236	Manual	7/12/2011 7:55:0
3	10.000	96055.3	9605.529	Manual	7/12/2011 7:55:0
4	15.200	150212.4	9882.396	Manual	7/12/2011 7:55:0

USF83 1376

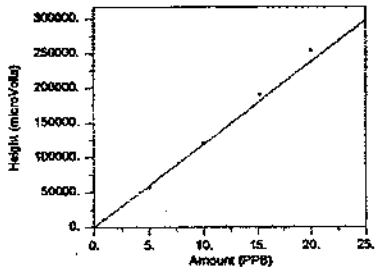
Level	Amount	Height	Height/Amt	Source	Date and time
5	20.000	196329.1	9816.455	Manual	7/12/2011 7:55:0



Calibration formula: Y = 9577.473 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9978, Average error = 2.39%
Average CF = 9577.4730 with RSD = 3.32%

7 delta-BHC
Retention time = 3.869 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	10942.7	10942.73	Manual	7/12/2011 7:55:0
2	5.000	56604.4	11320.88	Manual	7/12/2011 7:55:0
3	10.000	120892.2	12089.22	Manual	7/12/2011 7:55:0
4	15.200	190415.3	12527.32	Manual	7/12/2011 7:55:0
5	20.000	253360.6	12668.03	Manual	7/12/2011 7:55:0



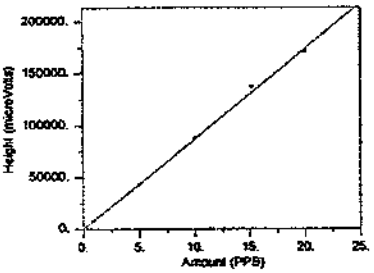
Calibration formula: Y = 11909.64 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9914, Average error = 5.22%
Average CF = 11909.6400 with RSD = 6.33%

8 Aldrin
Retention time = 3.941 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	8296.0	8296.008	Manual	7/12/2011 7:55:0

USF93 1377

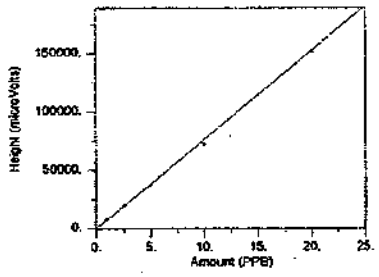
Level	Amount	Height	Height/Amt	Source	Date and time
2	5.000	43646.7	8729.346	Manual	7/12/2011 7:55:0
3	10.000	87862.2	8786.221	Manual	7/12/2011 7:55:0
4	15.200	137312.8	9033.736	Manual	7/12/2011 7:55:0
5	20.000	170888.8	8544.439	Manual	7/12/2011 7:55:0



Calibration formula: Y = 8677.95 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9979, Average error = 2.38%
Average CF = 8677.9500 with RSD = 3.18%

9 Telodrin
Retention time = 4.006 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	8221.0	8221	Manual	7/12/2011 7:55:0
2	2.500	19424.0	7769.6	Manual	7/12/2011 7:55:0
3	5.000	36803.0	7360.6	Manual	7/12/2011 7:55:0
4	10.000	71903.0	7190.3	Manual	7/12/2011 7:55:0
5	20.000	151050.0	7552.5	Manual	7/12/2011 7:55:0

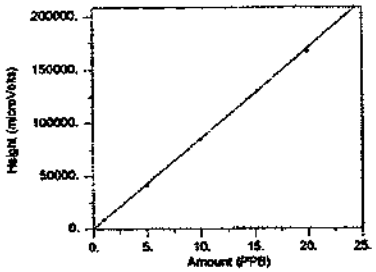


Calibration formula: Y = 7618.8 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9983, Average error = 3.95%
Average CF = 7618.8000 with RSD = 5.25%

10 Hept. epoxide
Retention time = 4.274 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USP93 1378

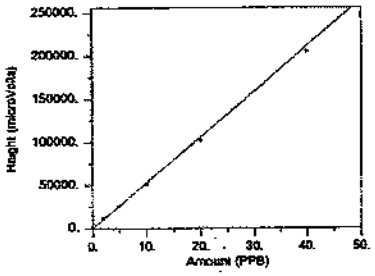
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	9050.8	9050.779	Manual	7/12/2011 7:55:0
2	5.000	41230.4	8246.086	Manual	7/12/2011 7:55:0
3	10.000	84279.3	8427.932	Manual	7/12/2011 7:55:0
4	15.200	129447.6	8516.29	Manual	7/12/2011 7:55:0
5	20.000	166597.7	8329.885	Manual	7/12/2011 7:55:0



Calibration formula: Y = 8514.194 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9990, Average error = 2.53%
Average CF = 8514.1940 with RSD = 3.72%

11 o,p-DDE
Retention time = 4.387 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	11758.0	5879	Manual	7/12/2011 7:55:0
2	5.000	26336.0	5267.2	Manual	7/12/2011 7:55:0
3	10.000	50516.0	5051.6	Manual	7/12/2011 7:55:0
4	20.000	101783.0	5089.15	Manual	7/12/2011 7:55:0
5	40.000	204770.0	5119.25	Manual	7/12/2011 7:55:0

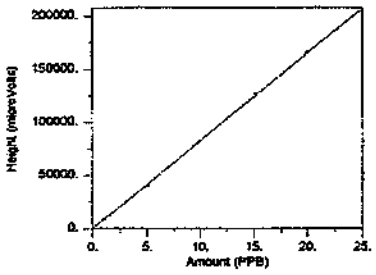


Calibration formula: Y = 5281.24 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9974, Average error = 4.53%
Average CF = 5281.2400 with RSD = 6.51%

12 g. Chlordane
Retention time = 4.444 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USF83 1379

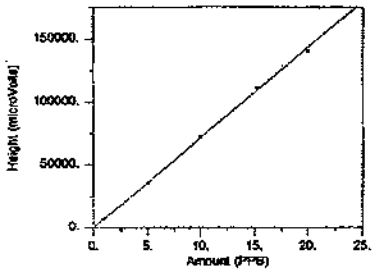
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	8519.9	8519.926	Manual	7/12/2011 7:55:0
2	5.000	39570.6	7914.126	Manual	7/12/2011 7:55:0
3	10.000	82239.4	8223.938	Manual	7/12/2011 7:55:0
4	15.200	127322.5	8376.48	Manual	7/12/2011 7:55:0
5	20.000	166192.7	8309.635	Manual	7/12/2011 7:55:0



Calibration formula: Y = 8268.821 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9996, Average error = 1.93%
Average CF = 8268.8210 with RSD = 2.73%

13 a. Chlordane
Retention time = 4.490 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7237.4	7237.414	Manual	7/12/2011 7:55:0
2	5.000	35272.4	7054.476	Manual	7/12/2011 7:55:0
3	10.000	72327.5	7232.746	Manual	7/12/2011 7:55:0
4	15.210	111011.7	7298.6	Manual	7/12/2011 7:55:0
5	20.010	140137.0	7003.348	Manual	7/12/2011 7:55:0



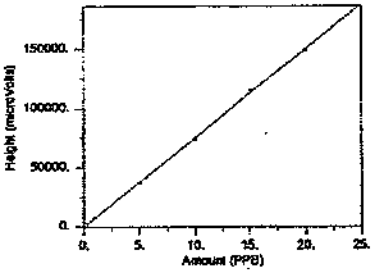
Calibration formula: Y = 7165.317 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9987, Average error = 1.52%
Average CF = 7165.3170 with RSD = 1.79%

14 Endosulfan I
Retention time = 4.537 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component

USF03 1388

Single peak quantification by height

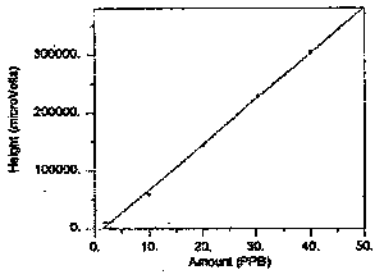
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7809.1	7809.129	Manual	7/12/2011 7:55:0
2	5.000	36557.7	7311.548	Manual	7/12/2011 7:55:0
3	10.000	73683.2	7368.321	Manual	7/12/2011 7:55:0
4	15.200	115098.8	7572.29	Manual	7/12/2011 7:55:0
5	20.000	148836.0	7441.8	Manual	7/12/2011 7:55:0



Calibration formula: Y = 7500.618 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9996, Average error = 2.03%
Average CF = 7500.6180 with RSD = 2.64%

15 4,4'-DDE
Retention time = 4.607 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	10876.4	5438.21	Manual	7/12/2011 7:55:0
2	10.000	57250.4	5725.036	Manual	7/12/2011 7:55:0
3	20.000	143749.9	7187.495	Manual	7/12/2011 7:55:0
4	30.400	229612.1	7553.029	Manual	7/12/2011 7:55:0
5	40.000	303935.4	7598.385	Manual	7/12/2011 7:55:0



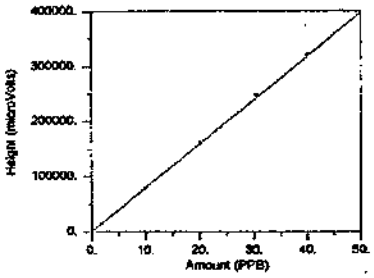
Calibration formula: Y = 7884.564 X + -12391.02
Fit type = Linear with equal weighting
Coefficient of determination = 0.9974, Average error = 47.64%
Average CF = 6700.4310 with RSD = 15.50%

16 Dieldrin
Retention time = 4.727 min., Search window = 0.031 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0

USF03 1381

No retention time reference component
Single peak quantification by height

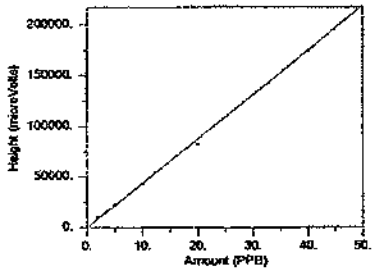
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	15488.4	7744.185	Manual	7/12/2011 7:55:0
2	10.000	78934.8	7893.478	Manual	7/12/2011 7:55:0
3	20.000	160089.8	8004.49	Manual	7/12/2011 7:55:0
4	30.400	247537.8	8142.691	Manual	7/12/2011 7:55:0
5	40.000	320615.4	8015.385	Manual	7/12/2011 7:55:0



Calibration formula: Y = 7960.046 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9994, Average error = 1.42%
Average CF = 7960.0460 with RSD = 1.88%

17 o,p-DDD
Retention time = 4.727 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	9585.0	4792.5	Manual	7/12/2011 7:55:0
2	5.000	21864.0	4372.8	Manual	7/12/2011 7:55:0
3	10.000	42507.0	4250.7	Manual	7/12/2011 7:55:0
4	20.000	82173.0	4108.65	Manual	7/12/2011 7:55:0
5	40.000	173788.0	4344.7	Manual	7/12/2011 7:55:0



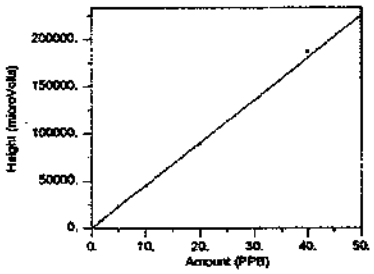
Calibration formula: Y = 4373.87 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9982, Average error = 3.83%
Average CF = 4373.8700 with RSD = 5.85%

18 o,p-DDT
Retention time = 4.921 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2

USF03 1382

Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

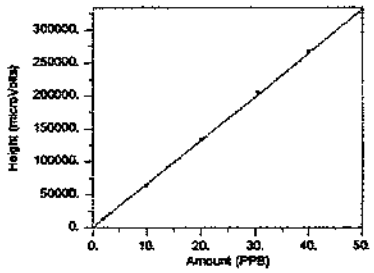
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	8994.0	4497	Manual	7/12/2011 7:55:0
2	5.000	22461.0	4492.2	Manual	7/12/2011 7:55:0
3	10.000	44719.0	4471.9	Manual	7/12/2011 7:55:0
4	20.000	88411.0	4420.55	Manual	7/12/2011 7:55:0
5	40.000	187022.0	4675.55	Manual	7/12/2011 7:55:0



Calibration formula: Y = 4511.44 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9977, Average error = 1.46%
Average CF = 4511.4400 with RSD = 2.14%

19 Endrin
Retention time = 4.938 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	13115.0	6557.5	Manual	7/12/2011 7:55:0
2	10.000	63648.5	6364.846	Manual	7/12/2011 7:55:0
3	20.010	134173.5	6705.322	Manual	7/12/2011 7:55:0
4	30.410	205435.6	6755.528	Manual	7/12/2011 7:55:0
5	40.010	267275.3	6680.213	Manual	7/12/2011 7:55:0



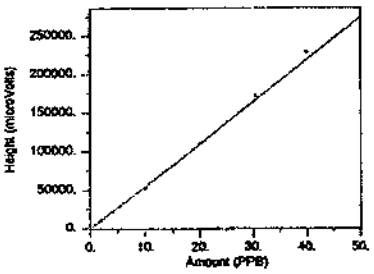
Calibration formula: Y = 6612.682 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9992, Average error = 1.83%
Average CF = 6612.6820 with RSD = 2.37%

USF83 1383

20 4,4'-DDD
Retention time = 5.021 min., Search window = 0.026 min.

Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	10521.9	5260.935	Manual	7/12/2011 7:55:0
2	10.000	52071.4	5207.141	Manual	7/12/2011 7:55:0
3	20.010	109427.8	5468.655	Manual	7/12/2011 7:55:0
4	30.410	172007.8	5656.291	Manual	7/12/2011 7:55:0
5	40.010	228630.1	5714.324	Manual	7/12/2011 7:55:0

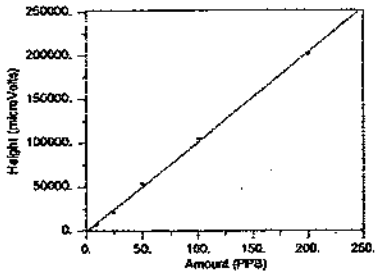


Calibration formula: Y = 5461.469 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9954, Average error = 3.33%
Average CF = 5461.4690 with RSD = 4.16%

21 Kepone

Retention time = 5.035 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	7178.0	717.8	Manual	7/12/2011 7:55:0
2	25.000	21161.0	846.44	Manual	7/12/2011 7:55:0
3	50.000	53529.0	1070.58	Manual	7/12/2011 7:55:0
4	100.000	104996.0	1049.96	Manual	7/12/2011 7:55:0
5	200.000	201756.0	1008.78	Manual	7/12/2011 7:55:0



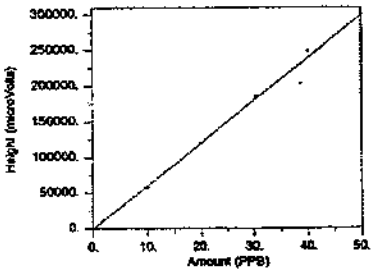
Calibration formula: Y = 1026.477 X + -1314.695
Fit type = Linear with equal weighting
Coefficient of determination = 0.9982, Average error = 8.93%
Average CF = 938.7120 with RSD = 16.16%

USF83 1384

22 Endosulfan II

Retention time = 5.156 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

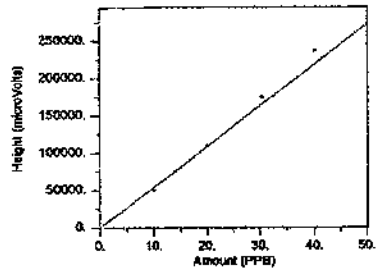
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	11651.1	5825.545	Manual	7/12/2011 7:55:0
2	10.000	57722.4	5772.242	Manual	7/12/2011 7:55:0
3	20.000	119423.3	5971.165	Manual	7/12/2011 7:55:0
4	30.400	184689.6	6075.315	Manual	7/12/2011 7:55:0
5	40.000	247536.2	6188.405	Manual	7/12/2011 7:55:0



Calibration formula: Y = 5966.535 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9974, Average error = 2.25%
Average CF = 5966.5350 with RSD = 2.89%

23 4,4'-DDT
Retention time = 5.216 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	10188.3	5094.125	Manual	7/12/2011 7:55:0
2	10.010	49635.0	4958.54	Manual	7/12/2011 7:55:0
3	20.030	110079.8	5495.746	Manual	7/12/2011 7:55:0
4	30.440	174225.7	5723.578	Manual	7/12/2011 7:55:0
5	40.060	235847.5	5887.356	Manual	7/12/2011 7:55:0

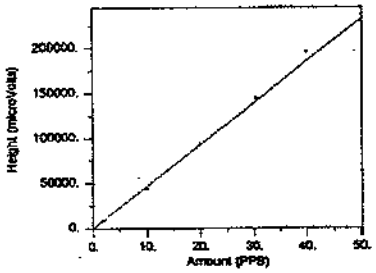


Calibration formula: Y = 5431.869 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9869, Average error = 5.97%
Average CF = 5431.8690 with RSD = 7.33%

USF63 1395

24 Endrin aldehyde
Retention time = 5.291 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

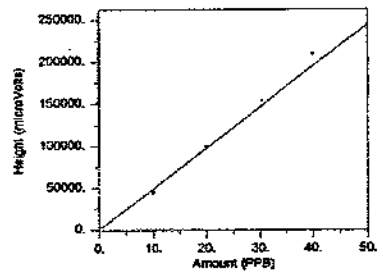
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	9016.6	4508.282	Manual	7/12/2011 7:55:0
2	10.010	43490.0	4344.659	Manual	7/12/2011 7:55:0
3	20.030	93449.4	4665.47	Manual	7/12/2011 7:55:0
4	30.440	144687.4	4753.2	Manual	7/12/2011 7:55:0
5	40.060	195768.4	4886.88	Manual	7/12/2011 7:55:0



Calibration formula: Y = 4631.698 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9944, Average error = 3.54%
Average CF = 4631.6980 with RSD = 4.56%

25 Endo. sulfate
Retention time = 5.458 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	9351.2	4675.604	Manual	7/12/2011 7:55:0
2	10.000	44524.0	4452.397	Manual	7/12/2011 7:55:0
3	20.000	99337.3	4966.866	Manual	7/12/2011 7:55:0
4	30.400	153831.3	5060.24	Manual	7/12/2011 7:55:0
5	40.000	209964.5	5249.112	Manual	7/12/2011 7:55:0

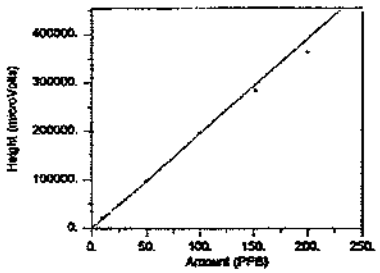


Calibration formula: Y = 4880.844 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9898, Average error = 5.19%
Average CF = 4880.8440 with RSD = 6.49%

USF03 1386

26 Methoxychlor
Retention time = 5.647 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

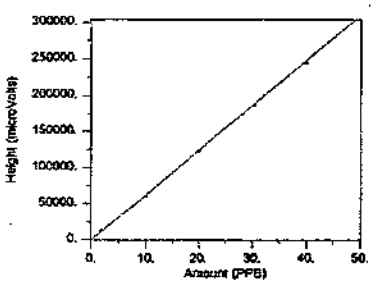
Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	21486.6	2148.664	Manual	7/12/2011 7:55:0
2	50.000	98566.3	1971.325	Manual	7/12/2011 7:55:0
3	100.000	196429.7	1964.297	Manual	7/12/2011 7:55:0
4	152.000	283994.7	1868.386	Manual	7/12/2011 7:55:0
5	200.000	382826.2	1814.131	Manual	7/12/2011 7:55:0



Calibration formula: Y = 1953.361 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9874, Average error = 4.59%
Average CF = 1953.3610 with RSD = 6.54%

27 Endrin ketone
Retention time = 5.855 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	13348.8	6674.405	Manual	7/12/2011 7:55:0
2	10.010	60098.0	6003.798	Manual	7/12/2011 7:55:0
3	20.010	121577.6	6075.842	Manual	7/12/2011 7:55:0
4	30.420	184786.9	6074.52	Manual	7/12/2011 7:55:0
5	40.020	243134.5	6075.325	Manual	7/12/2011 7:55:0



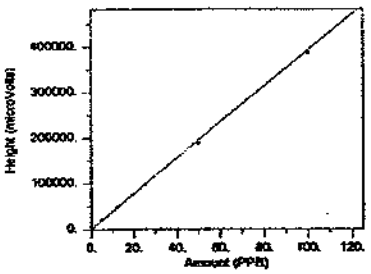
Calibration formula: Y = 6180.778 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9989, Average error = 3.19%

USP83 1387

Average CF = 6180.7780 with RSD = 4.49%

28 Mirex
Retention time = 5.996 min., Search window = 0.026 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

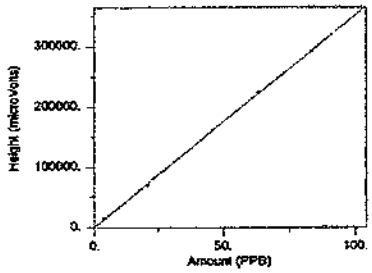
Level	Amount	Height	Height/Amt	Source	Date and time
1	5.000	20599.0	4119.8	Manual	7/12/2011 7:55:0
2	12.500	50380.0	4030.4	Manual	7/12/2011 7:55:0
3	25.000	96912.0	3876.48	Manual	7/12/2011 7:55:0
4	50.000	188474.0	3769.48	Manual	7/12/2011 7:55:0
5	100.000	386679.0	3866.79	Manual	7/12/2011 7:55:0



Calibration formula: Y = 3932.59 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9987, Average error = 2.90%
Average CF = 3932.5900 with RSD = 3.57%

29 DCB
Retention time = 6.633 min., Search window = 0.021 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.170	15487.1	3713.926	Manual	7/12/2011 7:55:0
2	20.850	69298.7	3323.677	Manual	7/12/2011 7:55:0
3	41.700	145259.4	3483.439	Manual	7/12/2011 7:55:0
4	63.380	224032.3	3534.748	Manual	7/12/2011 7:55:0
5	83.400	291823.0	3499.077	Manual	7/12/2011 7:55:0



USF03 1388

Calibration formula: Y = 3510.973 X
Fit type = Avg CF with equal weighting, forced to origin

Coefficient of determination = 0.9996, Average error = 2.58%
Average CF = 3510.9730 with RSD = 3.97%

USF83 1389

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Calibration File: 1P10200

GC Column (1) : RTX-CLP ID: 0.32 (mm) Update File: 1P10200.11R

Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Tetrachloro-m-xylene	2.62	2.62	2.62	2.62	2.62	2.62	2.60	2.64
Hcb	2.90	2.90	2.90	2.90	2.90	2.90	2.88	2.92
alpha-BHC	3.02	3.02	3.02	3.03	3.03	3.02	3.00	3.04
gamma-BHC (Lindane)	3.27	3.27	3.27	3.27	3.27	3.27	3.25	3.29
beta-BHC	3.33	3.33	3.33	3.34	3.34	3.33	3.31	3.35
delta-BHC	3.48	3.48	3.48	3.49	3.49	3.48	3.46	3.50
Heptachlor	3.66	3.66	3.66	3.66	3.66	3.66	3.64	3.68
Aldrin	3.92	3.92	3.93	3.93	3.93	3.93	3.91	3.95
Telodrin	4.12	4.12	4.12	4.11	4.12	4.12	4.10	4.14
o,p-DDE	4.44	4.44	4.44	4.44	4.44	4.44	4.42	4.46
Heptachlor epoxide	4.45	4.45	4.45	4.45	4.45	4.45	4.43	4.47
gamma-Chlordane	4.55	4.55	4.55	4.55	4.56	4.55	4.52	4.58
alpha-Chlordane	4.66	4.66	4.66	4.66	4.66	4.66	4.64	4.68
4,4'-DDE	4.71	4.71	4.71	4.71	4.71	4.71	4.69	4.73
Endosulfan I	4.77	4.77	4.77	4.77	4.77	4.77	4.75	4.79
o,p-DDD	4.85	4.85	4.85	4.85	4.85	4.85	4.83	4.87
Dieldrin	4.95	4.95	4.95	4.96	4.96	4.95	4.93	4.97
o,p-DDT	5.05	5.05	5.05	5.05	5.05	5.05	5.03	5.07
Endrin	5.13	5.13	5.13	5.14	5.14	5.13	5.11	5.15
4,4'-DDD	5.17	5.17	5.17	5.17	5.17	5.17	5.15	5.19
Kepone	5.17	5.17	5.17	5.17	5.17	5.17	5.15	5.19
Endosulfan II	5.30	5.30	5.30	5.30	5.30	5.30	5.28	5.32
4,4'-DDT	5.37	5.37	5.37	5.38	5.38	5.37	5.35	5.39
Endrin aldehyde	5.60	5.60	5.60	5.60	5.60	5.60	5.56	5.62
Methoxychlor	5.71	5.71	5.71	5.71	5.72	5.71	5.69	5.73
Mirex	5.84	5.84	5.84	5.84	5.84	5.84	5.82	5.86
Endosulfan sulfate	5.90	5.90	5.90	5.90	5.90	5.90	5.88	5.92
Endrin ketone	6.10	6.10	6.10	6.10	6.10	6.10	6.08	6.12
Decachlorobiphenyl	6.73	6.73	6.73	6.74	6.74	6.73	6.71	6.75

7/19/11

USF03 1398

FORM VI-1

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Calibration File: 1P10200

GC Column (1) : RTX-CLP ID: 0.32 (mm) Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	6.61E+03	6.06E+03	6.67E+03	6.17E+03	6.40E+03	6.38E+03	4.1
Hcb	7.92E+03	7.20E+03	6.70E+03	6.67E+03	6.57E+03	7.01E+03	8.0
alpha-BHC	8.06E+03	7.55E+03	9.67E+03	8.57E+03	8.67E+03	8.50E+03	9.3
gamma-BHC (Lindane)	7.29E+03	7.54E+03	8.24E+03	7.58E+03	7.46E+03	7.62E+03	4.8
beta-BHC	3.86E+03	3.55E+03	3.75E+03	3.46E+03	3.50E+03	3.63E+03	4.7
delta-BHC	6.75E+03	7.01E+03	7.75E+03	7.20E+03	7.44E+03	7.23E+03	5.3
Heptachlor	6.79E+03	6.59E+03	7.18E+03	6.69E+03	6.78E+03	6.81E+03	3.3
Aldrin	6.36E+03	6.61E+03	7.19E+03	6.75E+03	6.90E+03	6.76E+03	4.6
Telodrin	5.23E+03	5.09E+03	4.83E+03	4.88E+03	5.08E+03	5.02E+03	3.3
o,p-DDE	3.81E+03	3.81E+03	3.75E+03	3.57E+03	3.69E+03	3.73E+03	2.6
Heptachlor epoxide	6.25E+03	6.04E+03	6.46E+03	6.23E+03	6.32E+03	6.26E+03	2.4
gamma-Chlordane	6.75E+03	6.25E+03	6.63E+03	6.31E+03	6.51E+03	6.49E+03	3.2
alpha-Chlordane	6.46E+03	6.06E+03	6.32E+03	6.03E+03	6.13E+03	6.20E+03	3.0
4,4'-DDE	5.69E+03	5.65E+03	6.02E+03	5.76E+03	5.89E+03	5.80E+03	2.6
Endosulfan I	5.93E+03	5.58E+03	6.00E+03	5.65E+03	5.67E+03	5.77E+03	3.2
o,p-DDD	3.57E+03	3.24E+03	3.10E+03	3.01E+03	3.22E+03	3.23E+03	6.6
Dieldrin	6.03E+03	6.09E+03	6.40E+03	6.34E+03	6.54E+03	6.28E+03	3.4
o,p-DDT	3.77E+03	3.45E+03	3.38E+03	3.32E+03	3.54E+03	3.49E+03	5.0
Endrin	5.11E+03	5.00E+03	5.29E+03	5.12E+03	5.37E+03	5.18E+03	2.9
4,4'-DDD	4.62E+03	4.49E+03	4.83E+03	4.72E+03	4.88E+03	4.71E+03	3.3
Kepone	1.27E+03	1.59E+03	1.47E+03	1.47E+03	1.64E+03	1.49E+03	9.5
Endosulfan II	3.12E+03	3.81E+03	4.01E+03	3.98E+03	4.05E+03	3.79E+03	10.3
4,4'-DDT	3.79E+03	3.94E+03	4.36E+03	4.28E+03	4.64E+03	4.20E+03	8.1
Endrin aldehyde	3.99E+03	3.87E+03	4.21E+03	4.06E+03	4.31E+03	4.09E+03	4.3
Methoxychlor	2.00E+03	1.91E+03	2.13E+03	2.08E+03	2.26E+03	2.08E+03	6.4
Mirex	3.75E+03	3.54E+03	3.50E+03	3.36E+03	3.78E+03	3.59E+03	4.9
Endosulfan sulfate	3.95E+03	3.91E+03	4.32E+03	4.18E+03	4.21E+03	4.11E+03	4.3
Endrin ketone	5.38E+03	5.09E+03	5.60E+03	5.43E+03	5.79E+03	5.46E+03	4.8
Decachlorobiphenyl	4.11E+03	3.54E+03	3.82E+03	3.74E+03	3.99E+03	3.84E+03	5.8

Average % RSD: 5

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Calibration File: 1P10200

GC Column (1): RTX-CLP ID: 0.32 (mm) Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	2.87	2.84	2.90	90	90	1	200	17947	
	2	3.13	3.10	3.16	179	179	1	200	35779	
	3	3.29	3.26	3.32	103	103	1	200	20524	
	4	3.49	3.46	3.52	311	311	1	200	62167	
	5	3.60	3.57	3.63	155	155	1	200	30970	
	6	3.65	3.62	3.68	119	119	1	200	23739	
Aroclor-1221	1	2.73	2.70	2.76	59	59	1	200	11720	
	2	2.84	2.81	2.87	39	39	1	200	7862	
	3	2.87	2.84	2.90	139	139	1	200	27796	
Aroclor-1232	1	2.87	2.84	2.90	111	111	1	200	22244	
	2	3.13	3.10	3.16	84	84	1	200	16831	
	3	3.29	3.26	3.32	47	47	1	200	9361	
	4	3.49	3.46	3.52	143	143	1	200	28581	
	5	3.60	3.57	3.63	73	73	1	200	14538	
	6	3.66	3.63	3.69	54	54	1	200	10778	
Aroclor-1242	1	2.87	2.84	2.90	64	64	1	200	12745	
	2	3.13	3.10	3.16	129	129	1	200	25836	
	3	3.29	3.26	3.32	75	75	1	200	14981	
	4	3.49	3.46	3.52	235	235	1	200	46938	
	5	3.60	3.57	3.63	108	108	1	200	21551	
	6	3.65	3.62	3.68	84	84	1	200	16795	
Aroclor-1248	1	3.75	3.72	3.78	164	164	1	200	32807	
	2	3.95	3.92	3.98	192	192	1	200	38497	
	3	4.02	3.99	4.05	123	123	1	200	24687	
	4	4.80	4.77	4.83	109	109	1	200	21875	
	5	5.01	4.98	5.04	75	75	1	200	14912	
	6	5.22	5.19	5.25	66	66	1	200	13265	
Aroclor-1254	1	4.48	4.45	4.51	255	255	1	250	63823	
	2	4.71	4.68	4.74	190	190	1	250	47500	
	3	4.80	4.77	4.83	318	318	1	250	79512	
	4	5.01	4.98	5.04	216	216	1	250	53881	
	5	5.15	5.12	5.18	174	174	1	250	43622	
	6	5.36	5.33	5.39	260	260	1	250	65062	
Aroclor-1260	1	4.94	4.91	4.97	250	250	1	200	49923	
	2	5.15	5.12	5.18	320	320	1	200	63988	
	3	5.36	5.33	5.39	294	294	1	200	58876	
	4	5.61	5.58	5.64	226	226	1	200	45102	
	5	5.82	5.79	5.85	469	469	1	200	93883	
	6	6.02	5.99	6.05	233	233	1	200	46542	

USPB3 1392

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Calibration File: 1P10200

GC Column (1) : RTX-CLP ID: 0.32 (mm) Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Chlordane (Technical)	1	3.59	3.56	3.63	233	232	1	25.08	5837	5.7
					247		2	50.15	12401	
					232		3	100.3	23263	
					235		4	200.6	47233	
					211		5	501.5	105643	
	2	3.66	3.63	3.70	278	283	1	25.08	6978	4.9
					298		2	50.15	14922	
					286		3	100.3	28716	
					290		4	200.6	58156	
					261		5	501.5	130895	
	3	4.04	4.01	4.08	236	218	1	25.08	5929	9.4
					240		2	50.15	12013	
					214		3	100.3	21473	
					213		4	200.6	42774	
					189		5	501.5	94763	
	4	4.55	4.52	4.59	656	662	1	25.08	16451	.9
					669		2	50.15	33575	
					658		3	100.3	66038	
					668		4	200.6	133963	
					660		5	501.5	330754	
	5	4.65	4.62	4.69	715	755	1	25.08	17936	4.8
					725		2	50.15	36364	
					766		3	100.3	76839	
					762		4	200.6	152863	
					806		5	501.5	404145	
	6	5.25	5.22	5.29	197	175	1	25.08	4934	7.9
					180		2	50.15	9039	
					163		3	100.3	16387	
					167		4	200.6	33464	
					168		5	501.5	84063	

USF63 4393

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Calibration File: 1P10200

GC Column (1) : RTX-CLP ID: 0.32 (mm) Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Toxaphene	1	5.34	5.31	5.38	116	125	1	100	11637	5.2
					122		2	200	24460	
					124		3	500	61955	
					133		4	1000	133363	
					129		5	2000	257412	
	2	5.38	5.35	5.42	117	123	1	100	11656	3.7
					121		2	200	24273	
					122		3	500	60772	
					128		4	1000	128162	
					126		5	2000	252388	
	3	5.58	5.55	5.62	138	152	1	100	13779	6.3
					151		2	200	30209	
					150		3	500	75208	
					162		4	1000	162007	
					160		5	2000	320338	
	4	5.78	5.74	5.81	112	121	1	100	11181	5.2
					120		2	200	23932	
					120		3	500	59915	
					129		4	1000	128538	
					124		5	2000	248705	
	5	5.84	5.80	5.87	152	162	1	100	15249	4.8
					160		2	200	32008	
					157		3	500	78721	
					170		4	1000	169863	
					170		5	2000	339620	
	6	6.08	6.05	6.12	84	93	1	100	8425	6.3
					91		2	200	18295	
					92		3	500	46072	
					100		4	1000	100363	
					95		5	2000	189642	

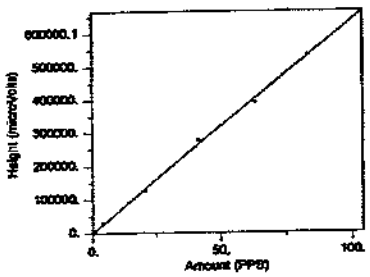
USF83 1394

Calibration File Name: **C:\CPWIN\DATA1\1P10200.CAL** Version = 14
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 50
Amount units = PPB
30 components with 5 levels each

1 TCX

Retention time = 2.618 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.166	27543.9	6611.592	Manual	7/19/2011 2:37:5
2	20.830	126268.2	6061.844	Manual	7/19/2011 2:37:5
3	41.660	277688.2	6665.583	Manual	7/19/2011 2:37:5
4	63.323	391014.6	6174.922	Manual	7/19/2011 2:37:5
5	83.320	533548.6	6403.608	Manual	7/19/2011 2:37:5

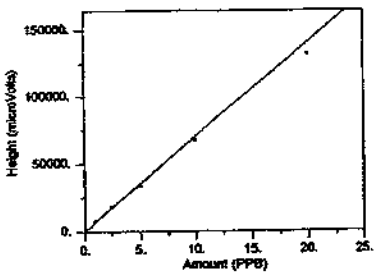


Calibration formula: Y = 6383.51 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9978, Average error = 3.32%
Average CF = 6383.5100 with RSD = 4.14%

2 HCB

Retention time = 2.900 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

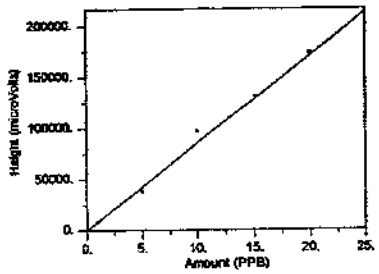
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7916.0	7916	Manual	7/19/2011 2:37:5
2	2.500	17991.0	7196.4	Manual	7/19/2011 2:37:5
3	5.000	33515.0	6703	Manual	7/19/2011 2:37:5
4	10.000	66713.0	6671.3	Manual	7/19/2011 2:37:5
5	20.000	131468.0	6573.4	Manual	7/19/2011 2:37:5



Calibration formula: Y = 7012.02 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9908, Average error = 6.21%
Average CF = 7012.0200 with RSD = 7.99%

3 alpha-BHC
Retention time = 3.023 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

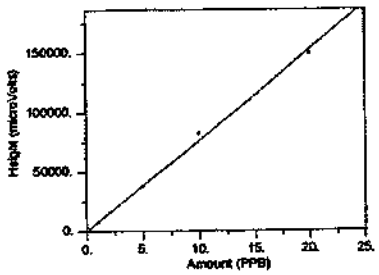
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	8064.9	8064.928	Manual	7/19/2011 2:37:5
2	5.000	37755.6	7551.11	Manual	7/19/2011 2:37:5
3	10.000	96663.9	9666.391	Manual	7/19/2011 2:37:5
4	15.200	130282.7	8571.23	Manual	7/19/2011 2:37:5
5	20.000	173350.4	8667.521	Manual	7/19/2011 2:37:5



Calibration formula: Y = 8504.236 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9906, Average error = 6.55%
Average CF = 8504.2360 with RSD = 9.26%

4 gamma-BHC
Retention time = 3.271 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

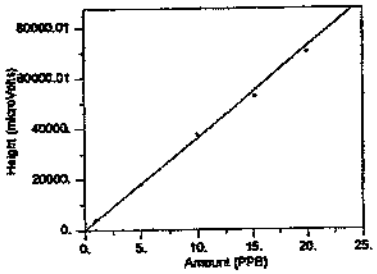
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7293.4	7293.389	Manual	7/19/2011 2:37:5
2	5.000	37688.4	7537.685	Manual	7/19/2011 2:37:5
3	10.000	82380.2	8238.022	Manual	7/19/2011 2:37:5
4	15.200	115276.3	7583.967	Manual	7/19/2011 2:37:5
5	20.000	149131.2	7456.56	Manual	7/19/2011 2:37:5



Calibration formula: Y = 7621.925 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9962, Average error = 3.23%
Average CF = 7621.9250 with RSD = 4.75%

5 beta-BHC
Retention time = 3.333 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3857.2	3857.178	Manual	7/19/2011 2:37:5
2	5.000	17771.5	3554.304	Manual	7/19/2011 2:37:5
3	10.000	37481.1	3748.112	Manual	7/19/2011 2:37:5
4	15.200	52651.8	3463.933	Manual	7/19/2011 2:37:5
5	20.000	70078.8	3503.94	Manual	7/19/2011 2:37:5



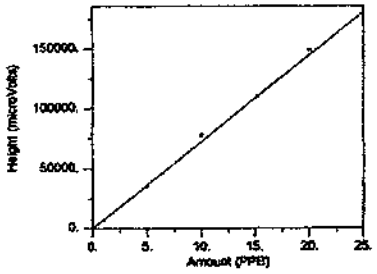
Calibration formula: Y = 3625.493 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9951, Average error = 3.91%
Average CF = 3625.4930 with RSD = 4.67%

6 delta-BHC
Retention time = 3.484 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6753.4	6753.377	Manual	7/19/2011 2:37:5
2	5.000	35065.1	7013.03	Manual	7/19/2011 2:37:5
3	10.000	77539.9	7753.992	Manual	7/19/2011 2:37:5
4	15.200	109424.3	7198.967	Manual	7/19/2011 2:37:5

USF93 1397

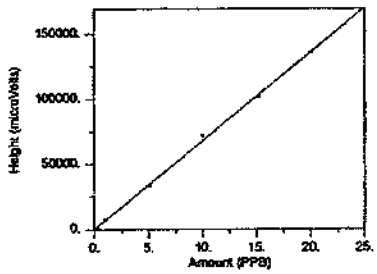
Level	Amount	Height	Height/Amt	Source	Date and time
5	20.000	148818.0	7440.9	Manual	7/19/2011 2:37:5



Calibration formula: Y = 7232.053 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9964, Average error = 4.04%
Average CF = 7232.0530 with RSD = 5.33%

7 Heptachlor
Retention time = 3.661 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6792.1	6792.133	Manual	7/19/2011 2:37:5
2	5.000	32939.4	6587.876	Manual	7/19/2011 2:37:5
3	10.000	71804.8	7180.484	Manual	7/19/2011 2:37:5
4	15.200	101662.5	6688.322	Manual	7/19/2011 2:37:5
5	20.000	135598.3	6779.915	Manual	7/19/2011 2:37:5



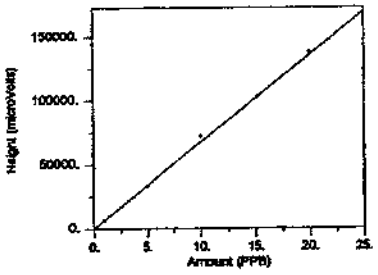
Calibration formula: Y = 6805.746 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9983, Average error = 2.20%
Average CF = 6805.7460 with RSD = 3.31%

8 Aldrin
Retention time = 3.925 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6361.7	6361.681	Manual	7/19/2011 2:37:5

USP83 1398

Level	Amount	Height	Height/Amt	Source	Date and time
2	5.000	33032.4	6606.486	Manual	7/19/2011 2:37:5
3	10.000	71858.7	7185.873	Manual	7/19/2011 2:37:5
4	15.200	102570.9	6748.085	Manual	7/19/2011 2:37:5
5	20.000	137933.0	6896.65	Manual	7/19/2011 2:37:5



Calibration formula: Y = 6759.755 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9976, Average error = 3.33%
Average CF = 6759.7550 with RSD = 4.57%

9 Alachlor
Retention time = 4.077 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

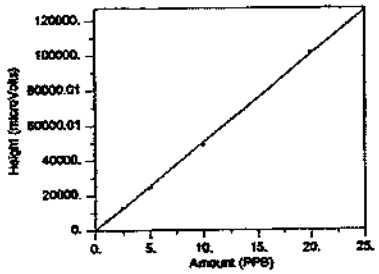
Level	Amount	Height	Height/Amt	Source	Date and time
1	3.980	0.0	0	Manual	7/19/2011 2:37:5
2	9.950	0.0	0	Manual	7/19/2011 2:37:5
3	19.900	0.0	0	Manual	7/19/2011 2:37:5
4	39.800	0.0	0	Manual	7/19/2011 2:37:5
5	79.600	0.0	0	Manual	7/19/2011 2:37:5

Calibration formula: No data points to graph
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 1.0000, Average error = 100.00%
Average CF = 0.0000 with RSD = 0.00%

10 Telodrin
Retention time = 4.116 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USF03 1399

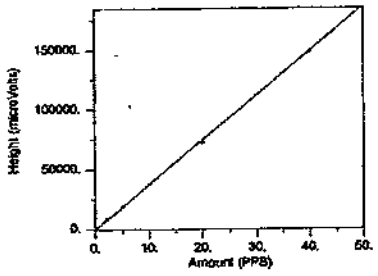
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	5234.0	5234	Manual	7/19/2011 2:37:5
2	2.500	12729.0	5091.6	Manual	7/19/2011 2:37:5
3	5.000	24170.0	4834	Manual	7/19/2011 2:37:5
4	10.000	48770.0	4877	Manual	7/19/2011 2:37:5
5	20.000	101567.0	5078.35	Manual	7/19/2011 2:37:5



Calibration formula: Y = 5022.99 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9993, Average error = 2.67%
Average CF = 5022.9900 with RSD = 3.29%

11 o,p-DDE
Retention time = 4.437 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	7613.0	3806.5	Manual	7/19/2011 2:37:5
2	5.000	19037.0	3807.4	Manual	7/19/2011 2:37:5
3	10.000	37455.0	3745.5	Manual	7/19/2011 2:37:5
4	20.000	71467.0	3573.35	Manual	7/19/2011 2:37:5
5	40.000	147714.0	3692.85	Manual	7/19/2011 2:37:5

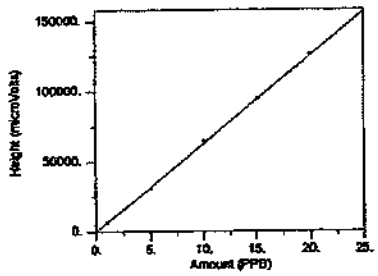


Calibration formula: Y = 3725.12 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9991, Average error = 1.98%
Average CF = 3725.1200 with RSD = 2.61%

12 Hept. epoxide
Retention time = 4.447 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USFWS 1498

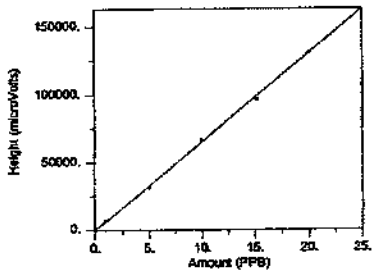
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6249.5	6249.494	Manual	7/19/2011 2:37:5
2	5.000	30221.0	6044.198	Manual	7/19/2011 2:37:5
3	10.000	64568.7	6456.871	Manual	7/19/2011 2:37:5
4	15.200	94654.1	6227.242	Manual	7/19/2011 2:37:5
5	20.000	126406.6	6320.33	Manual	7/19/2011 2:37:5



Calibration formula: Y = 6259.627 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9993, Average error = 1.65%
Average CF = 6259.6270 with RSD = 2.40%

13 g. Chlordane
Retention time = 4.553 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6753.8	6753.81	Manual	7/19/2011 2:37:5
2	5.000	31266.0	6253.208	Manual	7/19/2011 2:37:5
3	10.000	66262.0	6626.199	Manual	7/19/2011 2:37:5
4	15.200	95929.8	6311.169	Manual	7/19/2011 2:37:5
5	20.000	130139.1	6506.955	Manual	7/19/2011 2:37:5



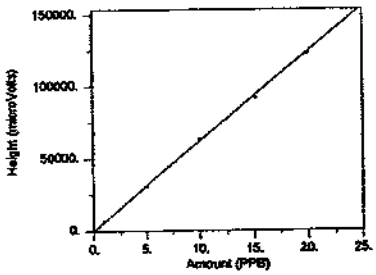
Calibration formula: Y = 6490.269 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9989, Average error = 2.56%
Average CF = 6490.2690 with RSD = 3.24%

14 a. Chlordane
Retention time = 4.658 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component

USF03 1461

Single peak quantification by height

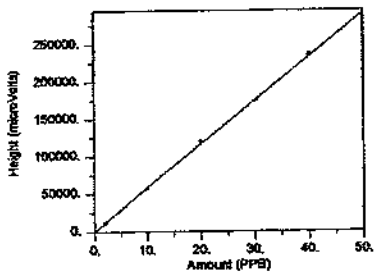
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6464.6	6464.565	Manual	7/19/2011 2:37:5
2	5.002	30293.8	6056.348	Manual	7/19/2011 2:37:5
3	10.004	63235.1	6320.984	Manual	7/19/2011 2:37:5
4	15.206	91711.1	6031.242	Manual	7/19/2011 2:37:5
5	20.008	122748.4	6134.966	Manual	7/19/2011 2:37:5



Calibration formula: Y = 6201.621 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9988, Average error = 2.47%
Average CF = 6201.6210 with RSD = 2.99%

15 4,4'-DDE
Retention time = 4.710 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	11385.0	5692.495	Manual	7/19/2011 2:37:5
2	10.000	56469.9	5646.993	Manual	7/19/2011 2:37:5
3	20.000	120352.5	6017.625	Manual	7/19/2011 2:37:5
4	30.400	175122.9	5760.622	Manual	7/19/2011 2:37:5
5	40.000	235796.4	5894.91	Manual	7/19/2011 2:37:5



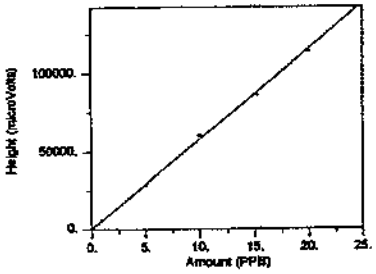
Calibration formula: Y = 5802.529 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9989, Average error = 2.12%
Average CF = 5802.5290 with RSD = 2.63%

16 Endosulfan I
Retention time = 4.771 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0

USF03 1402

No retention time reference component
Single peak quantification by height

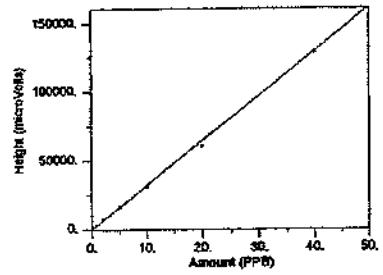
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	5935.0	5934.962	Manual	7/19/2011 2:37:5
2	5.000	27907.3	5581.45	Manual	7/19/2011 2:37:5
3	10.000	59979.6	5997.96	Manual	7/19/2011 2:37:5
4	15.200	85883.9	5650.256	Manual	7/19/2011 2:37:5
5	20.000	113488.5	5674.425	Manual	7/19/2011 2:37:5



Calibration formula: Y = 5767.811 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9983, Average error = 2.76%
Average CF = 5767.8110 with RSD = 3.22%

17 o,p-DDD
Retention time = 4.852 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	7146.0	3573	Manual	7/19/2011 2:37:5
2	5.000	16224.0	3244.8	Manual	7/19/2011 2:37:5
3	10.000	31048.0	3104.8	Manual	7/19/2011 2:37:5
4	20.000	60270.0	3013.5	Manual	7/19/2011 2:37:5
5	40.000	128692.0	3217.3	Manual	7/19/2011 2:37:5



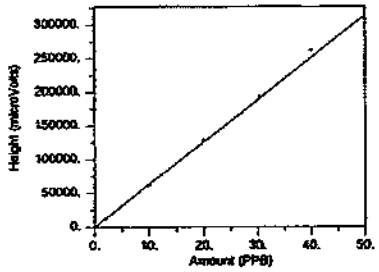
Calibration formula: Y = 3230.68 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9978, Average error = 4.41%
Average CF = 3230.6800 with RSD = 6.58%

18 Dieldrin
Retention time = 4.954 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2

USF03 1483

Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

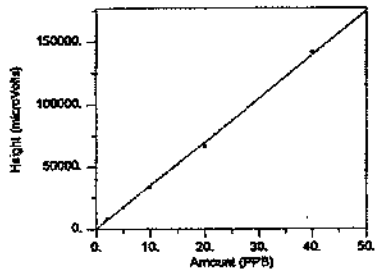
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	12057.2	6028.605	Manual	7/19/2011 2:37:5
2	10.000	60866.4	6086.639	Manual	7/19/2011 2:37:5
3	20.000	127959.6	6397.98	Manual	7/19/2011 2:37:5
4	30.400	192589.9	6335.194	Manual	7/19/2011 2:37:5
5	40.000	261490.0	6537.25	Manual	7/19/2011 2:37:5



Calibration formula: Y = 6277.134 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9970, Average error = 2.80%
Average CF = 6277.1340 with RSD = 3.41%

19 o,p-DDT
Retention time = 5.046 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	7533.0	3766.5	Manual	7/19/2011 2:37:5
2	5.000	17258.0	3451.6	Manual	7/19/2011 2:37:5
3	10.000	33803.0	3380.3	Manual	7/19/2011 2:37:5
4	20.000	66427.0	3321.35	Manual	7/19/2011 2:37:5
5	40.000	141646.0	3541.15	Manual	7/19/2011 2:37:5



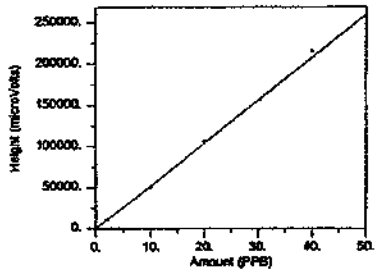
Calibration formula: Y = 3492.18 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9985, Average error = 3.70%
Average CF = 3492.1800 with RSD = 4.98%

20 Endrin
Retention time = 5.133 min., Search window = 0.020 min.

USFWS 4464

Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

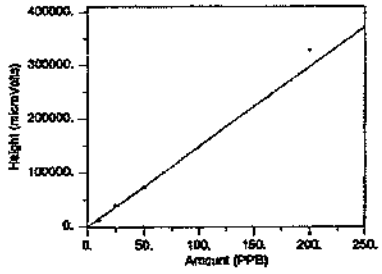
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	10213.6	5106.785	Manual	7/19/2011 2:37:5
2	10.003	49985.4	4997.044	Manual	7/19/2011 2:37:5
3	20.006	105923.7	5294.597	Manual	7/19/2011 2:37:5
4	30.410	155735.7	5121.2	Manual	7/19/2011 2:37:5
5	40.013	214907.5	5370.942	Manual	7/19/2011 2:37:5



Calibration formula: Y = 5178.114 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9973, Average error = 2.39%
Average CF = 5178.1140 with RSD = 2.93%

21 Kepone
Retention time = 5.167 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	12743.0	1274.3	Manual	7/19/2011 2:37:5
2	25.000	39632.0	1585.28	Manual	7/19/2011 2:37:5
3	50.000	73466.0	1469.32	Manual	7/19/2011 2:37:5
4	100.000	146991.0	1469.91	Manual	7/19/2011 2:37:5
5	200.000	328636.0	1643.18	Manual	7/19/2011 2:37:5



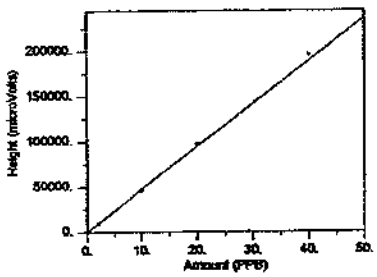
Calibration formula: Y = 1488.398 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9849, Average error = 6.76%
Average CF = 1488.3980 with RSD = 9.49%

USF03 1485

22 4,4'-DDD

Retention time = 5.169 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

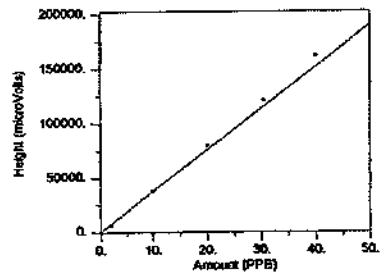
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	9234.1	4617.033	Manual	7/19/2011 2:37:5
2	10.003	44947.9	4493.442	Manual	7/19/2011 2:37:5
3	20.006	96560.1	4826.559	Manual	7/19/2011 2:37:5
4	30.410	143427.9	4716.472	Manual	7/19/2011 2:37:5
5	40.013	195392.8	4883.233	Manual	7/19/2011 2:37:5



Calibration formula: Y = 4707.348 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9973, Average error = 2.59%
Average CF = 4707.3480 with RSD = 3.34%

23 Endosulfan II
Retention time = 5.301 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	6234.9	3117.454	Manual	7/19/2011 2:37:5
2	10.000	38060.3	3806.03	Manual	7/19/2011 2:37:5
3	20.000	80213.0	4010.652	Manual	7/19/2011 2:37:5
4	30.400	120939.5	3978.273	Manual	7/19/2011 2:37:5
5	40.000	162021.1	4050.527	Manual	7/19/2011 2:37:5

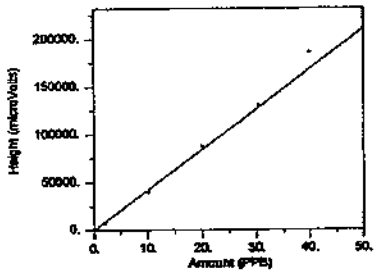


Calibration formula: Y = 3792.587 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9898, Average error = 7.12%
Average CF = 3792.5870 with RSD = 10.25%

USF03 1486

24 4,4'-DDT
Retention time = 5.373 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

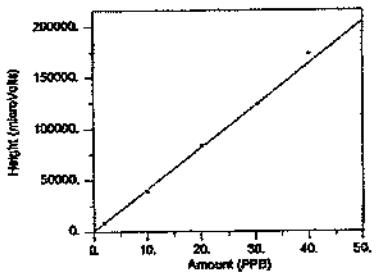
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.003	7592.8	3790.724	Manual	7/19/2011 2:37:5
2	10.014	39405.9	3935.077	Manual	7/19/2011 2:37:5
3	20.029	87402.4	4363.79	Manual	7/19/2011 2:37:5
4	30.444	130304.5	4280.137	Manual	7/19/2011 2:37:5
5	40.058	185790.3	4638.032	Manual	7/19/2011 2:37:5



Calibration formula: Y = 4201.552 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9836, Average error = 6.45%
Average CF = 4201.5520 with RSD = 8.10%

25 Endrin aldehyde
Retention time = 5.600 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.003	7992.8	3990.394	Manual	7/19/2011 2:37:5
2	10.014	38777.4	3872.318	Manual	7/19/2011 2:37:5
3	20.029	84344.9	4211.139	Manual	7/19/2011 2:37:5
4	30.444	123470.2	4055.65	Manual	7/19/2011 2:37:5
5	40.058	172826.7	4314.412	Manual	7/19/2011 2:37:5

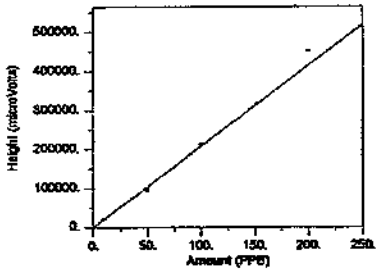


Calibration formula: Y = 4088.782 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9946, Average error = 3.40%
Average CF = 4088.7830 with RSD = 4.30%

USF03 1487

26 Methoxychlor
Retention time = 5.711 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

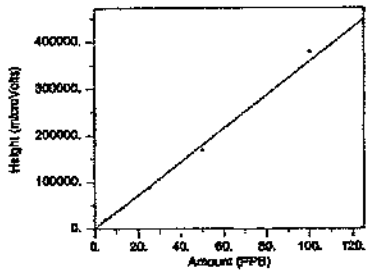
Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	19978.5	1997.851	Manual	7/19/2011 2:37:5
2	50.000	95382.2	1907.644	Manual	7/19/2011 2:37:5
3	100.000	212887.9	2128.879	Manual	7/19/2011 2:37:5
4	152.000	316735.5	2083.786	Manual	7/19/2011 2:37:5
5	200.000	451641.3	2258.207	Manual	7/19/2011 2:37:5



Calibration formula: Y = 2075.273 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9879, Average error = 4.72%
Average CF = 2075.2730 with RSD = 6.40%

27 Mirex
Retention time = 5.836 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	5.000	18769.0	3753.8	Manual	7/19/2011 2:37:5
2	12.500	44239.0	3539.12	Manual	7/19/2011 2:37:5
3	25.000	87519.0	3500.76	Manual	7/19/2011 2:37:5
4	50.000	168114.0	3362.28	Manual	7/19/2011 2:37:5
5	100.000	377873.0	3778.73	Manual	7/19/2011 2:37:5



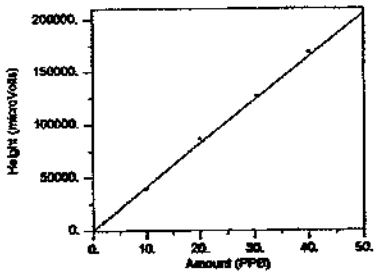
Calibration formula: Y = 3586.938 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9941, Average error = 4.00%

USF83 1488

Average CF = 3586.9380 with RSD = 4.92%

28 Endo. sulfate
Retention time = 5.902 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

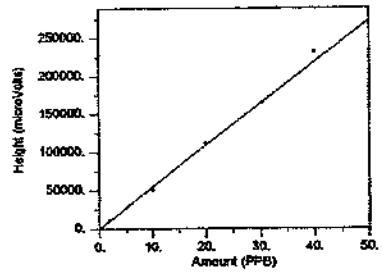
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	7892.6	3946.305	Manual	7/19/2011 2:37:5
2	10.000	39096.6	3909.661	Manual	7/19/2011 2:37:5
3	20.000	86373.2	4318.66	Manual	7/19/2011 2:37:5
4	30.400	127090.6	4180.612	Manual	7/19/2011 2:37:5
5	40.000	168484.4	4212.11	Manual	7/19/2011 2:37:5



Calibration formula: Y = 4113.47 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9976, Average error = 3.61%
Average CF = 4113.4700 with RSD = 4.31%

29 Endrin ketone
Retention time = 6.097 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.001	10756.2	5375.428	Manual	7/19/2011 2:37:5
2	10.005	50930.8	5090.537	Manual	7/19/2011 2:37:5
3	20.010	112139.4	5604.168	Manual	7/19/2011 2:37:5
4	30.415	165102.5	5428.325	Manual	7/19/2011 2:37:5
5	40.020	231594.6	5786.971	Manual	7/19/2011 2:37:5



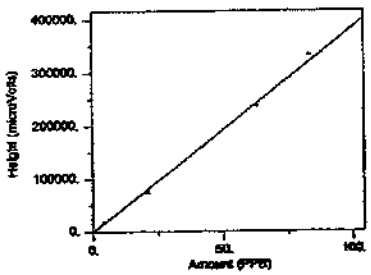
Calibration formula: Y = 5457.085 X
Fit type = Avg CF with equal weighting, forced to origin

USF83 1489

Coefficient of determination = 0.9937, Average error = 3.50%
Average CF = 5457.0850 with RSD = 4.78%

30 DCB
Retention time = 6.731 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.170	17159.4	4114.962	Manual	7/19/2011 2:37:5
2	20.850	73909.7	3544.828	Manual	7/19/2011 2:37:5
3	41.700	159272.5	3819.484	Manual	7/19/2011 2:37:5
4	63.384	236969.4	3738.631	Manual	7/19/2011 2:37:5
5	83.400	332971.9	3992.469	Manual	7/19/2011 2:37:5



Calibration formula: Y = 3842.075 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9962, Average error = 4.41%
Average CF = 3842.0750 with RSD = 5.77%

USF03 1418

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Calibration File: 1P10200B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Update File: 1P10200B.11R

Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Tetrachloro-m-xylene	2.56	2.56	2.56	2.56	2.56	2.56	2.54	2.58
Hcb	2.89	2.89	2.89	2.89	2.89	2.89	2.87	2.91
alpha-BHC	2.99	2.99	2.99	2.99	2.99	2.99	2.97	3.01
gamma-BHC (Lindane)	3.26	3.26	3.26	3.26	3.26	3.26	3.24	3.28
beta-BHC	3.32	3.32	3.32	3.32	3.32	3.32	3.30	3.34
delta-BHC	3.56	3.56	3.57	3.57	3.57	3.57	3.55	3.59
Heptachlor	3.62	3.62	3.62	3.62	3.63	3.62	3.60	3.64
Aldrin	3.90	3.90	3.91	3.91	3.91	3.91	3.89	3.93
Telodrin	4.05	4.05	4.05	4.05	4.05	4.05	4.03	4.07
Heptachlor epoxide	4.40	4.40	4.40	4.40	4.40	4.40	4.38	4.42
gamma-Chlordane	4.56	4.56	4.56	4.56	4.56	4.56	4.53	4.59
o,p-DDE	4.56	4.56	4.56	4.56	4.56	4.56	4.54	4.58
alpha-Chlordane	4.67	4.67	4.67	4.67	4.67	4.67	4.65	4.69
Endosulfan I	4.72	4.72	4.72	4.72	4.72	4.72	4.70	4.74
4,4'-DDE	4.80	4.80	4.80	4.80	4.80	4.80	4.78	4.82
Dieldrin	4.93	4.93	4.93	4.93	4.93	4.93	4.91	4.95
o,p-DDD	4.96	4.96	4.96	4.96	4.96	4.96	4.94	4.98
Endrin	5.16	5.16	5.16	5.16	5.16	5.16	5.14	5.18
o,p-DDT	5.19	5.19	5.19	5.19	5.19	5.19	5.17	5.21
4,4'-DDD	5.24	5.24	5.24	5.24	5.24	5.24	5.22	5.26
Kepone	5.25	5.25	5.25	5.25	5.25	5.25	5.23	5.27
Endosulfan II	5.32	5.32	5.32	5.32	5.32	5.32	5.30	5.34
4,4'-DDT	5.46	5.46	5.46	5.47	5.47	5.46	5.44	5.48
Endrin aldehyde	5.56	5.56	5.56	5.56	5.56	5.56	5.54	5.58
Endosulfan sulfate	5.75	5.75	5.75	5.75	5.75	5.75	5.73	5.77
Methoxychlor	5.94	5.94	5.94	5.94	5.94	5.94	5.92	5.96
Mirex	6.09	6.09	6.09	6.09	6.09	6.09	6.07	6.11
Endrin ketone	6.12	6.12	6.12	6.12	6.12	6.12	6.10	6.14
Decachlorobiphenyl	6.89	6.89	6.90	6.90	6.90	6.90	6.88	6.92

7/19/11

USF83 1411

FORM VI-1

6E
INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Calibration File: 1P10200B

GC Column (2): RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	2.21E+03	2.20E+03	2.46E+03	2.24E+03	2.41E+03	2.31E+03	5.3
Hcb	3.46E+03	3.11E+03	3.00E+03	3.06E+03	3.08E+03	3.14E+03	5.8
alpha-BHC	4.36E+03	4.53E+03	5.23E+03	5.00E+03	5.28E+03	4.88E+03	8.5
gamma-BHC (Lindane)	4.16E+03	4.23E+03	4.82E+03	4.65E+03	4.93E+03	4.56E+03	7.7
beta-BHC	1.96E+03	1.80E+03	1.92E+03	1.84E+03	1.97E+03	1.90E+03	3.9
delta-BHC	3.96E+03	3.92E+03	4.55E+03	4.43E+03	4.79E+03	4.33E+03	8.8
Heptachlor	3.56E+03	3.37E+03	3.80E+03	3.75E+03	3.93E+03	3.68E+03	6.0
Aldrin	3.26E+03	3.06E+03	3.50E+03	3.37E+03	3.62E+03	3.36E+03	6.4
Telodrin	2.75E+03	2.54E+03	2.49E+03	2.37E+03	2.52E+03	2.54E+03	5.5
Heptachlor epoxide	3.17E+03	2.64E+03	2.84E+03	2.82E+03	2.76E+03	2.85E+03	6.9
gamma-Chlordane	3.33E+03	2.84E+03	3.08E+03	3.03E+03	3.21E+03	3.10E+03	6.0
o,p-DDE	2.15E+03	1.94E+03	1.94E+03	1.83E+03	1.95E+03	1.96E+03	5.9
alpha-Chlordane	3.34E+03	2.87E+03	3.10E+03	3.05E+03	3.28E+03	3.13E+03	5.9
Endosulfan I	3.04E+03	2.60E+03	2.80E+03	2.73E+03	2.87E+03	2.81E+03	5.8
4,4'-DDE	2.85E+03	2.62E+03	2.92E+03	2.98E+03	3.11E+03	2.89E+03	6.2
Dieldrin	3.19E+03	2.87E+03	3.19E+03	3.18E+03	3.32E+03	3.15E+03	5.3
o,p-DDD	1.83E+03	1.76E+03	1.66E+03	1.59E+03	1.67E+03	1.70E+03	5.6
Endrin	2.88E+03	2.37E+03	2.49E+03	2.46E+03	2.61E+03	2.56E+03	7.7
o,p-DDT	2.12E+03	1.82E+03	1.72E+03	1.65E+03	1.70E+03	1.80E+03	10.4
4,4'-DDD	2.39E+03	2.04E+03	2.22E+03	2.19E+03	2.32E+03	2.23E+03	5.9
Kepone	5.95E+02	7.69E+02	7.42E+02	7.72E+02	8.05E+02	7.36E+02	11.2
Endosulfan II	2.37E+03	2.07E+03	2.31E+03	2.17E+03	2.25E+03	2.23E+03	5.3
4,4'-DDT	1.81E+03	1.69E+03	1.85E+03	1.84E+03	1.98E+03	1.83E+03	5.6
Endrin aldehyde	1.92E+03	1.65E+03	1.75E+03	1.67E+03	1.79E+03	1.75E+03	6.1
Endosulfan sulfate	1.88E+03	1.60E+03	1.72E+03	1.67E+03	1.78E+03	1.73E+03	6.1
Methoxychlor	7.70E+02	6.70E+02	7.07E+02	6.75E+02	7.16E+02	7.08E+02	5.7
Mirex	1.35E+03	1.20E+03	1.20E+03	1.13E+03	1.20E+03	1.22E+03	6.8
Endrin ketone	2.14E+03	1.84E+03	1.97E+03	1.91E+03	2.04E+03	1.98E+03	5.9
Decachlorobiphenyl	1.11E+03	9.08E+02	9.83E+02	9.48E+02	1.01E+03	9.92E+02	7.9

Average % RSD: 6.6

USF03 1412

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Calibration File: 1P10200B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	2.89	2.86	2.92	42	42	1	200	8335	
	2	3.18	3.15	3.21	72	72	1	200	14334	
	3	3.37	3.34	3.40	42	42	1	200	8348	
	4	3.53	3.50	3.56	147	147	1	200	29328	
	5	3.64	3.61	3.67	77	77	1	200	15481	
	6	3.73	3.70	3.76	55	55	1	200	10974	
Aroclor-1221	1	2.75	2.72	2.78	22	22	1	200	4483	
	2	2.84	2.81	2.87	15	15	1	200	2914	
	3	2.89	2.86	2.92	51	51	1	200	10293	
Aroclor-1232	1	2.89	2.86	2.92	51	51	1	200	10100	
	2	3.18	3.15	3.21	33	33	1	200	6645	
	3	3.37	3.34	3.40	19	19	1	200	3884	
	4	3.53	3.50	3.56	64	64	1	200	12769	
	5	3.64	3.61	3.67	35	35	1	200	7047	
	6	3.73	3.70	3.76	25	25	1	200	5077	
Aroclor-1242	1	2.89	2.86	2.92	29	29	1	200	5784	
	2	3.18	3.15	3.21	51	51	1	200	10210	
	3	3.37	3.34	3.40	31	31	1	200	6117	
	4	3.53	3.50	3.56	110	110	1	200	21963	
	5	3.64	3.61	3.67	55	55	1	200	11054	
	6	3.73	3.70	3.76	39	39	1	200	7748	
Aroclor-1248	1	3.80	3.77	3.83	70	70	1	200	14054	
	2	4.04	4.01	4.07	90	90	1	200	18001	
	3	4.15	4.12	4.18	82	82	1	200	16454	
	4	4.91	4.88	4.94	53	53	1	200	10657	
	5	5.08	5.05	5.11	37	37	1	200	7401	
	6	5.34	5.31	5.37	34	34	1	200	6775	
Aroclor-1254	1	4.55	4.52	4.58	110	110	1	250	27616	
	2	4.82	4.79	4.85	84	84	1	250	21065	
	3	4.91	4.88	4.94	150	150	1	250	37474	
	4	5.08	5.05	5.11	105	105	1	250	26139	
	5	5.33	5.30	5.36	72	72	1	250	18033	
	6	5.47	5.44	5.50	103	103	1	250	25804	
Aroclor-1260	1	5.06	5.03	5.09	116	116	1	200	23290	
	2	5.21	5.18	5.24	132	132	1	200	26493	
	3	5.47	5.44	5.50	106	106	1	200	21212	
	4	5.74	5.71	5.77	83	83	1	200	16651	
	5	5.90	5.87	5.93	173	173	1	200	34613	
	6	6.15	6.12	6.18	91	91	1	200	18247	

USF03 1413

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Calibration File: 1P10200B

GC Column (2): RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Chlordane (Technical)	1	3.50	3.47	3.54	137	130	1	25.08	3429	4.2
					131		2	50.15	6545	
					130		3	100.3	13039	
					131		4	200.6	26368	
					121		5	501.5	60891	
	2	3.62	3.59	3.66	159	154	1	25.08	3976	3.3
					154		2	50.15	7700	
					156		3	100.3	15668	
					155		4	200.6	31099	
					145		5	501.5	72802	
	3	4.04	4.00	4.07	110	99	1	25.08	2754	9.7
					105		2	50.15	5265	
					99		3	100.3	9952	
					94		4	200.6	18920	
					85		5	501.5	42747	
	4	4.56	4.52	4.59	345	347	1	25.08	8654	1.5
					355		2	50.15	17798	
					351		3	100.3	35202	
					342		4	200.6	68663	
					344		5	501.5	172308	
	5	4.63	4.60	4.67	262	258	1	25.08	6570	2.2
					265		2	50.15	13281	
					256		3	100.3	25715	
					252		4	200.6	50538	
					253		5	501.5	127051	
	6	4.67	4.64	4.71	295	294	1	25.08	7387	2.0
					300		2	50.15	15061	
					299		3	100.3	30020	
					290		4	200.6	58080	
					287		5	501.5	143825	

USF03 1814

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Calibration File: 1P10200B

GC Column (2): RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/19/2011 7/19/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Toxaphene	1	5.12	5.09	5.16	39	39	1	100	3936	2.7
					40		2	200	7973	
					37		3	500	18746	
					40		4	1000	39885	
					38		5	2000	76730	
	2	5.38	5.34	5.41	80	81	1	100	7996	3.1
					81		2	200	16169	
					79		3	500	39272	
					85		4	1000	85139	
					80		5	2000	159595	
	3	5.56	5.53	5.60	80	82	1	100	8014	2.8
					82		2	200	16367	
					81		3	500	40332	
					85		4	1000	85442	
					80		5	2000	159733	
	4	5.74	5.71	5.78	39	38	1	100	3941	3.9
					39		2	200	7867	
					37		3	500	18380	
					39		4	1000	39147	
					36		5	2000	72964	
	5	5.92	5.88	5.95	56	55	1	100	5606	2.6
					55		2	200	11040	
					53		3	500	26718	
					56		4	1000	56350	
					53		5	2000	106525	
	6	5.96	5.92	5.99	63	64	1	100	6290	3.1
					64		2	200	12834	
					62		3	500	30755	
					67		4	1000	66784	
					63		5	2000	126926	

03763 1415

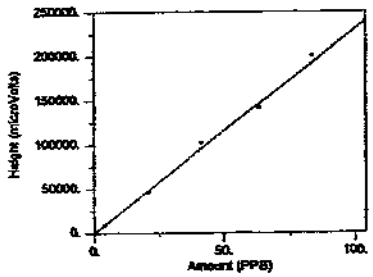
FORM VI-3

Calibration File Name: **C:\CPWIN\DATA1\1P10200B.CAL** Version = 14
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 50
Amount units = PPB
30 components with 5 levels each

1 TCX

Retention time = 2.558 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.166	9204.9	2209.524	Manual	7/19/2011 2:44:1
2	20.830	45879.7	2202.579	Manual	7/19/2011 2:44:1
3	41.660	102674.8	2464.589	Manual	7/19/2011 2:44:1
4	63.323	142098.8	2244.031	Manual	7/19/2011 2:44:1
5	83.320	200421.8	2405.447	Manual	7/19/2011 2:44:1



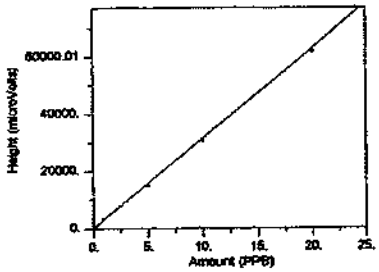
Calibration formula: Y = 2305.234 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9942, Average error = 4.50%
Average CF = 2305.2340 with RSD = 5.26%

2 HCB

Retention time = 2.888 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3456.0	3456	Manual	7/19/2011 2:44:1
2	2.500	7775.0	3110	Manual	7/19/2011 2:44:1
3	5.000	14993.0	2998.6	Manual	7/19/2011 2:44:1
4	10.000	30603.0	3060.3	Manual	7/19/2011 2:44:1
5	20.000	61551.0	3077.55	Manual	7/19/2011 2:44:1

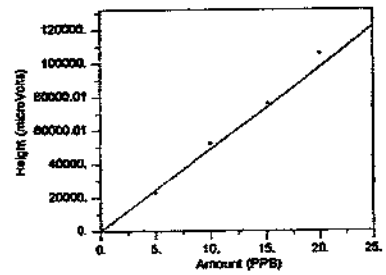
USF83 1416



Calibration formula: Y = 3140.49 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9987, Average error = 4.02%
Average CF = 3140.4900 with RSD = 5.76%

3 alpha-BHC
Retention time = 2.988 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	4356.6	4356.644	Manual	7/19/2011 2:44:1
2	5.000	22668.8	4533.762	Manual	7/19/2011 2:44:1
3	10.000	52265.4	5226.545	Manual	7/19/2011 2:44:1
4	15.200	76006.9	5000.451	Manual	7/19/2011 2:44:1
5	20.000	105644.5	5282.225	Manual	7/19/2011 2:44:1

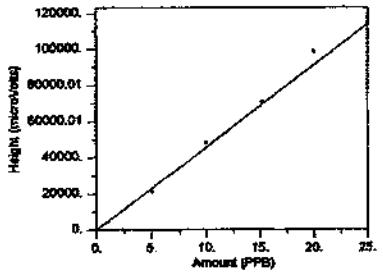


Calibration formula: Y = 4879.925 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9873, Average error = 7.13%
Average CF = 4879.9250 with RSD = 8.51%

4 gamma-BHC
Retention time = 3.263 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	4159.7	4159.69	Manual	7/19/2011 2:44:1
2	5.000	21135.9	4227.19	Manual	7/19/2011 2:44:1
3	10.000	48201.3	4820.126	Manual	7/19/2011 2:44:1
4	15.200	70728.2	4653.168	Manual	7/19/2011 2:44:1
5	20.000	98697.3	4934.865	Manual	7/19/2011 2:44:1

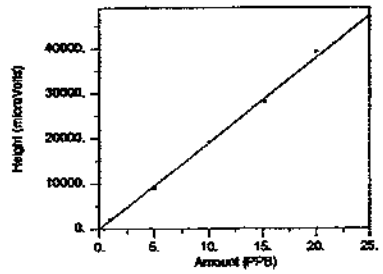
USF83 1417



Calibration formula: Y = 4559.008 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9881, Average error = 6.41%
Average CF = 4559.0080 with RSD = 7.66%

5 beta-BHC
Retention time = 3.323 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	1964.1	1964.05	Manual	7/19/2011 2:44:1
2	5.000	8984.6	1796.928	Manual	7/19/2011 2:44:1
3	10.000	19159.8	1915.983	Manual	7/19/2011 2:44:1
4	15.200	28027.0	1843.884	Manual	7/19/2011 2:44:1
5	20.000	39310.1	1965.506	Manual	7/19/2011 2:44:1



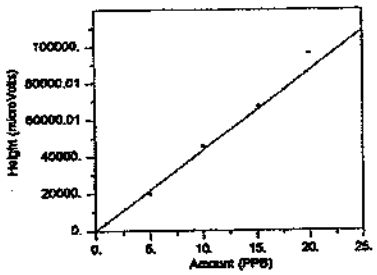
Calibration formula: Y = 1897.27 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9968, Average error = 3.24%
Average CF = 1897.2700 with RSD = 3.94%

6 delta-BHC
Retention time = 3.566 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3960.0	3960.037	Manual	7/19/2011 2:44:1
2	5.000	19575.1	3915.01	Manual	7/19/2011 2:44:1
3	10.000	45522.9	4552.291	Manual	7/19/2011 2:44:1
4	15.200	67408.2	4434.75	Manual	7/19/2011 2:44:1

USF03 1418

Level	Amount	Height	Height/Amt	Source	Date and time
5	20.000	95899.8	4794.991	Manual	7/19/2011 2:44:1

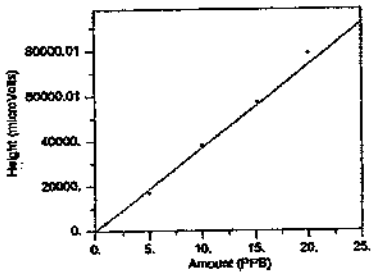


Calibration formula: Y = 4331.416 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9819, Average error = 7.28%
Average CF = 4331.4160 with RSD = 8.83%

7 Heptachlor

Retention time = 3.624 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3559.1	3559.09	Manual	7/19/2011 2:44:1
2	5.000	16837.5	3367.5	Manual	7/19/2011 2:44:1
3	10.000	37978.6	3797.855	Manual	7/19/2011 2:44:1
4	15.200	56989.8	3749.328	Manual	7/19/2011 2:44:1
5	20.000	78610.0	3930.498	Manual	7/19/2011 2:44:1



Calibration formula: Y = 3680.854 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9918, Average error = 4.73%
Average CF = 3680.8540 with RSD = 5.98%

8 Alachlor

Retention time = 3.684 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	3.980	0.0	0	Manual	7/19/2011 2:44:1

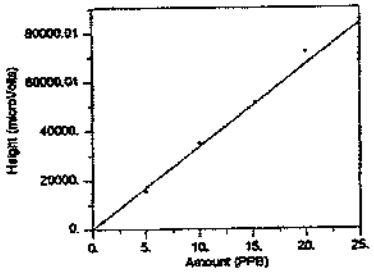
USF03 1419

Level	Amount	Height	Height/Amt	Source	Date and time
2	9.950	0.0	0	Manual	7/19/2011 2:44:1
3	19.900	0.0	0	Manual	7/19/2011 2:44:1
4	39.800	0.0	0	Manual	7/19/2011 2:44:1
5	79.600	0.0	0	Manual	7/19/2011 2:44:1

Calibration formula: No data points to graph
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 1.0000, Average error = 100.00%
Average CF = 0.0000 with RSD = 0.00%

9 Aldrin
Retention time = 3.905 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3261.0	3261.015	Manual	7/19/2011 2:44:1
2	5.000	15287.6	3057.522	Manual	7/19/2011 2:44:1
3	10.000	34979.3	3497.929	Manual	7/19/2011 2:44:1
4	15.200	51181.2	3367.183	Manual	7/19/2011 2:44:1
5	20.000	72354.5	3617.727	Manual	7/19/2011 2:44:1

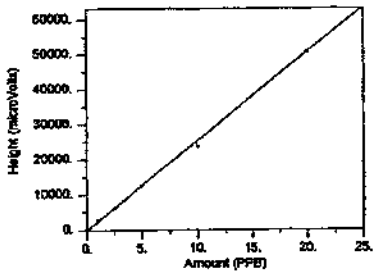


Calibration formula: Y = 3360.275 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9899, Average error = 4.79%
Average CF = 3360.2750 with RSD = 6.43%

10 Telodrin
Retention time = 4.049 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USPB3 1429

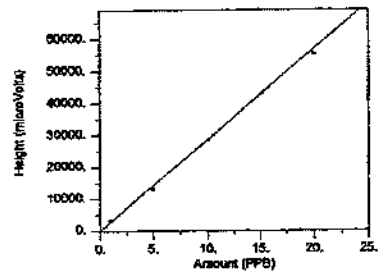
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	2753.0	2753	Manual	7/19/2011 2:44:1
2	2.500	6354.0	2541.6	Manual	7/19/2011 2:44:1
3	5.000	12452.0	2490.4	Manual	7/19/2011 2:44:1
4	10.000	23672.0	2367.2	Manual	7/19/2011 2:44:1
5	20.000	50478.0	2523.9	Manual	7/19/2011 2:44:1



Calibration formula: Y = 2535.22 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9980, Average error = 3.54%
Average CF = 2535.2200 with RSD = 5.50%

11 Hept. epoxide
Retention time = 4.400 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3166.1	3166.105	Manual	7/19/2011 2:44:1
2	5.000	13192.0	2638.406	Manual	7/19/2011 2:44:1
3	10.000	28402.8	2840.28	Manual	7/19/2011 2:44:1
4	15.200	42906.6	2822.802	Manual	7/19/2011 2:44:1
5	20.000	55193.8	2759.688	Manual	7/19/2011 2:44:1

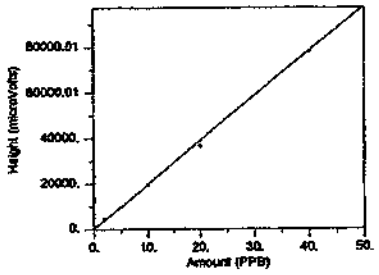


Calibration formula: Y = 2845.456 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9976, Average error = 4.51%
Average CF = 2845.4560 with RSD = 6.89%

12 o,p-DDE
Retention time = 4.557 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USF03 1421

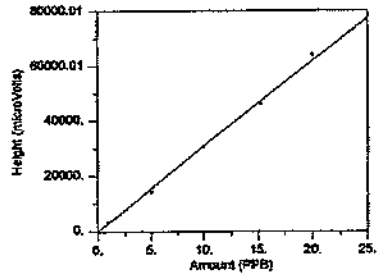
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4295.0	2147.5	Manual	7/19/2011 2:44:1
2	5.000	9701.0	1940.2	Manual	7/19/2011 2:44:1
3	10.000	19353.0	1935.3	Manual	7/19/2011 2:44:1
4	20.000	36544.0	1827.2	Manual	7/19/2011 2:44:1
5	40.000	77913.0	1947.825	Manual	7/19/2011 2:44:1



Calibration formula: Y = 1959.605 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9979, Average error = 3.84%
Average CF = 1959.6050 with RSD = 5.93%

13 g. Chlordane
Retention time = 4.557 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3326.1	3326.111	Manual	7/19/2011 2:44:1
2	5.000	14186.5	2837.294	Manual	7/19/2011 2:44:1
3	10.000	30794.3	3079.428	Manual	7/19/2011 2:44:1
4	15.200	46115.3	3033.902	Manual	7/19/2011 2:44:1
5	20.000	64173.8	3208.688	Manual	7/19/2011 2:44:1



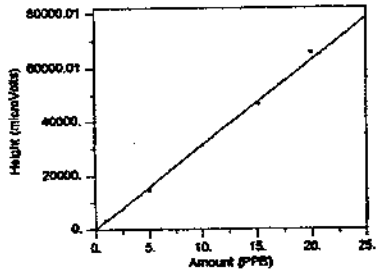
Calibration formula: Y = 3097.084 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9968, Average error = 4.40%
Average CF = 3097.0850 with RSD = 5.97%

14 a. Chlordane
Retention time = 4.674 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component

USF83 1422

Single peak quantification by height

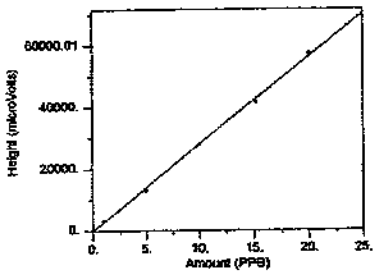
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3340.1	3340.074	Manual	7/19/2011 2:44:1
2	5.002	14375.6	2873.969	Manual	7/19/2011 2:44:1
3	10.004	31038.1	3102.567	Manual	7/19/2011 2:44:1
4	15.206	46405.4	3051.781	Manual	7/19/2011 2:44:1
5	20.008	65563.4	3276.861	Manual	7/19/2011 2:44:1



Calibration formula: Y = 3129.05 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9952, Average error = 4.59%
Average CF = 3129.0500 with RSD = 5.94%

15 Endosulfan I
Retention time = 4.721 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3042.0	3042.006	Manual	7/19/2011 2:44:1
2	5.000	13012.8	2602.556	Manual	7/19/2011 2:44:1
3	10.000	27985.2	2798.518	Manual	7/19/2011 2:44:1
4	15.200	41504.7	2730.57	Manual	7/19/2011 2:44:1
5	20.000	57353.9	2867.695	Manual	7/19/2011 2:44:1



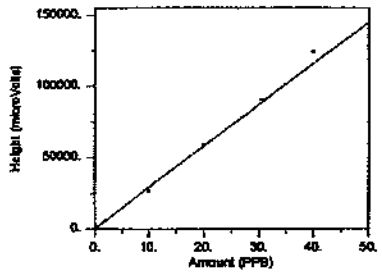
Calibration formula: Y = 2808.269 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9979, Average error = 4.18%
Average CF = 2808.2690 with RSD = 5.81%

16 4,4'-DDE
Retention time = 4.802 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0

USF83 1423

No retention time reference component
Single peak quantification by height

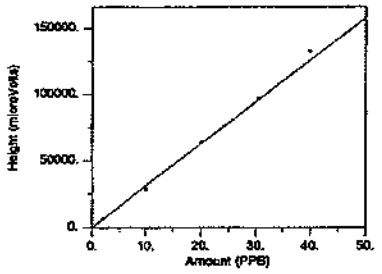
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	5695.2	2847.576	Manual	7/19/2011 2:44:1
2	10.000	26196.7	2619.669	Manual	7/19/2011 2:44:1
3	20.000	58472.9	2923.647	Manual	7/19/2011 2:44:1
4	30.400	90545.7	2978.477	Manual	7/19/2011 2:44:1
5	40.000	124205.0	3105.125	Manual	7/19/2011 2:44:1



Calibration formula: Y = 2894.899 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9907, Average error = 4.46%
Average CF = 2894.8990 with RSD = 6.23%

17 Dieldrin
Retention time = 4.933 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	6382.2	3191.123	Manual	7/19/2011 2:44:1
2	10.000	28711.6	2871.163	Manual	7/19/2011 2:44:1
3	20.000	63711.5	3185.573	Manual	7/19/2011 2:44:1
4	30.400	96802.0	3184.277	Manual	7/19/2011 2:44:1
5	40.000	132689.5	3317.238	Manual	7/19/2011 2:44:1



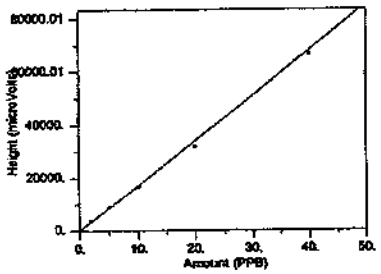
Calibration formula: Y = 3149.875 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9948, Average error = 3.54%
Average CF = 3149.8750 with RSD = 5.26%

18 o,p-DDD
Retention time = 4.961 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2

USF03 1424

Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

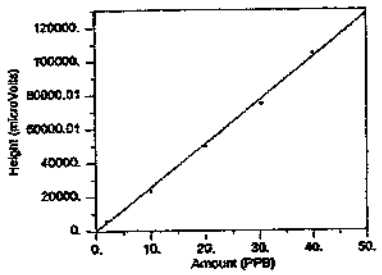
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	3657.0	1828.5	Manual	7/19/2011 2:44:1
2	5.000	8803.0	1760.6	Manual	7/19/2011 2:44:1
3	10.000	16578.0	1657.8	Manual	7/19/2011 2:44:1
4	20.000	31738.0	1586.9	Manual	7/19/2011 2:44:1
5	40.000	66644.0	1666.1	Manual	7/19/2011 2:44:1



Calibration formula: Y = 1699.98 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9972, Average error = 4.45%
Average CF = 1699.9800 with RSD = 5.57%

19 Endrin
Retention time = 5.162 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	5760.8	2880.406	Manual	7/19/2011 2:44:1
2	10.003	23727.4	2372.025	Manual	7/19/2011 2:44:1
3	20.006	49808.6	2489.682	Manual	7/19/2011 2:44:1
4	30.410	74927.2	2463.901	Manual	7/19/2011 2:44:1
5	40.013	104500.9	2611.674	Manual	7/19/2011 2:44:1



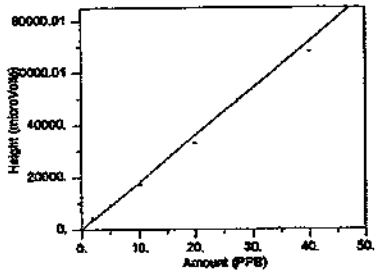
Calibration formula: Y = 2563.538 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9969, Average error = 5.70%
Average CF = 2563.5380 with RSD = 7.67%

USF63 1425

20 o,p-DDT
Retention time = 5.189 min., Search window = 0.020 min.

Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

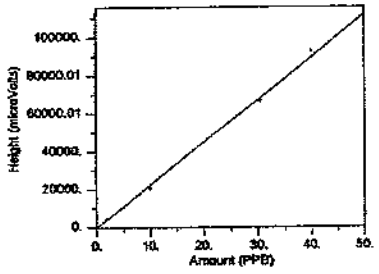
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4231.0	2115.5	Manual	7/19/2011 2:44:1
2	5.000	9084.0	1816.8	Manual	7/19/2011 2:44:1
3	10.000	17204.0	1720.4	Manual	7/19/2011 2:44:1
4	20.000	32947.0	1647.35	Manual	7/19/2011 2:44:1
5	40.000	68076.0	1701.9	Manual	7/19/2011 2:44:1



Calibration formula: Y = 1800.39 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9902, Average error = 7.37%
Average CF = 1800.3900 with RSD = 10.36%

21 4,4'-DDD
Retention time = 5.239 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4785.2	2392.619	Manual	7/19/2011 2:44:1
2	10.003	20429.6	2042.346	Manual	7/19/2011 2:44:1
3	20.006	44383.8	2218.526	Manual	7/19/2011 2:44:1
4	30.410	66745.0	2194.836	Manual	7/19/2011 2:44:1
5	40.013	92643.9	2315.346	Manual	7/19/2011 2:44:1



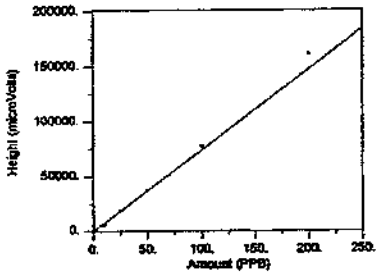
Calibration formula: Y = 2232.735 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9968, Average error = 4.34%
Average CF = 2232.7350 with RSD = 5.94%

USF83 1426

22 Kepone

Retention time = 5.246 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

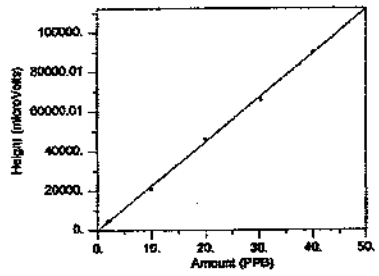
Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	5950.0	595	Manual	7/19/2011 2:44:1
2	25.000	19213.0	768.52	Manual	7/19/2011 2:44:1
3	50.000	37092.0	741.84	Manual	7/19/2011 2:44:1
4	100.000	77244.0	772.44	Manual	7/19/2011 2:44:1
5	200.000	160901.0	804.505	Manual	7/19/2011 2:44:1



Calibration formula: Y = 736.461 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9871, Average error = 7.68%
Average CF = 736.4610 with RSD = 11.15%

23 Endosulfan II
Retention time = 5.319 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4749.0	2374.479	Manual	7/19/2011 2:44:1
2	10.000	20728.3	2072.835	Manual	7/19/2011 2:44:1
3	20.000	46135.1	2306.754	Manual	7/19/2011 2:44:1
4	30.400	65937.8	2169.006	Manual	7/19/2011 2:44:1
5	40.000	89861.2	2246.529	Manual	7/19/2011 2:44:1

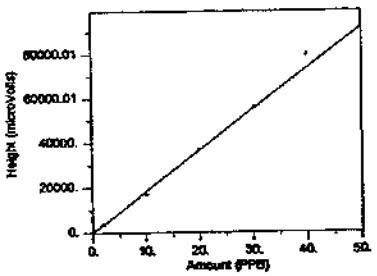


Calibration formula: Y = 2233.92 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9981, Average error = 4.05%
Average CF = 2233.9200 with RSD = 5.27%

USF03 1427

24 4,4'-DDT
Retention time = 5.464 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

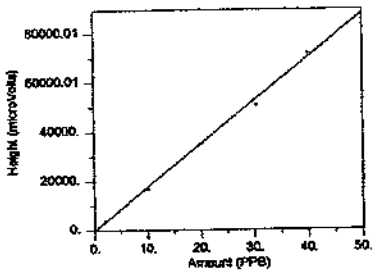
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.003	3626.4	1810.497	Manual	7/19/2011 2:44:1
2	10.014	16967.7	1694.393	Manual	7/19/2011 2:44:1
3	20.029	37013.4	1847.991	Manual	7/19/2011 2:44:1
4	30.444	55911.0	1836.518	Manual	7/19/2011 2:44:1
5	40.058	79493.1	1984.45	Manual	7/19/2011 2:44:1



Calibration formula: Y = 1834.77 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9896, Average error = 3.59%
Average CF = 1834.7700 with RSD = 5.64%

25 Endrin aldehyde
Retention time = 5.559 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.003	3836.5	1915.396	Manual	7/19/2011 2:44:1
2	10.014	16537.2	1651.409	Manual	7/19/2011 2:44:1
3	20.029	34958.1	1745.376	Manual	7/19/2011 2:44:1
4	30.444	50746.5	1666.88	Manual	7/19/2011 2:44:1
5	40.058	71551.6	1786.201	Manual	7/19/2011 2:44:1

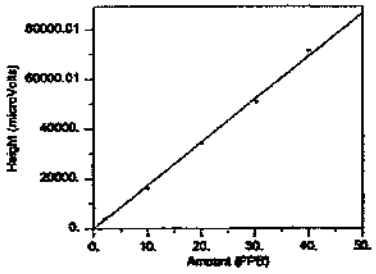


Calibration formula: Y = 1753.052 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9966, Average error = 4.46%
Average CF = 1753.0530 with RSD = 6.07%

USF63 1428

26 Endo. sulfate
Retention time = 5.751 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

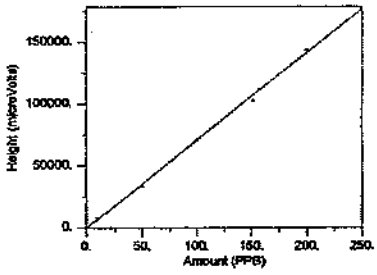
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	3756.7	1878.366	Manual	7/19/2011 2:44:1
2	10.000	16036.9	1603.687	Manual	7/19/2011 2:44:1
3	20.000	34307.8	1715.391	Manual	7/19/2011 2:44:1
4	30.400	50768.7	1670.023	Manual	7/19/2011 2:44:1
5	40.000	71349.6	1783.74	Manual	7/19/2011 2:44:1



Calibration formula: Y = 1730.242 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9967, Average error = 4.66%
Average CF = 1730.2420 with RSD = 6.11%

27 Methoxychlor
Retention time = 5.939 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	7700.4	770.0351	Manual	7/19/2011 2:44:1
2	50.000	33495.9	669.9171	Manual	7/19/2011 2:44:1
3	100.000	70689.5	706.8953	Manual	7/19/2011 2:44:1
4	152.000	102665.5	675.4309	Manual	7/19/2011 2:44:1
5	200.000	143160.0	715.8	Manual	7/19/2011 2:44:1



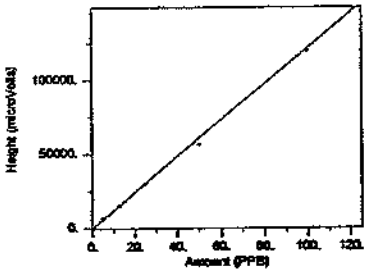
Calibration formula: Y = 707.616 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9974, Average error = 3.99%

USF03 1429

Average CF = 707.6157 with RSD = 5.66%

28 Mirex
Retention time = 6.091 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

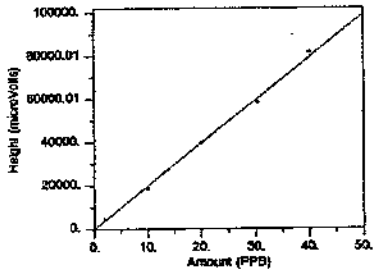
Level	Amount	Height	Height/Amt	Source	Date and time
1	5.000	6757.0	1351.4	Manual	7/19/2011 2:44:1
2	12.500	15053.0	1204.24	Manual	7/19/2011 2:44:1
3	25.000	30045.0	1201.8	Manual	7/19/2011 2:44:1
4	50.000	56322.0	1126.44	Manual	7/19/2011 2:44:1
5	100.000	119705.0	1197.05	Manual	7/19/2011 2:44:1



Calibration formula: Y = 1216.186 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9971, Average error = 4.45%
Average CF = 1216.1860 with RSD = 6.76%

29 Endrin ketone
Retention time = 6.116 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.001	4276.0	2136.955	Manual	7/19/2011 2:44:1
2	10.005	18362.2	1835.299	Manual	7/19/2011 2:44:1
3	20.010	39445.6	1971.294	Manual	7/19/2011 2:44:1
4	30.415	58016.4	1907.494	Manual	7/19/2011 2:44:1
5	40.020	81626.1	2039.633	Manual	7/19/2011 2:44:1



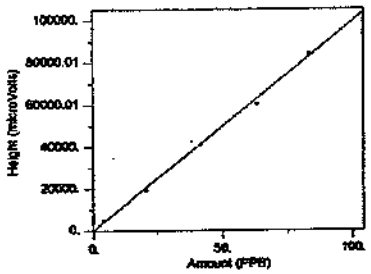
USF03 1438

Calibration formula: Y = 1978.135 X
Fit type = Avg CF with equal weighting, forced to origin

Coefficient of determination = 0.9966, Average error = 4.46%
Average CF = 1978.1350 with RSD = 5.90%

30 DCB
Retention time = 6.895 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.170	4646.2	1114.206	Manual	7/19/2011 2:44:1
2	20.850	18925.4	907.6954	Manual	7/19/2011 2:44:1
3	41.700	40989.1	982.9518	Manual	7/19/2011 2:44:1
4	63.384	60103.9	948.2505	Manual	7/19/2011 2:44:1
5	83.400	84095.3	1008.337	Manual	7/19/2011 2:44:1



Calibration formula: Y = 992.288 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9967, Average error = 5.56%
Average CF = 992.2881 with RSD = 7.86%

USF03 1431

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Calibration File: 1P10206

GC Column (1) : RTX-CLP ID: 0.32 (mm) Update File:

Date(s) Analyzed: 7/25/2011 7/26/2011

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Tetrachloro-m-xylene	2.61	2.61	2.61	2.61	2.62	2.61	2.59	2.63
Hcb	2.89	2.89	2.89	2.89	2.89	2.89	2.87	2.91
alpha-BHC	3.02	3.02	3.02	3.02	3.02	3.02	3.00	3.04
gamma-BHC (Lindane)	3.27	3.27	3.27	3.27	3.27	3.27	3.25	3.29
beta-BHC	3.33	3.33	3.33	3.33	3.33	3.33	3.31	3.35
delta-BHC	3.48	3.48	3.48	3.48	3.48	3.48	3.46	3.50
Heptachlor	3.66	3.66	3.66	3.66	3.66	3.66	3.64	3.68
Aldrin	3.92	3.92	3.92	3.92	3.92	3.92	3.90	3.94
Telodrin	4.11	4.11	4.11	4.11	4.11	4.11	4.09	4.13
o,p-DDE	4.43	4.43	4.43	4.43	4.43	4.43	4.41	4.45
Heptachlor epoxide	4.44	4.44	4.44	4.44	4.44	4.44	4.42	4.46
gamma-Chlordane	4.55	4.55	4.55	4.55	4.55	4.55	4.52	4.58
alpha-Chlordane	4.65	4.65	4.65	4.65	4.65	4.65	4.63	4.67
4,4'-DDE	4.71	4.71	4.71	4.71	4.71	4.71	4.69	4.73
Endosulfan I	4.77	4.77	4.77	4.77	4.77	4.77	4.75	4.79
o,p-DDD	4.84	4.84	4.85	4.84	4.84	4.85	4.83	4.87
Dieldrin	4.95	4.95	4.95	4.95	4.95	4.95	4.93	4.97
o,p-DDT	5.04	5.04	5.04	5.04	5.04	5.04	5.02	5.06
Endrin	5.13	5.13	5.13	5.13	5.13	5.13	5.11	5.15
Kepone	5.16	5.16	5.16	5.16	5.16	5.16	5.14	5.18
4,4'-DDD	5.17	5.17	5.17	5.17	5.17	5.17	5.15	5.19
Endosulfan II	5.30	5.30	5.30	5.30	5.30	5.30	5.28	5.32
4,4'-DDT	5.37	5.37	5.37	5.37	5.37	5.37	5.35	5.39
Endrin aldehyde	5.60	5.60	5.60	5.60	5.60	5.60	5.58	5.62
Methoxychlor	5.71	5.71	5.71	5.71	5.71	5.71	5.69	5.73
Mirex	5.83	5.83	5.83	5.83	5.83	5.83	5.81	5.85
Endosulfan sulfate	5.90	5.90	5.90	5.90	5.90	5.90	5.88	5.92
Endrin ketone	6.09	6.09	6.09	6.09	6.10	6.09	6.07	6.11
Decachlorobiphenyl	6.73	6.73	6.73	6.73	6.73	6.73	6.71	6.75

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6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Calibration File: 1P10206

GC Column (1) : RTX-CLP ID: 0.32 (mm) Date(s) Analyzed: 7/25/2011 7/26/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	4.90E+03	4.90E+03	5.38E+03	4.39E+03	5.38E+03	4.99E+03	8.3
Hcb	7.09E+03	5.71E+03	6.43E+03	6.83E+03	6.53E+03	6.52E+03	8.0
alpha-BHC	6.34E+03	6.42E+03	9.31E+03	4.15E+03	8.88E+03	7.02E+03	30.0
gamma-BHC (Lindane)	7.89E+03	7.67E+03	8.52E+03	6.56E+03	7.89E+03	7.71E+03	9.3
beta-BHC	4.39E+03	3.64E+03	3.88E+03	3.13E+03	3.43E+03	3.69E+03	12.9
delta-BHC	7.00E+03	7.02E+03	8.01E+03	6.38E+03	7.18E+03	7.12E+03	8.2
Heptachlor	7.71E+03	7.38E+03	8.08E+03	6.55E+03	7.11E+03	7.37E+03	7.9
Aldrin	7.08E+03	7.06E+03	7.95E+03	6.39E+03	6.93E+03	7.08E+03	7.9
Telodrin	5.58E+03	5.01E+03	5.24E+03	5.61E+03	5.44E+03	5.38E+03	4.7
o,p-DDE	3.80E+03	3.64E+03	3.74E+03	3.84E+03	3.63E+03	3.73E+03	2.5
Heptachlor epoxide	7.11E+03	6.48E+03	7.43E+03	6.01E+03	6.20E+03	6.65E+03	9.1
gamma-Chlordane	7.29E+03	6.74E+03	7.65E+03	6.12E+03	6.34E+03	6.83E+03	9.3
alpha-Chlordane	6.62E+03	6.23E+03	7.16E+03	5.51E+03	6.14E+03	6.33E+03	9.7
4,4'-DDE	5.69E+03	5.94E+03	6.86E+03	5.56E+03	5.71E+03	5.95E+03	8.8
Endosulfan I	6.69E+03	6.35E+03	7.28E+03	5.78E+03	5.93E+03	6.41E+03	9.5
o,p-DDD	3.28E+03	3.13E+03	3.20E+03	3.30E+03	3.17E+03	3.22E+03	2.3
Dieldrin	6.52E+03	6.85E+03	7.82E+03	6.34E+03	6.58E+03	6.82E+03	8.6
p,p-DDT	3.65E+03	3.45E+03	3.64E+03	3.82E+03	3.66E+03	3.64E+03	3.6
Endrin	5.59E+03	5.90E+03	6.73E+03	5.64E+03	5.59E+03	5.89E+03	8.2
Kepone	1.76E+03	1.70E+03	1.81E+03	1.91E+03	1.93E+03	1.83E+03	5.3
4,4'-DDD	4.71E+03	4.94E+03	5.72E+03	4.66E+03	4.66E+03	4.94E+03	9.2
Endosulfan II	3.19E+03	3.89E+03	4.89E+03	3.70E+03	4.22E+03	3.98E+03	15.8
4,4'-DDT	4.07E+03	4.57E+03	5.48E+03	4.39E+03	4.57E+03	4.62E+03	11.4
Endrin aldehyde	4.37E+03	4.43E+03	5.20E+03	4.08E+03	4.22E+03	4.46E+03	9.8
Methoxychlor	2.03E+03	2.21E+03	2.63E+03	2.15E+03	2.29E+03	2.26E+03	9.9
Mirex	4.02E+03	3.79E+03	3.73E+03	3.91E+03	4.04E+03	3.90E+03	3.5
Endosulfan sulfate	4.23E+03	4.48E+03	5.47E+03	4.32E+03	4.41E+03	4.58E+03	11.0
Endrin ketone	5.68E+03	5.87E+03	6.82E+03	5.44E+03	5.67E+03	5.90E+03	9.1
Decachlorobiphenyl	4.50E+03	3.99E+03	4.58E+03	3.52E+03	3.97E+03	4.11E+03	10.5

Average % RSD: 9.1

- not needed for the samples that ran on 7/26/11

USF03 1433

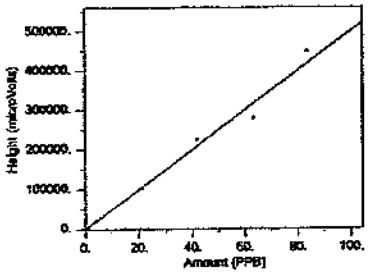
FORM VI-2

Calibration File Name: **C:\CPWIN\DATA1\1P10206.CAL** Version = 7
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 50
Amount units = PPB
30 components with 5 levels each

1 TCX

Retention time = 2.612 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.166	20410.4	4899.282	Manual	7/26/2011 8:25:1
2	20.830	101994.9	4896.539	Manual	7/26/2011 8:25:1
3	41.660	224044.2	5377.921	Manual	7/26/2011 8:25:1
4	63.323	277762.1	4386.433	Manual	7/26/2011 8:25:1
5	83.320	448004.0	5376.908	Manual	7/26/2011 8:25:1



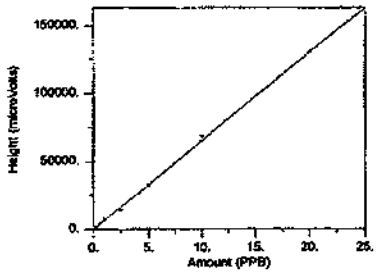
Calibration formula: Y = 4987.417 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9746, Average error = 6.26%
Average CF = 4987.4170 with RSD = 8.28%

2 HCB

Retention time = 2.894 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7086.0	7086	Manual	7/26/2011 8:25:1
2	2.500	14270.0	5708	Manual	7/26/2011 8:25:1
3	5.000	32135.0	6427	Manual	7/26/2011 8:25:1
4	10.000	68345.0	6834.5	Manual	7/26/2011 8:25:1
5	20.000	130665.0	6533.25	Manual	7/26/2011 8:25:1

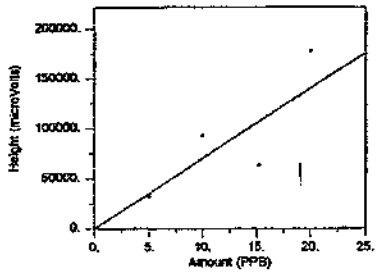
USF03 1434



Calibration formula: Y = 6517.75 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9986, Average error = 5.53%
Average CF = 6517.7500 with RSD = 8.00%

3 alpha-BHC
Retention time = 3.018 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6339.9	6339.913	Manual	7/26/2011 8:25:1
2	5.000	32122.6	6424.518	Manual	7/26/2011 8:25:1
3	10.000	93106.0	9310.6	Manual	7/26/2011 8:25:1
4	15.200	63057.0	4148.489	Manual	7/26/2011 8:25:1
5	20.000	177649.5	8882.475	Manual	7/26/2011 8:25:1

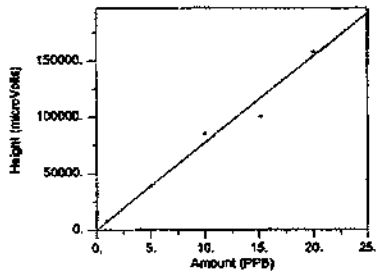


Calibration formula: Y = 7021.199 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.7821, Average error = 23.65%
Average CF = 7021.1990 with RSD = 30.03%

4 gamma-BHC
Retention time = 3.265 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7888.1	7888.107	Manual	7/26/2011 8:25:1
2	5.000	38335.5	7667.096	Manual	7/26/2011 8:25:1
3	10.000	85234.0	8523.399	Manual	7/26/2011 8:25:1
4	15.200	99764.2	6563.433	Manual	7/26/2011 8:25:1
5	20.000	157737.8	7886.89	Manual	7/26/2011 8:25:1

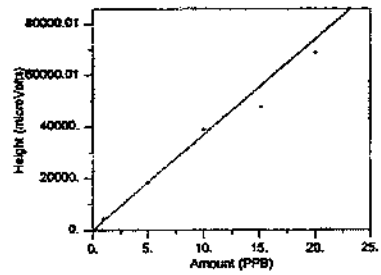
USF03 3435



Calibration formula: Y = 7705.785 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9715, Average error = 6.13%
Average CF = 7705.7850 with RSD = 9.27%

5 beta-BHC
Retention time = 3.328 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	4388.1	4388.15	Manual	7/26/2011 8:25:1
2	5.000	18200.4	3640.08	Manual	7/26/2011 8:25:1
3	10.000	38788.0	3878.797	Manual	7/26/2011 8:25:1
4	15.200	47573.4	3129.829	Manual	7/26/2011 8:25:1
5	20.000	68593.2	3429.66	Manual	7/26/2011 8:25:1



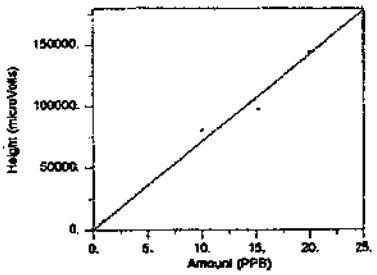
Calibration formula: Y = 3693.303 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9583, Average error = 9.53%
Average CF = 3693.3030 with RSD = 12.89%

6 delta-BHC
Retention time = 3.478 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6997.9	6997.865	Manual	7/26/2011 8:25:1
2	5.000	35081.1	7016.222	Manual	7/26/2011 8:25:1
3	10.000	80140.8	8014.077	Manual	7/26/2011 8:25:1
4	15.200	97049.0	6384.8	Manual	7/26/2011 8:25:1

USF03 1436

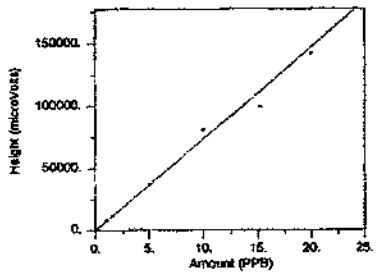
Level	Amount	Height	Height/Amt	Source	Date and time
5	20.000	143575.3	7178.765	Manual	7/26/2011 8:25:1



Calibration formula: Y = 7118.346 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9819, Average error = 5.37%
Average CF = 7118.3460 with RSD = 8.22%

7 Heptachlor
Retention time = 3.655 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7706.5	7706.538	Manual	7/26/2011 8:25:1
2	5.000	36903.6	7380.71	Manual	7/26/2011 8:25:1
3	10.000	80819.8	8081.979	Manual	7/26/2011 8:25:1
4	15.200	99515.6	6547.082	Manual	7/26/2011 8:25:1
5	20.000	142285.5	7114.275	Manual	7/26/2011 8:25:1



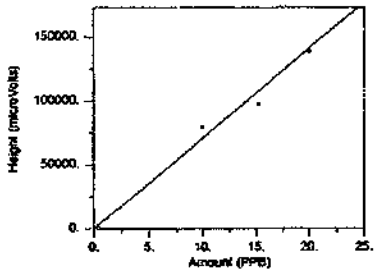
Calibration formula: Y = 7366.117 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9792, Average error = 5.82%
Average CF = 7366.1170 with RSD = 7.92%

8 Aldrin
Retention time = 3.918 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7084.1	7084.111	Manual	7/26/2011 8:25:1

USF93 1437

Level	Amount	Height	Height/Amt	Source	Date and time
2	5.000	35280.1	7056.014	Manual	7/26/2011 8:25:1
3	10.000	79460.3	7946.033	Manual	7/26/2011 8:25:1
4	15.200	97083.7	6387.086	Manual	7/26/2011 8:25:1
5	20.000	138510.7	6925.535	Manual	7/26/2011 8:25:1



Calibration formula: Y = 7079.756 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9817, Average error = 4.92%
Average CF = 7079.7560 with RSD = 7.91%

9 Alachlor
Retention time = 4.070 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

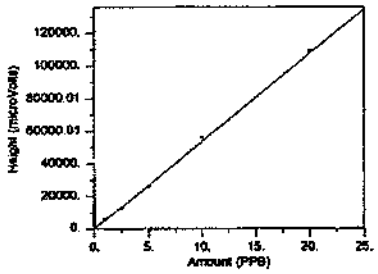
Level	Amount	Height	Height/Amt	Source	Date and time
1	3.980	0.0	0	Manual	7/26/2011 8:25:1
2	9.950	0.0	0	Manual	7/26/2011 8:25:1
3	19.900	0.0	0	Manual	7/26/2011 8:25:1
4	39.800	0.0	0	Manual	7/26/2011 8:25:1
5	79.600	0.0	0	Manual	7/26/2011 8:25:1

Calibration formula: No data points to graph
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 1.0000, Average error = 100.00%
Average CF = 0.0000 with RSD = 0.00%

10 Telodrin
Retention time = 4.108 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USF03 1439

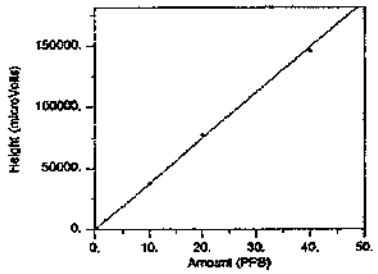
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	5583.0	5583	Manual	7/26/2011 8:25:1
2	2.500	12523.0	5009.2	Manual	7/26/2011 8:25:1
3	5.000	26179.0	5235.8	Manual	7/26/2011 8:25:1
4	10.000	56119.0	5611.9	Manual	7/26/2011 8:25:1
5	20.000	108727.0	5436.35	Manual	7/26/2011 8:25:1



Calibration formula: Y = 5375.25 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9988, Average error = 3.76%
Average CF = 5375.2500 with RSD = 4.71%

11 o,p-DDE
Retention time = 4.430 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	7594.0	3797	Manual	7/26/2011 8:25:1
2	5.000	18180.0	3636	Manual	7/26/2011 8:25:1
3	10.000	37449.0	3744.9	Manual	7/26/2011 8:25:1
4	20.000	76794.0	3839.7	Manual	7/26/2011 8:25:1
5	40.000	145287.0	3632.175	Manual	7/26/2011 8:25:1

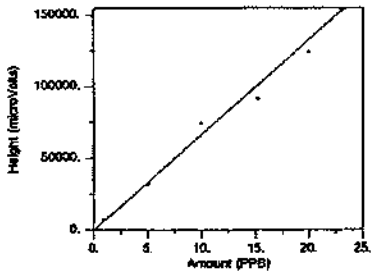


Calibration formula: Y = 3729.955 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9984, Average error = 2.06%
Average CF = 3729.9550 with RSD = 2.51%

12 Hept. epoxide
Retention time = 4.441 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USF03 1439

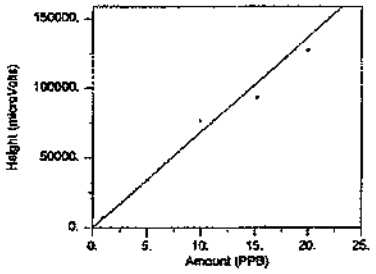
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7114.9	7114.933	Manual	7/26/2011 8:25:1
2	5.000	32390.9	6478.188	Manual	7/26/2011 8:25:1
3	10.000	74327.0	7432.697	Manual	7/26/2011 8:25:1
4	15.200	91384.6	6012.143	Manual	7/26/2011 8:25:1
5	20.000	124013.0	6200.65	Manual	7/26/2011 8:25:1



Calibration formula: Y = 6647.722 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9728, Average error = 7.53%
Average CF = 6647.7220 with RSD = 9.11%

13 g. Chlordane
Retention time = 4.546 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	7288.5	7288.541	Manual	7/26/2011 8:25:1
2	5.000	33697.5	6739.496	Manual	7/26/2011 8:25:1
3	10.000	76451.5	7645.147	Manual	7/26/2011 8:25:1
4	15.200	93030.9	6120.455	Manual	7/26/2011 8:25:1
5	20.000	126889.4	6344.47	Manual	7/26/2011 8:25:1



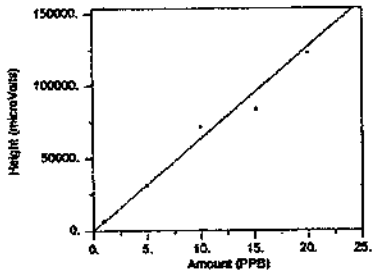
Calibration formula: Y = 6827.622 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9694, Average error = 7.49%
Average CF = 6827.6220 with RSD = 9.33%

14 a. Chlordane
Retention time = 4.653 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component

USF03 1448

Single peak quantification by height

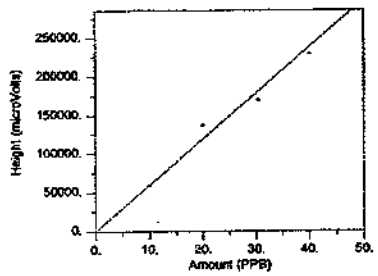
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6622.7	6622.696	Manual	7/26/2011 8:25:1
2	5.002	31174.9	6232.479	Manual	7/26/2011 8:25:1
3	10.004	71642.0	7161.338	Manual	7/26/2011 8:25:1
4	15.206	83780.8	5509.718	Manual	7/26/2011 8:25:1
5	20.008	122762.6	6135.676	Manual	7/26/2011 8:25:1



Calibration formula: Y = 6332.381 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9708, Average error = 7.07%
Average CF = 6332.3810 with RSD = 9.66%

15 4,4'-DDE
Retention time = 4.706 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	11380.2	5690.08	Manual	7/26/2011 8:25:1
2	10.000	59434.6	5943.457	Manual	7/26/2011 8:25:1
3	20.000	137146.4	6857.32	Manual	7/26/2011 8:25:1
4	30.400	168938.8	5557.197	Manual	7/26/2011 8:25:1
5	40.000	228292.5	5707.313	Manual	7/26/2011 8:25:1



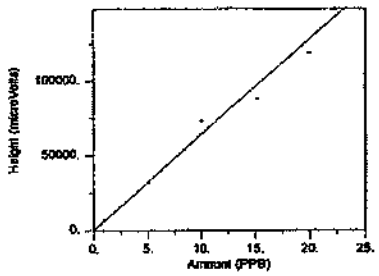
Calibration formula: Y = 5951.073 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9810, Average error = 6.09%
Average CF = 5951.0730 with RSD = 8.83%

16 Endosulfan I
Retention time = 4.765 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0

USF03 1441

No retention time reference component
Single peak quantification by height

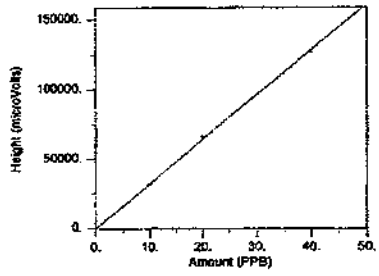
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	6691.8	6691.759	Manual	7/26/2011 8:25:1
2	5.000	31727.4	6345.478	Manual	7/26/2011 8:25:1
3	10.000	72836.9	7283.685	Manual	7/26/2011 8:25:1
4	15.200	87914.4	5783.842	Manual	7/26/2011 8:25:1
5	20.000	118642.8	5932.14	Manual	7/26/2011 8:25:1



Calibration formula: Y = 6407.381 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9677, Average error = 7.25%
Average CF = 6407.3810 with RSD = 9.45%

17 o,p-DDD
Retention time = 4.845 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	6564.0	3282	Manual	7/26/2011 8:25:1
2	5.000	15633.0	3126.6	Manual	7/26/2011 8:25:1
3	10.000	32018.0	3201.8	Manual	7/26/2011 8:25:1
4	20.000	65978.0	3298.9	Manual	7/26/2011 8:25:1
5	40.000	126921.0	3173.025	Manual	7/26/2011 8:25:1



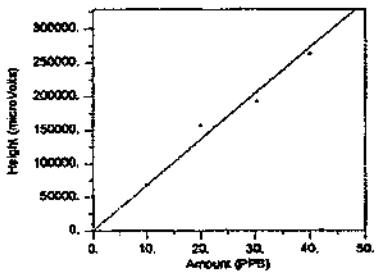
Calibration formula: Y = 3216.465 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9994, Average error = 1.84%
Average CF = 3216.4650 with RSD = 2.27%

18 Dieldrin
Retention time = 4.949 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2

USF03 1442

Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

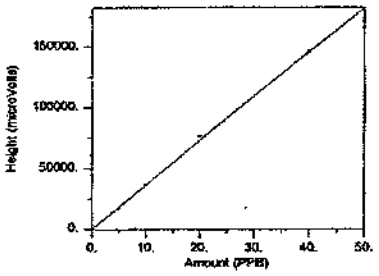
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	13046.2	6523.075	Manual	7/26/2011 8:25:1
2	10.000	68531.9	6853.194	Manual	7/26/2011 8:25:1
3	20.000	156391.4	7819.57	Manual	7/26/2011 8:25:1
4	30.400	192796.8	6342	Manual	7/26/2011 8:25:1
5	40.000	263018.9	6575.473	Manual	7/26/2011 8:25:1



Calibration formula: Y = 6822.663 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9820, Average error = 6.02%
Average CF = 6822.6630 with RSD = 8.60%

19 o,p-DDT
Retention time = 5.040 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	7293.0	3646.5	Manual	7/26/2011 8:25:1
2	5.000	17251.0	3450.2	Manual	7/26/2011 8:25:1
3	10.000	36442.0	3644.2	Manual	7/26/2011 8:25:1
4	20.000	76487.0	3824.35	Manual	7/26/2011 8:25:1
5	40.000	146242.0	3656.05	Manual	7/26/2011 8:25:1



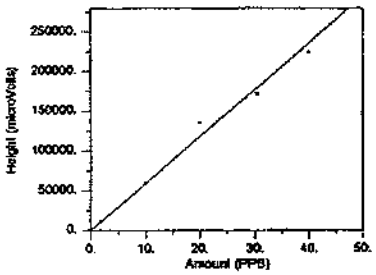
Calibration formula: Y = 3644.26 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9989, Average error = 2.13%
Average CF = 3644.2600 with RSD = 3.64%

20 Endrin
Retention time = 5.127 min., Search window = 0.020 min.

USF03 1443

Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

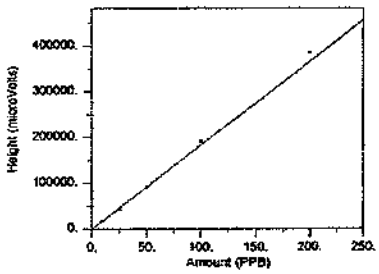
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	11189.5	5594.73	Manual	7/26/2011 8:25:1
2	10.003	58987.3	5896.965	Manual	7/26/2011 8:25:1
3	20.006	134552.2	6725.592	Manual	7/26/2011 8:25:1
4	30.410	171377.1	5635.551	Manual	7/26/2011 8:25:1
5	40.013	223732.4	5591.493	Manual	7/26/2011 8:25:1



Calibration formula: Y = 5888.866 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9835, Average error = 5.74%
Average CF = 5888.8660 with RSD = 8.23%

21 Kepone
Retention time = 5.161 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	17780.0	1778	Manual	7/26/2011 8:25:1
2	25.000	42405.0	1696.2	Manual	7/26/2011 8:25:1
3	50.000	90647.0	1812.94	Manual	7/26/2011 8:25:1
4	100.000	191135.0	1911.35	Manual	7/26/2011 8:25:1
5	200.000	385769.0	1928.845	Manual	7/26/2011 8:25:1



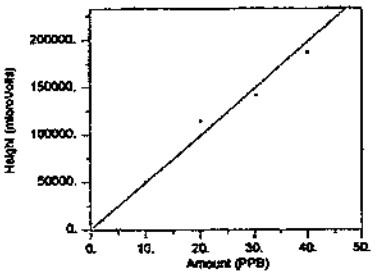
Calibration formula: Y = 1825.467 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9943, Average error = 4.15%
Average CF = 1825.4670 with RSD = 5.28%

USF03 1444

22 4,4'-DDD

Retention time = 5.165 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

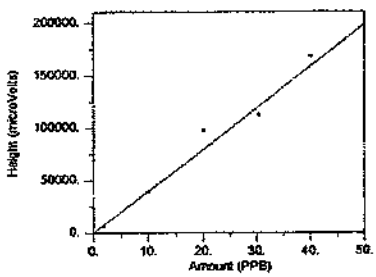
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	9423.0	4711.5	Manual	7/26/2011 8:25:1
2	10.003	49439.0	4942.421	Manual	7/26/2011 8:25:1
3	20.006	114449.6	5720.764	Manual	7/26/2011 8:25:1
4	30.410	141655.7	4658.195	Manual	7/26/2011 8:25:1
5	40.013	186458.2	4659.94	Manual	7/26/2011 8:25:1



Calibration formula: Y = 4938.564 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9781, Average error = 6.37%
Average CF = 4938.5640 with RSD = 9.17%

23 Endosulfan II
Retention time = 5.296 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	6381.8	3190.889	Manual	7/26/2011 8:25:1
2	10.000	38932.5	3893.252	Manual	7/26/2011 8:25:1
3	20.000	97711.5	4885.573	Manual	7/26/2011 8:25:1
4	30.400	112456.1	3699.214	Manual	7/26/2011 8:25:1
5	40.000	168716.6	4217.915	Manual	7/26/2011 8:25:1

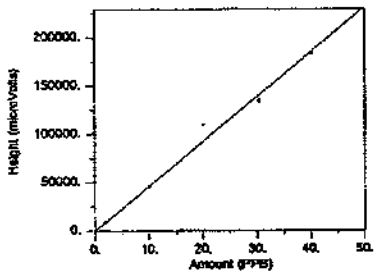


Calibration formula: Y = 3977.368 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9694, Average error = 11.55%
Average CF = 3977.3680 with RSD = 15.83%

USF03 1445

24 4,4'-DDT
Retention time = 5.369 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

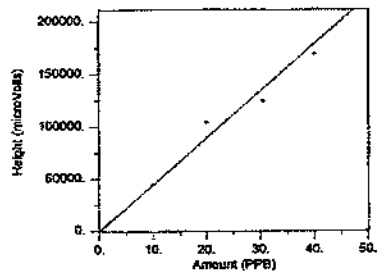
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.003	8142.9	4065.36	Manual	7/26/2011 8:25:1
2	10.014	45731.1	4566.718	Manual	7/26/2011 8:25:1
3	20.029	109835.5	5483.824	Manual	7/26/2011 8:25:1
4	30.444	133765.2	4393.812	Manual	7/26/2011 8:25:1
5	40.058	182891.3	4565.663	Manual	7/26/2011 8:25:1



Calibration formula: Y = 4615.075 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9818, Average error = 7.53%
Average CF = 4615.0750 with RSD = 11.42%

25 Endrin aldehyde
Retention time = 5.596 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.003	8753.1	4370.001	Manual	7/26/2011 8:25:1
2	10.014	44314.4	4425.24	Manual	7/26/2011 8:25:1
3	20.029	104232.2	5204.064	Manual	7/26/2011 8:25:1
4	30.444	124302.2	4082.979	Manual	7/26/2011 8:25:1
5	40.058	169025.4	4219.517	Manual	7/26/2011 8:25:1

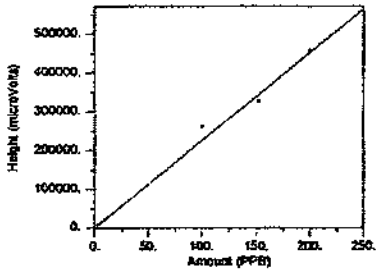


Calibration formula: Y = 4460.36 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9726, Average error = 6.67%
Average CF = 4460.3600 with RSD = 9.79%

USF83 1446

26 Methoxychlor
Retention time = 5.708 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

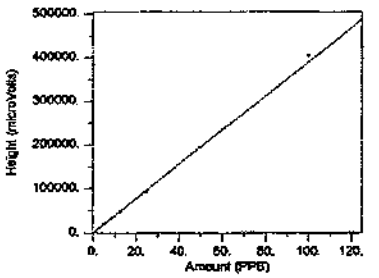
Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	20320.9	2032.091	Manual	7/26/2011 8:25:1
2	50.000	110483.7	2209.674	Manual	7/26/2011 8:25:1
3	100.000	262507.9	2625.079	Manual	7/26/2011 8:25:1
4	152.000	326062.7	2145.149	Manual	7/26/2011 8:25:1
5	200.000	457685.2	2288.426	Manual	7/26/2011 8:25:1



Calibration formula: Y = 2260.084 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9860, Average error = 6.96%
Average CF = 2260.0840 with RSD = 9.94%

27 Mirex
Retention time = 5.830 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	5.000	20098.0	4019.6	Manual	7/26/2011 8:25:1
2	12.500	47388.0	3791.04	Manual	7/26/2011 8:25:1
3	25.000	93302.0	3732.08	Manual	7/26/2011 8:25:1
4	50.000	195315.0	3906.3	Manual	7/26/2011 8:25:1
5	100.000	404407.0	4044.07	Manual	7/26/2011 8:25:1



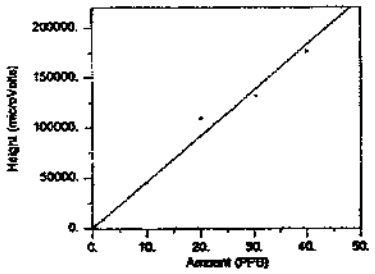
Calibration formula: Y = 3898.618 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9976, Average error = 2.81%

USF&G 1447

Average CF = 3898.6180 with RSD = 3.52%

28 Endo. sulfate
Retention time = 5.898 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

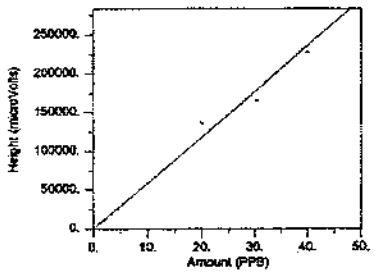
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	8456.5	4228.245	Manual	7/26/2011 8:25:1
2	10.000	44835.6	4483.557	Manual	7/26/2011 8:25:1
3	20.000	109400.4	5470.02	Manual	7/26/2011 8:25:1
4	30.400	131368.0	4321.316	Manual	7/26/2011 8:25:1
5	40.000	176343.1	4408.577	Manual	7/26/2011 8:25:1



Calibration formula: Y = 4582.343 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9764, Average error = 7.75%
Average CF = 4582.3430 with RSD = 11.03%

29 Endrin ketone
Retention time = 6.093 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.001	11363.7	5679.016	Manual	7/26/2011 8:25:1
2	10.005	58763.2	5873.383	Manual	7/26/2011 8:25:1
3	20.010	136435.7	6818.376	Manual	7/26/2011 8:25:1
4	30.415	165500.9	5441.424	Manual	7/26/2011 8:25:1
5	40.020	226784.5	5666.779	Manual	7/26/2011 8:25:1



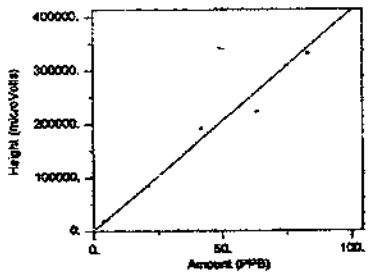
Calibration formula: Y = 5895.795 X
Fit type = Avg CF with equal weighting, forced to origin

USY63 1448

Coefficient of determination = 0.9790, Average error = 6.26%
Average CF = 5895.7950 with RSD = 9.12%

30 DCB
Retention time = 6.727 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.170	18749.5	4496.273	Manual	7/26/2011 8:25:1
2	20.850	83185.6	3989.716	Manual	7/26/2011 8:25:1
3	41.700	190817.5	4575.959	Manual	7/26/2011 8:25:1
4	63.384	223044.5	3518.94	Manual	7/26/2011 8:25:1
5	83.400	330976.2	3968.539	Manual	7/26/2011 8:25:1



Calibration formula: Y = 4109.886 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9676, Average error = 8.30%
Average CF = 4109.8860 with RSD = 10.54%

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Calibration File: 1P10206B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Update File:

Date(s) Analyzed: 7/25/2011 7/26/2011

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Tetrachloro-m-xylene	2.56	2.56	2.56	2.56	2.56	2.56	2.54	2.58
Hcb	2.89	2.89	2.89	2.89	2.89	2.89	2.87	2.91
alpha-BHC	2.99	2.99	2.99	2.99	2.99	2.99	2.97	3.01
gamma-BHC (Lindane)	3.26	3.26	3.26	3.26	3.26	3.26	3.24	3.28
beta-BHC	3.33	3.32	3.32	3.33	3.33	3.32	3.30	3.34
delta-BHC	3.57	3.57	3.57	3.57	3.57	3.57	3.55	3.59
Heptachlor	3.62	3.62	3.62	3.62	3.63	3.62	3.60	3.64
Aldrin	3.91	3.90	3.90	3.90	3.91	3.90	3.88	3.92
Telodrin	4.05	4.05	4.05	4.05	4.05	4.05	4.03	4.07
Heptachlor epoxide	4.40	4.40	4.40	4.40	4.40	4.40	4.38	4.42
gamma-Chlordane	4.56	4.56	4.56	4.56	4.56	4.56	4.53	4.59
o,p-DDE	4.56	4.56	4.56	4.56	4.56	4.56	4.54	4.58
alpha-Chlordane	4.68	4.67	4.67	4.67	4.68	4.67	4.65	4.69
Endosulfan I	4.72	4.72	4.72	4.72	4.72	4.72	4.70	4.74
4,4'-DDE	4.81	4.80	4.80	4.80	4.81	4.80	4.78	4.82
Dieldrin	4.94	4.93	4.93	4.93	4.93	4.93	4.91	4.95
o,p-DDD	4.96	4.96	4.96	4.96	4.96	4.96	4.94	4.98
Endrin	5.17	5.16	5.16	5.16	5.16	5.16	5.14	5.18
o,p-DDT	5.19	5.19	5.19	5.19	5.19	5.19	5.17	5.21
4,4'-DDD	5.24	5.24	5.24	5.24	5.24	5.24	5.22	5.26
Kepone	5.25	5.25	5.25	5.25	5.25	5.25	5.23	5.27
Endosulfan II	5.32	5.32	5.32	5.32	5.32	5.32	5.30	5.34
4,4'-DDT	5.47	5.47	5.47	5.47	5.47	5.47	5.45	5.49
Endrin aldehyde	5.56	5.56	5.56	5.56	5.56	5.56	5.54	5.58
Endosulfan sulfate	5.75	5.75	5.75	5.75	5.75	5.75	5.73	5.77
Methoxychlor	5.94	5.94	5.94	5.94	5.94	5.94	5.92	5.96
Mirex	6.09	6.09	6.09	6.09	6.09	6.09	6.07	6.11
Endrin ketone	6.12	6.12	6.12	6.12	6.12	6.12	6.10	6.14
Decachlorobiphenyl	6.90	6.90	6.90	6.90	6.90	6.90	6.88	6.92

7/26/11

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Calibration File: 1P10206B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/25/2011 7/26/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	1.67E+03	1.73E+03	1.89E+03	1.53E+03	1.80E+03	1.72E+03	7.9
Hcb	3.53E+03	2.81E+03	3.19E+03	3.43E+03	3.37E+03	3.27E+03	8.7
alpha-BHC	4.31E+03	4.45E+03	5.27E+03	3.96E+03	5.02E+03	4.60E+03	11.6
gamma-BHC (Lindane)	3.81E+03	3.60E+03	4.27E+03	3.39E+03	4.05E+03	3.82E+03	9.2
beta-BHC	2.10E+03	1.70E+03	1.87E+03	1.48E+03	1.67E+03	1.77E+03	13.1
delta-BHC	3.80E+03	3.56E+03	4.14E+03	3.35E+03	3.76E+03	3.72E+03	7.9
Heptachlor	3.77E+03	3.29E+03	3.67E+03	3.06E+03	3.32E+03	3.42E+03	8.5
Aldrin	3.49E+03	2.97E+03	3.27E+03	2.66E+03	2.90E+03	3.06E+03	10.6
Telodrin	2.49E+03	2.04E+03	2.08E+03	2.16E+03	2.18E+03	2.19E+03	8.1
Heptachlor epoxide	3.21E+03	2.66E+03	2.98E+03	2.33E+03	2.53E+03	2.74E+03	12.9
gamma-Chlordane	3.35E+03	2.86E+03	3.20E+03	2.58E+03	2.69E+03	2.93E+03	11.2
o,p-DDE	1.92E+03	1.63E+03	1.61E+03	1.62E+03	1.59E+03	1.67E+03	8.4
alpha-Chlordane	3.34E+03	2.87E+03	3.26E+03	2.63E+03	2.69E+03	2.96E+03	11.1
Endosulfan I	2.99E+03	2.63E+03	3.01E+03	2.39E+03	2.43E+03	2.69E+03	11.0
4,4'-DDE	2.57E+03	2.57E+03	3.06E+03	2.43E+03	2.46E+03	2.62E+03	9.8
Dieldrin	2.82E+03	2.83E+03	3.31E+03	2.67E+03	2.73E+03	2.87E+03	8.8
o,p-DDD	1.74E+03	1.41E+03	1.41E+03	1.39E+03	1.35E+03	1.46E+03	10.8
Endrin	2.79E+03	2.41E+03	2.76E+03	2.29E+03	2.23E+03	2.49E+03	10.6
o,p-DDT	1.99E+03	1.51E+03	1.46E+03	1.50E+03	1.44E+03	1.58E+03	14.6
4,4'-DDD	2.19E+03	1.94E+03	2.26E+03	1.76E+03	1.80E+03	1.99E+03	11.4
Kepone	7.95E+02	7.25E+02	7.76E+02	8.05E+02	7.90E+02	7.78E+02	4.1
Endosulfan II	2.12E+03	1.94E+03	2.38E+03	1.83E+03	1.88E+03	2.03E+03	11.0
4,4'-DDT	1.68E+03	1.67E+03	2.01E+03	1.63E+03	1.64E+03	1.72E+03	9.3
Endrin aldehyde	1.80E+03	1.69E+03	1.93E+03	1.49E+03	1.50E+03	1.68E+03	11.3
Endosulfan sulfate	1.81E+03	1.66E+03	1.94E+03	1.52E+03	1.55E+03	1.70E+03	10.7
Methoxychlor	7.16E+02	7.00E+02	7.94E+02	6.26E+02	6.17E+02	6.91E+02	10.5
Mirex	1.31E+03	1.19E+03	1.15E+03	1.18E+03	1.17E+03	1.20E+03	5.3
Endrin ketone	2.08E+03	1.95E+03	2.24E+03	1.74E+03	1.81E+03	1.96E+03	10.4
Decachlorobiphenyl	1.19E+03	1.07E+03	1.24E+03	9.59E+02	9.93E+02	1.09E+03	11.2

Average % RSD: 10

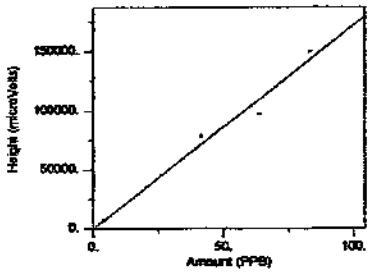
USP63 1451

Calibration File Name: **C:\CPWIN\DATA1\1P10206B.CAL** Version = 2
External standard calibration
Standard injection volume = 1
No sample weight correction
Area reject threshold = 0
Reference peak area reject threshold = 50
Amount units = PPB
30 components with 5 levels each

1 TCX

Retention time = 2.555 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.166	6945.0	1667.065	Manual	7/26/2011 8:36:0
2	20.830	35978.0	1727.22	Manual	7/26/2011 8:36:0
3	41.660	78742.0	1890.109	Manual	7/26/2011 8:36:0
4	63.323	96747.5	1527.841	Manual	7/26/2011 8:36:0
5	83.320	149809.7	1798.004	Manual	7/26/2011 8:36:0



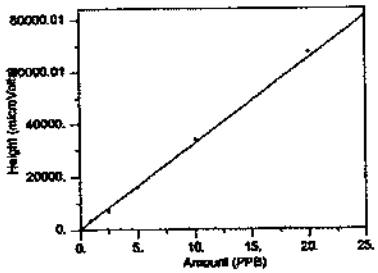
Calibration formula: Y = 1722.048 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9803, Average error = 5.79%
Average CF = 1722.0480 with RSD = 7.94%

2 HCB

Retention time = 2.889 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3530.0	3530	Manual	7/26/2011 8:36:0
2	2.500	7022.0	2808.8	Manual	7/26/2011 8:36:0
3	5.000	15946.0	3189.2	Manual	7/26/2011 8:36:0
4	10.000	34298.0	3429.8	Manual	7/26/2011 8:36:0
5	20.000	67480.0	3374	Manual	7/26/2011 8:36:0

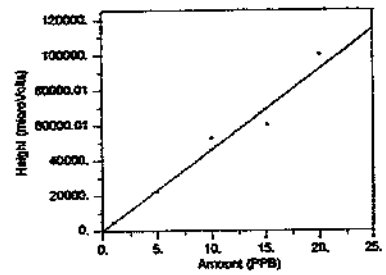
03F83 1452



Calibration formula: Y = 3266.36 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9968, Average error = 6.55%
Average CF = 3266.3600 with RSD = 8.70%

3 alpha-BHC
Retention time = 2.987 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

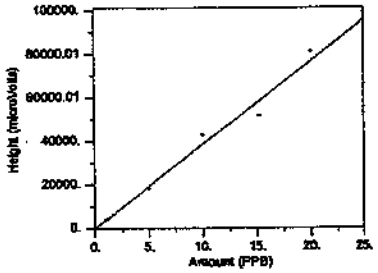
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	4312.5	4312.501	Manual	7/26/2011 8:36:0
2	5.000	22237.5	4447.504	Manual	7/26/2011 8:36:0
3	10.000	52702.6	5270.259	Manual	7/26/2011 8:36:0
4	15.200	60139.4	3956.54	Manual	7/26/2011 8:36:0
5	20.000	100453.9	5022.695	Manual	7/26/2011 8:36:0



Calibration formula: Y = 4601.9 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9613, Average error = 9.47%
Average CF = 4601.9000 with RSD = 11.64%

4 gamma-BHC
Retention time = 3.262 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

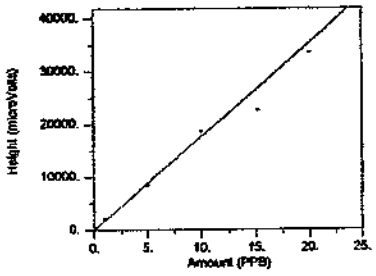
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3810.4	3810.376	Manual	7/26/2011 8:36:0
2	5.000	17979.9	3595.99	Manual	7/26/2011 8:36:0
3	10.000	42682.2	4268.223	Manual	7/26/2011 8:36:0
4	15.200	51466.1	3385.925	Manual	7/26/2011 8:36:0
5	20.000	80955.5	4047.775	Manual	7/26/2011 8:36:0



Calibration formula: Y = 3821.658 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9763, Average error = 7.04%
Average CF = 3821.6580 with RSD = 9.17%

5 beta-BHC
Retention time = 3.323 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	2102.0	2102.019	Manual	7/26/2011 8:36:0
2	5.000	8501.9	1700.387	Manual	7/26/2011 8:36:0
3	10.000	18674.3	1867.429	Manual	7/26/2011 8:36:0
4	15.200	22567.9	1484.728	Manual	7/26/2011 8:36:0
5	20.000	33456.9	1672.846	Manual	7/26/2011 8:36:0



Calibration formula: Y = 1765.482 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9618, Average error = 9.93%
Average CF = 1765.4820 with RSD = 13.14%

6 delta-BHC
Retention time = 3.566 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3803.9	3803.852	Manual	7/26/2011 8:36:0
2	5.000	17799.1	3559.818	Manual	7/26/2011 8:36:0
3	10.000	41435.3	4143.534	Manual	7/26/2011 8:36:0
4	15.200	50953.8	3352.225	Manual	7/26/2011 8:36:0

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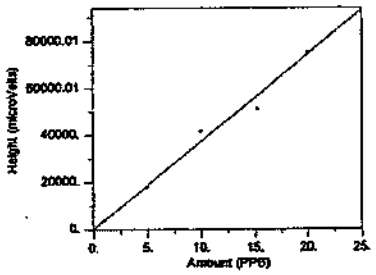
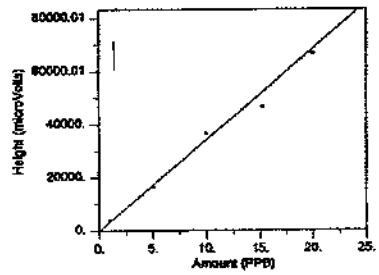
Level	Amount	Height	Height/Amt	Source	Date and time
5	20.000	75261.8	3763.089	Manual	7/26/2011 8:36:0



Calibration formula: Y = 3724.504 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9838, Average error = 5.77%
Average CF = 3724.5040 with RSD = 7.93%

7 Heptachlor
Retention time = 3.623 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3765.2	3765.242	Manual	7/26/2011 8:36:0
2	5.000	16435.9	3287.18	Manual	7/26/2011 8:36:0
3	10.000	36662.7	3666.268	Manual	7/26/2011 8:36:0
4	15.200	46526.3	3060.941	Manual	7/26/2011 8:36:0
5	20.000	66496.0	3324.802	Manual	7/26/2011 8:36:0



Calibration formula: Y = 3420.887 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9835, Average error = 6.90%
Average CF = 3420.8870 with RSD = 8.47%

8 Alachlor
Retention time = 3.684 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	3.980	0.0	0	Manual	7/26/2011 8:36:0

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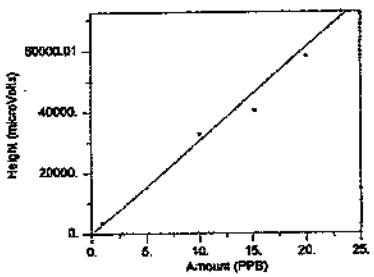
Level	Amount	Height	Height/Amt	Source	Date and time
2	9.950	0.0	0	Manual	7/26/2011 8:36:0
3	19.900	0.0	0	Manual	7/26/2011 8:36:0
4	39.800	0.0	0	Manual	7/26/2011 8:36:0
5	79.600	0.0	0	Manual	7/26/2011 8:36:0

Calibration formula: No data points to graph
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 1.0000, Average error = 100.00%
Average CF = 0.0000 with RSD = 0.00%

9 Aldrin
Retention time = 3.904 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3487.0	3487.002	Manual	7/26/2011 8:36:0
2	5.000	14840.7	2968.134	Manual	7/26/2011 8:36:0
3	10.000	32745.2	3274.516	Manual	7/26/2011 8:36:0
4	15.200	40472.1	2662.637	Manual	7/26/2011 8:36:0
5	20.000	58096.9	2904.845	Manual	7/26/2011 8:36:0

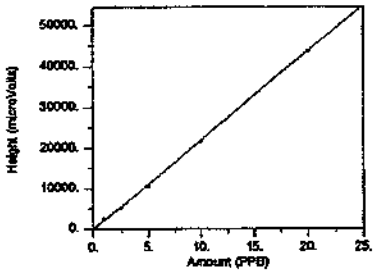


Calibration formula: Y = 3059.427 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9723, Average error = 8.40%
Average CF = 3059.4270 with RSD = 10.58%

10 Telodrin
Retention time = 4.051 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

USF83 1456

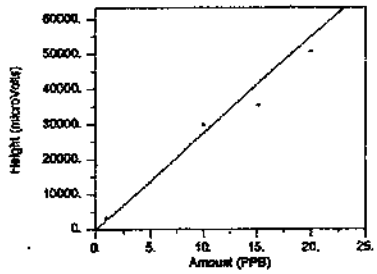
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	2488.0	2488	Manual	7/26/2011 8:36:0
2	2.500	5098.0	2039.2	Manual	7/26/2011 8:36:0
3	5.000	10419.0	2083.8	Manual	7/26/2011 8:36:0
4	10.000	21564.0	2156.4	Manual	7/26/2011 8:36:0
5	20.000	43549.0	2177.45	Manual	7/26/2011 8:36:0



Calibration formula: Y = 2188.97 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9994, Average error = 5.46%
Average CF = 2188.9700 with RSD = 8.05%

11 Hept. epoxide
Retention time = 4.400 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

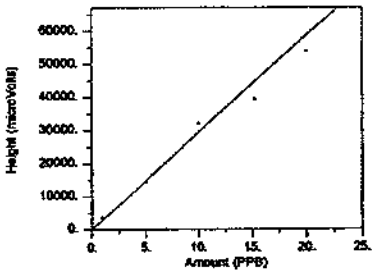
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3213.5	3213.52	Manual	7/26/2011 8:36:0
2	5.000	13290.5	2658.09	Manual	7/26/2011 8:36:0
3	10.000	29796.8	2979.68	Manual	7/26/2011 8:36:0
4	15.200	35379.0	2327.563	Manual	7/26/2011 8:36:0
5	20.000	50652.2	2532.61	Manual	7/26/2011 8:36:0



Calibration formula: Y = 2742.293 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9544, Average error = 10.34%
Average CF = 2742.2930 with RSD = 12.91%

12 g. Chlordane
Retention time = 4.557 min., Search window = 0.030 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

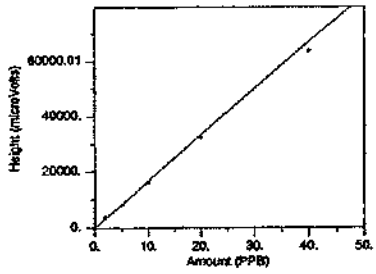
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3346.4	3346.373	Manual	7/26/2011 8:36:0
2	5.000	14290.1	2858.018	Manual	7/26/2011 8:36:0
3	10.000	32003.6	3200.357	Manual	7/26/2011 8:36:0
4	15.200	39276.3	2583.969	Manual	7/26/2011 8:36:0
5	20.000	53720.4	2686.021	Manual	7/26/2011 8:36:0



Calibration formula: Y = 2934.948 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9621, Average error = 9.22%
Average CF = 2934.9480 with RSD = 11.18%

13 o,p-DDE
Retention time = 4.559 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	3848.0	1924	Manual	7/26/2011 8:36:0
2	5.000	8149.0	1629.8	Manual	7/26/2011 8:36:0
3	10.000	16083.0	1608.3	Manual	7/26/2011 8:36:0
4	20.000	32357.0	1617.85	Manual	7/26/2011 8:36:0
5	40.000	63571.0	1589.275	Manual	7/26/2011 8:36:0



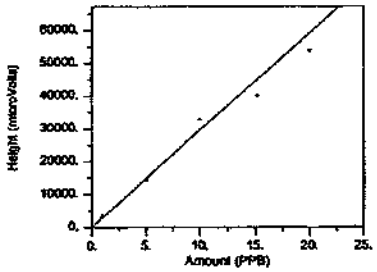
Calibration formula: Y = 1673.845 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9943, Average error = 5.98%
Average CF = 1673.8450 with RSD = 8.40%

14 a. Chlordane
Retention time = 4.674 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component

USF83 1458

Single peak quantification by height

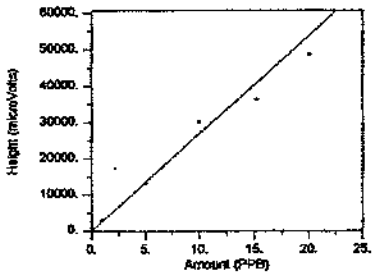
Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	3344.9	3344.856	Manual	7/26/2011 8:36:0
2	5.002	14337.1	2866.268	Manual	7/26/2011 8:36:0
3	10.004	32628.0	3261.498	Manual	7/26/2011 8:36:0
4	15.206	40019.9	2631.846	Manual	7/26/2011 8:36:0
5	20.008	53767.9	2687.32	Manual	7/26/2011 8:36:0



Calibration formula: Y = 2958.357 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9608, Average error = 9.32%
Average CF = 2958.3570 with RSD = 11.08%

15 Endosulfan I
Retention time = 4.721 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	1.000	2989.5	2989.535	Manual	7/26/2011 8:36:0
2	5.000	13161.8	2632.364	Manual	7/26/2011 8:36:0
3	10.000	30059.2	3005.92	Manual	7/26/2011 8:36:0
4	15.200	36314.7	2389.123	Manual	7/26/2011 8:36:0
5	20.000	48553.5	2427.674	Manual	7/26/2011 8:36:0



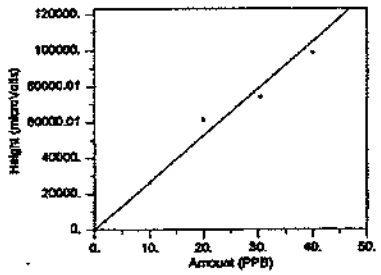
Calibration formula: Y = 2688.923 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9560, Average error = 9.19%
Average CF = 2688.9230 with RSD = 11.04%

16 4,4'-DDE
Retention time = 4.804 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.1
Group number = 0, Component constant = 0

USF83 1459

No retention time reference component
Single peak quantification by height

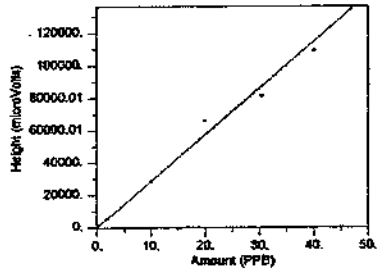
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	5140.1	2570.069	Manual	7/26/2011 8:36:0
2	10.000	25716.7	2571.669	Manual	7/26/2011 8:36:0
3	20.000	61237.1	3061.857	Manual	7/26/2011 8:36:0
4	30.400	73918.0	2431.514	Manual	7/26/2011 8:36:0
5	40.000	98423.3	2460.582	Manual	7/26/2011 8:36:0



Calibration formula: Y = 2619.138 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9730, Average error = 6.76%
Average CF = 2619.1380 with RSD = 9.75%

17 Dieldrin
Retention time = 4.933 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	5639.9	2819.957	Manual	7/26/2011 8:36:0
2	10.000	28278.5	2827.848	Manual	7/26/2011 8:36:0
3	20.000	66170.8	3308.542	Manual	7/26/2011 8:36:0
4	30.400	81240.4	2672.383	Manual	7/26/2011 8:36:0
5	40.000	109052.5	2726.313	Manual	7/26/2011 8:36:0



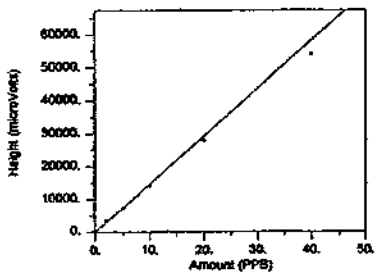
Calibration formula: Y = 2871.009 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9785, Average error = 6.10%
Average CF = 2871.0090 with RSD = 8.82%

18 o,p-DDD
Retention time = 4.963 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2

USF83 1468

Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

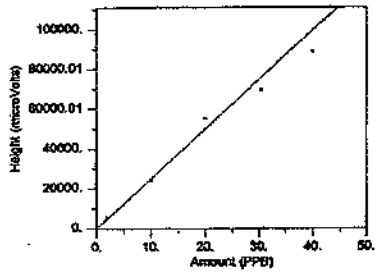
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	3471.0	1735.5	Manual	7/26/2011 8:36:0
2	5.000	7072.0	1414.4	Manual	7/26/2011 8:36:0
3	10.000	14054.0	1405.4	Manual	7/26/2011 8:36:0
4	20.000	27730.0	1386.5	Manual	7/26/2011 8:36:0
5	40.000	53961.0	1349.025	Manual	7/26/2011 8:36:0



Calibration formula: Y = 1458.165 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9871, Average error = 7.61%
Average CF = 1458.1650 with RSD = 10.77%

19 Endrin
Retention time = 5.163 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	5575.9	2787.965	Manual	7/26/2011 8:36:0
2	10.003	24140.3	2413.309	Manual	7/26/2011 8:36:0
3	20.006	55222.6	2760.301	Manual	7/26/2011 8:36:0
4	30.410	69503.7	2285.553	Manual	7/26/2011 8:36:0
5	40.013	89075.7	2226.169	Manual	7/26/2011 8:36:0



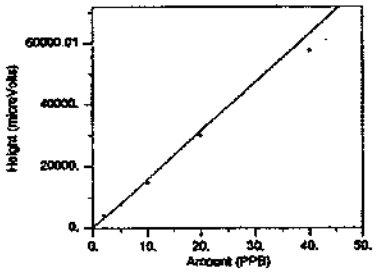
Calibration formula: Y = 2494.659 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9595, Average error = 8.96%
Average CF = 2494.6590 with RSD = 10.59%

20 o,p-DDT
Retention time = 5.191 min., Search window = 0.020 min.

USF53 1461

Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

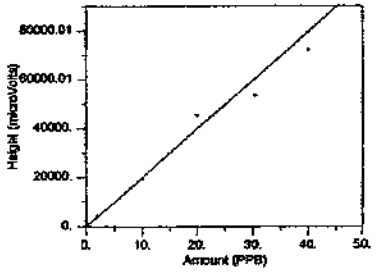
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	3975.0	1987.5	Manual	7/26/2011 8:36:0
2	5.000	7564.0	1512.8	Manual	7/26/2011 8:36:0
3	10.000	14579.0	1457.9	Manual	7/26/2011 8:36:0
4	20.000	29904.0	1495.2	Manual	7/26/2011 8:36:0
5	40.000	57513.0	1437.825	Manual	7/26/2011 8:36:0



Calibration formula: Y = 1578.245 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9809, Average error = 10.37%
Average CF = 1578.2450 with RSD = 14.62%

21 4,4'-DDD
Retention time = 5.241 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4377.7	2188.854	Manual	7/26/2011 8:36:0
2	10.003	19413.9	1940.811	Manual	7/26/2011 8:36:0
3	20.006	45211.0	2259.872	Manual	7/26/2011 8:36:0
4	30.410	53377.4	1755.259	Manual	7/26/2011 8:36:0
5	40.013	72127.7	1802.606	Manual	7/26/2011 8:36:0



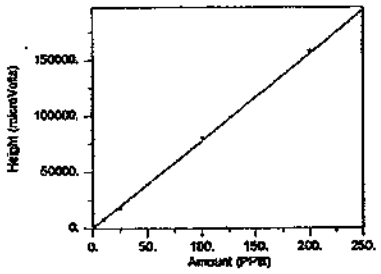
Calibration formula: Y = 1989.48 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9534, Average error = 9.44%
Average CF = 1989.4800 with RSD = 11.38%

USP03 1462

22 Kepone

Retention time = 5.247 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

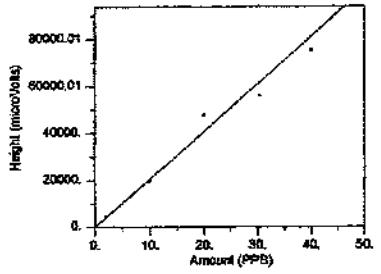
Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	7950.0	795	Manual	7/26/2011 8:36:0
2	25.000	18121.0	724.84	Manual	7/26/2011 8:36:0
3	50.000	38784.0	775.68	Manual	7/26/2011 8:36:0
4	100.000	80532.0	805.32	Manual	7/26/2011 8:36:0
5	200.000	157911.0	789.555	Manual	7/26/2011 8:36:0



Calibration formula: Y = 778.079 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9990, Average error = 2.86%
Average CF = 778.0790 with RSD = 4.06%

23 Endosulfan II
Retention time = 5.320 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	4234.3	2117.168	Manual	7/26/2011 8:36:0
2	10.000	19379.0	1937.9	Manual	7/26/2011 8:36:0
3	20.000	47605.0	2380.249	Manual	7/26/2011 8:36:0
4	30.400	55726.4	1833.104	Manual	7/26/2011 8:36:0
5	40.000	75101.0	1877.524	Manual	7/26/2011 8:36:0

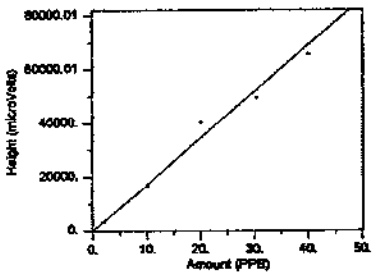


Calibration formula: Y = 2029.189 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9622, Average error = 8.65%
Average CF = 2029.1890 with RSD = 11.04%

USEPA 1463

24 4,4'-DDT
Retention time = 5.466 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

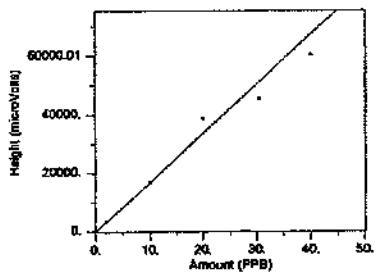
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.003	3356.7	1675.856	Manual	7/26/2011 8:36:0
2	10.014	16751.8	1672.833	Manual	7/26/2011 8:36:0
3	20.029	40241.3	2009.153	Manual	7/26/2011 8:36:0
4	30.444	49543.1	1627.353	Manual	7/26/2011 8:36:0
5	40.058	65544.3	1636.234	Manual	7/26/2011 8:36:0



Calibration formula: Y = 1724.286 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9785, Average error = 6.61%
Average CF = 1724.2860 with RSD = 9.32%

25 Endrin aldehyde
Retention time = 5.560 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.003	3613.1	1803.83	Manual	7/26/2011 8:36:0
2	10.014	16909.1	1688.544	Manual	7/26/2011 8:36:0
3	20.029	38585.9	1926.502	Manual	7/26/2011 8:36:0
4	30.444	45316.3	1488.513	Manual	7/26/2011 8:36:0
5	40.058	60239.3	1503.803	Manual	7/26/2011 8:36:0

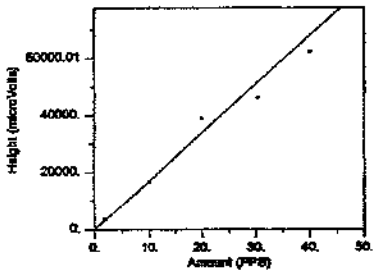


Calibration formula: Y = 1682.238 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9463, Average error = 8.85%
Average CF = 1682.2380 with RSD = 11.27%

USEPA 1464

26 Endo. sulfate
Retention time = 5.751 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

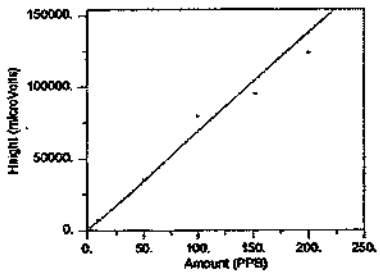
Level	Amount	Height	Height/Amt	Source	Date and time
1	2.000	3629.4	1814.723	Manual	7/26/2011 8:36:0
2	10.000	16625.7	1662.572	Manual	7/26/2011 8:36:0
3	20.000	38889.3	1944.463	Manual	7/26/2011 8:36:0
4	30.400	46070.5	1515.478	Manual	7/26/2011 8:36:0
5	40.000	61974.2	1549.354	Manual	7/26/2011 8:36:0



Calibration formula: Y = 1697.318 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9585, Average error = 8.59%
Average CF = 1697.3180 with RSD = 10.66%

27 Methoxychlor
Retention time = 5.941 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	10.000	7157.7	715.7672	Manual	7/26/2011 8:36:0
2	50.000	34998.3	699.965	Manual	7/26/2011 8:36:0
3	100.000	79394.9	793.9489	Manual	7/26/2011 8:36:0
4	152.000	95147.0	625.9668	Manual	7/26/2011 8:36:0
5	200.000	123496.0	617.48	Manual	7/26/2011 8:36:0



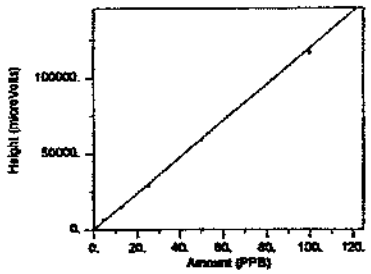
Calibration formula: Y = 690.626 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9522, Average error = 7.98%

USP83 1465

Average CF = 690.6255 with RSD = 10.47%

28 Mirex
Retention time = 6.093 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 1
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

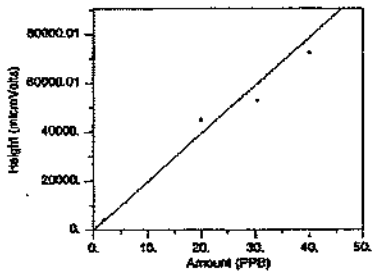
Level	Amount	Height	Height/Amt	Source	Date and time
1	5.000	6544.0	1308.8	Manual	7/26/2011 8:36:0
2	12.500	14841.0	1187.28	Manual	7/26/2011 8:36:0
3	25.000	28773.0	1150.92	Manual	7/26/2011 8:36:0
4	50.000	58937.0	1178.74	Manual	7/26/2011 8:36:0
5	100.000	116575.0	1165.75	Manual	7/26/2011 8:36:0



Calibration formula: Y = 1198.298 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9983, Average error = 3.69%
Average CF = 1198.2980 with RSD = 5.28%

29 Endrin ketone
Retention time = 6.117 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	2.001	4154.7	2076.333	Manual	7/26/2011 8:36:0
2	10.005	19543.9	1953.414	Manual	7/26/2011 8:36:0
3	20.010	44917.8	2244.765	Manual	7/26/2011 8:36:0
4	30.415	52903.5	1739.388	Manual	7/26/2011 8:36:0
5	40.020	72409.3	1809.328	Manual	7/26/2011 8:36:0



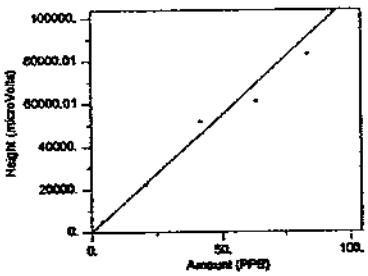
Calibration formula: Y = 1964.646 X
Fit type = Avg CF with equal weighting, forced to origin

USF63 1466

Coefficient of determination = 0.9601, Average error = 7.98%
Average CF = 1964.6460 with RSD = 10.37%

30 DCB
Retention time = 6.895 min., Search window = 0.020 min.
Low alarm amount = 0, High alarm amount = 0.2
Group number = 0, Component constant = 0
No retention time reference component
Single peak quantification by height

Level	Amount	Height	Height/Amt	Source	Date and time
1	4.170	4981.2	1194.53	Manual	7/26/2011 8:36:0
2	20.850	22333.4	1071.145	Manual	7/26/2011 8:36:0
3	41.700	51604.6	1237.521	Manual	7/26/2011 8:36:0
4	63.384	60759.4	958.5929	Manual	7/26/2011 8:36:0
5	83.400	82837.1	993.2505	Manual	7/26/2011 8:36:0



Calibration formula: Y = 1091.008 X
Fit type = Avg CF with equal weighting, forced to origin
Coefficient of determination = 0.9545, Average error = 9.17%
Average CF = 1091.0080 with RSD = 11.19%

USP83 1967

7D

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11

GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/12/11

Lab File ID: 1P6193.03R Time Analyzed: 16:39

Lab Standard ID: PEMAA Initial Calibration: 1P6193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	3.19	3.17	3.22	22.37	20.00	11.9
alpha-BHC	3.49	3.46	3.51	10.45	10.00	4.5
gamma-BHC (Lindane)	3.69	3.67	3.72	10.84	10.00	8.4
beta-BHC	3.82	3.80	3.85	9.37	10.00	-6.3
4,4'-DDE	4.96	4.94	4.99	0.83		
Endrin	5.26	5.24	5.29	43.10	50.00	-13.8
4,4'-DDD	5.36	5.34	5.39	1.96		
Endrin aldehyde	5.53	5.51	5.56	0.92		
4,4'-DDT	5.60	5.57	5.62	90.99	100.00	-9.0
Methoxychlor	5.96	5.93	5.98	245.26	250.80	-2.2
Endrin ketone	6.08	6.05	6.10	3.13		
Decachlorobiphenyl	7.04	7.01	7.06	20.91	20.00	4.5

4'4-DDT % breakdown:2.7 Endrin % breakdown: 6.4 Combined % breakdown: 9.1

USF93 1468

7D

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/12/11

Lab File ID: 1P6193B.03R Time Analyzed: 16:39

Lab Standard ID: PEMAA Initial Calibration: 1P6193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.96	2.94	2.98	21.93	20.00	9.7
alpha-BHC	3.32	3.30	3.34	10.13	10.00	1.3
gamma-BHC (Lindane)	3.53	3.51	3.55	10.45	10.00	4.5
beta-BHC	3.71	3.69	3.73	9.53	10.00	-4.7
4,4'-DDE	4.61	4.59	4.63	2.19		
Endrin	4.94	4.91	4.96	47.90	50.00	-4.2
4,4'-DDD	5.02	5.00	5.05	1.45		
4,4'-DDT	5.22	5.19	5.24	97.69	100.00	-2.3
Endrin aldehyde	5.29	5.27	5.32	0.94		
Methoxychlor	5.65	5.62	5.67	214.15	250.80	-14.6
Endrin ketone	5.85	5.83	5.88	1.79		
Decachlorobiphenyl	6.63	6.61	6.65	21.11	20.00	5.6

4'4-DDT % breakdown:2.4 Endrin % breakdown: 4.6 Combined % breakdown:7

USF03 1469

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11

GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/12/11

Lab File ID: 1P6193.09R Time Analyzed: 17:55

Lab Standard ID: ICMAXJO Initial Calibration: 1P6193

	COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
	Tetrachloro-m-xylene	3.19	3.17	3.22	21.72	20.04	8.4
	alpha-BHC	3.49	3.46	3.51	10.29	10.00	2.9
	gamma-BHC (Lindane)	3.69	3.67	3.72	9.96	10.00	-0.4
	beta-BHC	3.82	3.80	3.85	10.06	10.00	0.6
	delta-BHC	3.98	3.95	4.01	10.52	10.00	5.2
	Heptachlor	4.07	4.04	4.09	10.67	10.00	6.7
	Aldrin	4.29	4.27	4.32	10.58	10.00	5.8
	Heptachlor epoxide	4.59	4.57	4.62	10.34	10.00	3.4
	gamma-Chlordane	4.78	4.75	4.80	10.64	10.00	6.4
	alpha-Chlordane	4.84	4.80	4.87	10.19	10.00	1.9
	Endosulfan I	4.88	4.85	4.90	10.43	10.00	4.3
	4,4'-DDE	4.96	4.94	4.99	21.29	20.00	6.5
	Dieldrin	5.09	5.06	5.11	21.69	20.00	8.5
	Endrin	5.26	5.24	5.29	21.03	20.00	5.1
	4,4'-DDD	5.36	5.34	5.39	20.13	20.00	0.7
	Endosulfan II	5.43	5.41	5.46	20.89	20.00	4.5
X	Endrin aldehyde	5.53	5.51	5.56	17.41	20.00	-12.9
	4,4'-DDT	5.60	5.57	5.62	20.22	20.00	1.1
	Endosulfan sulfate	5.71	5.68	5.73	20.21	20.00	1.0
	Methoxychlor	5.96	5.93	5.98	101.75	100.00	1.7
	Endrin ketone	6.07	6.05	6.10	20.41	20.00	2.1
	Decachlorobiphenyl	7.03	7.01	7.06	42.41	40.00	6.0
					Average of %D:		4.4

X Not reported from this injection, See 1p6193.10,

7/13/11

USF83 1478

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/12/11

Lab File ID: 1P6193B.09R Time Analyzed: 17:55

Lab Standard ID: ICMAXJO Initial Calibration: 1P6193B

	COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
	Tetrachloro-m-xylene	2.96	2.94	2.98	21.81	20.04	8.8
	alpha-BHC	3.32	3.30	3.34	10.12	10.00	1.2
	gamma-BHC (Lindane)	3.53	3.51	3.55	9.79	10.00	-2.1
	beta-BHC	3.71	3.69	3.73	10.14	10.00	1.4
	Heptachlor	3.76	3.73	3.78	10.07	10.00	0.7
	delta-BHC	3.87	3.85	3.89	10.53	10.00	5.3
	Aldrin	3.94	3.92	3.96	10.71	10.00	7.1
	Heptachlor epoxide	4.27	4.25	4.30	10.13	10.00	1.3
	gamma-Chlordane	4.45	4.42	4.47	10.09	10.00	0.9
	alpha-Chlordane	4.49	4.47	4.51	10.52	10.00	5.2
	Endosulfan I	4.54	4.52	4.56	10.18	10.00	1.8
	4,4'-DDE	4.61	4.59	4.63	20.69	20.00	3.4
	Dieldrin	4.73	4.70	4.76	20.19	20.00	1.0
	Endrin	4.94	4.91	4.96	20.43	20.00	2.1
	4,4'-DDD	5.02	5.00	5.05	20.03	20.00	0.2
	Endosulfan II	5.16	5.13	5.18	20.57	20.00	2.9
	4,4'-DDT	5.22	5.19	5.24	20.36	20.00	1.8
X	Endrin aldehyde	5.29	5.27	5.32	16.95	20.00	-15.2
	Endosulfan sulfate	5.46	5.43	5.48	21.22	20.00	6.1
	Methoxychlor	5.65	5.62	5.67	104.08	100.00	4.1
	Endrin ketone	5.85	5.83	5.88	19.57	20.00	-2.2
	Decachlorobiphenyl	6.63	6.61	6.65	42.70	40.00	6.7

Average of %D: 3.7

X not reported from this injection. see 1p6193.10.

2309 7/13/11

USF03 1471

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11

GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/12/11

Lab File ID: 1P6193.10R Time Analyzed: 18:08

Lab Standard ID: 508AMBU Initial Calibration: 1P6193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.19	3.17	3.22	77.63	83.32	-6.8
Hcb	3.51	3.49	3.54	7.34	8.04	-8.7
gamma-BHC (Lindane)	3.69	3.67	3.72	7.86	8.04	-2.2
Heptachlor	4.07	4.04	4.09	8.04	8.02	0.3
Aldrin	4.30	4.27	4.32	7.88	8.04	-2.0
Heptachlor epoxide	4.59	4.57	4.62	7.91	8.02	-1.3
4,4'-DDE	4.96	4.94	4.99	19.93	20.00	-0.3
Dieldrin	5.09	5.06	5.11	7.80	8.04	-2.9
Endrin	5.26	5.24	5.29	7.49	8.04	-6.8
4,4'-DDD	5.36	5.34	5.39	20.15	20.00	0.7
* Endrin aldehyde	5.53	5.51	5.56	19.88	20.00	-0.6
4,4'-DDT	5.60	5.57	5.62	18.78	20.00	-6.1
Methoxychlor	5.96	5.93	5.98	76.44	80.40	-4.9
Endrin ketone	6.07	6.05	6.10	17.40	20.00	-13.0
Decachlorobiphenyl	7.04	7.01	7.06	76.53	83.40	-8.2

Average of %D: 4.3

* Report this compound only.

7/13/11

USF03 1472

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/12/11

Lab File ID: 1P6193B.10R Time Analyzed: 18:08

Lab Standard ID: 508AMBU Initial Calibration: 1P6193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.96	2.94	2.98	74.08	83.32	-11.1
Hcb	3.28	3.26	3.30	7.04	8.04	-12.5
gamma-BHC (Lindane)	3.53	3.51	3.55	7.24	8.04	-10.0
Heptachlor	3.76	3.73	3.78	7.41	8.02	-7.6
Aldrin	3.94	3.92	3.96	7.85	8.04	-2.4
Heptachlor epoxide	4.28	4.25	4.30	7.39	8.02	-7.8
4,4'-DDE	4.61	4.59	4.63	14.93	20.00	-25.4
Dieldrin	4.73	4.70	4.76	7.27	8.04	-9.6
Endrin	4.94	4.91	4.96	7.33	8.04	-8.8
4,4'-DDD	5.02	5.00	5.05	18.94	20.00	-5.3
4,4'-DDT	5.22	5.19	5.24	17.65	20.00	-11.8
☆ Endrin aldehyde	5.29	5.27	5.32	18.62	20.00	-6.9
Methoxychlor	5.65	5.62	5.67	73.91	80.40	-8.1
Endrin ketone	5.86	5.83	5.88	17.42	20.00	-12.9
Decachlorobiphenyl	6.63	6.61	6.65	76.15	83.40	-8.7

Average of %D: 9.9

☆ Report this compound only.

7/13/11

USF83 1473

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11
GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/12/11
Lab File ID: 1P6193.23R Time Analyzed: 20:53
Lab Standard ID: ICTXXAA Initial Calibration: 1P6193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Toxaphene	5.22	5.18	5.25	532.05	511.50	4.0
	5.44	5.40	5.47			
	5.63	5.59	5.66			
	5.70	5.66	5.73			
	5.76	5.73	5.80			
	6.28	6.25	6.32			
					Average of %D:	4.0

USF53 1474

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/12/11

Lab File ID: 1P6193B.23R Time Analyzed: 20:53

Lab Standard ID: ICTXXAA Initial Calibration: 1P6193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Toxaphene	4.91	4.88	4.95	511.56	511.50	0
	5.32	5.28	5.35			
	5.38	5.35	5.42			
	5.59	5.55	5.62			
	5.67	5.63	5.70			
	5.77	5.73	5.80			

Average of %D: .0

USF03 1425

FORM VII

7D
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11
GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/19/11
Lab File ID: 1P10200.05R Time Analyzed: 8:40
Lab Standard ID: PEMAA Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	21.94	20.00	9.7
alpha-BHC	3.02	3.00	3.04	11.44	10.00	14.4
gamma-BHC (Lindane)	3.27	3.25	3.29	10.79	10.00	7.9
beta-BHC	3.33	3.31	3.35	9.41	10.00	-5.9
4,4'-DDE	4.71	4.69	4.73	0.45		
Endrin	5.13	5.11	5.15	47.85	50.00	-4.3
4,4'-DDT	5.37	5.35	5.39	114.75	100.00	14.8
Endrin aldehyde	5.60	5.58	5.62	1.75		
Methoxychlor	5.71	5.69	5.73	258.15	250.80	2.9
Endrin ketone	6.09	6.08	6.12	3.24		
Decachlorobiphenyl	6.73	6.71	6.75	20.85	20.00	4.2

4'4-DDT % breakdown:0.5 Endrin % breakdown: 9.1 Combined % breakdown:9.6

03783 1476

7D
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/19/11

Lab File ID: 1P10200B.05R Time Analyzed: 8:40

Lab Standard ID: PEMAA Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	22.57	20.00	12.9
alpha-BHC	2.99	2.97	3.01	10.49	10.00	4.9
gamma-BHC (Lindane)	3.26	3.24	3.28	10.79	10.00	7.9
beta-BHC	3.32	3.30	3.34	9.31	10.00	-6.9
4,4'-DDE	4.80	4.78	4.82	0.45		
Endrin	5.16	5.14	5.18	43.53	50.00	-12.9
4,4'-DDD	5.24	5.22	5.26	1.26		
4,4'-DDT	5.46	5.44	5.48	99.48	100.00	-0.5
Endrin aldehyde	5.56	5.54	5.58	1.89		
Methoxychlor	5.94	5.92	5.96	235.55	250.80	-6.1
Endrin ketone	6.11	6.10	6.14	3.31		
Decachlorobiphenyl	6.89	6.88	6.92	20.19	20.00	1.0

4'4-DDT % breakdown:2.2 Endrin % breakdown: 8.1 Combined % breakdown: 10.3

US763 1477

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11
GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/19/11
Lab File ID: 1P10200.11R Time Analyzed: 10:36
Lab Standard ID: ICMAXJP Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	19.41	20.04	-3.1
alpha-BHC	3.02	3.00	3.04	9.92	10.00	-0.8
gamma-BHC (Lindane)	3.27	3.25	3.29	9.26	10.00	-7.4
beta-BHC	3.33	3.31	3.35	9.34	10.00	-6.6
delta-BHC	3.49	3.46	3.50	9.59	10.00	-4.1
Heptachlor	3.66	3.64	3.68	9.37	10.00	-6.3
Aldrin	3.93	3.91	3.95	9.44	10.00	-5.6
Heptachlor epoxide	4.45	4.43	4.47	9.23	10.00	-7.7
gamma-Chlordane	4.55	4.52	4.58	8.75	10.00	-12.5
alpha-Chlordane	4.66	4.64	4.68	8.29	10.00	-17.1
X 4,4'-DDE	4.71	4.69	4.73	16.85	20.00	-15.8
Endosulfan I	4.77	4.75	4.79	8.67	10.00	-13.3
Dieldrin	4.96	4.93	4.97	17.64	20.00	-11.8
Endrin	5.13	5.11	5.15	17.41	20.00	-12.9
4,4'-DDD	5.17	5.15	5.19	17.37	20.00	-13.2
Endosulfan II	5.30	5.28	5.32	21.42	20.00	7.1
4,4'-DDT	5.37	5.35	5.39	18.39	20.00	-8.0
X Endrin aldehyde	5.60	5.58	5.62	14.80	20.00	-26.0
Methoxychlor	5.71	5.69	5.73	86.48	100.00	-13.5
Endosulfan sulfate	5.90	5.88	5.92	18.63	20.00	-6.8
Endrin ketone	6.10	6.08	6.12	17.14	20.00	-14.3
Decachlorobiphenyl	6.73	6.71	6.75	36.29	40.00	-9.3
					Average of %D:	10.1

X Repeat these compds from 1p10200.12, 508AM.

7/19/11

USF03 1478

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/19/11

Lab File ID: 1P10200B.11R Time Analyzed: 10:36

Lab Standard ID: ICMAXJP Initial Calibration: 1P10200B

	COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
	Tetrachloro-m-xylene	2.56	2.54	2.58	20.83	20.04	3.9
	alpha-BHC	2.99	2.97	3.01	9.84	10.00	-1.6
	gamma-BHC (Lindane)	3.26	3.24	3.28	9.54	10.00	-4.6
	beta-BHC	3.32	3.30	3.34	9.94	10.00	-0.6
	delta-BHC	3.57	3.55	3.59	10.21	10.00	2.1
	Heptachlor	3.62	3.60	3.64	9.93	10.00	-0.7
	Aldrin	3.90	3.89	3.93	9.81	10.00	-1.9
	Heptachlor epoxide	4.40	4.38	4.42	9.52	10.00	-4.8
	alpha-Chlordane	4.67	4.65	4.69	9.41	10.00	-5.9
	Endosulfan I	4.72	4.70	4.74	9.52	10.00	-4.8
X	4,4'-DDE	4.80	4.78	4.82	18.97	20.00	-5.2
	Dieldrin	4.93	4.91	4.95	18.21	20.00	-9.0
	Endrin	5.16	5.14	5.18	17.82	20.00	-10.9
	4,4'-DDD	5.24	5.22	5.26	17.62	20.00	-11.9
	Endosulfan II	5.32	5.30	5.34	19.03	20.00	-4.8
	4,4'-DDT	5.46	5.44	5.48	18.92	20.00	-5.4
X	Endrin aldehyde	5.56	5.54	5.58	15.08	20.00	-24.6
	Endosulfan sulfate	5.75	5.73	5.77	18.86	20.00	-5.7
	Methoxychlor	5.94	5.92	5.96	91.68	100.00	-8.3
	Endrin ketone	6.12	6.10	6.14	17.73	20.00	-11.3
	Decachlorobiphenyl	6.90	6.88	6.92	36.36	40.00	-9.1

Average of %D: 6.5 10.4

9. CHD

9.07 10.00 -3.3

LL 2308 7/19/11

X Report these compds from 1p10200.12, 508 AM.

LL 2308 7/19/11

USF03 1479

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11
GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/19/11
Lab File ID: 1P10200.12R Time Analyzed: 10:52
Lab Standard ID: 508AMBV Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	71.82	83.32	-13.8
Hcb	2.90	2.88	2.92	7.81	8.04	-2.9
gamma-BHC (Lindane)	3.27	3.25	3.29	12.77	8.04	58.8
Heptachlor	3.66	3.64	3.68	7.27	8.02	-9.3
Aldrin	3.92	3.91	3.95	7.32	8.04	-8.9
Heptachlor epoxide	4.45	4.43	4.47	7.34	8.02	-8.4
4,4'-DDE	4.71	4.69	4.73	17.66	20.00	-11.7
Dieldrin	4.96	4.93	4.97	7.02	8.04	-12.7
Endrin	5.13	5.11	5.15	6.82	8.04	-15.1
4,4'-DDD	5.17	5.15	5.19	17.54	20.00	-12.3
4,4'-DDT	5.37	5.35	5.39	18.16	20.00	-9.2
Endrin aldehyde	5.60	5.58	5.62	18.24	20.00	-8.8
Methoxychlor	5.71	5.69	5.73	66.74	80.40	-17.0
Endrin ketone	6.10	6.08	6.12	16.24	20.00	-18.8
Decachlorobiphenyl	6.73	6.71	6.75	70.57	83.40	-15.4
					Average of %D:	14.9

* Report these compds only.

7/19/11

USF83 1498

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/19/11

Lab File ID: 1P10200B.12R Time Analyzed: 10:52

Lab Standard ID: 508AMBV Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	69.96	83.32	-16.0
Hcb	2.89	2.87	2.91	6.65	8.04	-17.3
gamma-BHC (Lindane)	3.26	3.24	3.28	6.62	8.04	-17.6
Heptachlor	3.62	3.60	3.64	6.87	8.02	-14.4
Aldrin	3.90	3.89	3.93	7.08	8.04	-12.0
Heptachlor epoxide	4.40	4.38	4.42	7.36	8.02	-8.2
4,4'-DDE	4.80	4.78	4.82	18.47	20.00	-7.6
Dieldrin	4.93	4.91	4.95	7.40	8.04	-8.0
Endrin	5.16	5.14	5.18	6.98	8.04	-13.2
4,4'-DDD	5.24	5.22	5.26	17.91	20.00	-10.5
4,4'-DDT	5.46	5.44	5.48	18.22	20.00	-8.9
Endrin aldehyde	5.56	5.54	5.58	18.27	20.00	-8.7
Methoxychlor	5.94	5.92	5.96	71.24	80.40	-11.4
Endrin ketone	6.12	6.10	6.14	16.94	20.00	-15.3
Decachlorobiphenyl	6.90	6.88	6.92	72.85	83.40	-12.7

Average of %D: 12.1

* Report these compds only.

LL 7/19/11

USF03 1481

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/19/11

Lab File ID: 1P10200.23R Time Analyzed: 14:57

Lab Standard ID: ICTXXFU Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Toxaphene	5.36	5.31	5.38	431.55	500.50	-13.8
	5.38	5.35	5.42			
	5.58	5.55	5.62			
	5.77	5.74	5.81			
	5.83	5.80	5.87			
	6.08	6.05	6.12			
					Average of %D:	13.8

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/19/11

Lab File ID: 1P10200B.23R Time Analyzed: 14:57

Lab Standard ID: ICTXXFU Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Toxaphene	5.12	5.09	5.16	333.23	500.50	-33.4
	5.38	5.34	5.41			
	5.56	5.53	5.60			
	5.71	5.71	5.78			
	5.91	5.88	5.95			
	5.95	5.92	5.99			
					Average of %D:	33.4

USF03 1483

7D

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/25/11 07/26/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/25/11

Lab File ID: 1P10206.05R Time Analyzed: 22:43

Lab Standard ID: PEMAA Initial Calibration: 1P10206

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.61	2.59	2.63	18.88	20.00	-5.6
alpha-BHC	3.02	3.00	3.04	10.80	10.00	8.0
gamma-BHC (Lindane)	3.27	3.25	3.29	9.40	10.00	-6.0
beta-BHC	3.33	3.31	3.35	7.76	10.00	-22.4
4,4'-DDE	4.70	4.69	4.73	0.34		
Endrin	5.13	5.11	5.15	41.15	50.00	-17.7
4,4'-DDT	5.37	5.35	5.39	92.21	100.00	-7.8
Endrin aldehyde	5.60	5.58	5.62	0.95		
Methoxychlor	5.71	5.69	5.73	232.54	250.80	-7.3
Endrin ketone	6.09	6.07	6.11	2.46		
Decachlorobiphenyl	6.73	6.71	6.75	18.29	20.00	-8.6

4'4-DDT % breakdown:0.5 Endrin % breakdown: 7.2 Combined % breakdown:7.7

USF83 1484

7D

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/25/11 07/26/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/25/11

Lab File ID: 1P10206B.05R Time Analyzed: 22:43

Lab Standard ID: PEMAA Initial Calibration: 1P10206B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.55	2.54	2.58	18.27	20.00	-8.7
alpha-BHC	2.99	2.97	3.01	8.69	10.00	-13.1
gamma-BHC (Lindane)	3.26	3.24	3.28	9.51	10.00	-4.9
beta-BHC	3.32	3.30	3.34	7.43	10.00	-25.7
4,4'-DDE	4.80	4.78	4.82	0.39		
Endrin	5.16	5.14	5.18	38.71	50.00	-22.6
4,4'-DDD	5.24	5.22	5.26	1.16		
4,4'-DDT	5.47	5.45	5.49	83.05	100.00	-16.9
Endrin aldehyde	5.56	5.54	5.58	1.19		
Methoxychlor	5.94	5.92	5.96	199.20	250.80	-20.6
Endrin ketone	6.12	6.10	6.14	3.08		
Decachlorobiphenyl	6.90	6.88	6.92	17.39	20.00	-13.1

4'4-DDT % breakdown:2.3 Endrin % breakdown: 7.7 Combined % breakdown: 10

USF03 1485

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/25/11 07/26/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/26/11

Lab File ID: 1P10206.11R Time Analyzed: 0:15

Lab Standard ID: ICMAXAA Initial Calibration: 1P10206

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.61	2.59	2.63	18.57	20.04	-7.3
alpha-BHC	3.02	3.00	3.04	10.99	10.00	9.9
gamma-BHC (Lindane)	3.27	3.25	3.29	8.83	10.00	-11.7
beta-BHC	3.33	3.31	3.35	8.78	10.00	-12.2
delta-BHC	3.48	3.46	3.50	9.28	10.00	-7.2
Heptachlor	3.66	3.64	3.68	9.13	10.00	-8.7
Aldrin	3.92	3.90	3.94	9.42	10.00	-5.8
Heptachlor epoxide	4.44	4.42	4.46	9.38	10.00	-6.2
gamma-Chlordane	4.55	4.52	4.58	9.45	10.00	-5.5
alpha-Chlordane	4.65	4.63	4.67	9.61	10.00	-3.9
4,4'-DDE	4.71	4.69	4.73	19.19	20.00	-4.0
Endosulfan I	4.77	4.75	4.79	9.60	10.00	-4.0
Dieldrin	4.95	4.93	4.97	18.69	20.00	-6.5
Endrin	5.13	5.11	5.15	18.47	20.00	-7.7
4,4'-DDD	5.17	5.15	5.19	18.19	20.00	-9.0
Endosulfan II	5.30	5.28	5.32	20.12	20.00	0.6
4,4'-DDT	5.37	5.35	5.39	18.75	20.00	-6.2
Endrin aldehyde	5.60	5.58	5.62	15.43	20.00	-22.9
Methoxychlor	5.71	5.69	5.73	90.76	100.00	-9.2
Endosulfan sulfate	5.90	5.88	5.92	19.39	20.00	-3.0
Endrin ketone	6.09	6.07	6.11	17.98	20.00	-10.1
Decachlorobiphenyl	6.73	6.71	6.75	38.34	40.00	-4.1
					Average of %D:	7.5

USF63 1486

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/25/11 07/26/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/26/11

Lab File ID: 1P10206B.11R Time Analyzed: 0:15

Lab Standard ID: ICMAXAA Initial Calibration: 1P10206B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	18.92	20.04	-5.6
alpha-BHC	2.99	2.97	3.01	9.20	10.00	-8.0
gamma-BHC (Lindane)	3.26	3.24	3.28	8.95	10.00	-10.5
beta-BHC	3.32	3.30	3.34	8.94	10.00	-10.6
delta-BHC	3.57	3.55	3.59	9.06	10.00	-9.4
Heptachlor	3.62	3.60	3.64	8.89	10.00	-11.1
Aldrin	3.91	3.88	3.92	8.94	10.00	-10.6
Heptachlor epoxide	4.40	4.38	4.42	9.14	10.00	-8.6
alpha-Chlordane	4.68	4.65	4.69	9.05	10.00	-9.5
Endosulfan I	4.72	4.70	4.74	9.43	10.00	-5.7
4,4'-DDE	4.81	4.78	4.82	19.20	20.00	-4.0
Dieldrin	4.93	4.91	4.95	18.93	20.00	-5.3
Endrin	5.16	5.14	5.18	17.56	20.00	-12.2
4,4'-DDD	5.24	5.22	5.26	17.42	20.00	-12.9
Endosulfan II	5.32	5.30	5.34	19.17	20.00	-4.1
4,4'-DDT	5.47	5.45	5.49	18.52	20.00	-7.4
Endrin aldehyde	5.56	5.54	5.58	15.15	20.00	-24.2
Endosulfan sulfate	5.75	5.73	5.77	18.83	20.00	-5.9
Methoxychlor	5.94	5.92	5.96	91.83	100.00	-8.2
Endrin ketone	6.12	6.10	6.14	17.75	20.00	-11.3
Decachlorobiphenyl	6.90	6.88	6.92	38.08	40.00	-4.8
					Average of %D:	9.0

gamma chlordane 9.21 10 -7.9

USF03 1487

7D
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11

GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/14/11

Lab File ID: 3P6193.35R Time Analyzed: 22:01

Lab Standard ID: PEMSF Initial Calibration: 1P6193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	3.19	3.17	3.22	22.74	20.00	13.7
alpha-BHC	3.49	3.46	3.51	10.53	10.00	5.3
gamma-BHC (Lindane)	3.69	3.67	3.72	10.78	10.00	7.8
beta-BHC	3.82	3.80	3.85	9.40	10.00	-6.0
4,4'-DDE	4.96	4.94	4.99	0.48		
Endrin	5.26	5.24	5.29	38.23	50.00	-23.5
4,4'-DDD	5.36	5.34	5.39	5.06		
Endrin aldehyde	5.53	5.51	5.56	2.09		
4,4'-DDT	5.60	5.57	5.62	90.65	100.00	-9.4
Methoxychlor	5.95	5.93	5.98	258.43	250.80	3.0
Endrin ketone	6.07	6.05	6.10	5.21		
Decachlorobiphenyl	7.03	7.01	7.06	24.28	20.00	21.4

4'4-DDT % breakdown: 4.9 Endrin % breakdown: 12.1 Combined % breakdown: 17

US783 E488

7D
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/14/11

Lab File ID: 3P6193B.35R Time Analyzed: 22:01

Lab Standard ID: PEMSF Initial Calibration: 1P6193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.96	2.94	2.98	21.10	20.00	5.5
alpha-BHC	3.31	3.30	3.34	8.97	10.00	-10.3
gamma-BHC (Lindane)	3.53	3.51	3.55	9.78	10.00	-2.2
beta-BHC	3.71	3.69	3.73	8.73	10.00	-12.7
4,4'-DDE	4.60	4.59	4.63	1.82		
Endrin	4.94	4.91	4.96	40.51	50.00	-19.0
4,4'-DDD	5.02	5.00	5.05	4.27		
4,4'-DDT	5.22	5.19	5.24	86.98	100.00	-13.0
Endrin aldehyde	5.29	5.27	5.32	1.84		
Methoxychlor	5.65	5.62	5.67	203.41	250.80	-18.9
Endrin ketone	5.85	5.83	5.88	3.27		
Decachlorobiphenyl	6.63	6.61	6.65	19.66	20.00	-1.7

4'4-DDT % breakdown: 5.1 Endrin % breakdown: 9.7 Combined % breakdown: 14.8

USF63 1489

FORM VII-1

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11
GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/14/11
Lab File ID: 3P6193.36R Time Analyzed: 22:13
Lab Standard ID: MIXA3MV Initial Calibration: 1P6193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.19	3.17	3.22	42.98	41.66	3.2
alpha-BHC	3.48	3.46	3.51	10.69	10.00	6.9
gamma-BHC (Lindane)	3.69	3.67	3.72	10.59	10.00	5.9
beta-BHC	3.82	3.80	3.85	9.92	10.00	-0.8
delta-BHC	3.98	3.95	4.01	10.95	10.00	9.5
Heptachlor	4.06	4.04	4.09	10.78	10.00	7.8
Aldrin	4.29	4.27	4.32	10.33	10.00	3.3
Heptachlor epoxide	4.59	4.57	4.62	10.14	10.00	1.4
gamma-Chlordane	4.77	4.75	4.80	10.22	10.00	2.2
alpha-Chlordane	4.83	4.80	4.87	10.11	10.00	1.0
Endosulfan I	4.87	4.85	4.90	10.10	10.00	1.0
4,4'-DDE	4.96	4.94	4.99	21.77	20.00	8.8
Dieldrin	5.08	5.06	5.11	21.27	20.00	6.3
Endrin	5.26	5.24	5.29	16.89	20.00	-15.6
4,4'-DDD	5.36	5.34	5.39	22.77	20.01	13.8
Endosulfan II	5.43	5.41	5.46	22.47	20.00	12.4
Endrin aldehyde	5.53	5.51	5.56	23.45	20.03	17.1
4,4'-DDT	5.59	5.57	5.62	18.99	20.02	-5.1
Endosulfan sulfate	5.70	5.68	5.73	21.82	20.00	9.1
Methoxychlor	5.95	5.93	5.98	102.74	100.00	2.7
Endrin ketone	6.07	6.05	6.10	22.83	20.01	14.1
Decachlorobiphenyl	7.03	7.01	7.06	45.31	41.70	8.7
					Average of %D:	7.1

USP83 1498

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/14/11

Lab File ID: 3P6193B.36R Time Analyzed: 22:13

Lab Standard ID: MIXA3MV Initial Calibration: 1P6193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.95	2.94	2.98	40.77	41.66	-2.1
alpha-BHC	3.31	3.30	3.34	9.87	10.00	-1.3
gamma-BHC (Lindane)	3.53	3.51	3.55	9.63	10.00	-3.7
beta-BHC	3.71	3.69	3.73	9.38	10.00	-6.2
Heptachlor	3.75	3.73	3.78	9.59	10.00	-4.1
delta-BHC	3.87	3.85	3.89	10.10	10.00	1.0
Aldrin	3.94	3.92	3.96	9.65	10.00	-3.5
Heptachlor epoxide	4.27	4.25	4.30	9.42	10.00	-5.8
gamma-Chlordane	4.44	4.42	4.47	9.33	10.00	-6.7
alpha-Chlordane	4.49	4.47	4.51	9.11	10.00	-8.9
Endosulfan I	4.53	4.52	4.56	9.23	10.00	-7.7
4,4'-DDE	4.60	4.59	4.63	14.84	20.00	-25.8
Dieldrin	4.73	4.70	4.76	18.93	20.00	-5.4
Endrin	4.93	4.91	4.96	17.58	20.00	-12.1
4,4'-DDD	5.02	5.00	5.05	20.76	20.01	3.8
Endosulfan II	5.15	5.13	5.18	19.82	20.00	-0.9
4,4'-DDT	5.21	5.19	5.24	17.94	20.02	-10.4
Endrin aldehyde	5.29	5.27	5.32	21.16	20.03	5.6
Endosulfan sulfate	5.46	5.43	5.48	20.96	20.00	4.8
Methoxychlor	5.64	5.62	5.67	92.73	100.00	-7.3
Endrin ketone	5.85	5.83	5.88	20.94	20.01	4.6
Decachlorobiphenyl	6.63	6.61	6.65	39.35	41.70	-5.6
					Average of %D:	6.2

USF63 1491

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11

GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/14/11

Lab File ID: 3P6193.37R Time Analyzed: 22:26

Lab Standard ID: MIXE3UJ Initial Calibration: 1P6193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.19	3.17	3.22	22.62	20.83	8.6
Hcb	3.51	3.49	3.54	5.07	5.00	1.5
Telodrin	4.35	4.33	4.37	9.71	5.00	94.1
o,p-DDE	4.70	4.68	4.72	9.85	10.00	-1.5
o,p-DDD	5.04	5.02	5.07	9.97	10.00	-0.3
o,p-DDT	5.28	5.26	5.30	8.62	10.00	-13.8
Kepone	5.47	5.45	5.49	24.11	50.00	-51.8
Mirex	6.41	6.39	6.43	24.58	25.00	-1.7
Decachlorobiphenyl	7.03	7.01	7.06	23.04	20.85	10.5
					Average of %D:	20.4

=report only

USF03 1492

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/14/11

Lab File ID: 3P6193B.37R Time Analyzed: 22:26

Lab Standard ID: MIXE3UJ Initial Calibration: 1P6193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.96	2.94	2.98	21.01	20.83	0.9
Hcb	3.28	3.26	3.30	4.66	5.00	-6.7
Telodrin	4.01	3.98	4.03	4.65	5.00	-7.0
o,p-DDE	4.39	4.37	4.41	9.47	10.00	-5.3
o,p-DDT	4.92	4.90	4.94	8.73	10.00	-12.7
Kepone	5.04	5.02	5.06	24.29	50.00	-51.4
Mirex	6.00	5.97	6.02	22.61	25.00	-9.6
Decachlorobiphenyl	6.63	6.61	6.65	20.69	20.85	-0.8

Average of %D: ~~11.8~~ ~~10.~~ 11.0

Reportonly @2nd col 7/15/14

op DD D 9.57 10.00 -4.3

7/15/14

USP03 1493

FORM VII

7D
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11

GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 3P6193.47R Time Analyzed: 0:33

Lab Standard ID: PEMSG Initial Calibration: 1P6193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	3.19	3.17	3.22	22.99	20.00	15.0
alpha-BHC	3.48	3.46	3.51	10.54	10.00	5.4
gamma-BHC (Lindane)	3.69	3.67	3.72	10.77	10.00	7.7
beta-BHC	3.82	3.80	3.85	9.36	10.00	-6.4
4,4'-DDE	4.96	4.94	4.99	0.49		
Endrin	5.26	5.24	5.29	32.54	50.00	-34.9
4,4'-DDD	5.36	5.34	5.39	5.72		
Endrin aldehyde	5.53	5.51	5.56	2.29		
4,4'-DDT	5.59	5.57	5.62	88.97	100.00	-11.0
Methoxychlor	5.95	5.93	5.98	254.58	250.80	1.5
Endrin ketone	6.07	6.05	6.10	5.75		
Decachlorobiphenyl	7.03	7.01	7.06	23.47	20.00	17.4

4'4-DDT % breakdown: 5.5 Endrin % breakdown: 15.2 Combined % breakdown: 20.7

USF03 1494

FORM VII-1

7D

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 3P6193B.47R Time Analyzed: 0:33

Lab Standard ID: PEMSG Initial Calibration: 1P6193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.95	2.94	2.98	21.81	20.00	9.0
alpha-BHC	3.31	3.30	3.34	9.42	10.00	-5.8
gamma-BHC (Lindane)	3.53	3.51	3.55	10.06	10.00	0.6
beta-BHC	3.71	3.69	3.73	9.00	10.00	-10.0
4,4'-DDE	4.60	4.59	4.63	1.79		
Endrin	4.93	4.91	4.96	40.79	50.00	-18.4
4,4'-DDD	5.02	5.00	5.05	5.05		
4,4'-DDT	5.21	5.19	5.24	88.90	100.00	-11.1
Endrin aldehyde	5.29	5.27	5.32	2.09		
Methoxychlor	5.64	5.62	5.67	203.90	250.80	-18.7
Endrin ketone	5.85	5.83	5.88	4.20		
Decachlorobiphenyl	6.63	6.61	6.65	20.67	20.00	3.3

4'4-DDT % breakdown: 5.7 Endrin % breakdown: 11.7 Combined % breakdown: 17.4

USF03 1495

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11

GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 3P6193.48R Time Analyzed: 0:45

Lab Standard ID: MIXA3MY Initial Calibration: 1P6193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.19	3.17	3.22	43.22	41.66	3.7
alpha-BHC	3.49	3.46	3.51	10.57	10.00	5.7
gamma-BHC (Lindane)	3.69	3.67	3.72	10.47	10.00	4.7
beta-BHC	3.82	3.80	3.85	10.10	10.00	1.0
delta-BHC	3.98	3.95	4.01	11.00	10.00	10.0
Heptachlor	4.06	4.04	4.09	10.52	10.00	5.2
Aldrin	4.29	4.27	4.32	10.29	10.00	2.9
Heptachlor epoxide	4.59	4.57	4.62	10.18	10.00	1.8
gamma-Chlordane	4.78	4.75	4.80	10.12	10.00	1.2
alpha-Chlordane	4.83	4.80	4.87	9.78	10.00	-2.2
Endosulfan I	4.88	4.85	4.90	10.04	10.00	0.4
4,4'-DDE	4.96	4.94	4.99	20.69	20.00	3.5
Dieldrin	5.08	5.06	5.11	20.99	20.00	5.0
Endrin	5.26	5.24	5.29	17.23	20.00	-13.8
4,4'-DDD	5.36	5.34	5.39	21.85	20.01	9.2
Endosulfan II	5.43	5.41	5.46	21.94	20.00	9.7
Endrin aldehyde	5.53	5.51	5.56	22.98	20.03	14.7
4,4'-DDT	5.60	5.57	5.62	18.34	20.02	-8.4
Endosulfan sulfate	5.71	5.68	5.73	21.16	20.00	5.8
Methoxychlor	5.95	5.93	5.98	96.26	100.00	-3.7
Endrin ketone	6.07	6.05	6.10	22.66	20.01	13.2
Decachlorobiphenyl	7.03	7.01	7.06	43.55	41.70	4.4
					Average of %D:	5.9

USF83 1496

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 3P6193B.48R Time Analyzed: 0:45

Lab Standard ID: MIXA3MY Initial Calibration: 1P6193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.96	2.94	2.98	41.70	41.66	0.1
alpha-BHC	3.32	3.30	3.34	9.83	10.00	-1.7
gamma-BHC (Lindane)	3.53	3.51	3.55	9.75	10.00	-2.5
beta-BHC	3.71	3.69	3.73	9.42	10.00	-5.8
Heptachlor	3.75	3.73	3.78	9.59	10.00	-4.1
delta-BHC	3.87	3.85	3.89	10.07	10.00	0.7
Aldrin	3.94	3.92	3.96	10.01	10.00	0.1
Heptachlor epoxide	4.27	4.25	4.30	9.50	10.00	-5.0
gamma-Chlordane	4.44	4.42	4.47	9.43	10.00	-5.7
alpha-Chlordane	4.49	4.47	4.51	9.62	10.00	-3.8
Endosulfan I	4.54	4.52	4.56	9.50	10.00	-5.0
4,4'-DDE	4.61	4.59	4.63	16.72	20.00	-16.4
Dieldrin	4.73	4.70	4.76	19.24	20.00	-3.8
Endrin	4.94	4.91	4.96	17.20	20.00	-14.0
4,4'-DDD	5.02	5.00	5.05	20.97	20.01	4.8
Endosulfan II	5.15	5.13	5.18	20.40	20.00	2.0
4,4'-DDT	5.22	5.19	5.24	17.47	20.02	-12.7
Endrin aldehyde	5.29	5.27	5.32	21.21	20.03	5.9
Endosulfan sulfate	5.46	5.43	5.48	21.04	20.00	5.2
Methoxychlor	5.65	5.62	5.67	88.76	100.00	-11.2
Endrin ketone	5.85	5.83	5.88	21.15	20.01	5.7
Decachlorobiphenyl	6.63	6.61	6.65	39.45	41.70	-5.4

Average of %D: 5.5

USF03 1497

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: S9147A Init. Calib Date(s): 07/12/11 07/13/11
GC Column (1) : RTX CLP ID: .32 (mm) Date Analyzed: 07/15/11
Lab File ID: 3P6193.49R Time Analyzed: 0:58
Lab Standard ID: MIXE3UK Initial Calibration: 1P6193

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.19	3.17	3.22	22.04	20.83	5.8
Hcb	3.51	3.49	3.54	4.99	5.00	-0.2
Telodrin	4.35	4.33	4.37	9.52	5.00	90.4
o,p-DDE	4.70	4.68	4.72	9.50	10.00	-5.0
o,p-DDD	5.04	5.02	5.07	10.00	10.00	0
o,p-DDT	5.28	5.26	5.30	7.88	10.00	-21.2
Kepone	5.47	5.45	5.49	24.31	50.00	-51.4
Mirex	6.41	6.39	6.43	23.91	25.00	-4.4 - report only
Decachlorobiphenyl	7.03	7.01	7.06	22.20	20.85	6.5
					Average of %D:	20.5

USF93 1498

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: S9147B Init. Calib Date(s): 07/12/11 07/13/11

GC Column (2) : RTX CLPII ID: .32 (mm) Date Analyzed: 07/15/11

Lab File ID: 3P6193B.49R Time Analyzed: 0:58

Lab Standard ID: MIXE3UK Initial Calibration: 1P6193B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.96	2.94	2.98	21.28	20.83	2.2
Hcb	3.28	3.26	3.30	4.75	5.00	-5.0
Telodrin	4.01	3.98	4.03	4.69	5.00	-6.1
o,p-DDE	4.39	4.37	4.41	9.47	10.00	-5.3
o,p-DDT	4.92	4.90	4.94	8.35	10.00	-16.5
Kepone	5.04	5.02	5.06	27.38	50.00	-45.2
Mirex	6.00	5.97	6.02	22.87	25.00	-8.5
Decachlorobiphenyl	6.63	6.61	6.65	20.07	20.85	-3.7

Average of %D: ~~11.6~~ 10.6

op DDD 9.73 10.00 -2.7

7/15/11

USF03 1899

FORM VII

7D

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200.62R Time Analyzed: 3:25

Lab Standard ID: PEMSK Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	13.62	20.00	-31.9
alpha-BHC	3.02	3.00	3.04	7.04	10.00	-29.6
gamma-BHC (Lindane)	3.27	3.25	3.29	6.94	10.00	-30.6
beta-BHC	3.33	3.31	3.35	5.93	10.00	-40.7
4,4'-DDE	4.71	4.69	4.73	0.30		
Endrin	5.13	5.11	5.15	38.41	50.00	-23.2
4,4'-DDT	5.37	5.35	5.39	86.55	100.00	-13.5
Endrin aldehyde	5.60	5.58	5.62	8.79		
Methoxychlor	5.71	5.69	5.73	200.38	250.80	-20.1
Endrin ketone	6.09	6.08	6.12	5.00		
Decachlorobiphenyl	6.73	6.71	6.75	17.30	20.00	-13.5

4'4-DDT % breakdown:0.5 Endrin % breakdown: 24.1 Combined % breakdown:24.6

USF03 1588

FORM VII-1

7D

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.62R Time Analyzed: 3:25

Lab Standard ID: PEMSK Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	13.49	20.00	-32.5
alpha-BHC	2.99	2.97	3.01	6.40	10.00	-36.0
gamma-BHC (Lindane)	3.26	3.24	3.28	6.42	10.00	-35.8
beta-BHC	3.32	3.30	3.34	6.51	10.00	-34.9
4,4'-DDE	4.80	4.78	4.82	0.12		
Endrin	5.16	5.14	5.18	34.17	50.00	-31.7
4,4'-DDD	5.24	5.22	5.26	1.72		
4,4'-DDT	5.46	5.44	5.48	64.69	100.00	-35.3
Endrin aldehyde	5.56	5.54	5.58	3.05		
Methoxychlor	5.94	5.92	5.96	149.50	250.80	-40.4
Endrin ketone	6.12	6.10	6.14	2.86		
Decachlorobiphenyl	6.89	6.88	6.92	13.86	20.00	-30.7

4'4-DDT % breakdown:3.4 Endrin % breakdown: 11.2 Combined % breakdown:14.6

USF83 1581

FORM VII-1

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200.63R Time Analyzed: 3:41

Lab Standard ID: MIXA3NB Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	26.91	41.66	-35.4
alpha-BHC	3.02	3.00	3.04	6.17	10.00	-38.3
gamma-BHC (Lindane)	3.27	3.25	3.29	5.62	10.00	-43.8
beta-BHC	3.33	3.31	3.35	4.93	10.00	-50.7
delta-BHC	3.48	3.46	3.50	6.59	10.00	-34.1
Heptachlor	3.66	3.64	3.68	7.17	10.00	-28.3
Aldrin	3.93	3.91	3.95	7.40	10.00	-26.0
Heptachlor epoxide	4.45	4.43	4.47	8.86	10.00	-11.4
gamma-Chlordane	4.55	4.52	4.58	8.68	10.00	-13.2
alpha-Chlordane	4.66	4.64	4.68	8.51	10.00	-14.9
4,4'-DDE	4.71	4.69	4.73	18.12	20.00	-9.4
Endosulfan I	4.77	4.75	4.79	8.18	10.00	-18.2
Dieldrin	4.95	4.93	4.97	14.24	20.00	-28.8
Endrin	5.13	5.11	5.15	16.42	20.01	-17.9
4,4'-DDD	5.17	5.15	5.19	17.99	20.01	-10.1
Endosulfan II	5.30	5.28	5.32	20.30	20.00	1.5
4,4'-DDT	5.37	5.35	5.39	17.31	20.03	-13.6
Endrin aldehyde	5.60	5.58	5.62	17.26	20.03	-13.8
Methoxychlor	5.71	5.69	5.73	95.31	100.00	-4.7
Endosulfan sulfate	5.90	5.88	5.92	19.38	20.00	-3.1
Endrin ketone	6.10	6.08	6.12	18.45	20.01	-7.8
Decachlorobiphenyl	6.73	6.71	6.75	37.87	41.70	-9.2

Average of %D: 19.7

USF03 1592

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.63R Time Analyzed: 3:41

Lab Standard ID: MIXA3NB Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	37.10	41.66	-11.0
alpha-BHC	2.99	2.97	3.01	8.61	10.00	-13.9
gamma-BHC (Lindane)	3.26	3.24	3.28	8.81	10.00	-11.9
beta-BHC	3.32	3.30	3.34	8.90	10.00	-11.0
delta-BHC	3.57	3.55	3.59	9.44	10.00	-5.6
Heptachlor	3.62	3.60	3.64	9.26	10.00	-7.4
Aldrin	3.91	3.89	3.93	8.89	10.00	-11.1
Heptachlor epoxide	4.40	4.38	4.42	9.36	10.00	-6.4
alpha-Chlordane	4.67	4.65	4.69	9.12	10.00	-8.8
Endosulfan I	4.72	4.70	4.74	9.61	10.00	-3.9
4,4'-DDE	4.80	4.78	4.82	19.93	20.00	-0.3
Dieldrin	4.93	4.91	4.95	17.03	20.00	-14.9
Endrin	5.16	5.14	5.18	15.00	20.01	-25.0
4,4'-DDD	5.24	5.22	5.26	15.29	20.01	-23.6
Endosulfan II	5.32	5.30	5.34	16.01	20.00	-20.0
4,4'-DDT	5.47	5.44	5.48	15.88	20.03	-20.7
Endrin aldehyde	5.56	5.54	5.58	17.48	20.03	-12.7
Endosulfan sulfate	5.75	5.73	5.77	18.30	20.00	-8.5
Methoxychlor	5.94	5.92	5.96	98.87	100.00	-1.1
Endrin ketone	6.12	6.10	6.14	18.83	20.01	-5.9
Decachlorobiphenyl	6.89	6.88	6.92	40.45	41.70	-3.0
					Average of %D:	10.8

USF03 1563

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200.64R Time Analyzed: 3:56

Lab Standard ID: MIXE3UL Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	16.11	20.83	-22.7
Hcb	2.90	2.88	2.92	4.39	5.00	-12.3
Telodrin	4.11	4.10	4.14	4.82	5.00	-3.6
o,p-DDE	4.43	4.42	4.46	9.99	10.00	-0.1
o,p-DDD	4.85	4.83	4.87	10.11	10.00	1.1
o,p-DDT	5.04	5.03	5.07	9.72	10.00	-2.8
Kepone	5.16	5.15	5.19	54.15	50.00	8.3
Mirex	5.83	5.82	5.86	23.43	25.00	-6.3
Decachlorobiphenyl	6.73	6.71	6.75	20.17	20.85	-3.3
					Average of %D:	6.7

USF03 1584

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.64R Time Analyzed: 3:56

Lab Standard ID: MIXE3UL Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	15.52	20.83	-25.5
Hcb	2.89	2.87	2.91	3.83	5.00	-23.4
Telodrin	4.05	4.03	4.07	4.43	5.00	-11.3
o,p-DDE	4.56	4.54	4.58	9.38	10.00	-6.2
o,p-DDD	4.96	4.94	4.98	9.73	10.00	-2.7
o,p-DDT	5.19	5.17	5.21	9.23	10.00	-7.7
Kepone	5.24	5.23	5.27	53.79	50.00	7.6
Mirex	6.09	6.07	6.11	23.61	25.00	-5.6
Decachlorobiphenyl	6.89	6.88	6.92	20.12	20.85	-3.5

Average of %D: 10.4

USF63 1585

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200.65R Time Analyzed: 4:12

Lab Standard ID: TOXA3FD Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Toxaphene	5.34	5.31	5.38	508.04	500.00	1.6
	5.38	5.35	5.42			
	5.58	5.55	5.62			
	5.77	5.74	5.81			
	5.83	5.80	5.87			
	6.08	6.05	6.12			
					Average of %D:	1.6

USF03 1596

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.65R Time Analyzed: 4:12

Lab Standard ID: TOXA3FD Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Toxaphene	5.12	5.09	5.16	490.26	500.00	-1.9
	5.38	5.34	5.41			
	5.56	5.53	5.60			
	5.74	5.71	5.78			
	5.92	5.88	5.95			
	5.95	5.92	5.99			

Average of %D: 1.9

USF83 1587

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200.66R Time Analyzed: 4:27

Lab Standard ID: CHLD3HE Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	38.00	41.66	-8.8
Decachlorobiphenyl	6.73	6.71	6.75	36.62	41.70	-12.2
Chlordane (Technical)	3.59	3.56	3.63	101.37	100.30	1.1
	3.66	3.63	3.70			
	4.04	4.01	4.08			
	4.55	4.52	4.59			
	4.65	4.62	4.69			
	5.25	5.22	5.29			

Average of %D: 7.4

USF93 1588

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.66R Time Analyzed: 4:27

Lab Standard ID: CHLD3HE Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	38.81	41.66	-6.9
Decachlorobiphenyl	6.90	6.88	6.92	40.21	41.70	-3.6
Chlordane (Technical)	3.50	3.47	3.54	97.48	100.30	-2.8
	3.62	3.59	3.66			
	4.03	4.00	4.07			
	4.56	4.52	4.59			
	4.63	4.60	4.67			
	4.67	4.64	4.71			

Average of %D: 4.4

USF03 2589

FORM VII

7D
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200.81R Time Analyzed: 8:42

Lab Standard ID: PEMSL Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	18.70	20.00	-6.5
alpha-BHC	3.02	3.00	3.04	8.94	10.00	-10.6
gamma-BHC (Lindane)	3.27	3.25	3.29	9.11	10.00	-8.9
beta-BHC	3.33	3.31	3.35	7.79	10.00	-22.1
4,4'-DDE	4.71	4.69	4.73	0.63		
Endrin	5.13	5.11	5.15	44.35	50.00	-11.3
4,4'-DDT	5.37	5.35	5.39	98.94	100.00	-1.1
Endrin aldehyde	5.60	5.58	5.62	0.49		
Methoxychlor	5.71	5.69	5.73	232.96	250.80	-7.1
Endrin ketone	6.09	6.08	6.12	2.43		
Decachlorobiphenyl	6.73	6.71	6.75	19.15	20.00	-4.2

4'4-DDT % breakdown:0.9 Endrin % breakdown: 6.2 Combined % breakdown:7.1

03F03 1518

7D
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.81R Time Analyzed: 8:42

Lab Standard ID: PEMSL Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	21.02	20.00	5.1
alpha-BHC	2.99	2.97	3.01	9.18	10.00	-8.2
gamma-BHC (Lindane)	3.26	3.24	3.28	9.44	10.00	-5.6
beta-BHC	3.32	3.30	3.34	8.55	10.00	-14.5
4,4'-DDE	4.81	4.78	4.82	0.26		
Endrin	5.16	5.14	5.18	38.08	50.00	-23.8
4,4'-DDD	5.24	5.22	5.26	2.12		
4,4'-DDT	5.47	5.44	5.48	88.18	100.00	-11.8
Endrin aldehyde	5.56	5.54	5.58	0.57		
Methoxychlor	5.94	5.92	5.96	193.55	250.80	-22.8
Endrin ketone	6.12	6.10	6.14	2.31		
Decachlorobiphenyl	6.89	6.88	6.92	18.27	20.00	-8.7

4'4-DDT % breakdown:3.3 Endrin % breakdown: 5.4 Combined % breakdown:8.7

USF83 1511

FORM VII-1

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200.82R Time Analyzed: 8:57

Lab Standard ID: MIXA3NC Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	36.01	41.66	-13.6
alpha-BHC	3.02	3.00	3.04	8.90	10.00	-11.0
gamma-BHC (Lindane)	3.27	3.25	3.29	8.66	10.00	-13.4
beta-BHC	3.33	3.31	3.35	8.09	10.00	-19.1
delta-BHC	3.48	3.46	3.50	9.23	10.00	-7.7
Heptachlor	3.66	3.64	3.68	9.29	10.00	-7.1
Aldrin	3.92	3.91	3.95	9.03	10.00	-9.7
Heptachlor epoxide	4.45	4.43	4.47	8.72	10.00	-12.8
gamma-Chlordane	4.55	4.52	4.58	8.46	10.00	-15.4
alpha-Chlordane	4.66	4.64	4.68	8.52	10.00	-14.8
4,4'-DDE	4.71	4.69	4.73	17.35	20.00	-13.3
Endosulfan I	4.77	4.75	4.79	8.12	10.00	-18.8
Dieldrin	4.95	4.93	4.97	16.19	20.00	-19.0
Endrin	5.13	5.11	5.15	17.55	20.01	-12.3
Endosulfan II	5.30	5.28	5.32	19.92	20.00	-0.4
4,4'-DDT	5.37	5.35	5.39	17.03	20.03	-15.0
Endrin aldehyde	5.60	5.58	5.62	18.04	20.03	-9.9
Methoxychlor	5.71	5.69	5.73	89.56	100.00	-10.4
Endosulfan sulfate	5.90	5.88	5.92	18.52	20.00	-7.4
Endrin ketone	6.10	6.08	6.12	17.91	20.01	-10.5
Decachlorobiphenyl	6.73	6.71	6.75	36.71	41.70	-12.0
					Average of %D:	12.1

USF03 1512

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.82R Time Analyzed: 8:57

Lab Standard ID: MIXA3NC Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	40.24	41.66	-3.4
alpha-BHC	2.99	2.97	3.01	9.24	10.00	-7.6
gamma-BHC (Lindane)	3.26	3.24	3.28	9.07	10.00	-9.3
beta-BHC	3.32	3.30	3.34	9.51	10.00	-4.9
delta-BHC	3.57	3.55	3.59	9.81	10.00	-1.9
Heptachlor	3.62	3.60	3.64	9.77	10.00	-2.3
Aldrin	3.91	3.89	3.93	9.37	10.00	-6.3
Heptachlor epoxide	4.40	4.38	4.42	9.32	10.00	-6.8
alpha-Chlordane	4.67	4.65	4.69	8.93	10.00	-10.7
Endosulfan I	4.72	4.70	4.74	9.31	10.00	-6.9
4,4'-DDE	4.80	4.78	4.82	18.99	20.00	-5.1
Dieldrin	4.93	4.91	4.95	17.40	20.00	-13.0
Endrin	5.16	5.14	5.18	16.83	20.01	-15.9
4,4'-DDD	5.24	5.22	5.26	17.51	20.01	-12.5
Endosulfan II	5.32	5.30	5.34	17.37	20.00	-13.1
4,4'-DDT	5.46	5.44	5.48	16.76	20.03	-16.3
Endrin aldehyde	5.56	5.54	5.58	17.94	20.03	-10.4
Endosulfan sulfate	5.75	5.73	5.77	18.44	20.00	-7.8
Methoxychlor	5.94	5.92	5.96	90.05	100.00	-9.9
Endrin ketone	6.12	6.10	6.14	18.12	20.01	-9.5
Decachlorobiphenyl	6.89	6.88	6.92	39.04	41.70	-6.4
					Average of %D:	8.6

USF03 1513

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200.83R Time Analyzed: 9:12

Lab Standard ID: MIXE3UM Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	16.49	20.83	-20.8
Hcb	2.90	2.88	2.92	4.37	5.00	-12.6
Telodrin	4.11	4.10	4.14	4.34	5.00	-13.3
o,p-DDE	4.43	4.42	4.46	9.09	10.00	-9.1
o,p-DDD	4.85	4.83	4.87	9.50	10.00	-5.0
o,p-DDT	5.04	5.03	5.07	9.06	10.00	-9.4
Kepone	5.16	5.15	5.19	55.72	50.00	11.4
Mirex	5.83	5.82	5.86	21.83	25.00	-12.7
Decachlorobiphenyl	6.73	6.71	6.75	17.53	20.85	-15.9
					Average of %D:	12.2

USF03 1514

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.83R Time Analyzed: 9:12

Lab Standard ID: MIXE3UM Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	16.17	20.83	-22.4
Hcb	2.89	2.87	2.91	4.01	5.00	-19.9
Telodrin	4.05	4.03	4.07	4.31	5.00	-13.7
o,p-DDE	4.56	4.54	4.58	8.89	10.00	-11.1
o,p-DDD	4.96	4.94	4.98	8.97	10.00	-10.3
o,p-DDT	5.19	5.17	5.21	8.65	10.00	-13.5
Kepone	5.25	5.23	5.27	55.89	50.00	11.8
Mirex	6.09	6.07	6.11	21.45	25.00	-14.2
Decachlorobiphenyl	6.89	6.88	6.92	18.06	20.85	-13.4

Average of %D: 14.5

USF03 1515

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200.84R Time Analyzed: 9:27

Lab Standard ID: TOXA3FE Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Toxaphene	5.34	5.31	5.38	498.50	500.00	-0.3
	5.38	5.35	5.42			
	5.58	5.55	5.62			
	5.77	5.74	5.81			
	5.83	5.80	5.87			
	6.08	6.05	6.12			

Average of %D: .3

USF93 1516

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.84R Time Analyzed: 9:27

Lab Standard ID: TOXA3FE Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Toxaphene	5.12	5.09	5.16	477.84	500.00	-4.4
	5.38	5.34	5.41			
	5.56	5.53	5.60			
	5.74	5.71	5.78			
	5.92	5.88	5.95			
	5.95	5.92	5.99			
					Average of %D:	4.4

USF03 1517

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H9191A Init. Calib Date(s): 07/19/11 07/19/11
GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/20/11
Lab File ID: 1P10200.85R Time Analyzed: 9:43
Lab Standard ID: CHLD3HF Initial Calibration: 1P10200

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.62	2.60	2.64	35.97	41.66	-13.7
Decachlorobiphenyl	6.73	6.71	6.75	39.22	41.70	-6.0
Chlordane (Technical)	3.59	3.56	3.63	98.05	100.30	-2.2
	3.66	3.63	3.70			
	4.04	4.01	4.08			
	4.55	4.52	4.59			
	4.65	4.62	4.69			
	5.25	5.22	5.29			

Average of %D: 7.3

USF03 1518

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/19/11 07/19/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/11

Lab File ID: 1P10200B.85R Time Analyzed: 9:43

Lab Standard ID: CHLD3HF Initial Calibration: 1P10200B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	35.92	41.66	-13.8
Decachlorobiphenyl	6.89	6.88	6.92	41.02	41.70	-1.6
Chlordane (Technical)	3.50	3.47	3.54	94.03	100.30	-6.2
	3.62	3.59	3.66			
	4.04	4.00	4.07			
	4.56	4.52	4.59			
	4.63	4.60	4.67			
	4.67	4.64	4.71			

Average of %D: 7.2

USF03 1519

7D

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/25/11 07/26/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/26/11

Lab File ID: 1P10206.47R Time Analyzed: 9:51

Lab Standard ID: PEMTQ Initial Calibration: 1P10206

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.61	2.59	2.63	19.70	20.00	-1.5
alpha-BHC	3.02	3.00	3.04	9.90	10.00	-1.0
gamma-BHC (Lindane)	3.27	3.25	3.29	8.94	10.00	-10.6
beta-BHC	3.33	3.31	3.35	7.64	10.00	-23.6
4,4'-DDE	4.71	4.69	4.73	0.39		
Endrin	5.13	5.11	5.15	42.85	50.00	-14.3
4,4'-DDT	5.37	5.35	5.39	99.69	100.00	-0.3
Endrin aldehyde	5.60	5.58	5.62	0.78		
Methoxychlor	5.71	5.69	5.73	236.15	250.80	-5.8
Endrin ketone	6.09	6.07	6.11	2.45		
Decachlorobiphenyl	6.73	6.71	6.75	20.81	20.00	4.1

4'4-DDT % breakdown:0.5 Endrin % breakdown: 6.6 Combined % breakdown:7.1

USF03 #528

7D
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/25/11 07/26/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/26/11

Lab File ID: 1P10206B.47R Time Analyzed: 9:51

Lab Standard ID: PEMTQ Initial Calibration: 1P10206B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ng/ml)	NOM AMOUNT (ng/ml)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	21.48	20.00	7.4
alpha-BHC	2.99	2.97	3.01	9.61	10.00	-3.9
gamma-BHC (Lindane)	3.26	3.24	3.28	9.91	10.00	-0.9
beta-BHC	3.32	3.30	3.34	8.47	10.00	-15.3
4,4'-DDE	4.80	4.78	4.82	0.38		
Endrin	5.16	5.14	5.18	43.41	50.00	-13.2
4,4'-DDD	5.24	5.22	5.26	1.96		
4,4'-DDT	5.47	5.45	5.49	95.99	100.00	-4.0
Endrin aldehyde	5.56	5.54	5.58	1.06		
Methoxychlor	5.94	5.92	5.96	224.02	250.80	-10.7
Endrin ketone	6.12	6.10	6.14	2.82		
Decachlorobiphenyl	6.90	6.88	6.92	20.75	20.00	3.7

4'4-DDT % breakdown:2.9 Endrin % breakdown: 6.3 Combined % breakdown: 9.2

USF03 1521

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191A Init. Calib Date(s): 07/25/11 07/26/11

GC Column (1) : RTX-CLP ID: .32 (mm) Date Analyzed: 07/26/11

Lab File ID: 1P10206.48R Time Analyzed: 10:06

Lab Standard ID: MIXA3OW Initial Calibration: 1P10206

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.61	2.59	2.63	39.59	41.66	-5.0
alpha-BHC	3.02	3.00	3.04	11.32	10.00	13.2
gamma-BHC (Lindane)	3.27	3.25	3.29	9.60	10.00	-4.0
beta-BHC	3.33	3.31	3.35	9.11	10.00	-8.9
delta-BHC	3.48	3.46	3.50	9.94	10.00	-0.6
Heptachlor	3.66	3.64	3.68	9.12	10.00	-8.8
Aldrin	3.92	3.90	3.94	9.65	10.00	-3.5
Heptachlor epoxide	4.44	4.42	4.46	9.32	10.00	-6.8
gamma-Chlordane	4.55	4.52	4.58	9.59	10.00	-4.1
alpha-Chlordane	4.66	4.63	4.67	9.67	10.00	-3.3
4,4'-DDE	4.71	4.69	4.73	19.33	20.00	-3.3
Endosulfan I	4.77	4.75	4.79	9.44	10.00	-5.6
Dieldrin	4.95	4.93	4.97	18.87	20.00	-5.7
Endrin	5.13	5.11	5.15	18.73	20.01	-6.4
4,4'-DDD	5.17	5.15	5.19	19.49	20.01	-2.6
Endosulfan II	5.30	5.28	5.32	21.16	20.00	5.8
4,4'-DDT	5.37	5.35	5.39	19.06	20.03	-4.8
Endrin aldehyde	5.60	5.58	5.62	19.07	20.03	-4.8
Methoxychlor	5.71	5.69	5.73	89.41	100.00	-10.6
Endosulfan sulfate	5.90	5.88	5.92	19.16	20.00	-4.2
Endrin ketone	6.10	6.07	6.11	18.85	20.01	-5.8
Decachlorobiphenyl	6.73	6.71	6.75	40.60	41.70	-2.6

Average of %D: 5.5

✓ only cmpds used

USF03 1522

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H9191B Init. Calib Date(s): 07/25/11 07/26/11

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/26/11

Lab File ID: 1P10206B.48R Time Analyzed: 10:06

Lab Standard ID: MIXA3OW Initial Calibration: 1P10206B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/kg)	NOM AMOUNT (ug/kg)	%D
Tetrachloro-m-xylene	2.56	2.54	2.58	43.93	41.66	5.4
alpha-BHC	2.99	2.97	3.01	10.02	10.00	0.2
gamma-BHC (Lindane)	3.26	3.24	3.28	10.04	10.00	0.4
beta-BHC	3.33	3.30	3.34	9.26	10.00	-7.4
✓delta-BHC	3.57	3.55	3.59	9.94	10.00	-0.6
Heptachlor	3.63	3.60	3.64	9.30	10.00	-7.0
Aldrin	3.91	3.88	3.92	9.38	10.00	-6.2
Heptachlor epoxide	4.40	4.38	4.42	9.88	10.00	-1.2
alpha-Chlordane	4.68	4.65	4.69	9.94	10.00	-0.6
Endosulfan I	4.72	4.70	4.74	9.77	10.00	-2.3
✓4,4'-DDE	4.81	4.78	4.82	20.06	20.00	0.3
Dieldrin	4.93	4.91	4.95	19.82	20.00	-0.9
Endrin	5.17	5.14	5.18	18.71	20.01	-6.5
4,4'-DDD	5.24	5.22	5.26	19.70	20.01	-1.5
Endosulfan II	5.32	5.30	5.34	20.26	20.00	1.3
✓4,4'-DDT	5.47	5.45	5.49	19.31	20.03	-3.6
Endrin aldehyde	5.56	5.54	5.58	19.41	20.03	-3.1
Endosulfan sulfate	5.75	5.73	5.77	19.51	20.00	-2.5
Methoxychlor	5.94	5.92	5.96	95.78	100.00	-4.2
Endrin ketone	6.12	6.10	6.14	19.85	20.01	-0.8
Decachlorobiphenyl	6.90	6.88	6.92	40.96	41.70	-1.8
					Average of %D:	2.8

✓ only cmpds used

MA 7/26/11

USEPA 1523

8D
ANALYTICAL SEQUENCE

Sequence: 1P6193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX CLP ID: 0.32

Instrument: S9147A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/12/2011	16:13:57	1P6193	3.20	
002	PIBLKAA	IBLKX1124A	07/12/2011	16:26:35	1P6193	3.19	7.04
003	PEMAA	EVALX1124A	07/12/2011	16:39:16	1P6193	3.19	7.04
004	MIXA1AA	MIXA11124B	07/12/2011	16:51:54	1P6193	3.19	7.03
005	MIXA2AA	MIXA21124B	07/12/2011	17:04:33	1P6193	3.19	7.03
006	MIXA3AA	MIXA31124D	07/12/2011	17:17:21	1P6193	3.19	7.04
007	MIXA4AA	MIXA41124B	07/12/2011	17:30:05	1P6193	3.19	7.04
008	MIXA5AA	MIXA51124B	07/12/2011	17:42:46	1P6193	3.19	7.04
009	ICMAXJO	ICMAX1124C	07/12/2011	17:55:26	1P6193	3.19	7.03
010	508AMBU	508AM1124E	07/12/2011	18:08:07	1P6193	3.19	7.04
011	MDLAXAA	MDLAX1124B	07/12/2011	18:20:51	1P6193	3.19	7.03
012	MIXE1AA	MIXE11124B	07/12/2011	18:33:27	1P6193	3.19	7.04
013	MIXE2AA	MIXE21124B	07/12/2011	18:46:09	1P6193	3.19	7.04
014	MIXE3AA	MIXE31124B	07/12/2011	18:58:50	1P6193	3.19	7.03
015	MIXE4AA	MIXE41124B	07/12/2011	19:11:31	1P6193	3.19	7.03
016	MIXE5AA	MIXE51124B	07/12/2011	19:24:18	1P6193	3.19	7.03
017	MDLEXAA	MDLEX1124B	07/12/2011	19:36:58	1P6193	3.19	7.03
018	TOXA1AA	TOXA11124A	07/12/2011	19:49:36	1P6193		7.04
019	TOXA2AA	TOXA21124A	07/12/2011	20:02:21	1P6193		7.04
020	TOXA3AA	TOXA31124B	07/12/2011	20:15:00	1P6193	3.19	7.04
021	TOXA4AA	TOXA41124A	07/12/2011	20:27:47	1P6193	3.18	7.05
022	TOXA5AA	TOXA51124A	07/12/2011	20:40:28	1P6193	3.18	7.04
023	ICTXXAA	ICTXX1124A	07/12/2011	20:53:09	1P6193	3.18	7.04
024	CHLD1AA	CHLD11124A	07/12/2011	21:05:44	1P6193	3.19	7.03
025	CHLD2AA	CHLD21124A	07/12/2011	21:18:22	1P6193	3.19	7.03
026	CHLD3AA	CHLD31124A	07/12/2011	21:31:10	1P6193	3.19	7.03
027	CHLD4AA	CHLD41124A	07/12/2011	21:43:52	1P6193	3.19	7.03
028	CHLD5AA	CHLD51124A	07/12/2011	21:56:32	1P6193	3.19	7.03
029	AR161AA	AR1611124A	07/12/2011	22:09:12	1P6193	3.19	7.03
030	AR162AA	AR1621124A	07/12/2011	22:21:49	1P6193	3.19	7.03
031	AR163AA	AR1631124A	07/12/2011	22:34:35	1P6193	3.19	7.03
032	AR164AA	AR1641124A	07/12/2011	22:47:17	1P6193	3.19	7.03
033	AR165AA	AR1651124A	07/12/2011	22:59:56	1P6193	3.19	7.04

	ICAL Dates		ICAL RT	QC Limits
1P6193	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	3.19	(3.17 - 3.22 Minutes)
		DCB = Decachlorobiphenyl	7.04	(7.01 - 7.06 Minutes)

USP93 1524

8D
ANALYTICAL SEQUENCE

Sequence: 1P6193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX CLP ID: 0.32

Instrument: S9147A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034	AR213AA	AR2131124B	07/12/2011	23:12:36	1P6193	3.19	7.03
035	AR32XAA	AR32X1124B	07/12/2011	23:25:17	1P6193	3.19	7.03
036	AR423AA	AR4231124B	07/12/2011	23:38:03	1P6193	3.19	7.04
037	AR483AA	AR4831124A	07/12/2011	23:50:41	1P6193	3.19	7.03
038	AR543AA	AR5431124A	07/13/2011	00:03:17	1P6193	3.19	7.03
039	AR623AA	AR6231124A	07/13/2011	00:15:59	1P6193	3.19	7.03
040	AR683AA	AR6831124A	07/13/2011	00:28:37	1P6193		7.03
041	MDTXXAA	MDTXX1124A	07/13/2011	00:41:28	1P6193	3.18	7.03
042	MDCHXAA	MDCHX1124A	07/13/2011	00:54:08	1P6193	3.19	7.03
043	MD16XAA	MD16X1124A	07/13/2011	01:06:45	1P6193	3.19	7.04
044	IC16XJP	IC16X1124A	07/13/2011	01:19:21	1P6193	3.19	7.03
045	PBLK08190	BLANKA	07/13/2011	01:32:01	1P6193	3.19	7.03
046	LCS08190	LCSA	07/13/2011	01:44:49	1P6193	3.19	7.03
047	LCSD08190	LCSDA	07/13/2011	01:57:30	1P6193	3.19	7.03
048	SR5--	6337643	07/13/2011	02:10:10	1P6193	3.19	7.03
049	SR5--	6337643	07/13/2011	02:22:51	1P6193	3.19	7.03
050	SUMP7	6335881	07/13/2011	02:35:26	1P6193	3.19	7.03
051	SUMP8	6335882	07/13/2011	02:48:13	1P6193	3.19	7.03
052	SUMP9	6335883	07/13/2011	03:00:54	1P6193	3.19	7.03
053	SUM10	6335884	07/13/2011	03:13:35	1P6193	3.19	7.03
054	SUM11	6335885	07/13/2011	03:26:15	1P6193	3.19	7.03
055	PEMRU	EVALX1124A	07/13/2011	03:38:56	1P6193	3.19	7.03
056	MIXA3MJ	MIXA31124D	07/13/2011	03:51:40	1P6193	3.19	7.03
057	MIXE3UD	MIXE31124B	07/13/2011	04:04:18	1P6193	3.19	7.03
058	CHLD3GW	CHLD31124A	07/13/2011	04:16:57	1P6193	3.19	7.03
059	AR163KS	AR1631124A	07/13/2011	04:29:38	1P6193	3.19	7.03
060	PIBLKRO	IBLKX1124A	07/13/2011	04:42:16	1P6193	3.19	7.03
061	SMP12	6337228	07/13/2011	04:55:04	1P6193	3.19	7.03
062	SMP13	6337229	07/13/2011	05:07:44	1P6193	3.19	7.03
063	SMP14	6337230	07/13/2011	05:20:21	1P6193	3.19	7.03
064	HCT15	6338474	07/13/2011	05:33:00	1P6193	3.19	7.03
065	HCT15	6338474	07/13/2011	05:45:42	1P6193	3.19	7.03
066	HCT16	6338475	07/13/2011	05:58:31	1P6193	3.19	7.03

	ICAL Dates		ICAL RT	QC Limits
1P6193	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	3.19	(3.17 - 3.22 Minutes)
		DCB = Decachlorobiphenyl	7.04	(7.01 - 7.06 Minutes)

USF03 1525

8D
ANALYTICAL SEQUENCE

Sequence: 1P6193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX CLP ID: 0.32

Instrument: S9147A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
067	HCT19	6338476	07/13/2011	06:11:12	1P6193	3.19	7.03
068	HCT20	6338477	07/13/2011	06:23:52	1P6193	3.19	7.03
069	HCT23	6338479	07/13/2011	06:36:29	1P6193	3.19	7.03
070	HCT23	6338479	07/13/2011	06:49:05	1P6193	3.19	7.03
071	PEMRV	EVALX1124A	07/13/2011	07:01:55	1P6193	3.19	7.03
072	MIXA3MK	MIXA31124D	07/13/2011	07:14:37	1P6193	3.19	7.03
073	CHLD3GX	CHLD31124A	07/13/2011	07:27:18	1P6193	3.19	7.03
074	AR163KT	AR1631124A	07/13/2011	07:39:59	1P6193	3.19	7.03
075	HCT21	6338478	07/13/2011	07:52:38	1P6193	3.19	7.03
076	WOW27	6337819	07/13/2011	08:05:23	1P6193	3.19	7.04
077	WOW27	6337819	07/13/2011	08:18:06	1P6193	3.19	7.03
078	PBLK09190	BLANKA	07/13/2011	08:30:48	1P6193	3.19	7.03
079	LCS09190	LCSA	07/13/2011	08:43:31	1P6193	3.19	7.03
080	LCSD09190	LCSDA	07/13/2011	08:56:14	1P6193	3.19	7.03
081	27611	6332669	07/13/2011	09:09:06	1P6193	3.19	7.03
082	27611	6332669	07/13/2011	09:21:43	1P6193	3.19	7.03
083	27611	6332669	07/13/2011	09:34:23	1P6193	3.20	7.03
084	PEMRW	EVALX1124A	07/13/2011	09:47:05	1P6193	3.19	7.03
085	MIXA3ML	MIXA31124D	07/13/2011	09:59:49	1P6193	3.19	7.03
086	TOXA3EW	TOXA31124B	07/13/2011	10:12:38	1P6193	3.18	7.04
087	CHLD3GY	CHLD31124A	07/13/2011	10:25:20	1P6193	3.19	7.03
088	AR163KU	AR1631124A	07/13/2011	10:38:04	1P6193	3.19	7.03
089	211-E	6333811	07/13/2011	10:50:45	1P6193	3.19	7.03
090	211-I	6333812	07/13/2011	11:03:24	1P6193	3.19	7.03
091	211-I	6333812	07/13/2011	11:16:14	1P6193	3.19	7.03
092	211-I	6333812	07/13/2011	11:28:54	1P6193	3.19	7.03
093	211-I	6333812	07/13/2011	11:41:37	1P6193	3.19	7.03
094	WREBW	6337222	07/13/2011	11:54:17	1P6193	3.19	7.03
095	EBQ02	6338269	07/13/2011	12:06:55	1P6193	3.19	7.03
096	PEMRX	EVALX1124A	07/13/2011	12:19:39	1P6193	3.19	7.03
097	MIXA3MI	MIXA31124D	07/13/2011	12:32:20	1P6193	3.19	7.03
098	TOXA3EX	TOXA31124B	07/13/2011	12:45:01	1P6193	3.18	7.04

	ICAL Dates		ICAL RT	QC Limits
1P6193	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	3.19	(3.17 - 3.22 Minutes)
		DCB = Decachlorobiphenyl	7.04	(7.01 - 7.06 Minutes)

USEPA 1526

8D
ANALYTICAL SEQUENCE

Sequence: 1P6193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX CLPII ID: 0.32

Instrument: S9147B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/12/2011	16:13:57	1P6193B	2.96	
002	PIBLKAA	IBLKX1124A	07/12/2011	16:26:35	1P6193B	2.96	6.63
003	PEMAA	EVALX1124A	07/12/2011	16:39:16	1P6193B	2.96	6.63
004	MIXA1AA	MIXA11124B	07/12/2011	16:51:54	1P6193B	2.96	6.63
005	MIXA2AA	MIXA21124B	07/12/2011	17:04:33	1P6193B	2.96	6.63
006	MIXA3AA	MIXA31124D	07/12/2011	17:17:21	1P6193B	2.96	6.63
007	MIXA4AA	MIXA41124B	07/12/2011	17:30:05	1P6193B	2.96	6.63
008	MIXA5AA	MIXA51124B	07/12/2011	17:42:46	1P6193B	2.96	6.63
009	ICMAXJO	ICMAX1124C	07/12/2011	17:55:26	1P6193B	2.96	6.63
010	508AMBU	508AM1124E	07/12/2011	18:08:07	1P6193B	2.96	6.63
011	MDLAXAA	MDLAX1124B	07/12/2011	18:20:51	1P6193B	2.95	6.63
012	MIXE1AA	MIXE11124B	07/12/2011	18:33:27	1P6193B	2.96	6.63
013	MIXE2AA	MIXE21124B	07/12/2011	18:46:09	1P6193B	2.96	6.63
014	MIXE3AA	MIXE31124B	07/12/2011	18:58:50	1P6193B	2.95	6.63
015	MIXE4AA	MIXE41124B	07/12/2011	19:11:31	1P6193B	2.96	6.63
016	MIXE5AA	MIXE51124B	07/12/2011	19:24:18	1P6193B	2.96	6.63
017	MDLEXAA	MDLEX1124B	07/12/2011	19:36:58	1P6193B	2.95	6.63
018	TOXA1AA	TOXA11124A	07/12/2011	19:49:36	1P6193B	2.95	6.63
019	TOXA2AA	TOXA21124A	07/12/2011	20:02:21	1P6193B		6.62
020	TOXA3AA	TOXA31124B	07/12/2011	20:15:00	1P6193B	2.96	6.62
021	TOXA4AA	TOXA41124A	07/12/2011	20:27:47	1P6193B	2.96	6.62
022	TOXA5AA	TOXA51124A	07/12/2011	20:40:28	1P6193B	2.96	6.62
023	ICTXXAA	ICTXX1124A	07/12/2011	20:53:09	1P6193B		6.62
024	CHLD1AA	CHLD11124A	07/12/2011	21:05:44	1P6193B	2.96	6.63
025	CHLD2AA	CHLD21124A	07/12/2011	21:18:22	1P6193B	2.95	6.63
026	CHLD3AA	CHLD31124A	07/12/2011	21:31:10	1P6193B	2.96	6.63
027	CHLD4AA	CHLD41124A	07/12/2011	21:43:52	1P6193B	2.95	6.63
028	CHLD5AA	CHLD51124A	07/12/2011	21:56:32	1P6193B	2.95	6.63
029	AR161AA	AR1611124A	07/12/2011	22:09:12	1P6193B	2.96	6.63
030	AR162AA	AR1621124A	07/12/2011	22:21:49	1P6193B	2.96	6.63
031	AR163AA	AR1631124A	07/12/2011	22:34:35	1P6193B	2.96	6.63
032	AR164AA	AR1641124A	07/12/2011	22:47:17	1P6193B	2.96	6.63
033	AR165AA	AR1651124A	07/12/2011	22:59:56	1P6193B	2.96	6.63

	ICAL Dates		ICAL RT	QC Limits
1P6193B	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	2.96	(2.94 - 2.98 Minutes)
		DCB = Decachlorobiphenyl	6.63	(6.61 - 6.65 Minutes)

USF03 1527

8D
ANALYTICAL SEQUENCE

Sequence: 1P6193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX CLPII ID: 0.32

Instrument: S9147B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034	AR213AA	AR2131124B	07/12/2011	23:12:36	1P6193B	2.95	6.63
035	AR32XAA	AR32X1124B	07/12/2011	23:25:17	1P6193B	2.96	6.63
036	AR423AA	AR4231124B	07/12/2011	23:38:03	1P6193B	2.96	6.63
037	AR483AA	AR4831124A	07/12/2011	23:50:41	1P6193B	2.96	6.63
038	AR543AA	AR5431124A	07/13/2011	00:03:17	1P6193B	2.95	6.63
039	AR623AA	AR6231124A	07/13/2011	00:15:59	1P6193B	2.96	6.63
040	AR683AA	AR6831124A	07/13/2011	00:28:37	1P6193B	2.97	6.63
041	MDTXXAA	MDTXX1124A	07/13/2011	00:41:28	1P6193B		6.63
042	MDCHXAA	MDCHX1124A	07/13/2011	00:54:08	1P6193B	2.95	6.63
043	MD16XAA	MD16X1124A	07/13/2011	01:06:45	1P6193B	2.96	6.63
044	IC16XJP	IC16X1124A	07/13/2011	01:19:21	1P6193B	2.95	6.63
045	PBLK08190	BLANKA	07/13/2011	01:32:01	1P6193B	2.96	6.63
046	LCS08190	LCSA	07/13/2011	01:44:49	1P6193B	2.96	6.63
047	LCSD08190	LCSDA	07/13/2011	01:57:30	1P6193B	2.95	6.63
048	SR5--	6337643	07/13/2011	02:10:10	1P6193B	2.95	6.63
049	SR5--	6337643	07/13/2011	02:22:51	1P6193B	2.94	6.63
050	SUMP7	6335881	07/13/2011	02:35:26	1P6193B	2.96	6.63
051	SUMP8	6335882	07/13/2011	02:48:13	1P6193B	2.96	6.63
052	SUMP9	6335883	07/13/2011	03:00:54	1P6193B	2.96	6.63
053	SUM10	6335884	07/13/2011	03:13:35	1P6193B	2.95	6.63
054	SUM11	6335885	07/13/2011	03:26:15	1P6193B	2.96	6.63
055	PEMRU	EVALX1124A	07/13/2011	03:38:56	1P6193B	2.96	6.63
056	MIXA3MJ	MIXA31124D	07/13/2011	03:51:40	1P6193B	2.96	6.63
057	MIXE3UD	MIXE31124B	07/13/2011	04:04:18	1P6193B	2.95	6.63
058	CHLD3GW	CHLD31124A	07/13/2011	04:16:57	1P6193B	2.95	6.63
059	AR163KS	AR1631124A	07/13/2011	04:29:38	1P6193B	2.96	6.63
060	PIBLKRO	IBLKX1124A	07/13/2011	04:42:16	1P6193B	2.95	6.63
061	SMP12	6337228	07/13/2011	04:55:04	1P6193B	2.95	6.63
062	SMP13	6337229	07/13/2011	05:07:44	1P6193B	2.96	6.63
063	SMP14	6337230	07/13/2011	05:20:21	1P6193B	2.96	6.63
064	HCT15	6338474	07/13/2011	05:33:00	1P6193B	2.96	6.63
065	HCT15	6338474	07/13/2011	05:45:42	1P6193B	2.96	6.63
066	HCT16	6338475	07/13/2011	05:58:31	1P6193B	2.96	6.63

	ICAL Dates		ICAL RT	QC Limits
1P6193B	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	2.96	(2.94 - 2.98 Minutes)
		DCB = Decachlorobiphenyl	6.63	(6.61 - 6.65 Minutes)

USF03 1520

8D
ANALYTICAL SEQUENCE

Sequence: 1P6193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX CLPII ID: 0.32

Instrument: S9147B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
067	HCT19	6338476	07/13/2011	06:11:12	1P6193B	2.96	6.63
068	HCT20	6338477	07/13/2011	06:23:52	1P6193B	2.96	6.63
069	HCT23	6338479	07/13/2011	06:36:29	1P6193B	2.96	6.63
070	HCT23	6338479	07/13/2011	06:49:05	1P6193B	2.96	6.63
071	PEMRV	EVALX1124A	07/13/2011	07:01:55	1P6193B	2.96	6.63
072	MIXA3MK	MIXA31124D	07/13/2011	07:14:37	1P6193B	2.96	6.63
073	CHLD3GX	CHLD31124A	07/13/2011	07:27:18	1P6193B	2.96	6.63
074	AR163KT	AR1631124A	07/13/2011	07:39:59	1P6193B	2.95	6.63
075	HCT21	6338478	07/13/2011	07:52:38	1P6193B	2.95	6.63
076	WOW27	6337819	07/13/2011	08:05:23	1P6193B	2.96	6.63
077	WOW27	6337819	07/13/2011	08:18:06	1P6193B	2.95	6.63
078	PBLK09190	BLANKA	07/13/2011	08:30:48	1P6193B	2.96	6.63
079	LCS09190	LCSA	07/13/2011	08:43:31	1P6193B	2.95	6.63
080	LCSD09190	LCSDA	07/13/2011	08:56:14	1P6193B	2.95	6.63
081	27611	6332669	07/13/2011	09:09:06	1P6193B	2.95	6.63
082	27611	6332669	07/13/2011	09:21:43	1P6193B	2.95	6.63
083	27611	6332669	07/13/2011	09:34:23	1P6193B	2.95	6.63
084	PEMRW	EVALX1124A	07/13/2011	09:47:05	1P6193B	2.95	6.63
085	MIXA3ML	MIXA31124D	07/13/2011	09:59:49	1P6193B	2.96	6.63
086	TOXA3EW	TOXA31124B	07/13/2011	10:12:38	1P6193B	2.96	6.62
087	CHLD3GY	CHLD31124A	07/13/2011	10:25:20	1P6193B	2.95	6.63
088	AR163KU	AR1631124A	07/13/2011	10:38:04	1P6193B	2.95	6.63
089	211-E	6333811	07/13/2011	10:50:45	1P6193B	2.96	6.63
090	211-I	6333812	07/13/2011	11:03:24	1P6193B	2.96	6.63
091	211-I	6333812	07/13/2011	11:16:14	1P6193B	2.96	6.63
092	211-I	6333812	07/13/2011	11:28:54	1P6193B	2.95	6.63
093	211-I	6333812	07/13/2011	11:41:37	1P6193B	2.95	6.63
094	WREBW	6337222	07/13/2011	11:54:17	1P6193B	2.95	6.63
095	EBQ02	6338269	07/13/2011	12:06:55	1P6193B	2.95	6.63
096	PEMRX	EVALX1124A	07/13/2011	12:19:39	1P6193B	2.95	6.63
097	MIXA3MI	MIXA31124D	07/13/2011	12:32:20	1P6193B	2.95	6.63
098	TOXA3EX	TOXA31124B	07/13/2011	12:45:01	1P6193B	2.96	6.62

	ICAL Dates		ICAL RT	QC Limits
1P6193B	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	2.96	(2.94 - 2.98 Minutes)
		DCB = Decachlorobiphenyl	6.63	(6.61 - 6.65 Minutes)

USF03 1529

8D
ANALYTICAL SEQUENCE

Sequence: 3P6193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX CLP ID: 0.32

Instrument: S9147A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/14/2011	14:15:31	1P6193	3.20	
002		CONDITIONER	07/14/2011	14:28:10	1P6193	3.19	7.05
003		CONDITIONER	07/14/2011	14:40:50	1P6193	3.19	7.03
004	PEMSD	EVALX1124A	07/14/2011	14:53:29	1P6193	3.19	7.03
005	MIXA3MS	MIXA31124D	07/14/2011	15:06:07	1P6193	3.19	7.03
006		CONDITIONER	07/14/2011	15:53:27	1P6193	3.20	7.05
007	PBLK21194	BLANKA	07/14/2011	16:06:08	1P6193	3.19	7.04
008	LCS21194	LCSA	07/14/2011	16:18:43	1P6193	3.19	7.03
009	FILLN	6337487	07/14/2011	16:31:23	1P6193	3.19	7.03
010	SOILN	6338382	07/14/2011	16:44:04	1P6193	3.19	7.03
011	SOILN	6338382	07/14/2011	16:56:51	1P6193	3.19	7.03
012	47A97	6340120	07/14/2011	17:09:34	1P6193	3.19	7.03
013	NV-14	6337542	07/14/2011	17:22:15	1P6193	3.19	7.03
014	NV-14MS	6337542	07/14/2011	17:34:51	1P6193	3.19	7.03
015	NV-14MSD	6337542	07/14/2011	17:47:31	1P6193	3.19	7.03
016	NV-24	6337549	07/14/2011	18:00:17	1P6193	3.19	7.03
017	NV-34	6337556	07/14/2011	18:12:58	1P6193	3.19	7.03
018	NV-44	6337563	07/14/2011	18:25:38	1P6193	3.19	7.03
019	NV714	6339123	07/14/2011	18:38:19	1P6193	3.19	7.03
020	NV724	6339130	07/14/2011	18:50:56	1P6193	3.19	7.03
021	NV734	6339137	07/14/2011	19:03:39	1P6193	3.19	7.03
022	NV744	6339144	07/14/2011	19:16:19	1P6193	3.19	7.03
023	NV754	6339151	07/14/2011	19:29:00	1P6193	3.19	7.03
024	NV764	6339157	07/14/2011	19:41:39	1P6193	3.19	7.03
025	NV774	6339163	07/14/2011	19:54:21	1P6193	3.19	7.03
026	PEMSE	EVALX1124A	07/14/2011	20:07:04	1P6193	3.19	7.03
027	MIXA3MT	MIXA31124C	07/14/2011	20:19:43	1P6193	3.19	7.03
028	AR163LL	AR1631124A	07/14/2011	20:32:22	1P6193	3.19	7.03
029	NV784	6339169	07/14/2011	20:45:03	1P6193	3.19	7.03
030	PBLK12194	BLANKA	07/14/2011	20:57:45	1P6193	3.19	7.03
031	LCS12194	LCSA	07/14/2011	21:10:34	1P6193	3.19	7.03
032	LCSD12194	LCSDA	07/14/2011	21:23:12	1P6193	3.19	7.03
033	02410	6340038	07/14/2011	21:35:48	1P6193	3.19	7.03

	ICAL Dates		ICAL RT	QC Limits
1P6193	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	3.19	(3.17 - 3.22 Minutes)
		DCB = Decachlorobiphenyl	7.04	(7.01 - 7.06 Minutes)

USF03 1538

8D
ANALYTICAL SEQUENCE

Sequence: 3P6193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX CLP ID: 0.32

Instrument: S9147A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034	MH14G	6341647	07/14/2011	21:48:26	1P6193	3.19	7.03
035	PEMSF	EVALX1124A	07/14/2011	22:01:08	1P6193	3.19	7.03
036	MIXA3MV	MIXA31124D	07/14/2011	22:13:56	1P6193	3.19	7.03
037	MIXE3UJ	MIXE31124B	07/14/2011	22:26:37	1P6193	3.19	7.03
038	AR163LM	AR1631124A	07/14/2011	22:39:18	1P6193	3.19	7.03
039	PBLK13194	BLANKA	07/14/2011	22:51:54	1P6193	3.19	7.03
040	LCS13194	LCSA	07/14/2011	23:04:30	1P6193	3.19	7.03
041	LCSD13194	LCSDA	07/14/2011	23:17:17	1P6193	3.19	7.03
042	EBQ03	6339388	07/14/2011	23:29:55	1P6193	3.19	7.03
043	WREB4	6340962	07/14/2011	23:42:35	1P6193	3.19	7.03
044	WRFB1	6340963	07/14/2011	23:55:14	1P6193	3.19	7.03
045	211-I	6333812	07/15/2011	00:07:55	1P6193	3.19	7.03
046	211-I	6333812	07/15/2011	00:20:39	1P6193	3.19	7.03
047	PEMSG	EVALX1124A	07/15/2011	00:33:16	1P6193	3.19	7.03
048	MIXA3MY	MIXA31124D	07/15/2011	00:45:56	1P6193	3.19	7.03
049	MIXE3UK	MIXE31124B	07/15/2011	00:58:37	1P6193	3.19	7.03

	ICAL Dates		ICAL RT	QC Limits
1P6193	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	3.19	(3.17 - 3.22 Minutes)
		DCB = Decachlorobiphenyl	7.04	(7.01 - 7.06 Minutes)

USF93 1531

8D
ANALYTICAL SEQUENCE

Sequence: 3P6193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-CLPII ID: 0.32

Instrument: S9147B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/14/2011	14:15:31	1P6193B	2.96	6.65
002		CONDITIONER	07/14/2011	14:28:10	1P6193B	2.96	6.62
003		CONDITIONER	07/14/2011	14:40:50	1P6193B	2.96	6.63
004	PEMSD	EVALX1124A	07/14/2011	14:53:29	1P6193B	2.95	6.63
005	MIXA3MS	MIXA31124D	07/14/2011	15:06:07	1P6193B	2.95	6.63
006		CONDITIONER	07/14/2011	15:53:27	1P6193B	2.96	6.64
007	PBLK21194	BLANKA	07/14/2011	16:06:08	1P6193B	2.96	6.63
008	LCS21194	LCSA	07/14/2011	16:18:43	1P6193B	2.95	6.63
009	FILLN	6337487	07/14/2011	16:31:23	1P6193B	2.95	6.63
010	SOILN	6338382	07/14/2011	16:44:04	1P6193B	2.95	6.63
011	SOILN	6338382	07/14/2011	16:56:51	1P6193B	2.95	6.63
012	47A97	6340120	07/14/2011	17:09:34	1P6193B	2.96	6.63
013	NV-14	6337542	07/14/2011	17:22:15	1P6193B	2.96	6.63
014	NV-14MS	6337542	07/14/2011	17:34:51	1P6193B	2.96	6.63
015	NV-14MSD	6337542	07/14/2011	17:47:31	1P6193B	2.96	6.63
016	NV-24	6337549	07/14/2011	18:00:17	1P6193B	2.96	6.63
017	NV-34	6337556	07/14/2011	18:12:58	1P6193B	2.95	6.63
018	NV-44	6337563	07/14/2011	18:25:38	1P6193B	2.95	6.63
019	NV714	6339123	07/14/2011	18:38:19	1P6193B	2.95	6.63
020	NV724	6339130	07/14/2011	18:50:56	1P6193B	2.95	6.63
021	NV734	6339137	07/14/2011	19:03:39	1P6193B	2.95	6.63
022	NV744	6339144	07/14/2011	19:16:19	1P6193B	2.96	6.63
023	NV754	6339151	07/14/2011	19:29:00	1P6193B	2.96	6.63
024	NV764	6339157	07/14/2011	19:41:39	1P6193B	2.95	6.63
025	NV774	6339163	07/14/2011	19:54:21	1P6193B	2.95	6.63
026	PEMSE	EVALX1124A	07/14/2011	20:07:04	1P6193B	2.96	6.63
027	MIXA3MT	MIXA31124C	07/14/2011	20:19:43	1P6193B	2.96	6.63
028	AR163LL	AR1631124A	07/14/2011	20:32:22	1P6193B	2.95	6.63
029	NV784	6339169	07/14/2011	20:45:03	1P6193B	2.95	6.63
030	PBLK12194	BLANKA	07/14/2011	20:57:45	1P6193B	2.96	6.63
031	LCS12194	LCSA	07/14/2011	21:10:34	1P6193B	2.96	6.63
032	LCSD12194	LCSDA	07/14/2011	21:23:12	1P6193B	2.95	6.63
033	02410	6340038	07/14/2011	21:35:48	1P6193B	2.96	6.63

	ICAL Dates		ICAL RT	QC Limits
1P6193B	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	2.96	(2.94 - 2.98 Minutes)
		DCB = Decachlorobiphenyl	6.63	(6.61 - 6.65 Minutes)

USF03 1532

8D
ANALYTICAL SEQUENCE

Sequence: 3P6193B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX CLPII ID: 0.32

Instrument: S9147B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034	MH14G	6341647	07/14/2011	21:48:26	1P6193B	2.96	6.63
035	PEMSF	EVALX1124A	07/14/2011	22:01:08	1P6193B	2.96	6.63
036	MIXA3MV	MIXA31124D	07/14/2011	22:13:56	1P6193B	2.95	6.63
037	MIXE3UJ	MIXE31124B	07/14/2011	22:26:37	1P6193B	2.96	6.63
038	AR163LM	AR1631124A	07/14/2011	22:39:18	1P6193B	2.95	6.63
039	PBLK13194	BLANKA	07/14/2011	22:51:54	1P6193B	2.95	6.63
040	LCS13194	LCSA	07/14/2011	23:04:30	1P6193B	2.96	6.63
041	LCSD13194	LCSDA	07/14/2011	23:17:17	1P6193B	2.95	6.63
042	EBQ03	6339388	07/14/2011	23:29:55	1P6193B	2.95	6.63
043	WREB4	6340962	07/14/2011	23:42:35	1P6193B	2.95	6.63
044	WRFB1	6340963	07/14/2011	23:55:14	1P6193B	2.95	6.63
045	211-I	6333812	07/15/2011	00:07:55	1P6193B	2.96	6.63
046	211-I	6333812	07/15/2011	00:20:39	1P6193B	2.96	6.63
047	PEMSG	EVALX1124A	07/15/2011	00:33:16	1P6193B	2.95	6.63
048	MIXA3MY	MIXA31124D	07/15/2011	00:45:56	1P6193B	2.96	6.63
049	MIXE3UK	MIXE31124B	07/15/2011	00:58:37	1P6193B	2.96	6.63

	ICAL Dates		ICAL RT	QC Limits
1P6193B	07/12/2011 - 07/13/2011	TCX = Tetrachloro-m-xylene	2.96	(2.94 - 2.98 Minutes)
		DCB = Decachlorobiphenyl	6.63	(6.61 - 6.65 Minutes)

USF03 1533

8D
ANALYTICAL SEQUENCE

Sequence: 1P10200 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-CLP ID: 0.32

Instrument: H9191A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/19/2011	07:37:31	1P10200		6.74
002		CONDITIONER	07/19/2011	07:52:55	1P10200	2.62	6.73
003		CONDITIONER	07/19/2011	08:08:42	1P10200		6.74
004	PIBLKAA	IBLKX1124A	07/19/2011	08:24:29	1P10200	2.62	6.73
005	PEMAA	EVALX1124A	07/19/2011	08:40:29	1P10200	2.62	6.73
006	MIXA1AA	MIXA11124A	07/19/2011	08:55:46	1P10200	2.62	6.73
007	MIXA2AA	MIXA21124A	07/19/2011	09:10:42	1P10200	2.62	6.73
008	MIXA3AA	MIXA31124C	07/19/2011	09:26:28	1P10200	2.62	6.73
009	MIXA4AA	MIXA41124A	07/19/2011	09:50:47	1P10200	2.62	6.73
010	MIXA5AA	MIXA51124A	07/19/2011	10:14:01	1P10200	2.62	6.74
011	ICMAXJP	ICMAX1124C	07/19/2011	10:36:54	1P10200	2.62	6.73
012	508AMBV	508AM1124E	07/19/2011	10:52:13	1P10200	2.62	6.73
013	MIXE1AA	MIXE11124B	07/19/2011	11:15:49	1P10200	2.62	6.73
014	MIXE2AA	MIXE21124B	07/19/2011	11:38:38	1P10200	2.62	6.74
015	MIXE3AA	MIXE31124B	07/19/2011	12:01:34	1P10200	2.62	6.73
016	MIXE4AA	MIXE41124B	07/19/2011	12:16:54	1P10200	2.62	6.73
017	MIXE5AA	MIXE51124B	07/19/2011	12:40:43	1P10200	2.62	6.74
018	TOXA1AA	TOXA11124B	07/19/2011	13:03:51	1P10200	2.64	6.74
019	TOXA2AA	TOXA21124B	07/19/2011	13:26:18	1P10200		
020	TOXA3AA	TOXA31124C	07/19/2011	13:48:57	1P10200		
021	TOXA4AA	TOXA41124B	07/19/2011	14:11:39	1P10200		6.75
022	TOXA5AA	TOXA51124B	07/19/2011	14:34:19	1P10200		6.75
023	ICTXXFU	ICTXX1124B	07/19/2011	14:57:00	1P10200		6.75
024	ICMAXJW	ICMAX1124C	07/19/2011	15:20:01	1P10200	2.62	6.73
025	ICMAXJX	ICMAX1124B	07/19/2011	15:42:51	1P10200	2.62	6.74
026	CHLD1AA	CHLD11124A	07/19/2011	16:05:48	1P10200	2.62	6.73
027	CHLD2AA	CHLD21124A	07/19/2011	16:29:01	1P10200	2.62	6.73
028	CHLD3AA	CHLD31124A	07/19/2011	16:44:17	1P10200	2.62	6.73
029	CHLD4AA	CHLD41124A	07/19/2011	17:00:03	1P10200	2.62	6.73
030	CHLD5AA	CHLD51124A	07/19/2011	17:24:47	1P10200	2.62	6.74
031	AR163AA	AR1631124A	07/19/2011	17:40:16	1P10200	2.62	6.73

	ICAL Dates		ICAL RT	QC Limits
1P10200	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.62	(2.60 - 2.64 Minutes)
		DCB = Decachlorobiphenyl	6.73	(6.71 - 6.75 Minutes)

USF03 1534

8D
ANALYTICAL SEQUENCE

Sequence: 1P10200 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-CLP ID: 0.32

Instrument: H9191A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
032	AR213AA	AR2131124B	07/19/2011	18:03:50	1P10200	2.62	6.74
033	AR32XAA	AR32X1124B	07/19/2011	18:26:52	1P10200	2.62	6.74
034	AR423AA	AR4231124B	07/19/2011	18:49:53	1P10200	2.62	6.74
035	AR483AA	AR4831124A	07/19/2011	19:04:50	1P10200	2.62	6.73
036	AR543AA	AR5431124A	07/19/2011	19:20:22	1P10200	2.62	6.73
037	MDLAXAA	MDLAX1124A	07/19/2011	19:36:03	1P10200	2.62	6.73
038	MDLEXAA	MDLEX1124B	07/19/2011	20:00:12	1P10200	2.62	6.74
039	MDTXXAA	MDTXX1124B	07/19/2011	20:22:57	1P10200		
040	ICTXXFV	ICTXX1124B	07/19/2011	20:45:27	1P10200		
041	MDCHXAA	MDCHX1124A	07/19/2011	21:08:13	1P10200	2.62	6.73
042	PBLK27193	BLANKA	07/19/2011	21:23:22	1P10200	2.62	6.73
043		CHLMDLV	07/19/2011	21:46:44	1P10200		
044	LCS27193	LCSA	07/19/2011	22:09:37	1P10200	2.62	6.74
045	LCS27193	LCSCHL	07/19/2011	22:32:12	1P10200	2.62	6.73
046	LCSD27193	LCSDA	07/19/2011	22:55:03	1P10200	2.62	6.73
047	LCS27193	LCSMIR	07/19/2011	23:18:15	1P10200	2.62	6.73
048	LCS27193	LCSTOX	07/19/2011	23:41:50	1P10200	2.62	6.73
049		MDLV	07/20/2011	00:04:30	1P10200		
050		MIRMDLV	07/20/2011	00:19:40	1P10200		
051	LCS27193	RLCHL	07/20/2011	00:34:57	1P10200	2.62	6.73
052	LCS27193	RLMIR	07/20/2011	00:50:15	1P10200	2.62	6.73
053	LCS27193	RLTOX	07/20/2011	01:05:52	1P10200	2.62	6.73
054		TOXMDLV	07/20/2011	01:21:33	1P10200		
055	WR01S	6337203	07/20/2011	01:37:04	1P10200	2.62	6.73
056	WR03S	6337205	07/20/2011	01:52:19	1P10200	2.62	6.73
057	WR05S	6337207	07/20/2011	02:07:35	1P10200	2.62	6.73
058	WR07S	6337209	07/20/2011	02:22:49	1P10200	2.62	6.73
059	WR11S	6337212	07/20/2011	02:38:24	1P10200	2.62	6.73
060	WR09S	6338249	07/20/2011	02:54:00	1P10200	2.62	6.73
061	WR135	6338250	07/20/2011	03:09:42	1P10200	2.62	6.73
062	PEMSK	EVALX1124A	07/20/2011	03:25:20	1P10200	2.62	6.73

	ICAL Dates		ICAL RT	QC Limits
1P10200	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.62	(2.60 - 2.64 Minutes)
		DCB = Decachlorobiphenyl	6.73	(6.71 - 6.75 Minutes)

USF93 1535

8D
ANALYTICAL SEQUENCE

Sequence: 1P10200 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-CLP ID: 0.32

Instrument: H9191A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
063	MIXA3NB	MIXA31124C	07/20/2011	03:41:07	1P10200	2.62	6.73
064	MIXE3UL	MIXE31124B	07/20/2011	03:56:33	1P10200	2.62	6.73
065	TOXA3FD	TOXA31124C	07/20/2011	04:12:21	1P10200		6.73
066	CHLD3HE	CHLD31124A	07/20/2011	04:27:58	1P10200	2.62	6.73
067	WR295	6338252	07/20/2011	04:52:17	1P10200	2.62	6.73
068	WR885	6338261	07/20/2011	05:07:26	1P10200	2.62	6.73
069	WR905	6338263	07/20/2011	05:31:23	1P10200	2.62	6.73
070	WR90D	6338264	07/20/2011	05:46:25	1P10200	2.62	6.73
071	15S05	6339368	07/20/2011	06:01:18	1P10200	2.61	6.73
072	17S05	6339370	07/20/2011	06:16:40	1P10200	2.62	6.73
073	19S05	6339372	07/20/2011	06:31:45	1P10200	2.61	6.73
074	21S05	6339374	07/20/2011	06:47:03	1P10200	2.62	6.73
075	74S05	6339375	07/20/2011	07:02:09	1P10200	2.62	6.73
076	82S05	6339377	07/20/2011	07:17:36	1P10200	2.62	6.73
077	82S05	6339378	07/20/2011	07:32:48	1P10200	2.62	6.73
078	82S05	6339379	07/20/2011	07:48:07	1P10200	2.62	6.73
079	82S05	6339384	07/20/2011	08:12:22	1P10200	2.62	6.73
080	87S05	6339386	07/20/2011	08:27:08	1P10200	2.62	6.73
081	PEMSL	EVALX1124A	07/20/2011	08:42:19	1P10200	2.62	6.73
082	MIXA3NC	MIXA31124C	07/20/2011	08:57:27	1P10200	2.62	6.73
083	MIXE3UM	MIXE31124B	07/20/2011	09:12:46	1P10200	2.62	6.73
084	TOXA3FE	TOXA31124C	07/20/2011	09:27:57	1P10200		6.73
085	CHLD3HF	CHLD31124A	07/20/2011	09:43:15	1P10200	2.62	6.73
086		CONDITIONER	07/20/2011	10:27:57	1P10200	2.63	
087	AA	GPC67BL199	07/20/2011	10:49:45	1P10200		6.73
088	AA	GPC69BL199	07/20/2011	11:12:26	1P10200		
089	AA	CONTROL	07/20/2011	11:36:25	1P10200	2.62	6.74
090	AA	GPC67MS199	07/20/2011	11:59:19	1P10200	2.62	6.73
091	AA	GPC69MS199	07/20/2011	12:22:03	1P10200	2.62	6.74
092	AA	GPC67AS199	07/20/2011	12:45:10	1P10200		6.73
093	AA	GPC69AS199	07/20/2011	13:08:23	1P10200		6.73

	ICAL Dates		ICAL RT	QC Limits
1P10200	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.62	(2.60 - 2.64 Minutes)
		DCB = Decachlorobiphenyl	6.73	(6.71 - 6.75 Minutes)

USF83 1536

8D
ANALYTICAL SEQUENCE

Sequence: 1P10200 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-CLP ID: 0.32

Instrument: H9191A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
094	PEMSS	EVALX1124A	07/20/2011	13:31:26	1P10200	2.62	6.74
095	MIXA3NL	MIXA31124C	07/20/2011	13:54:25	1P10200	2.62	6.73

	ICAL Dates		ICAL RT	QC Limits
1P10200	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.62	(2.60 - 2.64 Minutes)
		DCB = Decachlorobiphenyl	6.73	(6.71 - 6.75 Minutes)

USF03 1537

8D
ANALYTICAL SEQUENCE

Sequence: 1P10200B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTXCLPII ID: 0.32

Instrument: H9191B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/19/2011	07:37:31	1P10200B		
002		CONDITIONER	07/19/2011	07:52:55	1P10200B	2.56	6.89
003		CONDITIONER	07/19/2011	08:08:42	1P10200B		
004	PIBLKAA	IBLKX1124A	07/19/2011	08:24:29	1P10200B	2.56	6.89
005	PEMAA	EVALX1124A	07/19/2011	08:40:29	1P10200B	2.56	6.89
006	MIXA1AA	MIXA11124A	07/19/2011	08:55:46	1P10200B	2.56	6.89
007	MIXA2AA	MIXA21124A	07/19/2011	09:10:42	1P10200B	2.56	6.89
008	MIXA3AA	MIXA31124C	07/19/2011	09:26:28	1P10200B	2.56	6.90
009	MIXA4AA	MIXA41124A	07/19/2011	09:50:47	1P10200B	2.56	6.90
010	MIXA5AA	MIXA51124A	07/19/2011	10:14:01	1P10200B	2.56	6.90
011	ICMAXJP	ICMAX1124C	07/19/2011	10:36:54	1P10200B	2.56	6.90
012	508AMBV	508AM1124E	07/19/2011	10:52:13	1P10200B	2.56	6.90
013	MIXE1AA	MIXE11124B	07/19/2011	11:15:49	1P10200B	2.56	6.90
014	MIXE2AA	MIXE21124B	07/19/2011	11:38:38	1P10200B	2.56	6.90
015	MIXE3AA	MIXE31124B	07/19/2011	12:01:34	1P10200B	2.56	6.90
016	MIXE4AA	MIXE41124B	07/19/2011	12:16:54	1P10200B	2.56	6.90
017	MIXE5AA	MIXE51124B	07/19/2011	12:40:43	1P10200B	2.56	6.90
018	TOXA1AA	TOXA11124B	07/19/2011	13:03:51	1P10200B	2.55	6.90
019	TOXA2AA	TOXA21124B	07/19/2011	13:26:18	1P10200B		
020	TOXA3AA	TOXA31124C	07/19/2011	13:48:57	1P10200B		6.88
021	TOXA4AA	TOXA41124B	07/19/2011	14:11:39	1P10200B		
022	TOXA5AA	TOXA51124B	07/19/2011	14:34:19	1P10200B	2.55	
023	ICTXXFU	ICTXX1124B	07/19/2011	14:57:00	1P10200B		6.88
024	ICMAXJW	ICMAX1124C	07/19/2011	15:20:01	1P10200B	2.56	6.90
025	ICMAXJX	ICMAX1124B	07/19/2011	15:42:51	1P10200B	2.56	6.90
026	CHLD1AA	CHLD11124A	07/19/2011	16:05:48	1P10200B	2.56	6.90
027	CHLD2AA	CHLD21124A	07/19/2011	16:29:01	1P10200B	2.56	6.90
028	CHLD3AA	CHLD31124A	07/19/2011	16:44:17	1P10200B	2.56	6.90
029	CHLD4AA	CHLD41124A	07/19/2011	17:00:03	1P10200B	2.56	6.90
030	CHLD5AA	CHLD51124A	07/19/2011	17:24:47	1P10200B	2.56	6.90
031	AR163AA	AR1631124A	07/19/2011	17:40:16	1P10200B	2.56	6.90
032	AR213AA	AR2131124B	07/19/2011	18:03:50	1P10200B	2.56	6.90
033	AR32XAA	AR32X1124B	07/19/2011	18:26:52	1P10200B	2.56	6.90

	ICAL Dates		ICAL RT	QC Limits
1P10200B	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.56	(2.54 - 2.58 Minutes)
		DCB = Decachlorobiphenyl	6.9	(6.88 - 6.91 Minutes)

03893 1539

8D
ANALYTICAL SEQUENCE

Sequence: 1P10200B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTXCLPII ID: 0.32

Instrument: H9191B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034	AR423AA	AR4231124B	07/19/2011	18:49:53	1P10200B	2.56	6.90
035	AR483AA	AR4831124A	07/19/2011	19:04:50	1P10200B	2.56	6.89
036	AR543AA	AR5431124A	07/19/2011	19:20:22	1P10200B	2.56	6.89
037	MDLAXAA	MDLAX1124A	07/19/2011	19:36:03	1P10200B	2.56	6.90
038	MDLEXAA	MDLEX1124B	07/19/2011	20:00:12	1P10200B	2.56	6.90
039	MDTXXAA	MDTXX1124B	07/19/2011	20:22:57	1P10200B		
040	ICTXXFV	ICTXX1124B	07/19/2011	20:45:27	1P10200B		6.88
041	MDCHXAA	MDCHX1124A	07/19/2011	21:08:13	1P10200B	2.56	6.90
042	PBLK27193	BLANKA	07/19/2011	21:23:22	1P10200B	2.56	6.89
043		CHLMDLV	07/19/2011	21:46:44	1P10200B		
044	LCS27193	LCSA	07/19/2011	22:09:37	1P10200B	2.56	6.90
045	LCS27193	LCSCHL	07/19/2011	22:32:12	1P10200B	2.56	6.90
046	LCSD27193	LCSDA	07/19/2011	22:55:03	1P10200B	2.56	6.90
047	LCS27193	LCSMIR	07/19/2011	23:18:15	1P10200B	2.56	6.90
048	LCS27193	LCSTOX	07/19/2011	23:41:50	1P10200B	2.56	6.90
049		MDLV	07/20/2011	00:04:30	1P10200B		
050		MIRMDLV	07/20/2011	00:19:40	1P10200B		
051	LCS27193	RLCHL	07/20/2011	00:34:57	1P10200B	2.56	6.89
052	LCS27193	RLMIR	07/20/2011	00:50:15	1P10200B	2.56	6.89
053	LCS27193	RLTOX	07/20/2011	01:05:52	1P10200B	2.56	6.89
054		TOXMDLV	07/20/2011	01:21:33	1P10200B		
055	WR01S	6337203	07/20/2011	01:37:04	1P10200B	2.56	6.90
056	WR03S	6337205	07/20/2011	01:52:19	1P10200B	2.56	6.90
057	WR05S	6337207	07/20/2011	02:07:35	1P10200B	2.56	6.90
058	WR07S	6337209	07/20/2011	02:22:49	1P10200B	2.56	6.90
059	WR11S	6337212	07/20/2011	02:38:24	1P10200B	2.56	6.90
060	WR09S	6338249	07/20/2011	02:54:00	1P10200B	2.56	6.89
061	WR135	6338250	07/20/2011	03:09:42	1P10200B	2.56	6.90
062	PEMSK	EVALX1124A	07/20/2011	03:25:20	1P10200B	2.56	6.89
063	MIXA3NB	MIXA31124C	07/20/2011	03:41:07	1P10200B	2.56	6.89
064	MIXE3UL	MIXE31124B	07/20/2011	03:56:33	1P10200B	2.56	6.89
065	TOXA3FD	TOXA31124C	07/20/2011	04:12:21	1P10200B		6.90
066	CHLD3HE	CHLD31124A	07/20/2011	04:27:58	1P10200B	2.56	6.90

	ICAL Dates		ICAL RT	QC Limits
1P10200B	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.56	(2.54 - 2.58 Minutes)
		DCB = Decachlorobiphenyl	6.9	(6.88 - 6.91 Minutes)

USF83 1539

8D
ANALYTICAL SEQUENCE

Sequence: 1P10200B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTXCLPII ID: 0.32

Instrument: H9191B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
067	WR295	6338252	07/20/2011	04:52:17	1P10200B	2.56	6.90
068	WR885	6338261	07/20/2011	05:07:26	1P10200B	2.56	6.90
069	WR905	6338263	07/20/2011	05:31:23	1P10200B	2.56	6.90
070	WR90D	6338264	07/20/2011	05:46:25	1P10200B	2.56	6.89
071	15S05	6339368	07/20/2011	06:01:18	1P10200B	2.56	6.90
072	17S05	6339370	07/20/2011	06:16:40	1P10200B	2.56	6.90
073	19S05	6339372	07/20/2011	06:31:45	1P10200B	2.56	6.89
074	21S05	6339374	07/20/2011	06:47:03	1P10200B	2.56	6.90
075	74S05	6339375	07/20/2011	07:02:09	1P10200B	2.56	6.90
076	82S05	6339377	07/20/2011	07:17:36	1P10200B	2.56	6.90
077	82S05	6339378	07/20/2011	07:32:48	1P10200B	2.56	6.90
078	82S05	6339379	07/20/2011	07:48:07	1P10200B	2.56	6.89
079	82S05	6339384	07/20/2011	08:12:22	1P10200B	2.56	6.90
080	87S05	6339386	07/20/2011	08:27:08	1P10200B	2.56	6.90
081	PEMSL	EVALX1124A	07/20/2011	08:42:19	1P10200B	2.56	6.89
082	MIXA3NC	MIXA31124C	07/20/2011	08:57:27	1P10200B	2.56	6.89
083	MIXE3UM	MIXE31124B	07/20/2011	09:12:46	1P10200B	2.56	6.89
084	TOXA3FE	TOXA31124C	07/20/2011	09:27:57	1P10200B		
085	CHLD3HF	CHLD31124A	07/20/2011	09:43:15	1P10200B	2.56	6.89
086		CONDITIONER	07/20/2011	10:27:57	1P10200B	2.56	
087	AA	GPC67BL199	07/20/2011	10:49:45	1P10200B		
088	AA	GPC69BL199	07/20/2011	11:12:26	1P10200B		
089	AA	CONTROL	07/20/2011	11:36:25	1P10200B	2.56	6.90
090	AA	GPC67MS199	07/20/2011	11:59:19	1P10200B	2.56	6.90
091	AA	GPC69MS199	07/20/2011	12:22:03	1P10200B	2.56	6.90
092	AA	GPC67AS199	07/20/2011	12:45:10	1P10200B		6.90
093	AA	GPC69AS199	07/20/2011	13:08:23	1P10200B	2.58	6.90
094	PEMSS	EVALX1124A	07/20/2011	13:31:26	1P10200B	2.56	6.90
095	MIXA3NL	MIXA31124C	07/20/2011	13:54:25	1P10200B	2.56	6.90

	ICAL Dates		ICAL RT	QC Limits
1P10200B	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.56	(2.54 - 2.58 Minutes)
		DCB = Decachlorobiphenyl	6.9	(6.88 - 6.91 Minutes)

ESF03 1546

8D
ANALYTICAL SEQUENCE

Sequence: 1P10206 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-CLP ID: 0.32

Instrument: H9191A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/25/2011	21:42:00	1P10200	2.61	6.72
002		CONDITIONER	07/25/2011	21:57:33	1P10200	2.61	6.73
003		CONDITIONER	07/25/2011	22:12:48	1P10200	2.61	6.74
004	PIBLKAA	IBLKX1124A	07/25/2011	22:27:52	1P10200	2.61	6.73
005	PEMAA	EVALX1124A	07/25/2011	22:43:15	1P10200	2.61	6.73
006	MIXA1AA	MIXA11124A	07/25/2011	22:58:48	1P10200	2.61	6.73
007	MIXA2AA	MIXA21124A	07/25/2011	23:14:05	1P10200	2.61	6.73
008	MIXA3AA	MIXA31124C	07/25/2011	23:29:06	1P10200	2.61	6.73
009	MIXA4AA	MIXA41124A	07/25/2011	23:44:39	1P10200	2.61	6.73
010	MIXA5AA	MIXA51124A	07/25/2011	23:59:49	1P10200	2.62	6.73
011	ICMAXAA	ICMAX1124A	07/26/2011	00:15:08	1P10200	2.61	6.73
012	MIXE1AA	MIXE11124B	07/26/2011	00:30:17	1P10200	2.61	6.73
013	MIXE2AA	MIXE21124B	07/26/2011	00:45:37	1P10200	2.61	6.73
014	MIXE3AA	MIXE31124B	07/26/2011	01:00:30	1P10200	2.61	6.73
015	MIXE4AA	MIXE41124B	07/26/2011	01:15:22	1P10200	2.61	6.73
016	MIXE5AA	MIXE51124B	07/26/2011	01:30:24	1P10200	2.61	6.73
017	TOXA1AA	TOXA11124C	07/26/2011	01:45:23	1P10206		6.73
018	TOXA2AA	TOXA21124C	07/26/2011	02:00:28	1P10206		6.73
019	TOXA3AA	TOXA31124D	07/26/2011	02:15:24	1P10206	2.60	6.74
020	TOXA4AA	TOXA41124C	07/26/2011	02:30:09	1P10206	2.59	6.74
021	TOXA5AA	TOXA51124D	07/26/2011	02:45:28	1P10206		6.74
022	ICTXXFX	ICTXX1124D	07/26/2011	03:01:07	1P10206		6.74
023	ICTXXFY	ICTXX1124E	07/26/2011	03:16:42	1P10206	2.63	6.73
024	CHLD1AA	CHLD11124A	07/26/2011	03:32:34	1P10206	2.61	6.73
025	CHLD2AA	CHLD21124A	07/26/2011	03:48:27	1P10206	2.61	6.73
026	CHLD3AA	CHLD31124A	07/26/2011	04:11:49	1P10206	2.62	6.73

	ICAL Dates		ICAL RT	QC Limits
1P10200	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.62	(2.60 - 2.64 Minutes)
		DCB = Decachlorobiphenyl	6.73	(6.71 - 6.75 Minutes)
1P10206	07/25/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.61	(2.59 - 2.63 Minutes)
		DCB = Decachlorobiphenyl	6.73	(6.71 - 6.75 Minutes)

USF03 1541

8D
ANALYTICAL SEQUENCE

Sequence: 1P10206 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-CLP ID: 0.32

Instrument: H9191A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
027	CHLD4AA	CHLD41124A	07/26/2011	04:27:28	1P10206	2.62	6.73
028	CHLD5AA	CHLD51124A	07/26/2011	04:51:21	1P10206	2.62	6.73
029	AR163AA	AR1631124A	07/26/2011	05:06:24	1P10206	2.61	6.73
030	AR213AA	AR2131124B	07/26/2011	05:21:51	1P10206	2.61	6.73
031	AR32XAA	AR32X1124B	07/26/2011	05:36:58	1P10206	2.61	6.73
032	AR423AA	AR4231124B	07/26/2011	05:51:59	1P10206	2.61	6.73
033	AR483AA	AR4831124A	07/26/2011	06:07:01	1P10206	2.61	6.73
034	AR543AA	AR5431124A	07/26/2011	06:22:19	1P10206	2.62	6.73
035	MDLAXAA	MDLAX1124A	07/26/2011	06:37:32	1P10206	2.61	6.73
036	MDLEXAA	MDLEX1124B	07/26/2011	06:52:29	1P10206	2.61	6.73
037	MDTXXAA	MDTXX1124B	07/26/2011	07:07:31	1P10206		6.71
038	MDCHXAA	MDCHX1124A	07/26/2011	07:22:29	1P10206	2.61	6.73
039	WR05S	6337207	07/26/2011	07:37:31	1P10206	2.61	6.72
040	WR05S	6337207	07/26/2011	07:52:49	1P10206	2.61	6.72
041	WR03S	6337205	07/26/2011	08:38:13	1P10206	2.61	6.72
042	21S05	6339374	07/26/2011	08:53:46	1P10206	2.61	6.72
043	87S05	6339386	07/26/2011	09:09:13	1P10206	2.61	6.72
044	508AMCA	508AM1124E	07/26/2011	09:36:17	1P10206	2.62	6.73
045	PEMTQ	EVALX1124A	07/26/2011	09:51:21	1P10206	2.61	6.73
046	MIXA3OW	MIXA31124C	07/26/2011	10:06:57	1P10206	2.61	6.73
047	MIXE3VG	MIXE31124B	07/26/2011	10:23:01	1P10206	2.61	6.73
048	WR03S	6337205	07/26/2011	11:07:02	1P10206	2.61	6.72
049	PEMTR	EVALX1124A	07/26/2011	11:22:10	1P10206	2.62	6.73
050	MIXA3OX	MIXA31124C	07/26/2011	11:37:39	1P10206	2.61	6.73

	ICAL Dates		ICAL RT	QC Limits
1P10200	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.62	(2.60 - 2.64 Minutes)
		DCB = Decachlorobiphenyl	6.73	(6.71 - 6.75 Minutes)
1P10206	07/25/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.61	(2.59 - 2.63 Minutes)
		DCB = Decachlorobiphenyl	6.73	(6.71 - 6.75 Minutes)

8D
ANALYTICAL SEQUENCE

Sequence: 1P10206B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTXCLPII ID: 0.32

Instrument: H9191B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/25/2011	21:42:00	1P10200B	2.56	6.89
002		CONDITIONER	07/25/2011	21:57:33	1P10200B	2.56	6.90
003		CONDITIONER	07/25/2011	22:12:48	1P10200B		6.90
004	PIBLKAA	IBLKX1124A	07/25/2011	22:27:52	1P10200B	2.56	6.90
005	PEMAA	EVALX1124A	07/25/2011	22:43:15	1P10200B	2.55	6.90
006	MIXA1AA	MIXA11124A	07/25/2011	22:58:48	1P10200B	2.56	6.90
007	MIXA2AA	MIXA21124A	07/25/2011	23:14:05	1P10200B	2.56	6.90
008	MIXA3AA	MIXA31124C	07/25/2011	23:29:06	1P10200B	2.56	6.89
009	MIXA4AA	MIXA41124A	07/25/2011	23:44:39	1P10200B	2.56	6.90
010	MIXA5AA	MIXA51124A	07/25/2011	23:59:49	1P10200B	2.56	6.90
011	ICMAXAA	ICMAX1124A	07/26/2011	00:15:08	1P10200B	2.56	6.90
012	MIXE1AA	MIXE11124B	07/26/2011	00:30:17	1P10200B	2.56	6.90
013	MIXE2AA	MIXE21124B	07/26/2011	00:45:37	1P10200B	2.56	6.90
014	MIXE3AA	MIXE31124B	07/26/2011	01:00:30	1P10200B	2.56	6.90
015	MIXE4AA	MIXE41124B	07/26/2011	01:15:22	1P10200B	2.56	6.89
016	MIXE5AA	MIXE51124B	07/26/2011	01:30:24	1P10200B	2.56	6.90
017	TOXA1AA	TOXA11124C	07/26/2011	01:45:23	1P10206B		
018	TOXA2AA	TOXA21124C	07/26/2011	02:00:28	1P10206B		6.90
019	TOXA3AA	TOXA31124D	07/26/2011	02:15:24	1P10206B		
020	TOXA4AA	TOXA41124C	07/26/2011	02:30:09	1P10206B		
021	TOXA5AA	TOXA51124D	07/26/2011	02:45:28	1P10206B		
022	ICTXXFX	ICTXX1124D	07/26/2011	03:01:07	1P10206B		
023	ICTXXFY	ICTXX1124E	07/26/2011	03:16:42	1P10206B		
024	CHLD1AA	CHLD11124A	07/26/2011	03:32:34	1P10206B	2.56	6.90
025	CHLD2AA	CHLD21124A	07/26/2011	03:48:27	1P10206B	2.56	6.90
026	CHLD3AA	CHLD31124A	07/26/2011	04:11:49	1P10206B	2.56	6.90
027	CHLD4AA	CHLD41124A	07/26/2011	04:27:28	1P10206B	2.56	6.90
028	CHLD5AA	CHLD51124A	07/26/2011	04:51:21	1P10206B	2.56	6.90
029	AR163AA	AR1631124A	07/26/2011	05:06:24	1P10206B	2.56	6.90
030	AR213AA	AR2131124B	07/26/2011	05:21:51	1P10206B	2.56	6.90
031	AR32XAA	AR32X1124B	07/26/2011	05:36:58	1P10206B	2.56	6.90

	ICAL Dates		ICAL RT	QC Limits
1P10200B	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.56	(2.54 - 2.58 Minutes)
		DCB = Decachlorobiphenyl	6.9	(6.88 - 6.91 Minutes)
1P10206B	07/25/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.56	(2.54 - 2.58 Minutes)
		DCB = Decachlorobiphenyl	6.9	(6.88 - 6.91 Minutes)

U37B3 1543

8D
ANALYTICAL SEQUENCE

Sequence: 1P10206B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTXCLPII ID: 0.32

Instrument: H9191B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
032	AR423AA	AR4231124B	07/26/2011	05:51:59	1P10206B	2.56	6.90
033	AR483AA	AR4831124A	07/26/2011	06:07:01	1P10206B	2.56	6.90
034	AR543AA	AR5431124A	07/26/2011	06:22:19	1P10206B	2.56	6.90
035	MDLAXAA	MDLAX1124A	07/26/2011	06:37:32	1P10206B	2.56	6.90
036	MDLEXAA	MDLEX1124B	07/26/2011	06:52:29	1P10206B	2.56	6.90
037	MDTXXAA	MDTXX1124B	07/26/2011	07:07:31	1P10206B		6.89
038	MDCHXAA	MDCHX1124A	07/26/2011	07:22:29	1P10206B	2.56	6.90
039	WR05S	6337207	07/26/2011	07:37:31	1P10206B	2.55	6.90
040	WR05S	6337207	07/26/2011	07:52:49	1P10206B	2.56	6.90
041	WR03S	6337205	07/26/2011	08:38:13	1P10206B	2.56	6.90
042	21S05	6339374	07/26/2011	08:53:46	1P10206B	2.56	6.90
043	87S05	6339386	07/26/2011	09:09:13	1P10206B	2.56	6.90
044	508AMCA	508AM1124E	07/26/2011	09:36:17	1P10206B	2.56	6.90
045	PEMTQ	EVALX1124A	07/26/2011	09:51:21	1P10206B	2.56	6.90
046	MIXA3OW	MIXA31124C	07/26/2011	10:06:57	1P10206B	2.56	6.90
047	MIXE3VG	MIXE31124B	07/26/2011	10:23:01	1P10206B	2.56	6.90
048	WR03S	6337205	07/26/2011	11:07:02	1P10206B	2.56	6.90
049	PEMTR	EVALX1124A	07/26/2011	11:22:10	1P10206B	2.56	6.90
050	MIXA3OX	MIXA31124C	07/26/2011	11:37:39	1P10206B	2.56	6.90

	ICAL Dates		ICAL RT	QC Limits
1P10200B	07/19/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.56	(2.54 - 2.58 Minutes)
		DCB = Decachlorobiphenyl	6.9	(6.88 - 6.91 Minutes)
1P10206B	07/25/2011 - 07/26/2011	TCX = Tetrachloro-m-xylene	2.56	(2.54 - 2.58 Minutes)
		DCB = Decachlorobiphenyl	6.9	(6.88 - 6.91 Minutes)

05783 1544

Sample Data

Lancaster Laboratories

LOQ/MDL Summary
Pesticide Residue Analysis

SDG: USF03

Fraction: Pesticides

01363: OC Pesticides in Solids Analyte Name	Default MDL	Default LOQ	Units
Alpha BHC	0.17	0.83	ug/kg
Gamma BHC - Lindane	0.17	0.83	ug/kg
Beta BHC	0.30	0.83	ug/kg
Delta BHC	0.18	0.83	ug/kg
Heptachlor	0.30	0.83	ug/kg
Aldrin	0.33	0.83	ug/kg
Heptachlor Epoxide	0.17	0.83	ug/kg
p,p-DDE	0.33	1.7	ug/kg
Endosulfan I	0.22	0.83	ug/kg
Dieldrin	0.33	1.7	ug/kg
Endrin	0.33	1.7	ug/kg
p,p-DDD	0.33	1.7	ug/kg
Endosulfan II	0.33	1.7	ug/kg
p,p-DDT	0.33	1.7	ug/kg
Endrin Aldehyde	0.33	1.7	ug/kg
Methoxychlor	1.7	8.3	ug/kg
Mirex	0.33	1.7	ug/kg
Endosulfan Sulfate	0.33	1.7	ug/kg
Endrin Ketone	0.33	1.7	ug/kg
Chlordane	4.0	17	ug/kg
Toxaphene	11	33	ug/kg

00177: OC Pesticides in Water Analyte Name	Default MDL	Default LOQ	Units
Alpha BHC	0.0030	0.010	ug/l
Gamma BHC - Lindane	0.0020	0.010	ug/l
Beta BHC	0.0029	0.010	ug/l
Delta BHC	0.0029	0.010	ug/l
Heptachlor	0.0026	0.010	ug/l
Aldrin	0.0020	0.010	ug/l
Heptachlor Epoxide	0.0023	0.010	ug/l
p,p-DDE	0.0050	0.020	ug/l
Endosulfan I	0.0043	0.010	ug/l
Dieldrin	0.0053	0.020	ug/l
Endrin	0.0081	0.020	ug/l
p,p-DDD	0.0050	0.020	ug/l
Endosulfan II	0.015	0.020	ug/l
p,p-DDT	0.0050	0.020	ug/l
Endrin Aldehyde	0.020	0.10	ug/l
Methoxychlor	0.030	0.10	ug/l
Mirex	0.085	0.25	ug/l
Endosulfan Sulfate	0.0058	0.020	ug/l
Endrin Ketone	0.0050	0.020	ug/l
Chlordane	0.12	0.50	ug/l
Toxaphene	1.0	3.0	ug/l

USF03 1546

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339368 FG 15S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:01:18
Instrument : CP10--H9191A
Result file : 1P10200.71R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 30% (28-121) Conc.: 0.312449
%SSR(DCB) : 74% (45-150) Conc.: 0.771476

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.61	2.64	29918	0.312449
HCB	2.88	2.90	2.92	32810	0.311942
alpha-BHC	3.00	3.02	3.04	3313	0.025972
gamma-BHC	3.25	3.28	3.29	1847	0.016154
delta-BHC	3.46	3.48	3.50	5683	0.052387
Aldrin	3.91	3.94	3.95	2485	0.024512
Alachlor	4.06	4.08	4.10	20182 E	0.000000
Hept. epoxide	4.43	4.45	4.47	2292	0.024407
g. Chlordane	4.52	4.56	4.58	7299	0.074976
a. Chlordane	4.64	4.64	4.68	47135	0.506694
4,4'-DDE	4.69	4.71	4.73	131022	1.505346
Endosulfan I	4.75	4.77	4.79	4571	0.052839
o,p-DDT	5.03	5.04	5.07	21078	0.402386
Endrin	5.11	5.14	5.15	29716	0.382588
4,4'-DDT	5.35	5.37	5.39	65408	1.037844
Endrin aldehyde	5.58	5.60	5.62	13275	0.216438
Mirex	5.82	5.83	5.86	55296	1.027775
DCB	6.71	6.73	6.75	44461	0.771476

Analysis Report (B)

Injected on : JUL 20, 2011 06:01:18
Instrument : CP10--H9191B
Result file : 1P10200B.71R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : ~~29.2%~~ (28-121) Conc.: 0.304127
%SSR(DCB) : *287.2% (45-150) Conc.: 2.993556

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	10516	0.304127
delta-BHC	3.55	3.57	3.59	4749	0.073097
Heptachlor	3.60	3.64	3.64	2801	0.050730
Alachlor	3.66	3.68	3.70	2524 E	0.000000
Aldrin	3.89	3.91	3.93	1310	0.025982
Hept. epoxide	4.38	4.41	4.42	91303 E	2.139161
o,p-DDE	4.54	4.55	4.58	7663	0.260701
Endosulfan I	4.70	4.73	4.74	914	0.021702
4,4'-DDE	4.78	4.80	4.82	55135	1.269694
o,p-DDD	4.94	4.95	4.98	1380	0.054137
o,p-DDT	5.17	5.18	5.21	9062	0.335568
Kepone	5.23	5.24	5.27	4089	0.370145
4,4'-DDT	5.44	5.46	5.48	25780	0.936738
Endrin aldehyde	5.54	5.56	5.58	15133	0.575508
Endo. sulfate	5.73	5.76	5.77	8171	0.314830
Methoxychlor	5.92	5.95	5.96	3605	0.339630
Mirex	6.07	6.09	6.11	2286	0.125334
DCB	6.88	6.90	6.91	44557	2.993556

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	A B	.304 0.312449				2.70	
☐ HCB			<0.166	<0.042			
☑ alpha-BHC			<0.166	<0.034			
☑ gamma-BHC			<0.166	<0.034			
☑ beta-BHC			<0.166	<0.06			
☑ delta-BHC	B	0.073097	<0.166	0.036	J	33.01	
☑ Heptachlor			<0.166	<0.06			
☑ Aldrin			<0.166	<0.066			
☐ Alachlor							
☐ Telodrin			<0.24	<0.08			
☐ o,p-DDE			<0.34	<0.066			
☑ Hept. epoxide			<0.166	<0.034			
☐ g. Chlordane			<0.166	<0.05			
☐ a. Chlordane			<0.166	<0.046			
☑ 4,4'-DDE	B A	1.269694 1.505346	0.34	0.066		16.88	
☑ Endosulfan I			<0.166	<0.044			
☐ o,p-DDD			<0.34	<0.066			
☑ Dieldrin			<0.34	<0.066			
☐ o,p-DDT	A	0.402386	0.34	0.066		18.11	
☑ Endrin			<0.34	<0.066			
☐ Kepone			<1.4	<0.46			
☑ 4,4'-DDD			<0.34	<0.066			

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless ~~RPD > 40~~ 1547

Printed on: 7/25/2011 15:29:47

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339368 FG 15S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:01:18
Instrument : CP10--H9191A
Result file : 1P10200.71R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 20, 2011 06:01:18
Instrument : CP10--H9191B
Result file : 1P10200B.71R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Endosulfan II			<0.34	<0.066			
☑ 4,4'-DDT	A	1.037844	0.34	0.066	cJJ	10.24	
☑ Endrin aldehyde	A	0.216438	<0.34	0.066	J	90.68	** WC, ukeron A
☑ Methoxychlor			<1.66	<0.34			
☑ Mirex	B	0.125334	<0.34	0.066	cJJ	156.52	** %D WC
☑ Endo. sulfate			<0.34	<0.066			
☑ Endrin ketone			<0.34	<0.066			
☐ DCB	A	0.771476				118.04	**

Units: ug/kg

Reviewed by: Melissa A McDermott
Date: JUL 25 2011

Melissa A. McDermott
Senior Chemist

Verified by:
Date:

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits
Printed on: 7/25/2011 15:29:47

Higher Amount Found unless RPD > 40

Multiple Component Data Summary

Sample Name: 6339368 FG 15S05 Sample ID: AC **Batchnumber:** 111930027A
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on Jul 20, 2011 06:01:18
Instrument H9191A
Result file 1P10200.71R
Calibration file 1P10200
Method file PESTD

%SSR(TCX) 30.0% Conc: 0.31244
%SSR(DCB) 74.0% Conc: 0.77147

Analysis Report (B)

Injected on Jul 20, 2011 06:01:18
Instrument H9191B
Result file 1P10200B.71R
Calibration file 1P10200B
Method file PESTDB

%SSR(TCX) 29.2% Conc: 0.304127
%SSR(DCB) * 287.2% Conc: 2.99355

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)			<3.4	<0.8			4	40	
Toxaphene			<6.6	<2.2			4	40	

Units: ug/kg

%Difference = High - Low divided by the Average times 100

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 26 2011 Date:

Melissa A. McDermott
Senior Chemist

USF03 1549

7/26/2011

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339368 FG 15S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:01:18
Instrument : CP10--H9191A
Result file : 1P10200.71R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 30% (28-121) Conc.: 0.312449
%SSR(DCB) : 74% (45-150) Conc.: 0.771476

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					5	67.40	
2.84	2.85	2.90	251.019516	0.186489			1
3.26	3.28	3.32	1846.863892	1.199808			3
3.46	3.48	3.52	5682.977051	1.218863			4
*3.62	3.63	3.68	5137.328613	2.885451			6
*3.57	3.63	3.63	5137.328613	2.211744			5
Height Summation:			18055.517685				
Amount Avg CF:			1.540471	Linear:			
Aroclor-1221					3	171.62	
E 2.70	2.75	2.76	78134.45312	88.890163			1
*2.84	2.85	2.90	251.019516	0.12041			3
*2.81	2.85	2.87	251.019516	0.425709			2
Height Summation:			78636.492157				
Amount Avg CF:			29.812094	Linear:			
Aroclor-1232					5	71.26	
2.84	2.85	2.90	251.019516	0.150464			1
3.26	3.28	3.32	1846.863892	2.630579			3
3.46	3.48	3.52	5682.977051	2.651168			4
*3.63	3.63	3.68	5137.328613	6.355327			6
*3.57	3.63	3.63	5137.328613	4.711633			5
Height Summation:			18055.517685				
Amount Avg CF:			3.299834	Linear:			
Aroclor-1242					5	69.13	
2.84	2.85	2.90	251.019516	0.262607			1
3.26	3.28	3.32	1846.863892	1.643739			3
3.46	3.48	3.52	5682.977051	1.614322			4
*3.62	3.63	3.68	5137.328613	4.078459			6
*3.57	3.63	3.63	5137.328613	3.178401			5
Height Summation:			18055.517685				
Amount Avg CF:			2.155506	Linear:			
Aroclor-1248					5	120.43	
+3.92	3.94	3.97	2485.414551	0.860817			2
3.92	3.97	3.97	3988.679443	1.381468			2
3.99	4.02	4.05	1940.419434	1.048011			3
4.77	4.82	4.83	1224.776611	0.746531			4
E 4.98	5.04	5.04	21078.05078	18.846612			5
E 5.19	5.25	5.25	20881.69921	20.989269			6
Height Summation:			49113.625488				
Amount Avg CF:			8.602378	Linear:			
Aroclor-1254					6	125.88	
4.45	4.45	4.51	2291.682617	0.598447			1
+4.45	4.49	4.51	678.968445	0.177305			1
E 4.68	4.71	4.74	131022.2031	45.972703			2
4.77	4.82	4.83	1224.776611	0.256728			3
4.98	5.04	5.04	21078.05078	6.519939			4
5.12	5.14	5.18	29716.25390	11.353695			5
E 5.33	5.37	5.39	65408.34765	16.755389			6
Height Summation:			250741.314696				
Amount Avg CF:			13.57615	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 06:01:18
Instrument : CP10--H9191B
Result file : 1P10200B.71R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 29.2% (28-121) Conc.: 0.304127
%SSR(DCB) : *287.2% (45-150) Conc.: 2.993558

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					5	66.14	
3.15	3.17	3.21	1436.69165	1.336395			2
3.34	3.36	3.40	3116.812012	4.978138			3
3.50	3.53	3.56	1759.275024	0.799816			4
3.61	3.64	3.67	2800.935303	2.412364			5
3.70	3.72	3.76	2191.406738	2.662544			6
Height Summation:			11305.120727				
Amount Avg CF:			2.437851	Linear:			
Aroclor-1221					1		
2.72	2.76	2.78	32.818558	0.097609			1
Height Summation:			32.818558				
Amount Avg CF:			0.097609	Linear:			
Aroclor-1232					5	64.88	
3.15	3.17	3.21	1436.69165	2.882752			2
3.34	3.36	3.40	3116.812012	10.699664			3
3.50	3.53	3.56	1759.275024	1.837027			4
3.61	3.64	3.67	2800.935303	5.299532			5
3.70	3.72	3.76	2191.406738	5.755122			6
Height Summation:			11305.120727				
Amount Avg CF:			5.294819	Linear:			
Aroclor-1242					5	65.23	
3.15	3.17	3.21	1436.69165	1.876189			2
3.34	3.36	3.40	3116.812012	6.79377			3
3.50	3.53	3.56	1759.275024	1.068024			4
3.61	3.64	3.67	2800.935303	3.378488			5
3.70	3.72	3.76	2191.406738	3.771135			6
Height Summation:			11305.120727				
Amount Avg CF:			3.377521	Linear:			
Aroclor-1248					5	188.99	
4.01	4.03	4.07	1891.481201	1.401019			2
+4.12	4.13	4.18	1712.312134	1.387555			3
4.12	4.18	4.18	9781.602539	7.926423			3
4.88	4.91	4.94	1693.808105	2.119181			4
E 5.05	5.10	5.11	54952.86718	99.000797			5
5.31	5.34	5.37	1375.611328	2.70723			6
Height Summation:			69695.370361				
Amount Avg CF:			22.63093	Linear:			
Aroclor-1254					6	108.47	
4.52	4.55	4.58	7663.064941	4.624774			1
E 4.79	4.80	4.85	55134.53125	43.622542			2
4.88	4.91	4.94	1693.808105	0.753326			3
E 5.05	5.10	5.11	54952.86718	35.038874			4
5.30	5.34	5.36	1375.611328	1.271383			5
5.44	5.46	5.50	25780.47070	16.651469			6
+5.44	5.49	5.50	5377.237305	3.473129			6
Height Summation:			146600.353515				
Amount Avg CF:			16.993728	Linear:			

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/25/2011 15:29:49

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339368 FG 15S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:01:18
Instrument : CP10--H9191A
Result file : 1P10200.71R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	50.97	
4.91	4.92	4.97	40608.85546	10.845731			1
5.12	5.14	5.18	29716.25390	6.192047			2
E 5.33	5.37	5.39	65408.34765	14.812679			3
5.58	5.60	5.64	13274.50683	3.924292			4
5.79	5.83	5.85	55298.47656	7.853531			5
5.99	6.02	6.05	16753.73046	4.799602			6
Height Summation:			221060.170899				
Amount Avg CF:			8.071314	Linear:			
Chlordane					5	76.96	
3.63	3.63	3.70	5137.328613	1.211924			2
+ 4.01	4.02	4.08	1940.419434	0.592193			3
4.01	4.08	4.08	20182.31640	6.159406			3
4.52	4.56	4.59	7299.172363	0.734801			4
4.62	4.64	4.69	47134.87109	4.162848			5
5.22	5.25	5.29	20881.69921	7.956822			6
Height Summation:			100635.387695				
Amount Avg CF:			4.04516	Linear:			
Toxaphene					6	43.32	
* 5.35	5.37	5.42	65408.34765	35.519541			2
* 5.31	5.37	5.38	65408.34765	34.904054			1
5.55	5.58	5.62	28986.20898	12.689423			3
+ 5.55	5.60	5.62	13274.50683	5.811241			3
5.74	5.78	5.81	33962.37890	18.737125			4
5.80	5.83	5.87	55298.47656	22.766553			5
6.05	6.07	6.12	19614.23046	14.1195			6
Height Summation:			268677.990234				
Amount Avg CF:			23.122699	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 06:01:18
Instrument : CP10--H9191B
Result file : 1P10200B.71R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	70.60	
5.03	5.03	5.09	20900.63671	11.965443			1
5.18	5.18	5.24	9062.291992	4.560849			2
+ 5.18	5.22	5.24	6701.151855	3.37254			2
E 5.44	5.46	5.50	25780.47070	16.20496			3
+ 5.44	5.49	5.50	5377.237305	3.379997			3
5.71	5.71	5.77	13536.52539	10.839409			4
+ 5.71	5.76	5.77	8170.970215	6.542927			4
5.87	5.91	5.93	4416.471191	1.701276			5
6.12	6.17	6.18	4628.941406	3.382431			6
Height Summation:			78325.337402				
Amount Avg CF:			8.109061	Linear:			
Chlordane					5	83.79	
3.47	3.48	3.54	2117.165283	1.085568			1
+ 3.47	3.53	3.54	1759.275024	0.902061			1
3.59	3.64	3.66	2800.935303	1.214922			2
4.00	4.03	4.07	1891.481201	1.277412			3
4.52	4.55	4.59	7663.064941	1.470732			4
4.60	4.63	4.67	19418.90039	5.023863			5
Height Summation:			33891.547119				
Amount Avg CF:			2.014499	Linear:			
Toxaphene					6	161.42	
5.09	5.10	5.16	54952.86718	93.952425			1
+ 5.09	5.14	5.16	5407.528809	9.245204			1
+ 5.34	5.34	5.41	1375.611328	1.134191			2
5.34	5.38	5.41	2977.395264	2.454862			2
5.53	5.56	5.60	15133.44043	12.365513			3
+ 5.53	5.59	5.60	6177.351563	5.047505			3
5.71	5.76	5.78	8170.970215	14.249986			4
5.88	5.91	5.95	4416.471191	5.366793			5
* 5.92	5.95	5.99	3604.915039	3.768935			6
+* 5.88	5.95	5.95	3604.915039	4.380609			5
+ 5.92	5.99	5.99	2565.253662	2.68197			6
Height Summation:			89256.059327				
Amount Avg CF:			22.026419	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		** 45.11	4	40	
Aroclor-1221			0	0	E	** 198.69	3	5	
Aroclor-1232			0	0		** 46.42	4	10	
Aroclor-1242			0	0		** 44.17	4	30	
Aroclor-1248			0	0	E	** 89.83	4	30	
Aroclor-1254			0	0	E	22.36	4	40	
Aroclor-1260			0	0	E	0.47	4	40	
Chlordane			3.4	0.8		** 67.02	4	40	no match
Toxaphene			6.6	2.2		4.86	4	40	↓

Units: ug/kg

USF03 1551

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/25/2011 15:29:49

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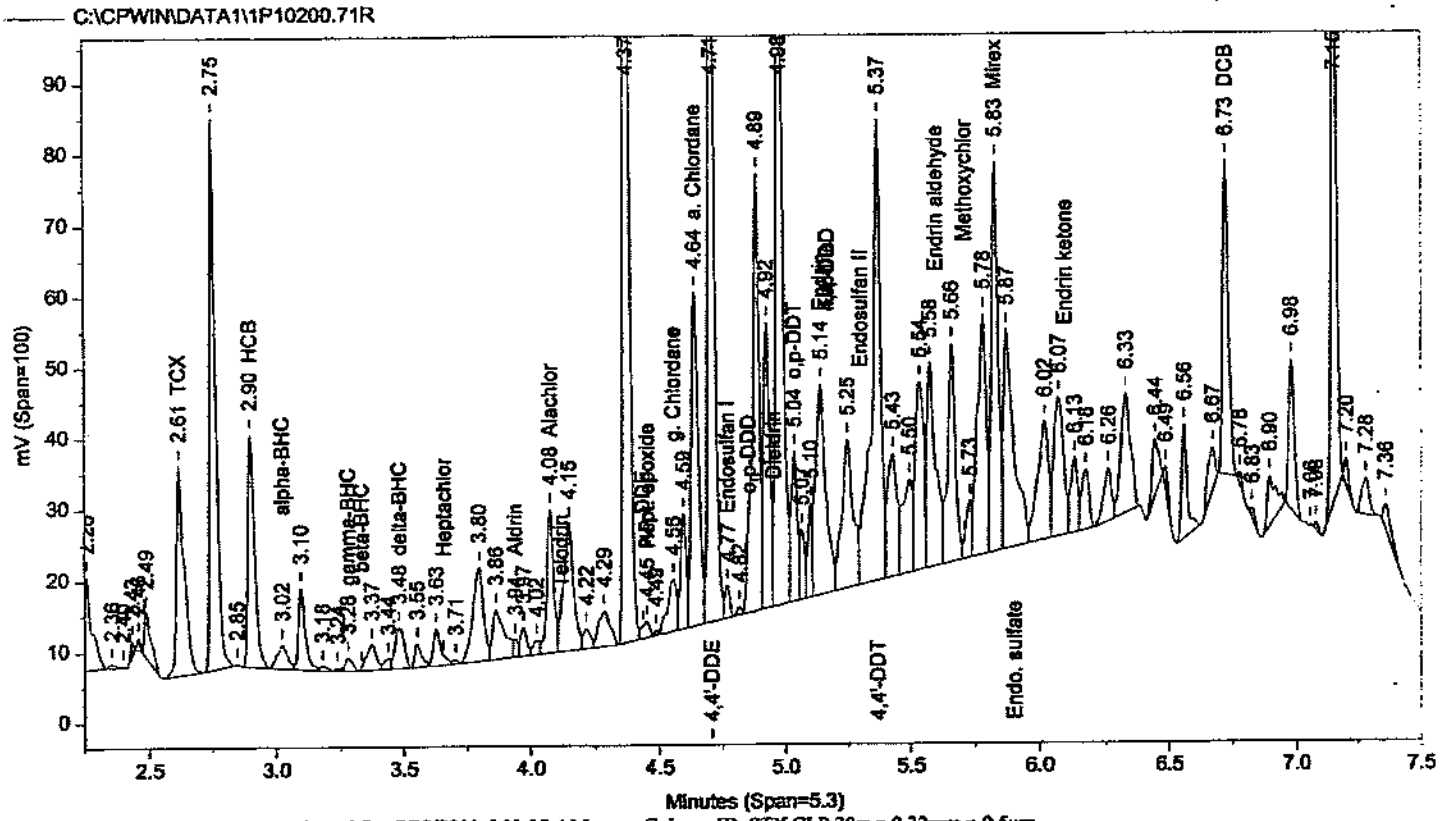
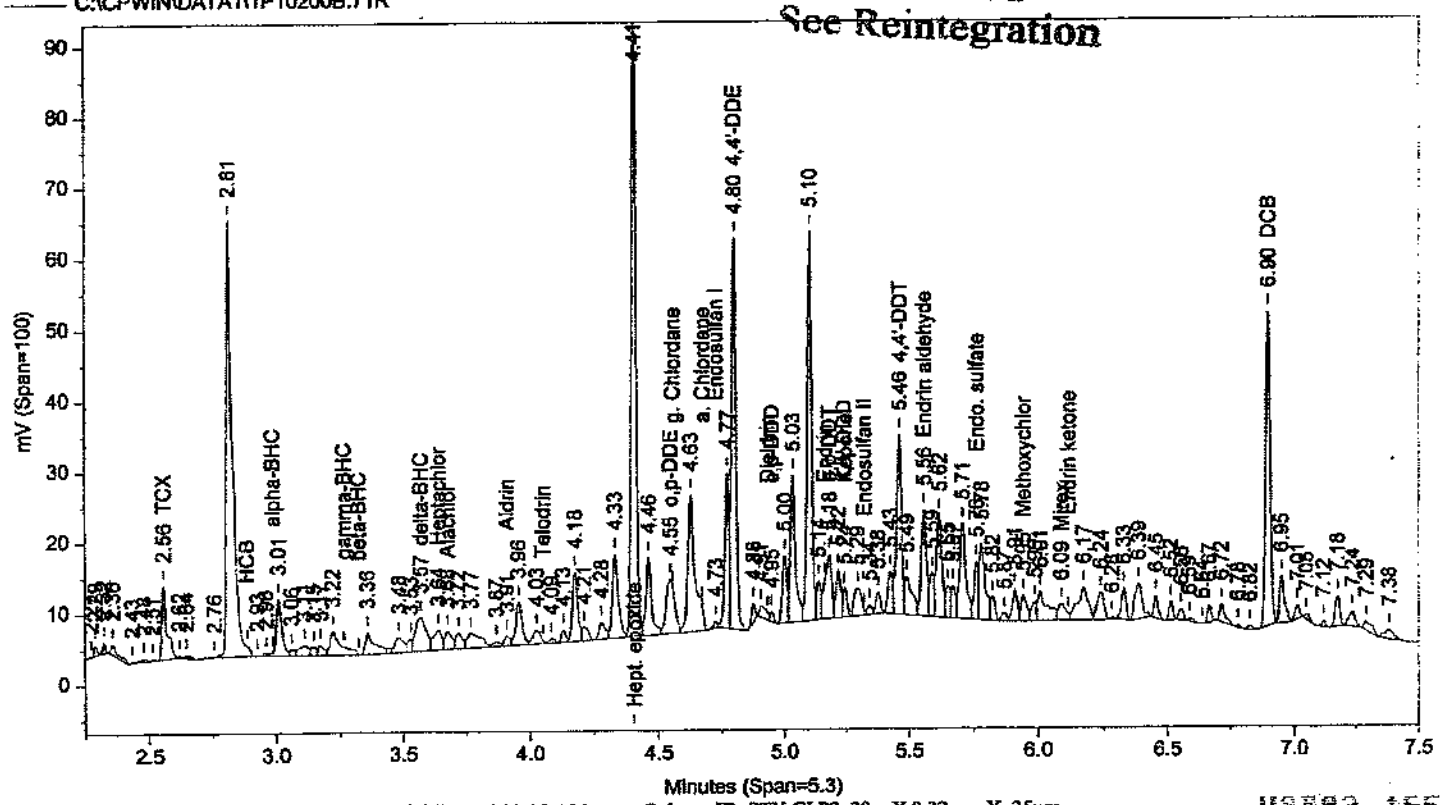


Instrument ID: CP10--H9191A Injected On: 7/20/2011 6:01:18 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.71R

Not Used
See Reintegration



Instrument ID: CP10--H9191B Injected On: 7/20/2011 6:01:18 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USPB3 1552

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.615	29918	.312	TCX	2.555	10516	.304	TCX
2.899	32810	.312	HCB	.	0	.	HCB
3.025	3313	.026	alpha-BHC	.	0	.	alpha-BHC
3.279	1847	.016	gamma-BHC	.	0	.	gamma-BHC
3.484	5683	.052	delta-BHC	3.571	4749	.073	delta-BHC
.	0	.	Heptachlor	3.641	2801	.051	Heptachlor
4.076	20182	.	Alachlor	3.679	2524	.	Alachlor
3.939	2485	.025	Aldrin	3.909	1310	.026	Aldrin
4.453	2292	.024	Hept. epoxide	4.405	91303	2.139	Hept. epoxide
.	0	.	o,p-DDE	4.548	7663	.261	o,p-DDE
4.555	7299	.075	g. Chlordane	.	0	.	g. Chlordane
4.639	47135	.507	a. Chlordane	.	0	.	a. Chlordane
4.707	131022	1.505	4,4'-DDE	4.8	55135	1.27	4,4'-DDE
4.768	4571	.053	Endosulfan I	4.725	914	.022	Endosulfan I
.	0	.	o,p-DDD	4.951	1380	.054	o,p-DDD
5.037	21078	.402	o,p-DDT	5.182	9062	.336	o,p-DDT
5.143	29716	.383	Endrin	.	0	.	Endrin
.	0	.	Kepone	5.244	4089	.37	Kepone
5.369	65408	1.038	4,4'-DDT	5.462	25780	.937	4,4'-DDT
.	0	.	Endrin aldehyde	5.559	15133	.576	Endrin aldehyde
.	0	.	Endo. sulfate	5.763	8171	.315	Endo. sulfate
5.829	55298	1.028	Mirex	6.09	2286	.125	Mirex
.	0	.	Methoxychlor	5.946	3605	.34	Methoxychlor
6.726	44461	.771	DCB	6.898	44557	2.994	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.71A
Area File: C:\CPWIN\DATA1\1P10200B.71A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL Not Used
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL See Reintegration
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 6:08:56 AM
File Reported On: 7/20/2011 at 6:09:06 AM

10X REPLOTS

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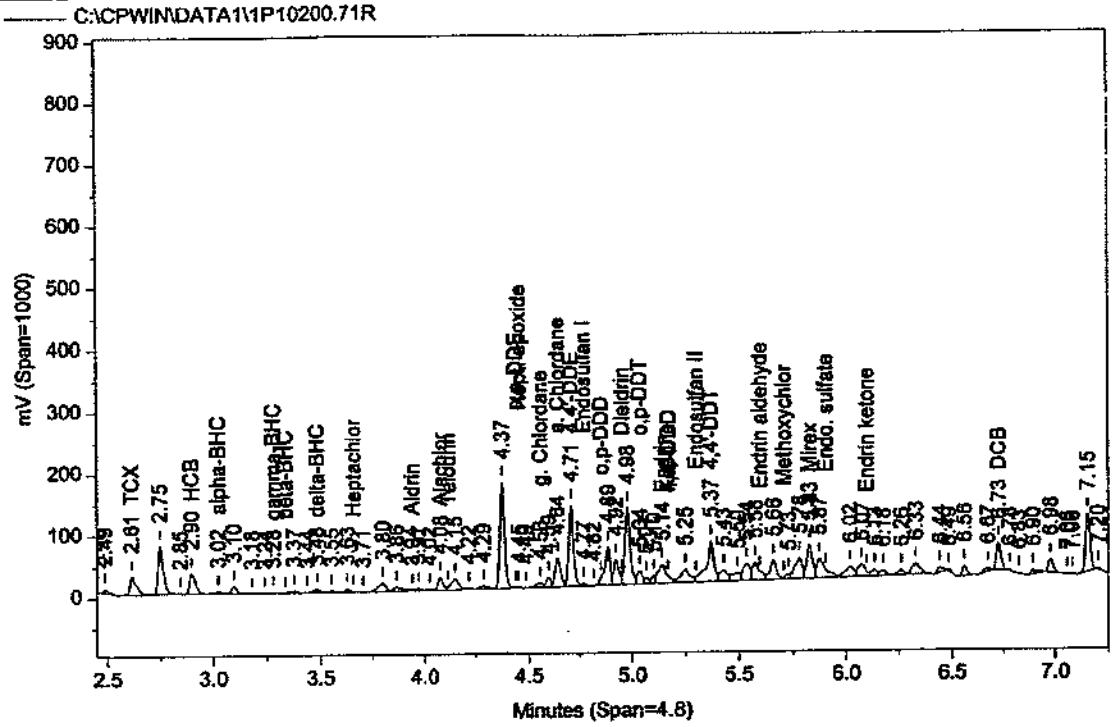

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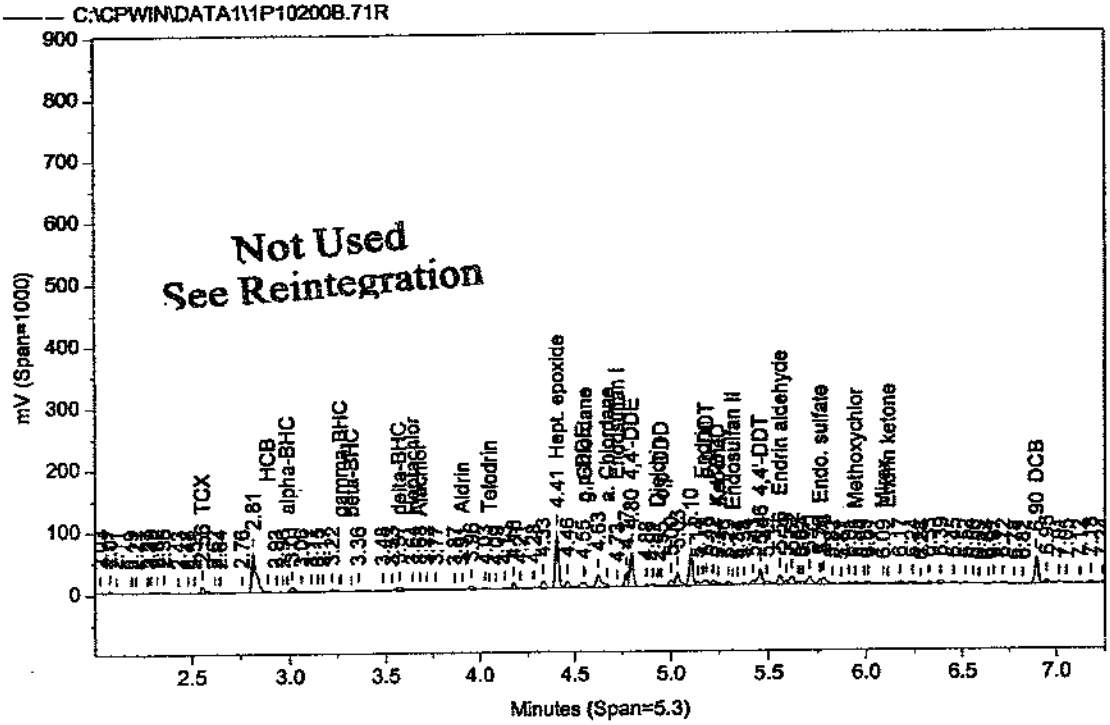

LANCASTER LABORATORIES

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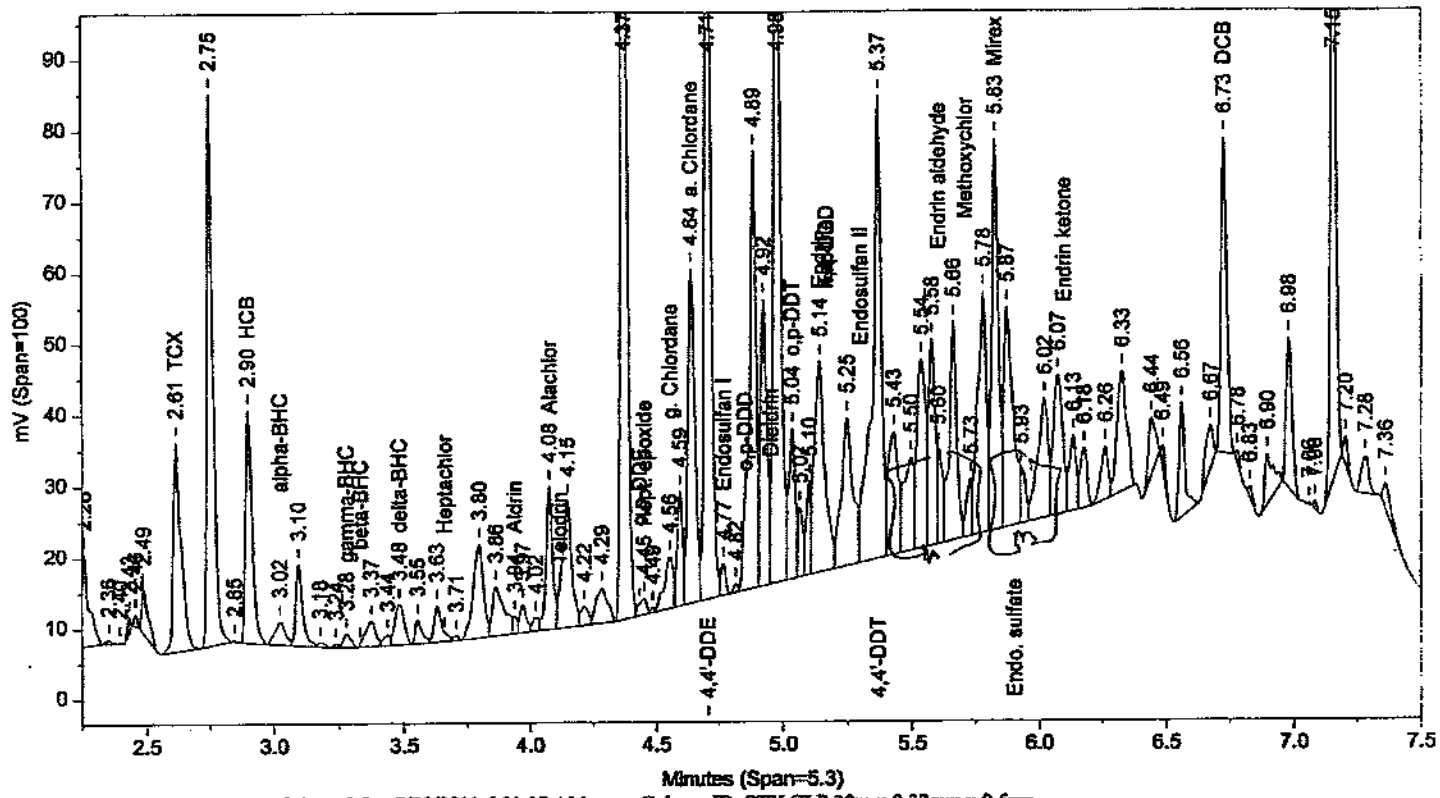


Instrument ID: CP10--H9191A Injected On: 7/20/2011 6:01:18 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.71R

M = Manually Integrated

Analyst Marie 7/21/11

Approved by

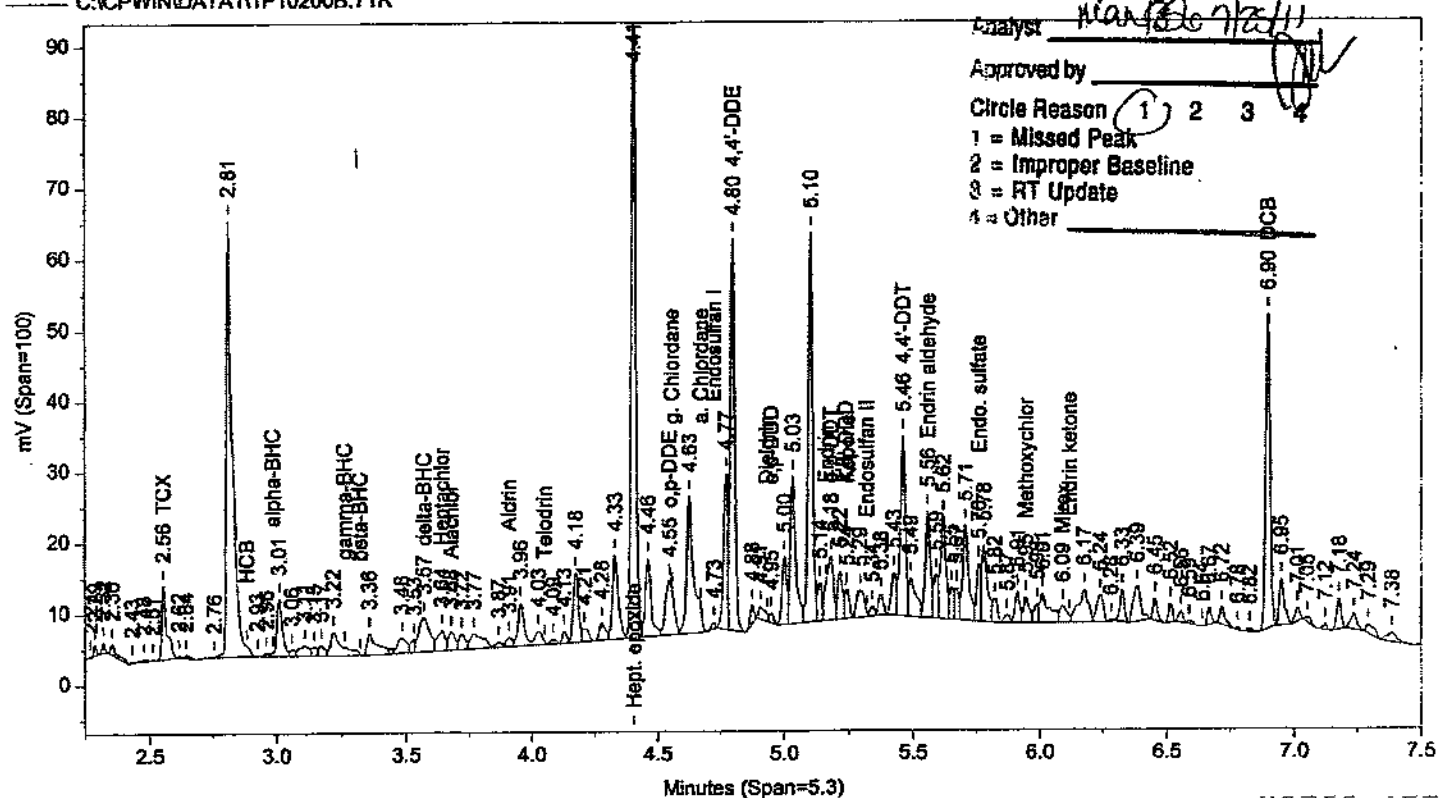
Circle Reason 1 2 3 4

1 = Missed Peak

2 = Improper Baseline

3 = RT Update

4 = Other



Instrument ID: CP10--H9191B Injected On: 7/20/2011 6:01:18 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF03 1555

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.615	29918	.312	TCX	2.555	10516	.304	TCX
2.899	32810	.312	HCB	.	0	.	HCB
3.025	3313	.026	alpha-BHC	.	0	.	alpha-BHC
3.279	1847	.016	gamma-BHC	.	0	.	gamma-BHC
3.484	5683	.052	delta-BHC	3.571	4749	.073	delta-BHC
.	0	.	Heptachlor	3.641	2801	.051	Heptachlor
4.076	20182	.	Alachlor	3.679	2524	.	Alachlor
3.939	2485	.025	Aldrin	3.909	1310	.026	Aldrin
4.453	2292	.024	Hept. epoxide	4.405	91303	2.139	Hept. epoxide
.	0	.	o,p-DDE	4.548	7663	.261	o,p-DDE
4.555	7299	.075	g. Chlordane	.	0	.	g. Chlordane
4.639	47135	.507	a. Chlordane	.	0	.	a. Chlordane
4.707	131022	1.505	4,4'-DDE	4.8	55135	1.27	4,4'-DDE
4.768	4571	.053	Endosulfan I	4.725	914	.022	Endosulfan I
.	0	.	o,p-DDD	4.951	1380	.054	o,p-DDD
5.037	21078	.402	o,p-DDT	5.182	9062	.336	o,p-DDT
5.143	29716	.383	Endrin	.	0	.	Endrin
.	0	.	Kepone	5.244	4089	.37	Kepone
5.369	65408	1.038	4,4'-DDT	5.462	25780	.937	4,4'-DDT
5.603	13275	.216	Endrin aldehyde	5.559	15133	.576	Endrin aldehyde
.	0	.	Endo. sulfate	5.763	8171	.315	Endo. sulfate
5.829	55298	1.028	Mirex	6.09	2286	.125	Mirex
.	0	.	Methoxychlor	5.946	3605	.34	Methoxychlor
6.726	44461	.771	DCB	6.898	44557	2.994	DCB

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/25/2011 3:04:32 PM
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10X REPLOTS

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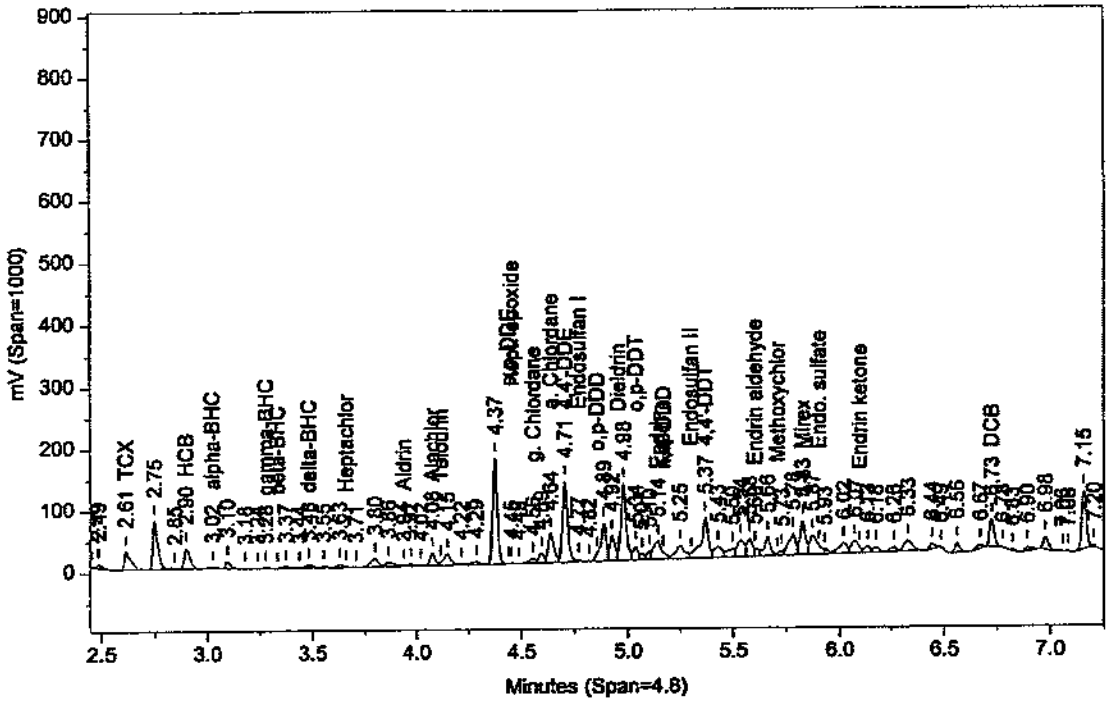

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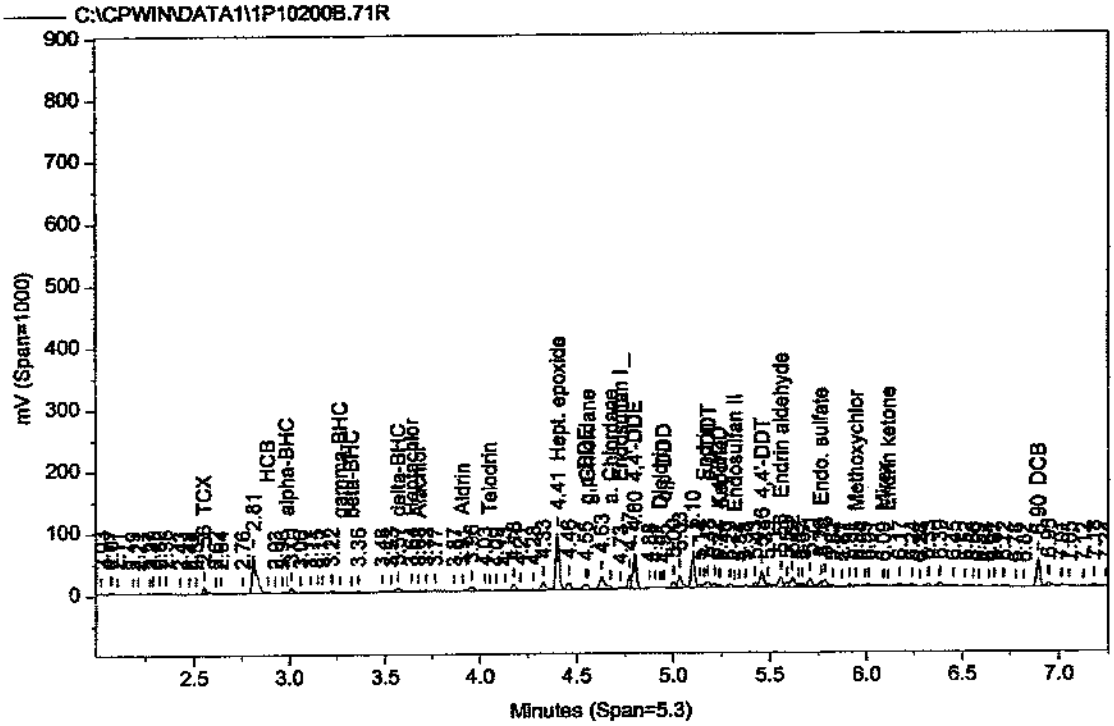


Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339370FG 17S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:16:40
Instrument : CP10--H9191A
Result file : 1P10200.72R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 45.6% (28-121) Conc.: 0.473647
%SSR(DCB) : 77.7% (45-150) Conc.: 0.80883

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	45429	0.473647
HCB	2.88	2.90	2.92	8008	0.076005
alpha-BHC	3.00	3.02	3.04	5943	0.046513
beta-BHC	3.31	3.35	3.35	3987	0.073192
delta-BHC	3.46	3.49	3.50	5788	0.053268
Aldrin	3.91	3.94	3.95	18054	0.177760
Alachlor	4.06	4.07	4.10	1436 E	0.000000
Hept. epoxide	4.43	4.44	4.47	1668	0.017734
g. Chlordane	4.52	4.56	4.58	6693	0.068638
a. Chlordane	4.64	4.64	4.68	24587	0.263872
4,4'-DDE	4.69	4.70	4.73	50632	0.580761
Endosulfan I	4.75	4.77	4.79	2074	0.023933
o,p-DDD	4.83	4.86	4.87	3154	0.064975
o,p-DDT	5.03	5.04	5.07	10063	0.191794
Endrin	5.11	5.14	5.15	15348	0.197267
Endosulfan II	5.28	5.29	5.32	5301	0.093026
4,4'-DDT	5.35	5.37	5.39	24982	0.395730
Methoxychlor	5.69	5.73	5.73	3680	0.118010
Mirex	5.82	5.83	5.86	14310	0.265514
Endrin ketone	6.08	6.08	6.12	18035	0.219955
DCB	6.71	6.73	6.75	46691	0.808830

Analysis Report (B)

Injected on : JUL 20, 2011 06:16:40
Instrument : CP10--H9191B
Result file : 1P10200B.72R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 45.3% (28-121) Conc.: 0.471393
%SSR(DCB) : *264.7% (45-150) Conc.: 2.755089

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	16327	0.471393
HCB	2.87	2.89	2.91	491	0.010414
gamma-BHC	3.24	3.26	3.28	1069	0.015606
delta-BHC	3.55	3.56	3.59	6266	0.096287
Heptachlor	3.60	3.62	3.64	2325	0.042047
Alachlor	3.66	3.68	3.70	3028 E	0.000000
Aldrin	3.89	3.91	3.93	1695	0.033580
Telodrin	4.03	4.03	4.07	4638	0.121759
Hept. epoxide	4.38	4.41	4.42	7525	0.176001
o,p-DDE	4.54	4.54	4.58	9514	0.323131
Endosulfan I	4.70	4.73	4.74	194	0.004602
4,4'-DDE	4.78	4.80	4.82	10828	0.248952
o,p-DDD	4.94	4.95	4.98	368	0.014426
o,p-DDT	5.17	5.18	5.21	2777	0.102657
Kepone	5.23	5.27	5.27	2206	0.199383
Endosulfan II	5.30	5.31	5.34	1633	0.048653
4,4'-DDT	5.44	5.46	5.48	9830	0.356583
Endrin aldehyde	5.54	5.56	5.58	9092	0.345200
Methoxychlor	5.92	5.95	5.96	1206	0.113402
Mirex	6.07	6.09	6.11	8789	0.480984
DCB	6.88	6.90	6.91	41076	2.755089

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference		Comments
☐ TCX	A B	0.473647				0.48		
☐ HCB			<0.1657	<0.0419				
☑ alpha-BHC			<0.1657	<0.0339				
☑ gamma-BHC			<0.1657	<0.0339				
☑ beta-BHC			<0.1657	<0.0599				
☑ delta-BHC	B A	0.053268	<0.1657	0.0359	J	57.53	**	Pr 003
☑ Heptachlor			<0.1657	<0.0599				
☑ Aldrin			<0.1657	<0.0659				
☐ Alachlor								
☐ Telodrin			<0.2396	<0.0799				
☐ o,p-DDE			<0.3394	<0.0659				
☑ Hept. epoxide			<0.1657	<0.0339				
☐ g. Chlordane			<0.1657	<0.0499				
☐ a. Chlordane			<0.1657	<0.0459				
☑ 4,4'-DDE	B	0.248952	<0.3394	0.0659	J	79.98	**	
☑ Endosulfan I			<0.1657	<0.0439				
☐ o,p-DDD			<0.3394	<0.0659				
☑ Dieldrin			<0.3394	<0.0659				
☐ o,p-DDT	B	0.102657	<0.3394	0.0659	J	60.54	**	
☑ Endrin			<0.3394	<0.0659				

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:18:36

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339370 FG 17S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:16:40
Instrument : CP10-H9191A
Result file : 1P10200.72R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 20, 2011 06:16:40
Instrument : CP10-H9191B
Result file : 1P10200B.72R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ Kepone			<1.3977	<0.4592			
☑ 4,4'-DDD			<0.3394	<0.0659			
☑ Endosulfan II			<0.3394	<0.0659			
☑ 4,4'-DDT	B A	~~0.395738~~	0.3394	0.0659		10.41	
☑ Endrin aldehyde			<0.3394	<0.0659			
☑ Methoxychlor			<1.6572	<0.3394			
☑ Mirex	B A	~~0.265514~~	<0.3394	0.0659	J	57.73 **	
☑ Endo. sulfate			<0.3394	<0.0659			
☑ Endrin ketone			<0.3394	<0.0659			
☐ DCB	A	0.808830				109.22 **	

Units: ug/kg

Reviewed by: Melissa A McDermott
Date: JUL 25 2011

Melissa A. McDermott
Senior Chemist

Verified by:
Date: 7/21/11

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits
Higher Amount Found unless RPD > 40

USF03 1559

Printed on: 7/21/2011 14:18:36

Multiple Component Data Summary

Sample Name: 6339370 FG 17S05 Sample ID: AC **Batchnumber:** 111930027A
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on	Jul 20, 2011 06:16:40
Instrument	H9191A
Result file	1P10200.72R
Calibration file	1P10200
Method file	PESTD

%SSR(TCX)	45.6%	Conc:	0.473647
%SSR(DCB)	77.7%	Conc:	0.80883

Analysis Report (B)

Injected on	Jul 20, 2011 06:16:40
Instrument	H9191B
Result file	1P10200B.72R
Calibration file	1P10200B
Method file	PESTDB

%SSR(TCX)	45.3%	Conc:	0.471393
%SSR(DCB)	* 264.7%	Conc:	2.755085

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)			<3.3943	<0.7987			4	40	
Toxaphene			<6.589	<2.1963			4	40	

Units: ug/kg

%Difference = High - Low divided by the Average times 100

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 26 2011 Date: 7/26/11

Melissa A. McDermott
Senior Chemist

USF03 1568

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: 6339370 FG 17S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:16:40
Instrument : CP10--H9191A
Result file : 1P10200.72R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 45.6% (28-121) Conc.: 0.473647
%SSR(DCB) : 77.7% (45-150) Conc.: 0.80883

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**41.20**	
3.10	3.13	3.16	957.516785	0.356233			2
3.26	3.30	3.32	1888.591064	1.224874			3
3.46	3.49	3.52	5788.210938	1.239367			4
*3.62	3.63	3.68	2903.617432	1.628143			6
*3.57	3.63	3.63	2903.617432	1.247998			5
Height Summation:			**14441.553651**				
Amount Avg CF:			**1.139323**	Linear:			
Aroclor-1221					**2**	**114.34**	
+2.70	2.72	2.76	411.016998	0.466818			1
E 2.70	2.75	2.76	124393.2421	141.281307			1
E 2.81	2.83	2.87	31238.30078	14.959622			2
Height Summation:			**155631.542969**				
Amount Avg CF:			**78.120465**	Linear:			
Aroclor-1232					**5**	**41.92**	
3.10	3.13	3.16	957.516785	0.757272			2
3.26	3.30	3.32	1888.591064	2.685537			3
3.46	3.49	3.52	5788.210938	2.695768			4
*3.63	3.63	3.68	2903.617432	3.586053			6
*3.57	3.63	3.63	2903.617432	2.658583			5
Height Summation:			**14441.553651**				
Amount Avg CF:			**2.476643**	Linear:			
Aroclor-1242					**5**	**41.94**	
3.10	3.13	3.16	957.516785	0.493329			2
3.26	3.30	3.32	1888.591064	1.67808			3
3.46	3.49	3.52	5788.210938	1.641479			4
*3.62	3.63	3.68	2903.617432	2.301309			6
*3.57	3.63	3.63	2903.617432	1.793443			5
Height Summation:			**14441.553651**				
Amount Avg CF:			**1.581528**	Linear:			
Aroclor-1248					**5**	**86.76**	
3.82	3.86	3.88	900.745911	0.426204			2
3.99	4.03	4.05	1348.549438	0.727133			3
+4.77	4.77	4.83	2074.079834	1.262098			4
4.77	4.83	4.83	7898.522949	4.806327			4
4.98	5.04	5.04	10063.43945	8.983097			5
5.19	5.22	5.25	5958.274414	5.979003			6
Height Summation:			**26169.632165**				
Amount Avg CF:			**4.184353**	Linear:			
Aroclor-1254					**6**	**106.83**	
4.45	4.49	4.51	1656.140625	0.431763			1
E 4.68	4.70	4.74	50632.46093	17.736216			2
+4.77	4.77	4.83	2074.079834	0.434029			3
4.77	4.83	4.83	7898.522949	1.65287			3
4.98	5.04	5.04	10063.43945	3.10768			4
5.12	5.14	5.18	15347.56933	5.854092			5
+5.33	5.33	5.39	12452.08203	3.184492			6
5.33	5.37	5.39	24981.79882	6.388837			6
Height Summation:			**110579.932129**				
Amount Avg CF:			**5.86191**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 06:16:40
Instrument : CP10--H9191B
Result file : 1P10200B.72R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 45.3% (28-121) Conc.: 0.471393
%SSR(DCB) : *264.7% (45-150) Conc.: 2.755089

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**110.30**	
2.86	2.89	2.91	491.409332	0.78479			1
E 3.15	3.15	3.21	18924.80859	17.574364			2
3.34	3.36	3.40	4309.86084	6.872209			3
+3.50	3.53	3.56	2067.1521	0.938222			4
3.50	3.56	3.56	6266.314453	2.844103			4
3.61	3.62	3.67	2325.384277	1.999453			5
3.70	3.73	3.76	3028.915771	3.673988			6
Height Summation:			**35346.693267**				
Amount Avg CF:			**5.624818**	Linear:			
Aroclor-1221					**2**	**140.97**	
E 2.81	2.81	2.87	86101.97656	393.313726			2
2.86	2.89	2.92	491.409332	0.635502			3
Height Summation:			**86593.385895**				
Amount Avg CF:			**196.974614**	Linear:			
Aroclor-1232					**6**	**112.25**	
2.86	2.89	2.92	491.409332	0.647646			1
E 3.15	3.15	3.21	18924.80859	37.909848			2
E 3.34	3.36	3.40	4309.86084	14.770648			3
+3.50	3.53	3.56	2067.1521	2.15492			4
3.50	3.56	3.56	6266.314453	6.532371			4
3.61	3.62	3.67	2325.384277	4.392442			5
3.70	3.73	3.76	3028.915771	7.941372			6
Height Summation:			**35346.693267**				
Amount Avg CF:			**12.032388**	Linear:			
Aroclor-1242					**6**	**111.24**	
2.86	2.89	2.92	491.409332	1.130917			1
E 3.15	3.15	3.21	18924.80859	24.672962			2
3.34	3.36	3.40	4309.86084	9.378649			3
+3.50	3.53	3.56	2067.1521	1.252842			4
3.50	3.56	3.56	6266.314453	3.797835			4
3.61	3.62	3.67	2325.384277	2.800211			5
3.70	3.73	3.76	3028.915771	5.20371			6
Height Summation:			**35346.693267**				
Amount Avg CF:			**7.830714**	Linear:			
Aroclor-1248					**6**	**75.88**	
3.77	3.82	3.83	9649.740234	9.139684			1
4.01	4.03	4.07	4638.001465	3.42965			2
4.12	4.13	4.18	13447.90820	10.879245			3
E 4.88	4.91	4.94	14531.97168	18.15119			4
E 5.05	5.10	5.11	14685.26757	26.412347			5
5.31	5.31	5.37	1633.016357	3.208461			6
+5.31	5.35	5.37	662.740479	1.302116			6
Height Summation:			**58585.905517**				
Amount Avg CF:			**11.870096**	Linear:			

USF03 1561

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:18:50

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339370 FG 17S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:16:40
Instrument : CP10-H9191A
Result file : 1P10200.72R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					5	65.73	
4.91	4.93	4.97	4998.378418	1.332736			1
5.12	5.14	5.18	15347.56933	3.192689			2
+ 5.33	5.33	5.39	12452.08203	2.815265			3
5.33	5.37	5.39	24981.79882	5.648081			3
5.79	5.83	5.85	14309.52539	2.028868			5
5.99	6.03	6.05	26404.92773	7.551887			6
Height Summation:			**86042.199707**				
Amount Avg CF:			**3.950852**	Linear:			
Chlordane					6	100.07	
3.56	3.57	3.63	1912.928711	0.549697			1
3.63	3.63	3.70	2903.617432	0.68384			2
+ 4.01	4.03	4.08	1348.549438	0.410877			3
4.01	4.07	4.08	1436.457886	0.437661			3
+ 4.52	4.52	4.59	2423.998779	0.243616			4
4.52	4.56	4.59	6693.310059	0.672688			4
+ 4.62	4.64	4.69	24587.46093	2.167897			5
4.62	4.68	4.69	45847.11718	4.042379			5
5.22	5.22	5.29	5958.274414	2.26658			6
Height Summation:			**64751.705690**				
Amount Avg CF:			**1.442141**	Linear:			
Toxaphene					6	31.77	
+ 5.31	5.33	5.38	12452.08203	6.633786			1
* 5.35	5.37	5.42	24981.79882	13.543617			2
* 5.31	5.37	5.38	24981.79882	13.308932			1
+ 5.35	5.41	5.42	9871.364258	5.351655			2
5.55	5.58	5.62	22072.22070	9.646578			3
+ 5.74	5.77	5.81	8839.967773	4.868917			4
5.74	5.79	5.81	13364.64941	7.361041			4
5.80	5.83	5.87	14309.52539	5.881473			5
6.05	6.08	6.12	16034.68554	12.960848			6
Height Summation:			**117744.678711**				
Amount Avg CF:			**10.450415**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 06:16:40
Instrument : CP10-H9191B
Result file : 1P10200B.72R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	43.43	
4.52	4.54	4.58	9513.960938	5.732263			1
4.79	4.80	4.85	10828.36621	8.553168			2
4.88	4.91	4.94	14531.97168	6.452381			3
5.05	5.10	5.11	14685.26757	9.347994			4
5.30	5.31	5.36	1633.016357	1.506774			5
+ 5.30	5.35	5.36	662.740479	0.611506			5
5.44	5.46	5.50	9830.071289	6.338627			6
+ 5.44	5.49	5.50	3077.077148	1.984161			6
Height Summation:			**61022.654053**				
Amount Avg CF:			**6.321868**	Linear:			
Aroclor-1260					5	84.08	
5.03	5.03	5.09	4082.255859	2.333169			1
5.18	5.18	5.24	2776.96167	1.395257			2
+ 5.18	5.22	5.24	1451.337402	0.72921			2
5.44	5.46	5.50	9830.071289	6.168656			3
+ 5.44	5.49	5.50	3077.077148	1.930956			3
5.71	5.71	5.77	9023.753906	7.213773			4
5.87	5.91	5.93	1462.688354	0.562507			5
Height Summation:			**27175.731078**				
Amount Avg CF:			**3.534672**	Linear:			
Chlordane					6	71.88	
+ 3.47	3.48	3.54	1861.073364	0.95267			1
3.47	3.53	3.54	2067.1521	1.058161			1
3.59	3.62	3.66	2325.384277	1.00697			2
4.00	4.03	4.07	4638.001465	3.127062			3
4.52	4.54	4.59	9513.960938	1.822927			4
+ 4.60	4.62	4.67	14310.02050	3.695985			5
* 4.60	4.64	4.67	23798.25390	6.146601			5
* 4.64	4.64	4.71	23798.25390	5.385693			6
Height Summation:			**66141.006592**				
Amount Avg CF:			**3.091236**	Linear:			
Toxaphene					6	111.73	
5.09	5.10	5.16	14685.26757	25.065495			1
+ 5.09	5.14	5.16	2779.608154	4.744364			1
+ 5.34	5.35	5.41	662.740479	0.54552			2
5.34	5.38	5.41	1518.792358	1.250161			2
5.53	5.56	5.60	9092.430664	7.417051			3
5.71	5.71	5.78	9023.753906	15.711036			4
5.88	5.91	5.95	1462.688354	1.774468			5
* 5.92	5.95	5.99	1205.681641	1.258442			6
+* 5.88	5.95	5.95	1205.681641	1.462679			5
Height Summation:			**35988.614501**				
Amount Avg CF:			**8.746109**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		** 132.63	4	40	
Aroclor-1221			0	0	E	** 86.41	3	5	
Aroclor-1232			0	0		** 131.72	4	10	
Aroclor-1242			0	0		** 132.79	4	30	
Aroclor-1248			0	0		** 95.75	4	30	
Aroclor-1254			0	0	E	7.55	4	40	
Aroclor-1260			0	0		11.12	4	40	USF03 5562

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:18:50

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6339370** FG 17S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on	: JUL 20, 2011 06:16:40
Instrument	: CP10--H9191A
Result file	: 1P10200.72R
Calibration file	: 1P10200.CAL
Method file	: PESTD.MET

Analysis Report (B)

Injected on	: JUL 20, 2011 06:16:40
Instrument	: CP10--H9191B
Result file	: 1P10200B.72R
Calibration file	: 1P10200B.CAL
Method file	: PESTDB.MET

Summary Report

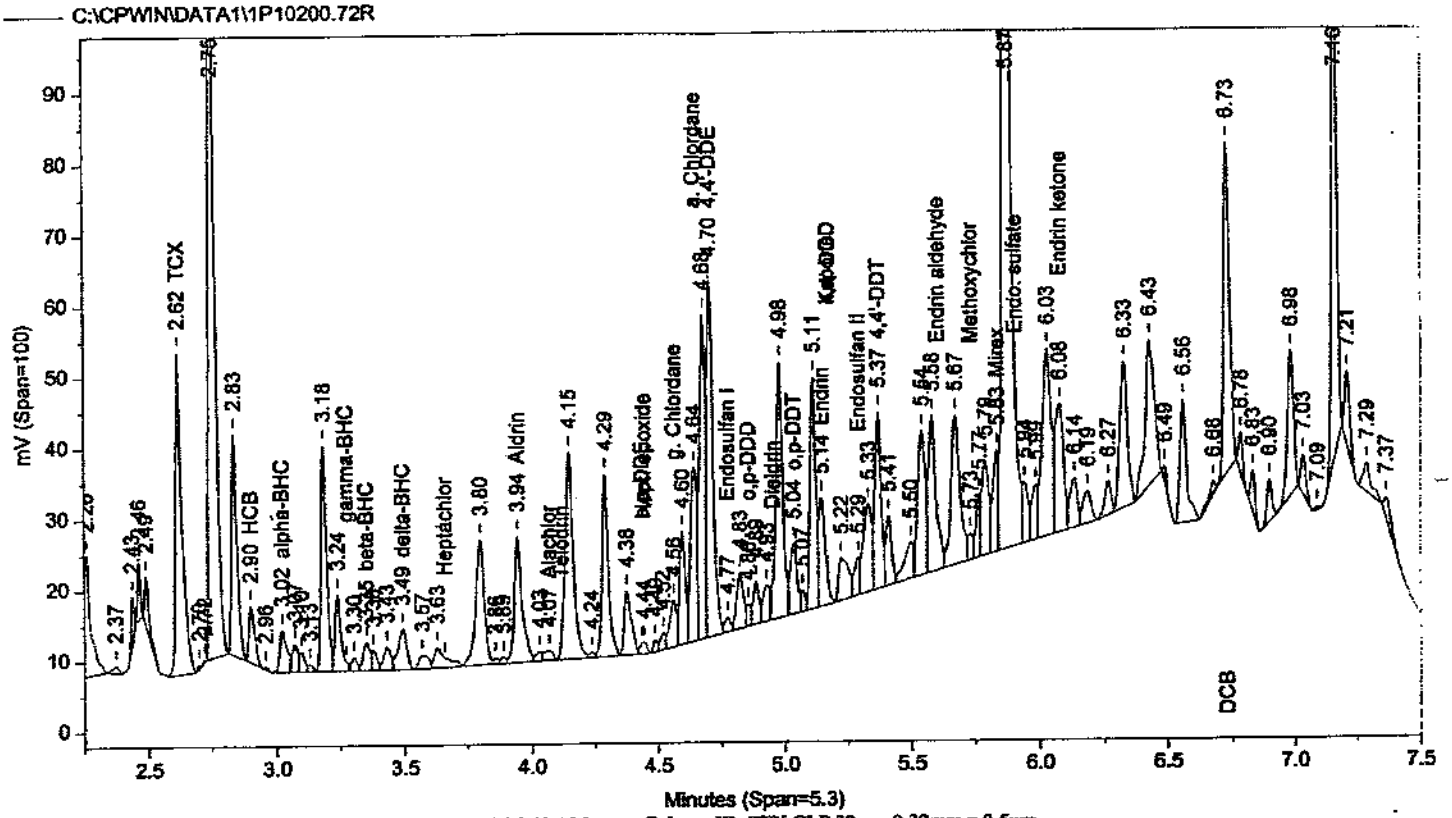
Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Chlordane			3.3943	0.7987		** 72.75	4	40	NO match
Toxaphene			6.589	2.1963		17.76	4	40	↓

Units: ug/kg

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:18:50

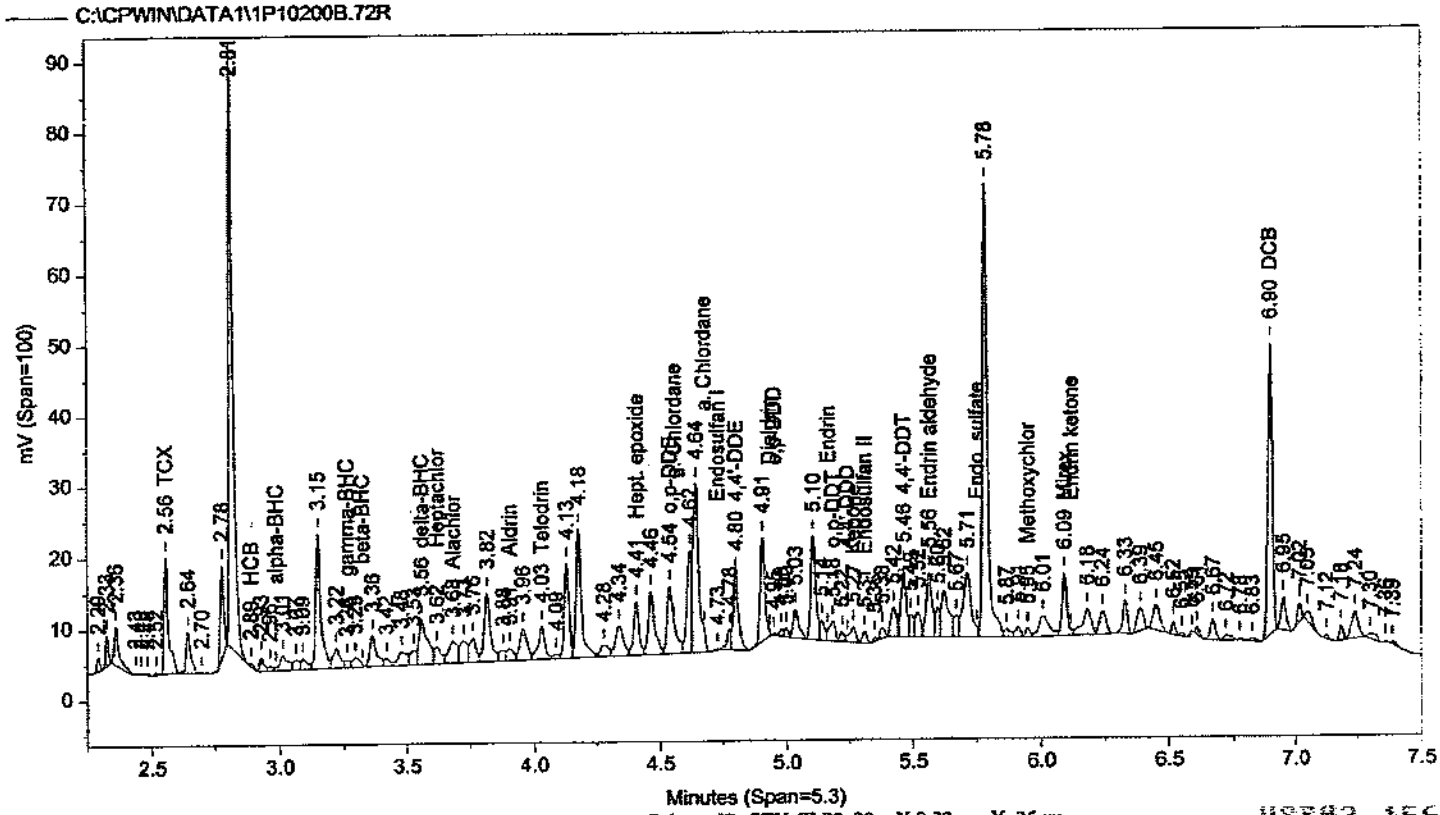
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.72R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 6:16:40 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.72R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 6:16:40 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF03 1564

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.1 Dilution Factor: 4
Analyst: 0856

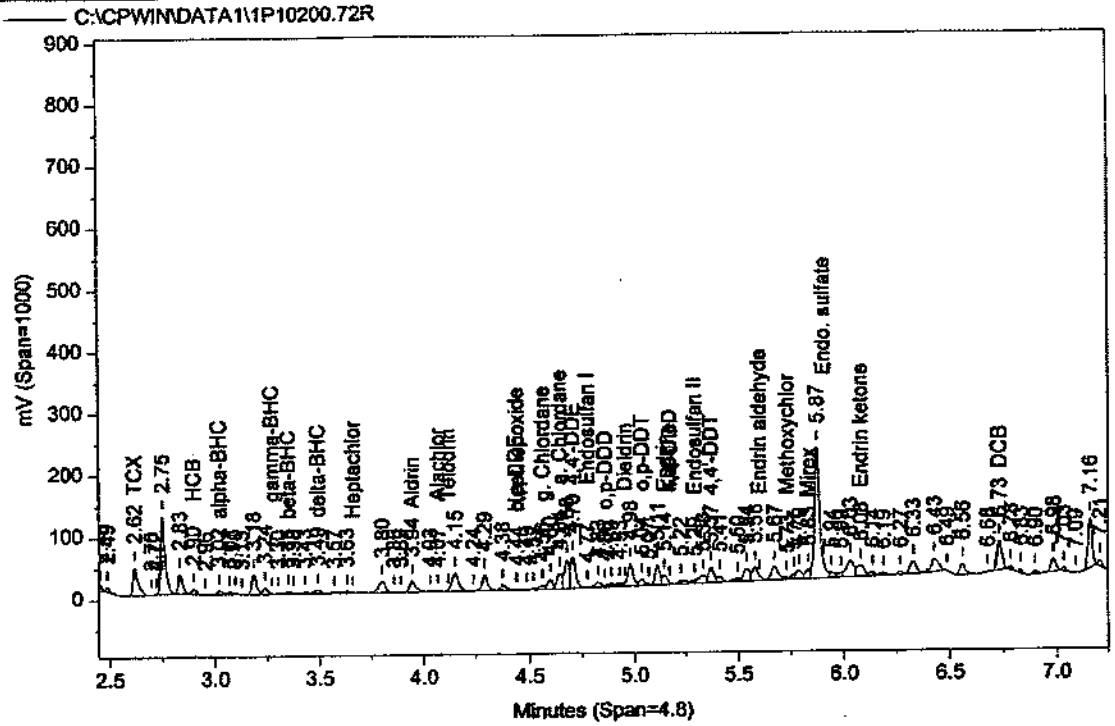
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	45429	.474	TCX	2.557	16327	.471	TCX
2.899	8008	.076	HCB	2.89	491	.01	HCB
3.021	5943	.047	alpha-BHC	.	0	.	alpha-BHC
.	0	.	gamma-BHC	3.262	1069	.016	gamma-BHC
3.349	3987	.073	beta-BHC	.	0	.	beta-BHC
3.493	5788	.053	delta-BHC	3.56	6266	.096	delta-BHC
.	0	.	Heptachlor	3.621	2325	.042	Heptachlor
4.067	1436	.	Alachlor	3.685	3028	.	Alachlor
3.945	18054	.178	Aldrin	3.907	1695	.034	Aldrin
.	0	.	Telodrin	4.031	4638	.122	Telodrin
4.442	1668	.018	Hept. epoxide	4.407	7525	.176	Hept. epoxide
.	0	.	o,p-DDE	4.539	9514	.323	o,p-DDE
4.562	6693	.069	g. Chlordane	.	0	.	g. Chlordane
4.642	24587	.264	a. Chlordane	.	0	.	a. Chlordane
4.705	50632	.581	4,4'-DDE	4.802	10828	.249	4,4'-DDE
4.774	2074	.024	Endosulfan I	4.729	194	.005	Endosulfan I
4.858	3154	.065	o,p-DDD	4.952	368	.014	o,p-DDD
5.035	10063	.192	o,p-DDT	5.183	2777	.103	o,p-DDT
5.144	15348	.197	Endrin	.	0	.	Endrin
.	0	.	Kepone	5.265	2206	.199	Kepone
5.291	5301	.093	Endosulfan II	5.311	1633	.049	Endosulfan II
5.371	24982	.396	4,4'-DDT	5.464	9830	.357	4,4'-DDT
.	0	.	Endrin aldehyde	5.562	9092	.345	Endrin aldehyde
5.73	3680	.118	Methoxychlor	5.948	1206	.113	Methoxychlor
5.834	14310	.266	Mirex	6.091	8789	.481	Mirex
6.078	18035	.22	Endrin ketone	.	0	.	Endrin ketone
6.729	46691	.809	DCB	6.9	41076	2.755	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.72A
Area File: C:\CPWIN\DATA1\1P10200B.72A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 6:24:18 AM
File Reported On: 7/20/2011 at 6:24:28 AM

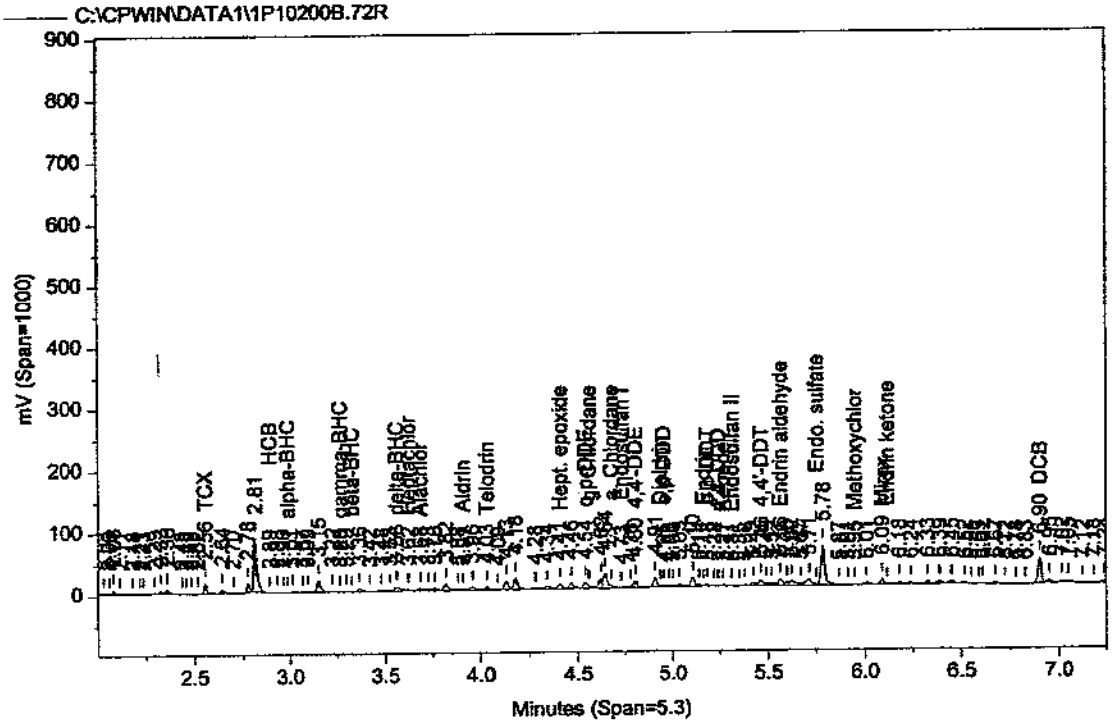
USF93 1565

10X REPLOTS

C:\CPWIN\DATA1\1P10200.72R



C:\CPWIN\DATA1\1P10200B.72R



Lancaster Laboratories Single Component Data Summary

Sample Name: 6339372 FG 19S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.3 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:31:45
Instrument : CP10--H9191A
Result file : 1P10200.73R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 41.7% (28-121) Conc.: 0.431643
%SSR(DCB) : 110.9% (45-150) Conc.: 1.150245

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.61	2.64	41538	0.431643
HCB	2.88	2.90	2.92	12137	0.114823
gamma-BHC	3.25	3.28	3.29	1230	0.010702
beta-BHC	3.31	3.35	3.36	5786	0.105493
delta-BHC	3.46	3.49	3.50	3870	0.035499
Aldrin	3.91	3.92	3.95	2483	0.024365
Alachlor	4.06	4.07	4.10	1975 E	0.000000
Telodrin	4.10	4.11	4.14	12793	0.168945
o,p-DDE	4.42	4.42	4.46	1032	0.018380
g. Chlordane	4.52	4.56	4.58	5245	0.053603
a. Chlordane	4.64	4.64	4.68	8572	0.091692
4,4'-DDE	4.69	4.71	4.73	11004	0.125804
Endosulfan I	4.75	4.77	4.79	3001	0.034516
o,p-DDD	4.83	4.86	4.87	1304	0.026773
Endrin	5.11	5.15	5.15	7899	0.101186
4,4'-DDT	5.35	5.37	5.39	5295	0.083605
Endrin aldehyde	5.58	5.59	5.62	6914	0.112177
Methoxychlor	5.69	5.72	5.73	1887	0.060314
Mirex	5.82	5.84	5.86	3658	0.067658
Endrin ketone	6.08	6.08	6.12	10142	0.123282
DCB	6.71	6.73	6.75	66621	1.150245

Analysis Report (B)

Injected on : JUL 20, 2011 06:31:45
Instrument : CP10--H9191B
Result file : 1P10200B.73R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 43.8% (28-121) Conc.: 0.453519
%SSR(DCB) : 99.9% (45-150) Conc.: 1.036356

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	15760	0.453519
beta-BHC	3.30	3.31	3.34	2739	0.095759
delta-BHC	3.55	3.58	3.59	2380	0.036453
Alachlor	3.66	3.68	3.70	2100 E	0.000000
Aldrin	3.89	3.91	3.93	2070	0.040870
Telodrin	4.03	4.04	4.07	2061	0.053921
Hept. epoxide	4.38	4.41	4.42	2921	0.068093
g. Chlordane	4.53	4.54	4.59	26842	0.574918
a. Chlordane	4.65	4.66	4.69	2051	0.043471
Endosulfan I	4.70	4.71	4.74	513	0.012123
4,4'-DDE	4.78	4.80	4.82	2750	0.063006
o,p-DDD	4.94	4.95	4.98	460	0.017940
Endrin	5.14	5.17	5.18	1832	0.047394
Kepone	5.23	5.25	5.27	940	0.084632
4,4'-DDT	5.44	5.46	5.48	1834	0.066324
Endrin aldehyde	5.54	5.56	5.58	2858	0.108146
Methoxychlor	5.92	5.95	5.96	917	0.036000
Mirex	6.07	6.09	6.11	2620	0.142877
DCB	6.88	6.89	6.91	15503	1.036356

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	B	0.453519				4.94	
☐ HCB			<0.1652	<0.0418			
☑ alpha-BHC			<0.1652	<0.0338			
☑ gamma-BHC			<0.1652	<0.0338			
☑ beta-BHC	B A	0.095759 ~~0.105493~~	<0.1652	0.0597	J	9.67	A 005
☑ delta-BHC		Marbbo 7/25/11	<0.1652	<0.0358			
☑ Heptachlor			<0.1652	<0.0597			
☑ Aldrin			<0.1652	<0.0657			
☐ Alachlor							
☐ Telodrin			<0.2388	<0.0796			
☐ o,p-DDE			<0.3383	<0.0657			
☑ Hept. epoxide			<0.1652	<0.0338			
☐ g. Chlordane	A	0.053603	<0.1652	0.0498	J	165.89	**
☐ a. Chlordane			<0.1652	<0.0458			
☑ 4,4'-DDE			<0.3383	<0.0657			
☑ Endosulfan I			<0.1652	<0.0438			
☐ o,p-DDD			<0.3383	<0.0657			
☑ Dieldrin			<0.3383	<0.0657			
☐ o,p-DDT			<0.3383	<0.0657			
☑ Endrin			<0.3383	<0.0657			

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

USF03 1567

Printed on: 7/21/2011 14:19:07

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339372FG 19S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.3 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:31:45
Instrument : CP10--H9191A
Result file : 1P10200.73R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 20, 2011 06:31:45
Instrument : CP10--H9191B
Result file : 1P10200B.73R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ Kepone			<1.393	<0.4577			
☑ 4,4'-DDD			<0.3383	<0.0657			
☑ Endosulfan II			<0.3383	<0.0657			
☑ 4,4'-DDT	A	0.083605	<0.3383	0.0657	J	23.05	
☑ Endrin aldehyde	A	0.112177	<0.3383	0.0657	J	3.68	
☑ Methoxychlor			<1.6517	<0.3383			
☑ Mirex	A	0.067658	<0.3383	0.0657	J	71.46	**
☑ Endo. sulfate			<0.3383	<0.0657			
☑ Endrin ketone			<0.3383	<0.0657			
☐ DCB	~~A~~ B	1.0363 ~~1.150245~~				10.42	

Units: ug/kg

Reviewed by: Melissa A McDermott MAM 7/26/11
Date: JUL 25 2011

Verified by: [signature] 7/26/11
Date:

Melissa A. McDermott
Senior Chemist

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits
Higher Amount Found unless RPD > 40

Printed on: 7/21/2011 14:19:07

Multiple Component Data Summary

Sample Name: 6339372 FG 19S05 Sample ID: AC **Batchnumber:** 111930027A
Sample Amount: 60.3 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on Jul 20, 2011 06:31:45
Instrument H9191A
Result file 1P10200.73R
Calibration file 1P10200
Method file PESTD

%SSR(TCX) 41.7% Conc: 0.431643
%SSR(DCB) 110.9% Conc: 1.150245

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Chlordane						**59.76**	
3.56	3.59	3.63	1493.264282	0.427679			1
3.63	3.63	3.70	7181.941406	1.68583			2
4.01	4.07	4.08	1975.400879	0.59987			3
4.52	4.56	4.59	5244.527832	0.525335			4
4.62	4.64	4.69	8572.206055	0.753312			5
5.22	5.24	5.29	4132.222656	1.56672			6
Height summation:			**28599.56311**				
Concentration CF:			**0.926458**	L:			

Analysis Report (B)

Injected on Jul 20, 2011 06:31:45
Instrument H9191B
Result file 1P10200B.73R
Calibration file 1P10200B
Method file PESTDB

%SSR(TCX) 43.8% Conc: 0.453515
%SSR(DCB) 99.9% Conc: 1.036356

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Chlordane						**43.69**	
3.47	3.53	3.54	1747.163208	0.891394			1
3.59	3.64	3.66	3907.752686	1.686577			2
4.00	4.04	4.07	2060.78123	1.384811			3
4.60	4.63	4.67	3774.264893	0.971582			5
4.64	4.66	4.71	2050.530273	0.462509			6
Height summation:			**13540.47229**				
Concentration CF:			**1.079375**	L:			

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)	B	1.079375	<3.3831	0.796	J	15.25	4	40	for 1/2nd
Toxaphene			<6.5672	<2.1891			4	40	

Units: ug/kg

%Difference = High - Low divided by the Average times 100

Reviewed by: Melissa A McDermott Verified by: 7/26/11

Date: JUL 26 2011 Date:

Melissa A. McDermott
Senior Chemist

USF03 1569

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: 6339372 FG 19S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.3 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:31:45
Instrument : CP10--H9191A
Result file : 1P10200.73R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 41.7% (28-121) Conc.: 0.431643
%SSR(DCB) : 110.9% (45-150) Conc.: 1.150245

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**86.63**	
3.10	3.13	3.16	1338.906128	0.496472			2
3.26	3.28	3.32	1229.615601	0.794841			3
3.46	3.49	3.52	3870.219238	0.82594			4
+ 3.57	3.59	3.63	1493.264282	0.639688			5
* 3.62	3.63	3.68	7181.941406	4.013767			6
* 3.57	3.63	3.63	7181.941406	3.076616			5
Height Summation:			**20802.623779**				
Amount Avg CF:			**1.841527**	Linear:			
Aroclor-1221					**1**		
+ 2.70	2.70	2.76	1594.993042	1.805526			1
E 2.70	2.75	2.76	135849.7343	153.781419			1
Height Summation:			**135849.734375**				
Amount Avg CF:			**153.781419**	Linear:			
Aroclor-1232					**5**	**87.17**	
3.10	3.13	3.16	1338.906128	1.05539			2
3.26	3.28	3.32	1229.615601	1.742689			3
3.46	3.49	3.52	3870.219238	1.796515			4
+ 3.57	3.59	3.63	1493.264282	1.362714			5
* 3.63	3.63	3.68	7181.941406	8.84049			6
* 3.57	3.63	3.63	7181.941406	6.554052			5
Height Summation:			**20802.623779**				
Amount Avg CF:			**3.997827**	Linear:			
Aroclor-1242					**5**	**88.30**	
3.10	3.13	3.16	1338.906128	0.687539			2
3.26	3.28	3.32	1229.615601	1.088933			3
3.46	3.49	3.52	3870.219238	1.093915			4
+ 3.57	3.59	3.63	1493.264282	0.919268			5
* 3.62	3.63	3.68	7181.941406	5.673284			6
* 3.57	3.63	3.63	7181.941406	4.421271			5
Height Summation:			**20802.623779**				
Amount Avg CF:			**2.592988**	Linear:			
Aroclor-1248					**3**	**86.30**	
3.72	3.75	3.78	3600.506348	1.456028			1
4.77	4.83	4.83	1140.91272	0.691954			4
5.19	5.24	5.25	4132.222656	4.132845			6
Height Summation:			**8873.641724**				
Amount Avg CF:			**2.093609**	Linear:			
Aroclor-1254					**5**	**88.46**	
4.45	4.49	4.51	1891.50354	0.491488			1
4.68	4.71	4.74	11004.47168	3.842008			2
4.77	4.83	4.83	1140.91272	0.237959			3
5.12	5.15	5.18	7898.553223	3.002788			5
+ 5.33	5.33	5.39	4968.745117	1.266491			6
5.33	5.37	5.39	5295.380371	1.349747			6
Height Summation:			**27230.821534**				
Amount Avg CF:			**1.784798**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 06:31:45
Instrument : CP10--H9191B
Result file : 1P10200B.73R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 43.8% (28-121) Conc.: 0.453519
%SSR(DCB) : 99.9% (45-150) Conc.: 1.036356

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**4**	**47.07**	
+ 3.15	3.15	3.21	1616.956421	1.496593			2
3.15	3.17	3.21	2962.747559	2.742205			2
3.34	3.36	3.40	2049.441162	3.25706			3
+ 3.34	3.39	3.40	1603.534668	2.548406			3
3.50	3.53	3.56	1747.163208	0.790358			4
3.61	3.64	3.67	3907.752686	3.348889			5
Height Summation:			**10667.104615**				
Amount Avg CF:			**2.534828**	Linear:			
Aroclor-1221					**1**		
+ 2.72	2.72	2.78	68.960617	0.204082			1
2.72	2.74	2.78	118.836693	0.351686			1
Height Summation:			**118.836693**				
Amount Avg CF:			**0.351686**	Linear:			
Aroclor-1232					**4**	**46.11**	
+ 3.15	3.15	3.21	1616.956421	3.228316			2
3.15	3.17	3.21	2962.747559	5.91524			2
3.34	3.36	3.40	2049.441162	7.000498			3
+ 3.34	3.39	3.40	1603.534668	5.477367			3
3.50	3.53	3.56	1747.163208	1.815304			4
3.61	3.64	3.67	3907.752686	7.356911			5
Height Summation:			**10667.104615**				
Amount Avg CF:			**5.521988**	Linear:			
Aroclor-1242					**4**	**47.69**	
+ 3.15	3.15	3.21	1616.956421	2.101093			2
3.15	3.17	3.21	2962.747559	3.84983			2
3.34	3.36	3.40	2049.441162	4.444978			3
+ 3.34	3.39	3.40	1603.534668	3.477864			3
3.50	3.53	3.56	1747.163208	1.055394			4
3.61	3.64	3.67	3907.752686	4.69008			5
Height Summation:			**10667.104615**				
Amount Avg CF:			**3.510071**	Linear:			
Aroclor-1248					**5**	**201.90**	
4.01	4.04	4.07	2060.76123	1.518811			2
+ 4.12	4.13	4.18	1030.06311	0.830549			3
4.12	4.18	4.18	6450.550781	5.201133			3
4.88	4.90	4.94	795.781738	0.990576			4
E 5.05	5.10	5.11	60653.01953	108.726324			5
5.31	5.35	5.37	767.468567	1.502879			6
Height Summation:			**70727.581847**				
Amount Avg CF:			**23.587965**	Linear:			
Aroclor-1254					**6**	**155.37**	
4.52	4.54	4.58	26842.08789	16.119004			1
4.79	4.80	4.85	2749.601074	2.164666			2
+ 4.79	4.84	4.85	168.178879	0.132401			2
4.88	4.90	4.94	795.781738	0.352165			3
E 5.05	5.10	5.11	60653.01953	38.480983			4
5.30	5.35	5.36	767.468567	0.70579			5
5.44	5.46	5.50	1834.474976	1.178983			6
Height Summation:			**93642.433777**				
Amount Avg CF:			**9.833599**	Linear:			

USF03 1578

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:19:22

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: 6339372 FG 19S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.3 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:31:45
Instrument : CP10-H9191A
Result file : 1P10200.73R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	96.21	
4.91	4.93	4.97	29729.042965	7.90047			1
5.12	5.15	5.18	7898.553223	1.637652			2
+ 5.33	5.33	5.39	4968.745117	1.119647			3
5.33	5.37	5.39	5295.380371	1.19325			3
5.58	5.59	5.64	6914.404297	2.03391			4
5.79	5.79	5.85	4778.418457	0.675258			5
+ 5.79	5.84	5.85	3658.497559	0.516998			5
5.99	6.02	6.05	10833.291992	3.088077			6
Height Summation:			**65449.091309**				
Amount Avg CF:			**2.75477**	Linear:			
Chlordane					6	59.76	
3.56	3.59	3.63	1493.264282	0.427679			1
3.63	3.63	3.70	7181.941406	1.68583			2
4.01	4.07	4.08	1975.400879	0.59987			3
4.52	4.56	4.59	5244.527832	0.525335			4
4.62	4.64	4.69	8572.206055	0.753312			5
5.22	5.24	5.29	4132.222656	1.56672			6
Height Summation:			**28599.563110**				
Amount Avg CF:			**0.926458**	Linear:			
Toxaphene					6	59.67	
+ 5.31	5.33	5.38	4968.745117	2.638295			1
* 5.35	5.37	5.42	5295.380371	2.861312			2
* 5.31	5.37	5.38	5295.380371	2.811731			1
+ 5.35	5.42	5.42	2641.20166	1.42715			2
5.55	5.59	5.62	6914.404297	3.011891			3
+ 5.74	5.76	5.81	1725.462158	0.947206			4
5.74	5.79	5.81	4778.418457	2.623149			4
5.80	5.84	5.87	3658.497559	1.498721			5
6.05	6.08	6.12	10141.86328	7.2644			6
Height Summation:			**36083.944336**				
Amount Avg CF:			**3.345201**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 06:31:45
Instrument : CP10-H9191B
Result file : 1P10200B.73R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					5	147.27	
5.03	5.04	5.09	15855.760742	9.032132			1
5.18	5.22	5.24	895.403259	0.448394			2
5.44	5.46	5.50	1834.474976	1.147368			3
5.87	5.92	5.93	197.608459	0.075742			5
+ 6.12	6.14	6.18	1928.875	1.402443			6
6.12	6.18	6.18	2588.30542	1.881901			6
Height Summation:			**21371.552856**				
Amount Avg CF:			**2.517107**	Linear:			
Chlordane					6	97.22	
+ 3.47	3.50	3.54	1216.424561	~~0.620614~~			1
3.47	3.53	3.54	1747.163208	~~0.891594~~			1
3.59	3.64	3.66	3907.752686	1.686577			2
4.00	4.04	4.07	2060.76123	1.384811			3
4.52	4.54	4.59	26842.087891	~~5.125632~~			4
4.60	4.63	4.67	3774.264893	0.971582			5
+* 4.60	4.66	4.67	2050.530273	~~0.522855~~			5
* 4.64	4.66	4.71	2050.530273	0.462509			6
Height Summation:			**40382.560181**				
Amount Avg CF:			**1.785818**	Linear:			
Toxaphene					5	210.00	
5.09	5.10	5.16	60653.019531	103.182016			1
5.34	5.35	5.41	767.468567	0.62963			2
5.53	5.56	5.60	2858.014404	2.323661			3
+ 5.53	5.60	5.60	1516.222778	1.23274			3
+ 5.88	5.92	5.95	197.608459	0.238935			5
+* 5.92	5.95	5.99	917.387756	0.954356			6
* 5.88	5.95	5.95	917.387756	1.109242			5
5.92	5.97	5.99	1177.36792	1.224813			6
Height Summation:			**66373.258178**				
Amount Avg CF:			**21.693872**	Linear:			

1.0793 µg/kg Heptachlor

Summary Report

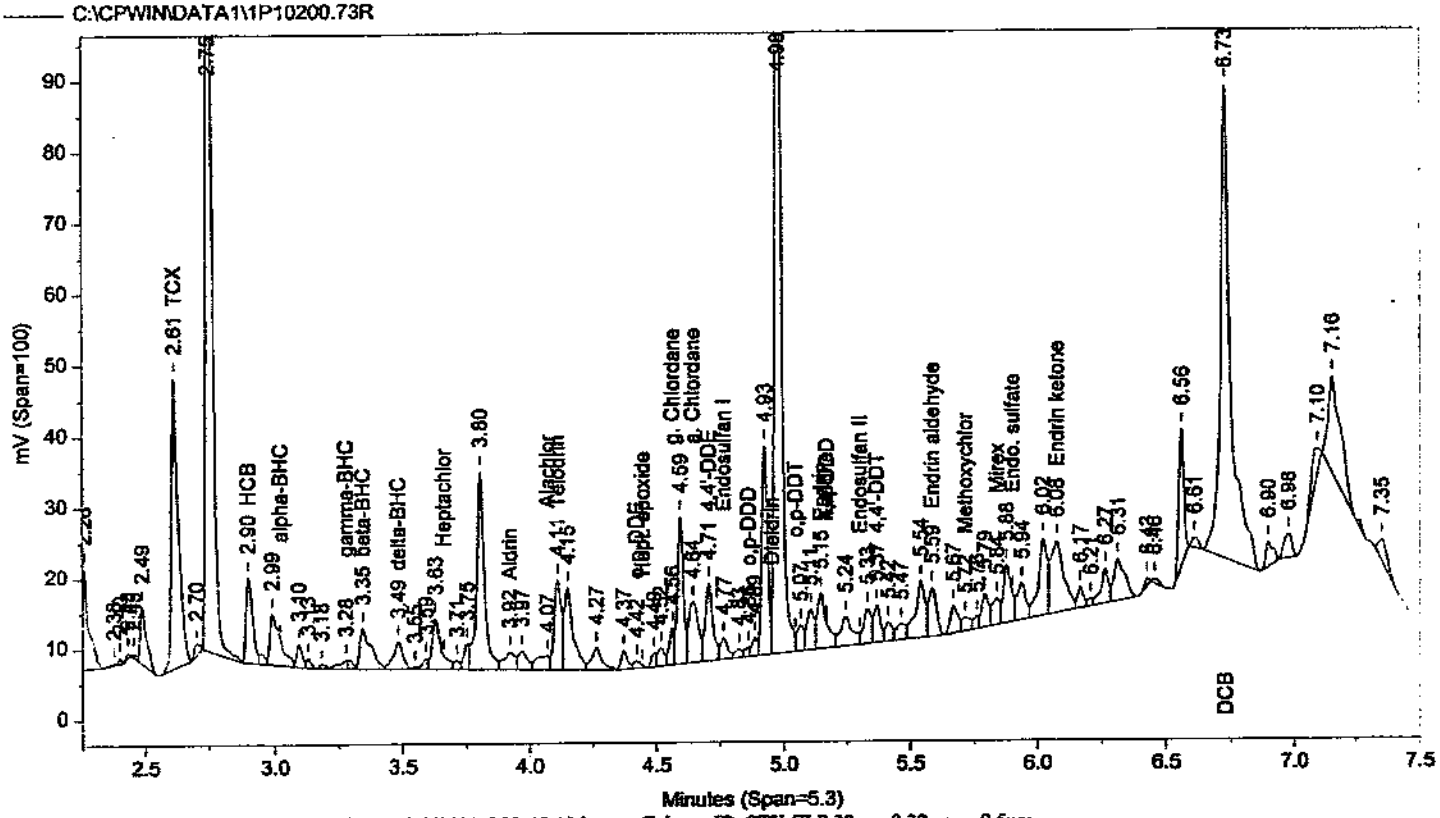
Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		31.68	4	40	
Aroclor-1221			0	0	E	** 199.09	3	5	
Aroclor-1232			0	0		32.02	4	10	
Aroclor-1242			0	0		30.05	4	30	
Aroclor-1248			0	0		** 167.39	4	30	
Aroclor-1254			0	0		** 138.55	4	40	
Aroclor-1260			0	0		9.02	4	40	
Chlordane	A	.92 Q K8	3.3831	0.796		** 61.74	4	40	
Toxaphene			6.5672	2.1891		** 146.56	4	40	no match

Units: ug/kg

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:19:22

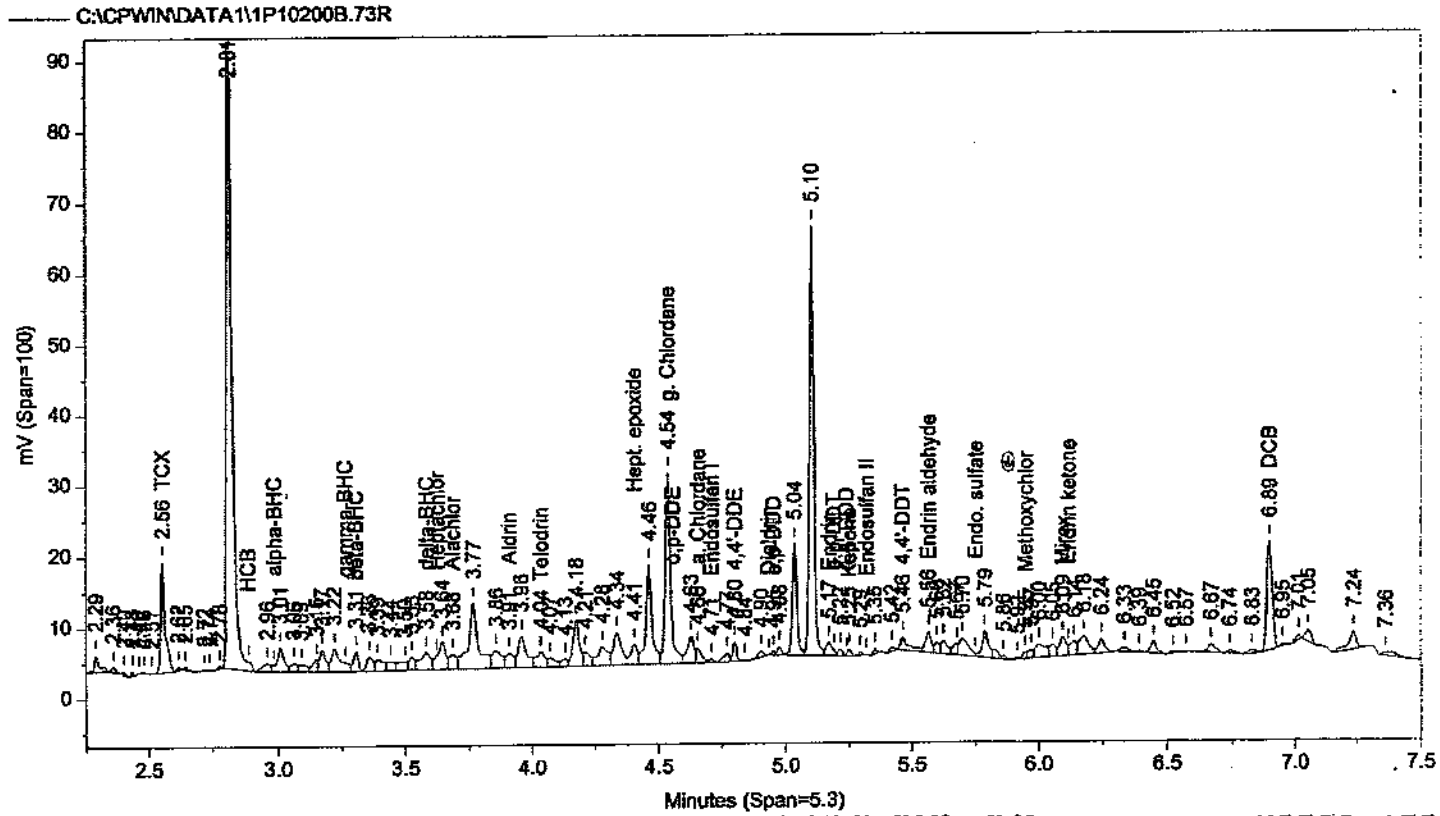
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.73R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 6:31:45 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.73R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 6:31:45 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.3 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.615	41538	.432	TCX	2.556	15760	.454	TCX
2.899	12137	.115	HCB	.	0	.	HCB
3.28	1230	.011	gamma-BHC	.	0	.	gamma-BHC
3.346	5766	.105	beta-BHC	3.306	2739	.096	beta-BHC
3.485	3870	.035	delta-BHC	3.584	2380	.036	delta-BHC
4.071	1975	.	Alachlor	3.684	2100	.	Alachlor
3.922	2483	.024	Aldrin	3.909	2070	.041	Aldrin
4.111	12793	.169	Telodrin	4.035	2061	.054	Telodrin
.	0	.	Hept. epoxide	4.406	2921	.068	Hept. epoxide
4.424	1032	.018	o,p-DDE	.	0	.	o,p-DDE
4.563	5245	.054	g. Chlordane	4.537	26842	.575	g. Chlordane
4.643	8572	.092	a. Chlordane	4.655	2051	.043	a. Chlordane
4.706	11004	.126	4,4'-DDE	4.8	2750	.063	4,4'-DDE
4.765	3001	.035	Endosulfan I	4.71	513	.012	Endosulfan I
4.863	1304	.027	o,p-DDD	4.952	460	.018	o,p-DDD
5.146	7899	.101	Endrin	5.17	1832	.047	Endrin
.	0	.	Kepone	5.251	940	.085	Kepone
5.369	5295	.084	4,4'-DDT	5.464	1834	.066	4,4'-DDT
5.586	6914	.112	Endrin aldehyde	5.563	2858	.108	Endrin aldehyde
5.715	1887	.06	Methoxychlor	5.948	917	.086	Methoxychlor
5.843	3658	.068	Mirex	6.095	2620	.143	Mirex
6.077	10142	.123	Endrin ketone	.	0	.	Endrin ketone
6.726	66621	1.15	DCB	6.894	15503	1.036	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.73A
Area File: C:\CPWIN\DATA1\1P10200B.73A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 6:39:22 AM
File Reported On: 7/20/2011 at 6:39:32 AM

10X REPLOTS

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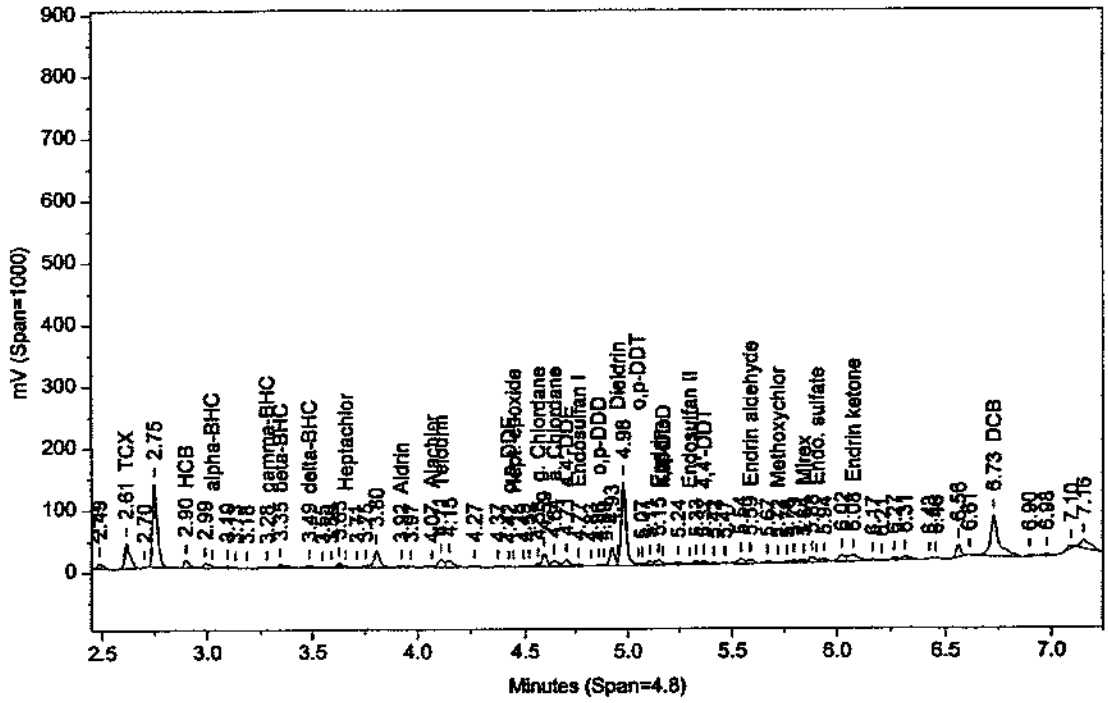

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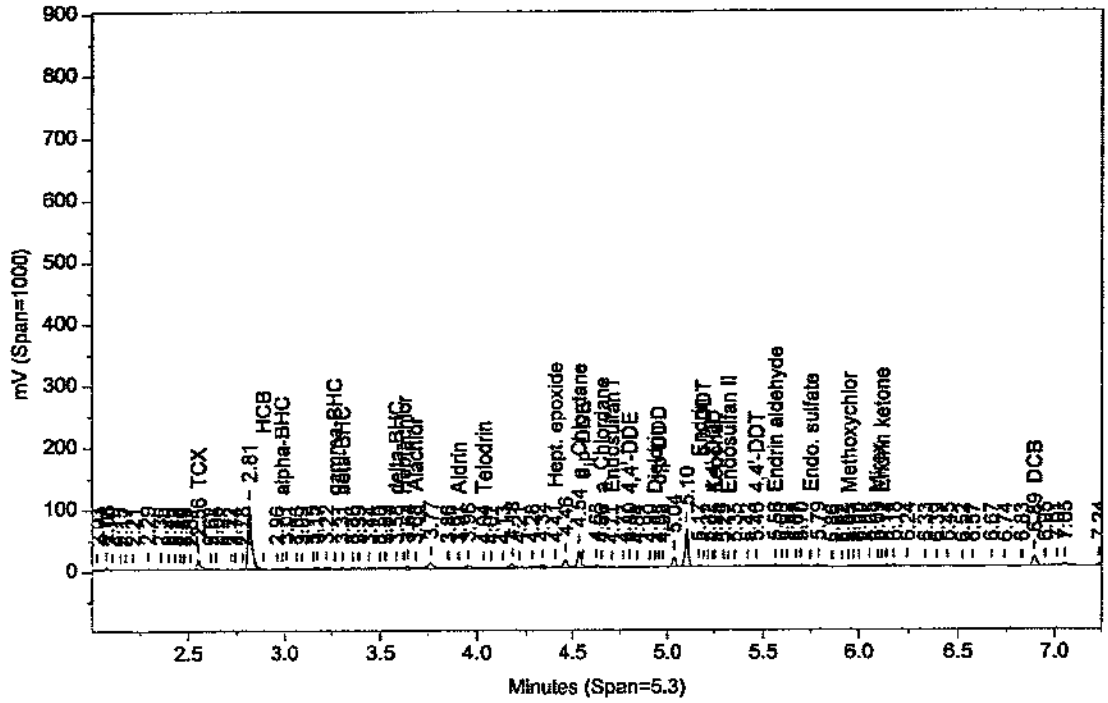

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339374 FG 21S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:47:03
Instrument : CP10--H9191A
Result file : 1P10200.74R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 55.4% (28-121) Conc.: 0.576488
%SSR(DCB) : 93.3% (45-150) Conc.: 0.970744

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	55292	0.576488
HCB	2.88	2.90	2.92	15615	0.148211
alpha-BHC	3.00	3.02	3.04	1648	0.012898
gamma-BHC	3.25	3.28	3.29	1763	0.015398
beta-BHC	3.31	3.35	3.35	12719	0.233487
delta-BHC	3.46	3.49	3.50	6129	0.056404
Aldrin	3.91	3.92	3.95	2779	0.027361
o,p-DDE/hept epox	4.42	4.43	4.46	5734	0.102450
g. Chlordane	4.52	4.55	4.58	25315	0.259603
a. Chlordane	4.64	4.64	4.68	72595	0.779087
4,4'-DDE	4.69	4.71	4.73	501040 E	5.746990
Endosulfan I	4.75	4.77	4.79	9092	0.104913
o,p-DDD	4.83	4.85	4.87	6557	0.135082
Dieldrin	4.93	4.95	4.97	27740	0.294127
o,p-DDT	5.03	5.04	5.07	121036	2.306775
Endrin	5.11	5.15	5.15	43090	0.553854
4,4'-DDD	5.15	5.19	5.19	10109	0.142929
Endosulfan II	5.28	5.28	5.32	33068	0.580311
4,4'-DDT	5.35	5.37	5.39	419207 E	6.640553
Endrin aldehyde	5.58	5.61	5.62	24739	0.402693
Mirex	5.82	5.83	5.86	87314	1.620116
DCB	6.71	6.73	6.75	56038	0.970744

hept epox : 5734 / 60200 x 4 / 60.1 = .06096

Analysis Report (B)

Injected on : JUL 20, 2011 06:47:03
Instrument : CP10--H9191B
Result file : 1P10200B.74R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 56.4% (28-121) Conc.: 0.586814
%SSR(DCB) : *732.3% (45-150) Conc.: 7.62197

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	20325	0.586814
HCB	2.87	2.89	2.91	883	0.018704
gamma-BHC	3.24	3.26	3.28	1301	0.018986
beta-BHC	3.30	3.31	3.34	1214	0.042575
delta-BHC	3.55	3.56	3.59	2334	0.035860
Heptachlor	3.60	3.62	3.64	2778	0.050229
Alachlor	3.66	3.68	3.70	2540 E	0.000000
Aldrin	3.89	3.91	3.93	1098	0.021757
Telodrin	4.03	4.03	4.07	2306	0.060551
Hept. epoxide	4.38	4.40	4.42	7556	0.176728
o,p-DDE	4.54	4.54	4.58	21896	0.743656
a. Chlordane	4.65	4.67	4.69	12330	0.262259
Endosulfan I	4.70	4.71	4.74	1075	0.025487
4,4'-DDE	4.78	4.80	4.82	183339 E	4.215080
Dieldrin	4.91	4.92	4.95	7518	0.158852
o,p-DDT	5.17	5.18	5.21	39660	1.466132
4,4'-DDD	5.22	5.23	5.26	5006	0.149216
Endosulfan II	5.30	5.30	5.34	8759	0.260964
4,4'-DDT	5.44	5.46	5.48	138188 E	5.012739
Endrin aldehyde	5.54	5.56	5.58	34046	1.292590
Methoxychlor	5.92	5.95	5.96	9650	0.907598
Mirex	6.07	6.10	6.11	5869	0.321194
DCB	6.88	6.90	6.91	113637 E	7.621970

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	B	0.586814				1.78	
☐ HCB			<0.1657	<0.0419			
☑ alpha-BHC			<0.1657	<0.0339			
☑ gamma-BHC			<0.1657	<0.0339			
☑ beta-BHC			<0.1657	<0.0599			
☑ delta-BHC			<0.1657	<0.0359			
☑ Heptachlor			<0.1657	<0.0599			
☑ Aldrin			<0.1657	<0.0659			
☐ Alachlor							
☐ Telodrin			<0.2396	<0.0799			
☐ o,p-DDE	A	0.102450	<0.3394	0.0659	J	151.57	**
☑ Hept. epoxide	A	.06096	<0.1657	<0.0359 ~.062		97%	%DWC-DL to use A
☐ g. Chlordane			<0.1657	<0.0499			
☐ a. Chlordane	B	0.262259	0.1657	0.0459		99.26	**
☑ 4,4'-DDE	A	5.746990	0.3394	0.0659	E	30.75	See DL5
☑ Endosulfan I			<0.1657	<0.0439			
☐ o,p-DDD			<0.3394	<0.0659			

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless ~~RPD>40~~ 1575
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/25/2011 15:30:08

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339374 FG 21S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:47:03
Instrument : CP10--H9191A
Result file : 1P10200.74R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 20, 2011 06:47:03
Instrument : CP10--H9191B
Result file : 1P10200B.74R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dieldrin	B	0.158852	<0.3394	0.0659	J	59.73 **	
☐ o,p-DDT	B	1.466132	0.3394	0.0659		44.56 **	
☑ Endrin			<0.3394	<0.0659			
☐ Kepone			<1.3977	<0.4592			
☑ 4,4'-DDD	B	0.149216	<0.3394	0.0659	J	4.30	
☑ Endosulfan II	B	0.260964	<0.3394	0.0659	J	75.82 **	
☑ 4,4'-DDT	A	6.640553	0.3394	0.0659	E	27.94	See NS
☑ Endrin aldehyde	A	0.402693	0.3394	0.0659	< .41	104.99 **	%D WC-OC toward A
☑ Methoxychlor		MC-IBY 7/28/11	<1.6572	<0.3394			
☑ Mirex	B	0.321194	<0.3394	0.0659	< .33	133.82 **	%D WC
☑ Endo. sulfate			<0.3394	<0.0659			
☑ Endrin ketone			<0.3394	<0.0659			
☐ DCB	A	0.970744				154.81 **	

Units: ug/kg

Melissa A McDermott

Reviewed by: JUL 25 2011

Date:

Melissa A. McDermott
Senior Chemist

Verified by:

Date: 7/26/11

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD ≤ 40

USF03 1576

Printed on: 7/25/2011 15:30:08

Multiple Component Data Summary

Sample Name: 6339374 FG 21S05 Sample ID: AC **Batchnumber:** 111930027A
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on Jul 20, 2011 06:47:03
Instrument H9191A
Result file 1P10200.74R
Calibration file 1P10200
Method file PESTD

%SSR(TCX) 55.4% Conc: 0.57648
%SSR(DCB) 93.3% Conc: 0.970744

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Chlordane						**111.22**	
3.56	3.59	3.63	3764.877197	1.08187			1
3.63	3.63	3.70	5719.22998	1.346953			2
4.01	4.03	4.08	3045.293213	0.927841			3
4.52	4.55	4.59	25315.49804	2.544248			4
4.62	4.64	4.69	72594.82812	6.400747			5
5.22	5.28	5.29	33068.21875	12.579443			6

Height summation: **143507.945312**
Concentration CF: **4.14685** L:

Analysis Report (B)

Injected on Jul 20, 2011 06:47:03
Instrument H9191B
Result file 1P10200B.74R
Calibration file 1P10200B
Method file PESTDB

%SSR(TCX) 56.4% Conc: 0.586814
%SSR(DCB) * 732.3% Conc: 7.62197

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Chlordane						**69.53**	
3.47	3.48	3.54	2409.104004	1.233203			1
3.59	3.62	3.66	2777.904541	1.202927			2
4.00	4.03	4.07	2306.474365	1.555085			3
4.52	4.54	4.59	21895.50781	4.195298			4
4.60	4.63	4.67	23800.28320	6.147125			5
4.64	4.67	4.71	12329.83105	2.790318			6

Height summation: **65519.104981**
Concentration CF: **2.853993** L:

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)	A	4.14685	3.3943	0.7987		36.93	4	40	
Toxaphene			<6.589	<2.1963			4	40	

Units: ug/kg

%Difference = High - Low divided by the Average times 100

Reviewed by: Melissa A McDermott
Date: JUL 26 2011

Melissa A. McDermott
Senior Chemist

Verified by:
Date: 7/26/11

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339374 FG 21S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:47:03
Instrument : CP10--H9191A
Result file : 1P10200.74R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 55.4% (28-121) Conc.: 0.576488
%SSR(DCB) : 93.3% (45-150) Conc.: 0.970744

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	48.17	
3.26	3.28	3.32	1763.394287	1.143676			3
+3.26	3.30	3.32	1330.280273	0.862773			3
3.46	3.49	3.52	6128.954102	1.312327			4
+3.57	3.59	3.63	3764.877197	1.618174			5
*3.62	3.63	3.68	5719.22998	3.206939			6
*3.57	3.63	3.63	5719.22998	2.45817			5
Height Summation:			19330.808349				
Amount Avg CF:			2.030278	Linear:			
Aroclor-1221					2	140.09	
+2.70	2.70	2.76	5311.357422	6.032446			1
E 2.70	2.75	2.76	301911.125	342.899644			1
2.81	2.83	2.87	956.960999	1.62023			2
Height Summation:			302868.085999				
Amount Avg CF:			172.259937	Linear:			
Aroclor-1232					4	48.51	
3.26	3.28	3.32	1763.394287	2.50751			3
+3.26	3.30	3.32	1330.280273	1.891631			3
3.46	3.49	3.52	6128.954102	2.854463			4
+3.57	3.59	3.63	3764.877197	3.447162			5
*3.63	3.63	3.68	5719.22998	7.063418			6
*3.57	3.63	3.63	5719.22998	5.236588			5
Height Summation:			19330.808349				
Amount Avg CF:			4.415495	Linear:			
Aroclor-1242					4	50.49	
3.26	3.28	3.32	1763.394287	1.566838			3
+3.26	3.30	3.32	1330.280273	1.182001			3
3.46	3.49	3.52	6128.954102	1.73811			4
+3.57	3.59	3.63	3764.877197	2.325407			5
*3.62	3.63	3.68	5719.22998	4.532868			6
*3.57	3.63	3.63	5719.22998	3.532528			5
Height Summation:			19330.808349				
Amount Avg CF:			2.842586	Linear:			
Aroclor-1248					6	176.94	
3.72	3.75	3.78	3221.043213	1.30691			1
+3.92	3.92	3.97	2778.895264	0.960862			2
3.92	3.97	3.97	3909.13916	1.351667			2
3.99	4.03	4.05	3045.293213	1.642012			3
4.77	4.77	4.83	9091.936523	5.532531			4
+4.77	4.81	4.83	4076.438965	2.480552			4
E 4.98	5.04	5.04	121036.4921	108.042833			5
E 5.19	5.24	5.25	25377.45507	25.465742			6
Height Summation:			165681.359375				
Amount Avg CF:			23.890283	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 06:47:03
Instrument : CP10--H9191B
Result file : 1P10200B.74R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 56.4% (28-121) Conc.: 0.586814
%SSR(DCB) : *732.3% (45-150) Conc.: 7.62197

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	66.87	
2.86	2.89	2.91	882.549438	1.409448			1
3.15	3.17	3.21	6278.466309	5.830445			2
3.34	3.36	3.40	3259.378418	5.197181			3
+3.34	3.39	3.40	1483.956909	2.366216			3
+3.50	3.53	3.56	2277.000488	1.033466			4
3.50	3.56	3.56	2333.728516	1.059213			4
3.61	3.62	3.67	2777.904541	2.388547			5
3.70	3.72	3.76	1778.798462	2.157632			6
Height Summation:			17310.825684				
Amount Avg CF:			3.007078	Linear:			
Aroclor-1221					2	59.19	
2.72	2.75	2.78	157.550064	0.467806			1
2.86	2.89	2.92	882.549438	1.141334			3
Height Summation:			1040.099502				
Amount Avg CF:			0.80457	Linear:			
Aroclor-1232					6	74.92	
2.86	2.89	2.92	882.549438	1.163143			1
3.15	3.17	3.21	6278.466309	12.576915			2
3.34	3.36	3.40	3259.378418	11.170461			3
+3.34	3.39	3.40	1483.956909	5.08578			3
+3.50	3.53	3.56	2277.000488	2.373678			4
3.50	3.56	3.56	2333.728516	2.432814			4
3.61	3.62	3.67	2777.904541	5.247212			5
3.70	3.72	3.76	1778.798462	4.663748			6
Height Summation:			17310.825684				
Amount Avg CF:			6.209049	Linear:			
Aroclor-1242					6	66.48	
2.86	2.89	2.92	882.549438	2.031077			1
3.15	3.17	3.21	6278.466309	8.185465			2
3.34	3.36	3.40	3259.378418	7.092704			3
+3.34	3.39	3.40	1483.956909	3.229225			3
+3.50	3.53	3.56	2277.000488	1.380025			4
3.50	3.56	3.56	2333.728516	1.414406			4
3.61	3.62	3.67	2777.904541	3.345133			5
3.70	3.72	3.76	1778.798462	3.055995			6
Height Summation:			17310.825684				
Amount Avg CF:			4.187463	Linear:			
Aroclor-1248					6	100.11	
3.77	3.80	3.83	953.597717	0.903193			1
4.01	4.03	4.07	2306.474365	1.705562			2
E 4.12	4.18	4.18	27092.11718	21.917296			3
4.88	4.91	4.94	8069.820801	10.079627			4
+4.88	4.92	4.94	7517.985352	9.390356			4
E 5.05	5.10	5.11	15058.85839	27.084273			5
5.31	5.34	5.37	2282.747803	4.485018			6
Height Summation:			55763.616272				
Amount Avg CF:			11.029162	Linear:			

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/25/2011 15:30:10

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339374 FG 21S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 06:47:03
Instrument : CP10--H9191A
Result file : 1P10200.74R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

	Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						6	124.70	
	4.45	4.49	4.51	2097.14624	0.546735			1
E	4.68	4.71	4.74	501039.8437!	175.510942			2
	4.77	4.77	4.83	9091.936523	1.902608			3
+	4.77	4.81	4.83	4076.438965	0.853049			3
E	4.98	5.04	5.04	121036.4921!	37.377153			4
	5.12	5.15	5.18	43090.45703·	16.436187			5
+	5.33	5.33	5.39	40437	10.341346			6
E	5.33	5.37	5.39	419206.9687!	107.20786			6
Height Summation:				**1095562.844482**				
Amount Avg CF:				**56.496914**	Linear:			
Aroclor-1260						6	146.65	
	4.91	4.95	4.97	27740.30078·	7.396496			1
	5.12	5.15	5.18	43090.45703·	8.963923			2
+	5.33	5.33	5.39	40437	9.142315			3
E	5.33	5.37	5.39	419206.9687!	94.777604			3
	5.58	5.61	5.64	24739.02734·	7.301336			4
	5.79	5.83	5.85	87314.10937!	12.379782			5
	5.99	6.02	6.05	41201.28906!	11.78369			6
Height Summation:				**643292.152344**				
Amount Avg CF:				**23.767139**	Linear:			
Chlordane						6	111.22	
	3.56	3.59	3.63	3764.877197	1.08187			1
	3.63	3.63	3.70	5719.22998	1.346953			2
	4.01	4.03	4.08	3045.293213	0.927841			3
	4.52	4.55	4.59	25315.49804·	2.544248			4
	4.62	4.64	4.69	72594.82812!	6.400747			5
+	5.22	5.24	5.29	25377.45507!	9.663808			6
	5.22	5.28	5.29	33068.21875	12.579443			6
Height Summation:				**143507.945312**				
Amount Avg CF:				**4.14685**	Linear:			
Toxaphene						6	98.97	
+	5.31	5.33	5.38	40437	21.542615			1
E*	5.35	5.37	5.42	419206.9687!	227.268612			2
E*	5.31	5.37	5.38	419206.9687!	223.330471			1
	5.55	5.58	5.62	79518.84375	34.753402			3
+	5.55	5.61	5.62	24739.02734·	10.812096			3
+	5.74	5.76	5.81	46137.33984·	25.411728			4
	5.74	5.78	5.81	51735.18359·	28.494933			4
	5.80	5.83	5.87	87314.10937!	35.887675			5
	6.05	6.07	6.12	61536.45312!	44.223926			6
Height Summation:				**1118518.527344**				
Amount Avg CF:				**98.99317**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 06:47:03
Instrument : CP10--H9191B
Result file : 1P10200B.74R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

	Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						6	131.33	
	4.52	4.54	4.58	21895.50781!	13.192278			1
E	4.79	4.80	4.85	183336.5156!	144.816414			2
	4.88	4.91	4.94	8069.820801	3.583104			3
+	4.88	4.92	4.94	7517.985352	3.338082			3
	5.05	5.10	5.11	15058.85839!	9.585806			4
	5.30	5.30	5.36	8759.179688	8.08204			5
+	5.30	5.34	5.36	2282.747803	2.106277			5
E	5.44	5.46	5.50	138188.2656!	89.106559			6
Height Summation:				**375310.147950**				
Amount Avg CF:				**44.7277**	Linear:			
Aroclor-1260						6	121.37	
	5.03	5.03	5.09	5463.76123	3.122754			1
E	5.18	5.18	5.24	39660.11718!	19.926838			2
+	5.18	5.23	5.24	5005.719727	2.515075			2
E	5.44	5.46	5.50	138188.2656!	86.717166			3
E	5.71	5.71	5.77	32859.57031!	26.26861			4
	5.87	5.91	5.93	18092.58007!	6.957878			5
	6.12	6.18	6.18	14817.70898·	10.809488			6
Height Summation:				**249082.003418**				
Amount Avg CF:				**25.533789**	Linear:			
Chlordane						6	69.53	
	3.47	3.48	3.54	2409.104004	1.233203			1
+	3.47	3.53	3.54	2277.000488	1.16568			1
	3.59	3.62	3.66	2777.904541	1.202927			2
+	4.00	4.01	4.07	1614.656982	1.088544			3
	4.00	4.03	4.07	2306.474365	1.555085			3
	4.52	4.54	4.59	21895.50781!	4.195298			4
	4.60	4.63	4.67	23800.28320!	6.147125			5
	4.64	4.67	4.71	12329.83105!	2.790318			6
Height Summation:				**65519.104981**				
Amount Avg CF:				**2.853993**	Linear:			
Toxaphene						6	65.94	
	5.09	5.10	5.16	15058.85839!	25.703158			1
+	5.34	5.34	5.41	2282.747803	1.878994			2
	5.34	5.37	5.41	14526.13574!	11.956869			2
	5.53	5.56	5.60	34046.31640!	27.77291			3
	5.71	5.71	5.78	32859.57031!	57.210991			4
	5.88	5.91	5.95	18092.58007!	21.949103			5
+*	5.88	5.95	5.95	9649.510742	11.706352			5
*	5.92	5.95	5.99	9649.510742	10.071769			6
+	5.92	5.98	5.99	6731.399902	7.025963			6
Height Summation:				**124232.971679**				
Amount Avg CF:				**25.777467**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		38.78	4	40	
Aroclor-1221			0	0	E	** 198.14	3	5	
Aroclor-1232			0	0		33.76	4	10	
Aroclor-1242			0	0		38.26	4	30	
Aroclor-1248			0	0	E	** 73.66	4	30	
Aroclor-1254			0	0	E	23.25	4	40	
Aroclor-1260			0	0	E	7.56	4	40	

USFB3 1579

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/25/2011 15:30:10

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339374 FG 21S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)
Injected on : JUL 20, 2011 06:47:03
Instrument : CP10--H9191A
Result file : 1P10200.74R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)
Injected on : JUL 20, 2011 06:47:03
Instrument : CP10-H9191B
Result file : 1P10200B.74R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Chlordane	A	4.1485	3.3943	0.7987		36.93	4	40	
Toxaphene			6.589	2.1963	E	** 117.36	4	40	No match

Units: ug/kg

USF03 1588

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/25/2011 15:30:10

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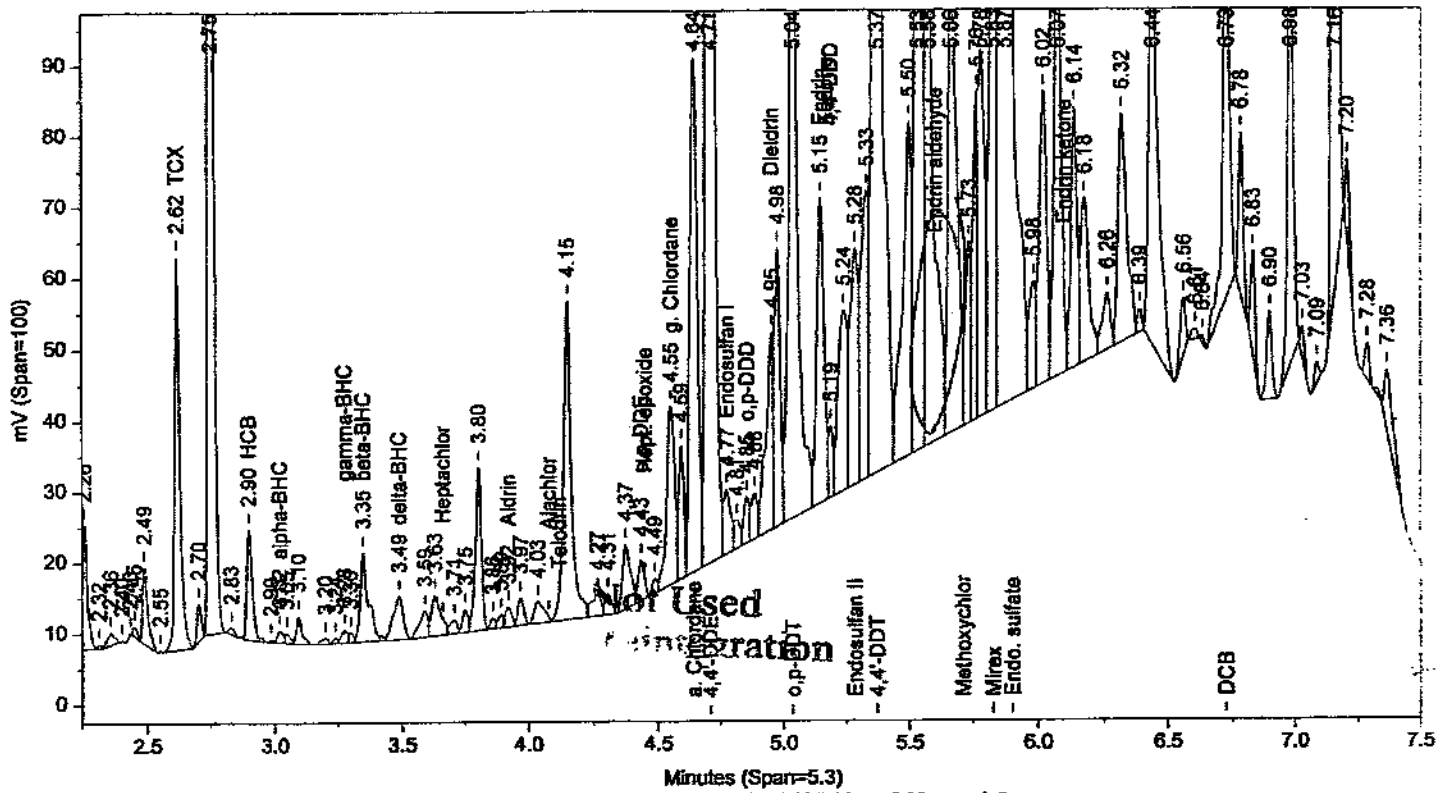

Instrument ID: CP10--H9191A Injected On: 7/20/2011 6:47:03 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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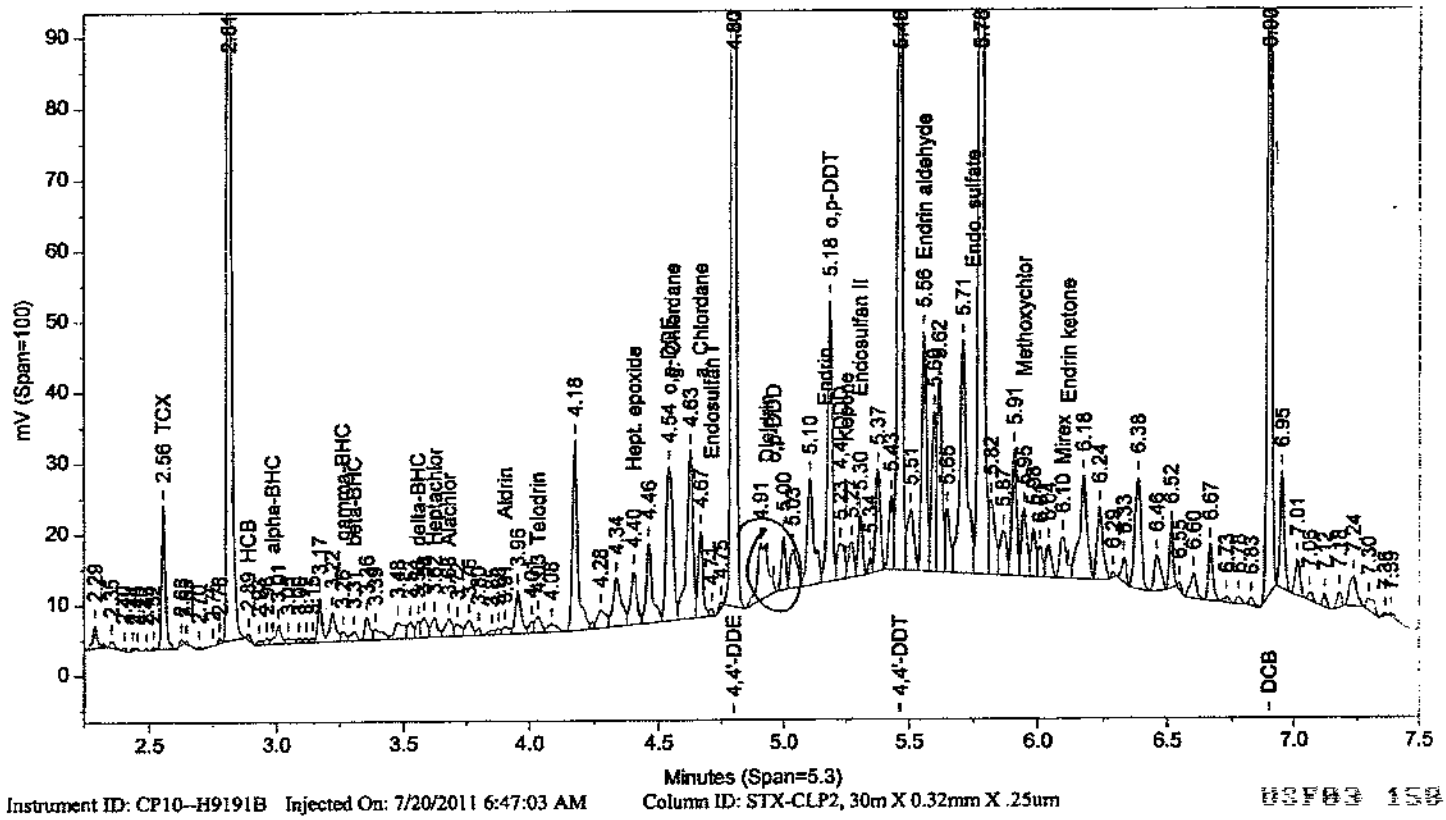

Instrument ID: CP10--H9191B Injected On: 7/20/2011 6:47:03 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

03783 1591

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.1 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	55292	.576	TCX	2.557	20325	.587	TCX
2.899	15615	.148	HCB	2.89	883	.019	HCB
3.021	1648	.013	alpha-BHC	.	0	.	alpha-BHC
3.276	1763	.015	gamma-BHC	3.264	1301	.019	gamma-BHC
3.348	12719	.233	beta-BHC	3.308	1214	.043	beta-BHC
3.489	6129	.056	delta-BHC	3.559	2334	.036	delta-BHC
.	0	.	Heptachlor	3.624	2778	.05	Heptachlor
.	0	.	Alachlor	3.682	2540	.	Alachlor
3.922	2779	.027	Aldrin	3.906	1098	.022	Aldrin
.	0	.	Telodrin	4.033	2306	.061	Telodrin
.	0	.	Hept. epoxide	4.404	7556	.177	Hept. epoxide
4.433	5734	.102	o,p-DDE	4.541	21896	.744	o,p-DDE
4.551	25315	.26	g. Chlordane	.	0	.	g. Chlordane
4.642	72595	.779	a. Chlordane	4.669	12330	.262	a. Chlordane
4.708	501040	5.747	4,4'-DDE	4.8	183339	4.215	4,4'-DDE
4.774	9092	.105	Endosulfan I	4.713	1075	.025	Endosulfan I
4.854	6557	.135	o,p-DDD	.	0	.	o,p-DDD
4.953	27740	.294	Dieldrin	.	0	.	Dieldrin
5.037	121036	2.307	o,p-DDT	5.184	39660	1.466	o,p-DDT
5.145	43090	.554	Endrin	.	0	.	Endrin
5.187	10109	.143	4,4'-DDD	5.226	5006	.149	4,4'-DDD
5.284	33068	.58	Endosulfan II	5.305	8759	.261	Endosulfan II
5.371	419207	6.641	4,4'-DDT	5.462	138188	5.013	4,4'-DDT
.	0	.	Endrin aldehyde	5.558	34046	1.293	Endrin aldehyde
5.829	87314	1.62	Mirex	6.095	5869	.321	Mirex
.	0	.	Methoxychlor	5.948	9650	.908	Methoxychlor
6.727	56038	.971	DCB	6.899	113637	7.622	DCB

Not Used
See Reintegration

Files:
Area File: C:\CPWIN\DATA1\1P10200.74A
Area File: C:\CPWIN\DATA1\1P10200B.74A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
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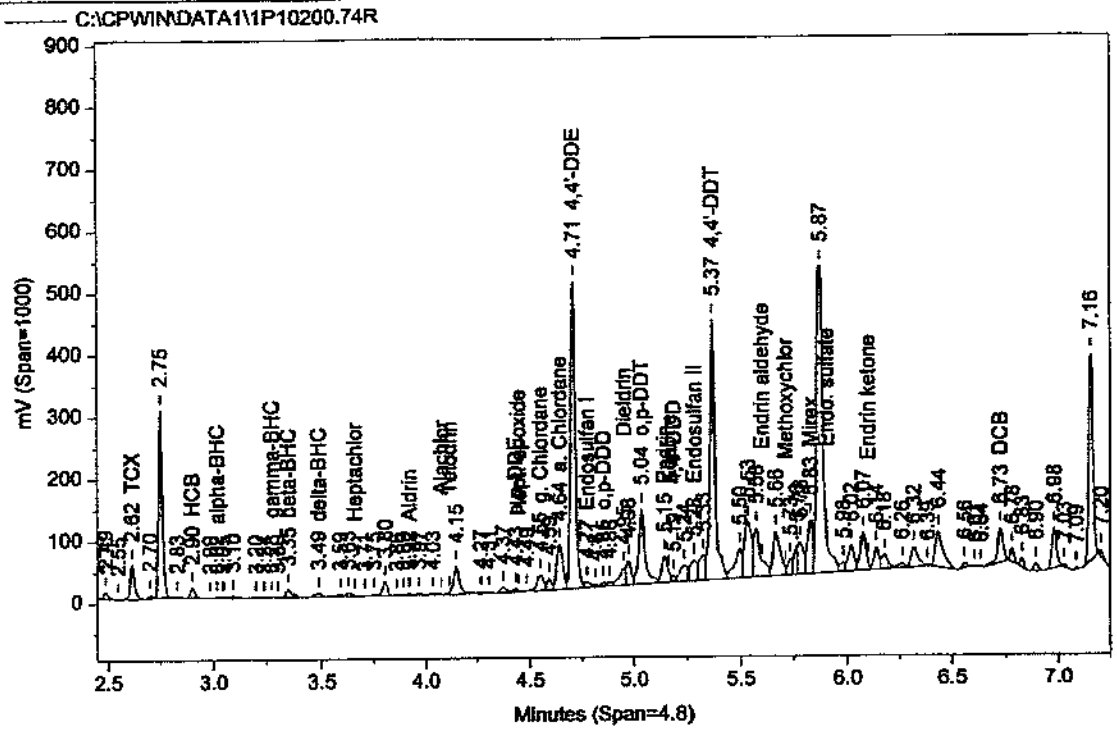
10X REPLOTS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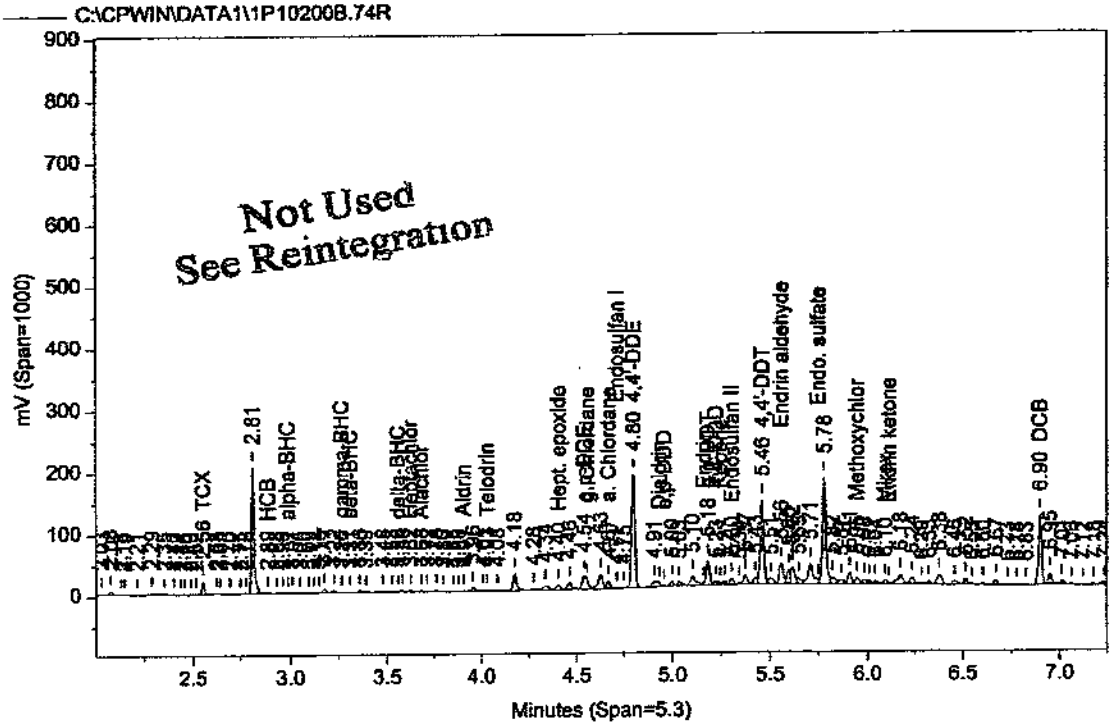
Minutes (Span=4.8)
TCX
HCB
alpha-BHC
gamma-BHC
beta-BHC
delta-BHC
Heptachlor
Aldrin
Hept. epoxide
a. Chlordane
4,4'-DDE
Endosulfan I
o,p-DDD
Dieldrin
o,p-DDT
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endo. sulfate
Endrin ketone
DCB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Not Used
See Reintegration
mV (Span=1000)
Minutes (Span=5.3)
TCX
HCB
alpha-BHC
Aldrin
Telodrin
Hept. epoxide
a. Chlordane
4,4'-DDE
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
DCB

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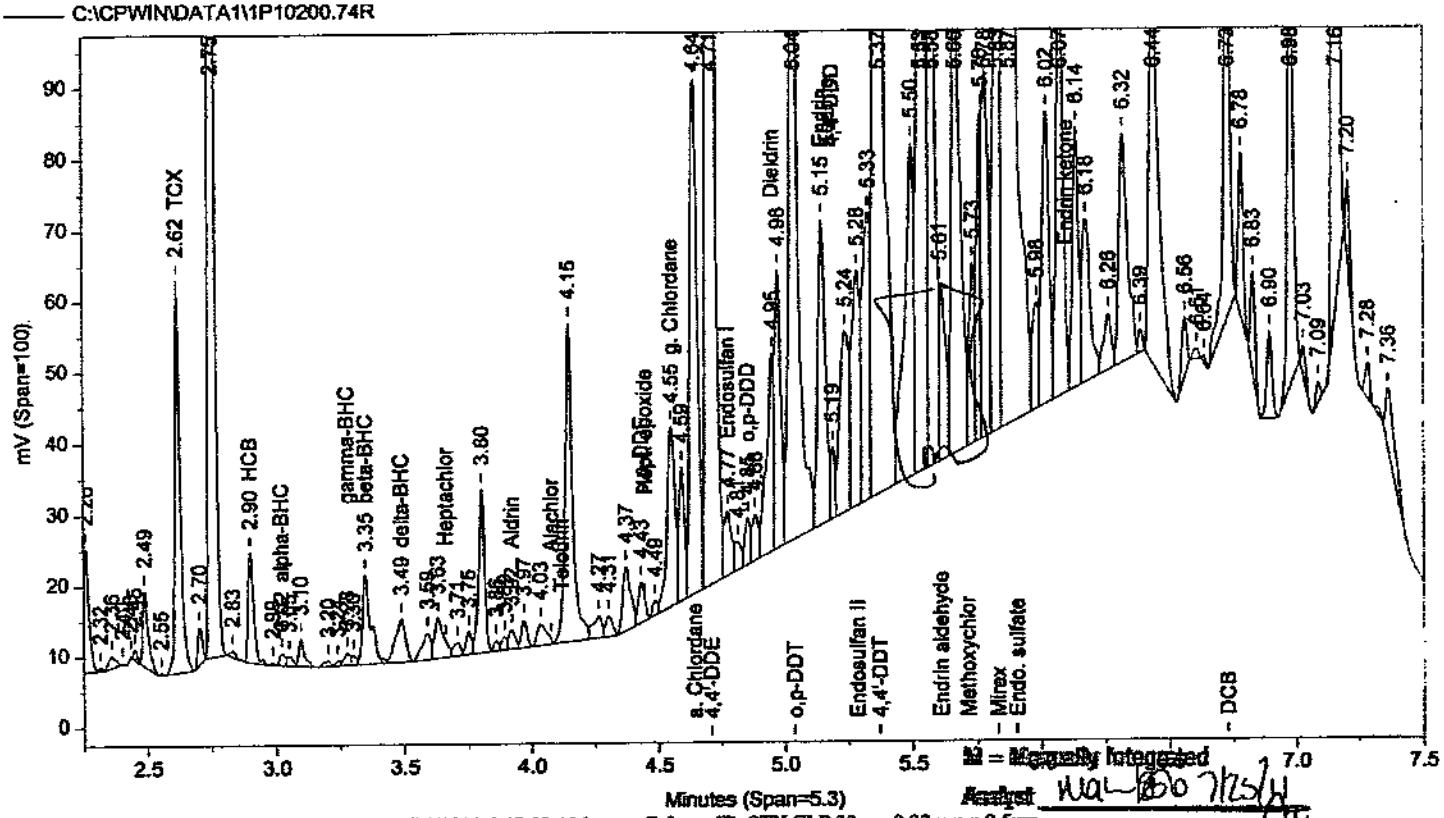

M = Manually Integrated

Analyst WAL-PBO 7/25/11

Approved by

Circle Reason (1) 2 3 4

1 = Missed Peak

2 = Improper Baseline

3 = RT Update

4 = Other

Instrument ID: CP10--H9191A Injected On: 7/20/2011 6:47:03 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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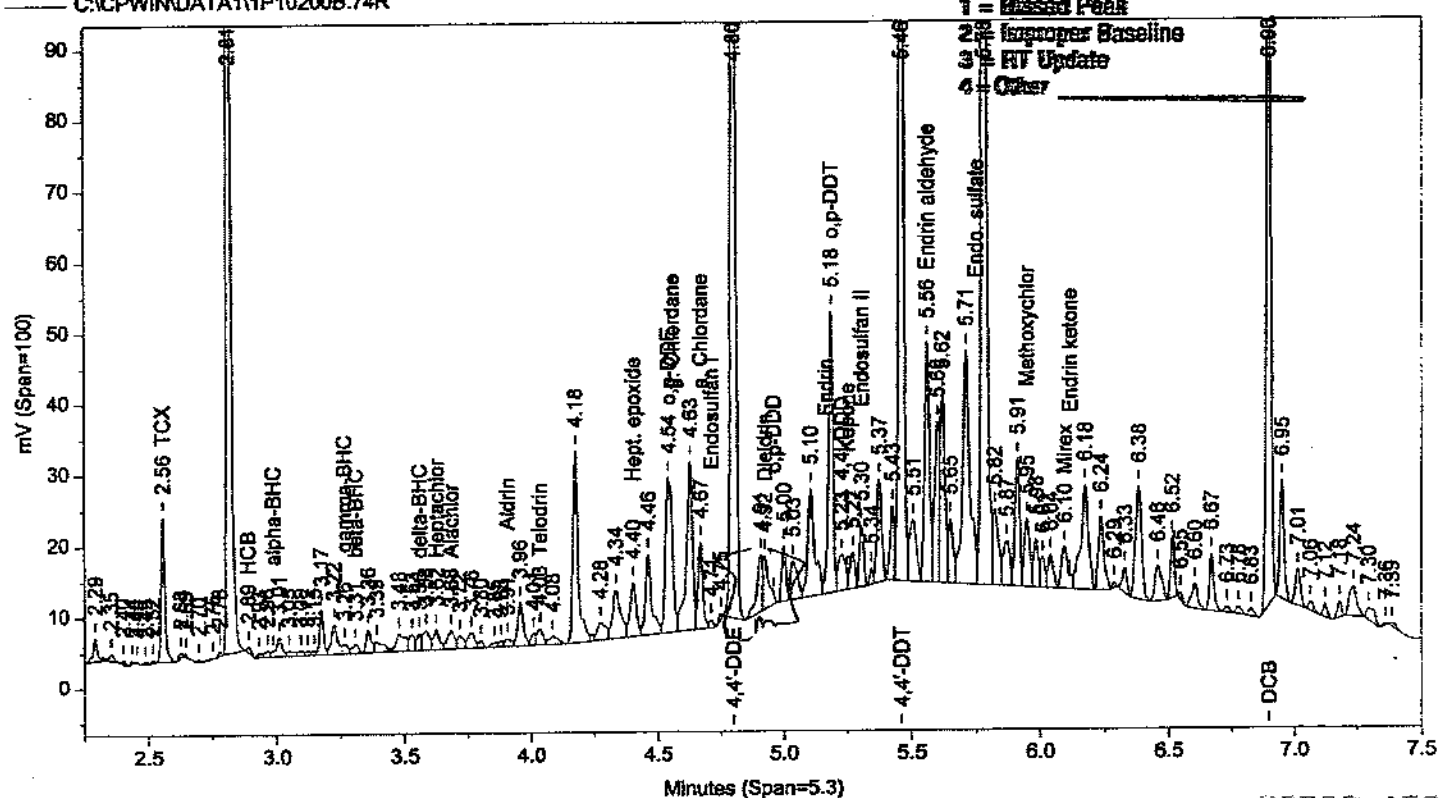

Instrument ID: CP10--H9191B Injected On: 7/20/2011 6:47:03 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF83 1504

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.1 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	55292	.576	TCX	2.557	20325	.587	TCX
2.899	15615	.148	HCB	2.89	883	.019	HCB
3.021	1648	.013	alpha-BHC	.	0	.	alpha-BHC
3.276	1763	.015	gamma-BHC	3.264	1301	.019	gamma-BHC
3.348	12719	.233	beta-BHC	3.308	1214	.043	beta-BHC
3.489	6129	.056	delta-BHC	3.559	2334	.036	delta-BHC
.	0	.	Heptachlor	3.624	2778	.05	Heptachlor
.	0	.	Alachlor	3.682	2540	.	Alachlor
3.922	2779	.027	Aldrin	3.906	1098	.022	Aldrin
.	0	.	Telodrin	4.033	2306	.051	Telodrin
.	0	.	Hept. epoxide	4.404	7556	.177	Hept. epoxide
4.433	5734	.102	o,p-DDE	4.541	21896	.744	o,p-DDE
4.551	25315	.26	g. Chlordane	.	0	.	g. Chlordane
4.642	72595	.779	a. Chlordane	4.669	12330	.262	a. Chlordane
4.708	501040	5.747	4,4'-DDE	4.8	183339	4.215	4,4'-DDE
4.774	9092	.105	Endosulfan I	4.713	1075	.025	Endosulfan I
4.854	6557	.135	o,p-DDD	.	0	.	o,p-DDD
4.953	27740	.294	Dieldrin	4.924	7518	.159	Dieldrin
5.037	121036	2.307	o,p-DDT	5.184	39660	1.466	o,p-DDT
5.145	43090	.554	Endrin	.	0	.	Endrin
5.187	10109	.143	4,4'-DDD	5.226	5006	.149	4,4'-DDD
5.284	33068	.58	Endosulfan II	5.305	8759	.261	Endosulfan II
5.371	419207	6.641	4,4'-DDT	5.462	138188	5.013	4,4'-DDT
5.607	24739	.403	Endrin aldehyde	5.558	34046	1.293	Endrin aldehyde
5.829	87314	1.62	Mirex	6.095	5869	.321	Mirex
.	0	.	Methoxychlor	5.948	9650	.908	Methoxychlor
6.727	56038	.971	DCB	6.899	113637	7.622	DCB

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
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File Reported On: 7/25/2011 at 3:06:22 PM

10X REPLOTS

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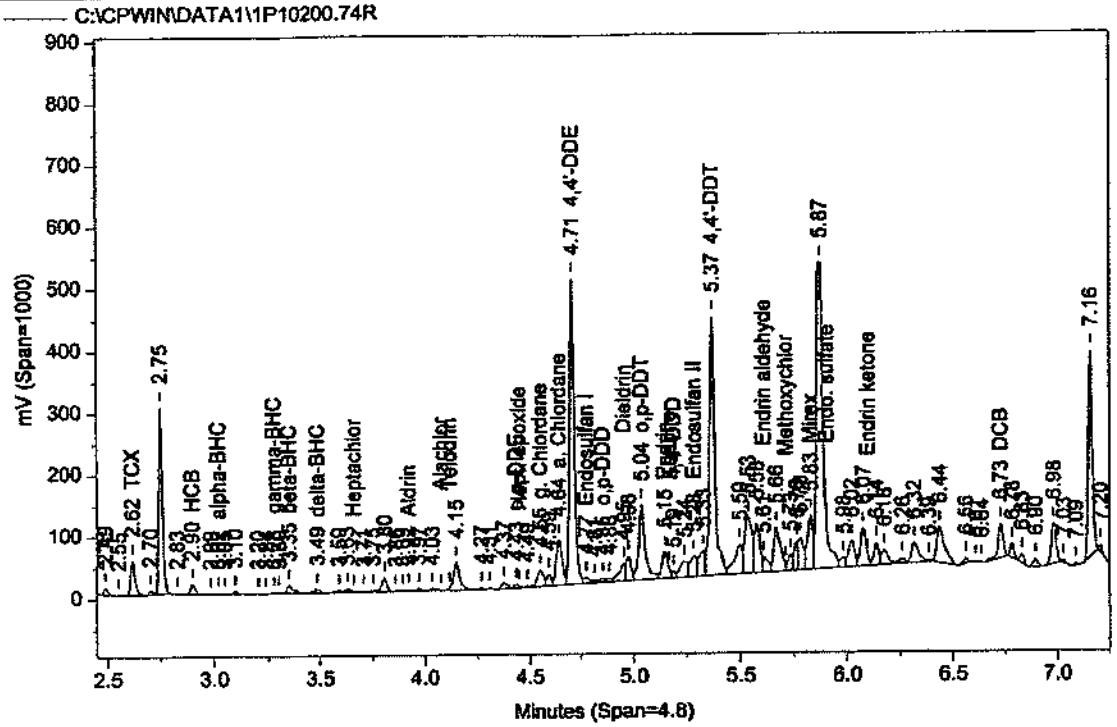

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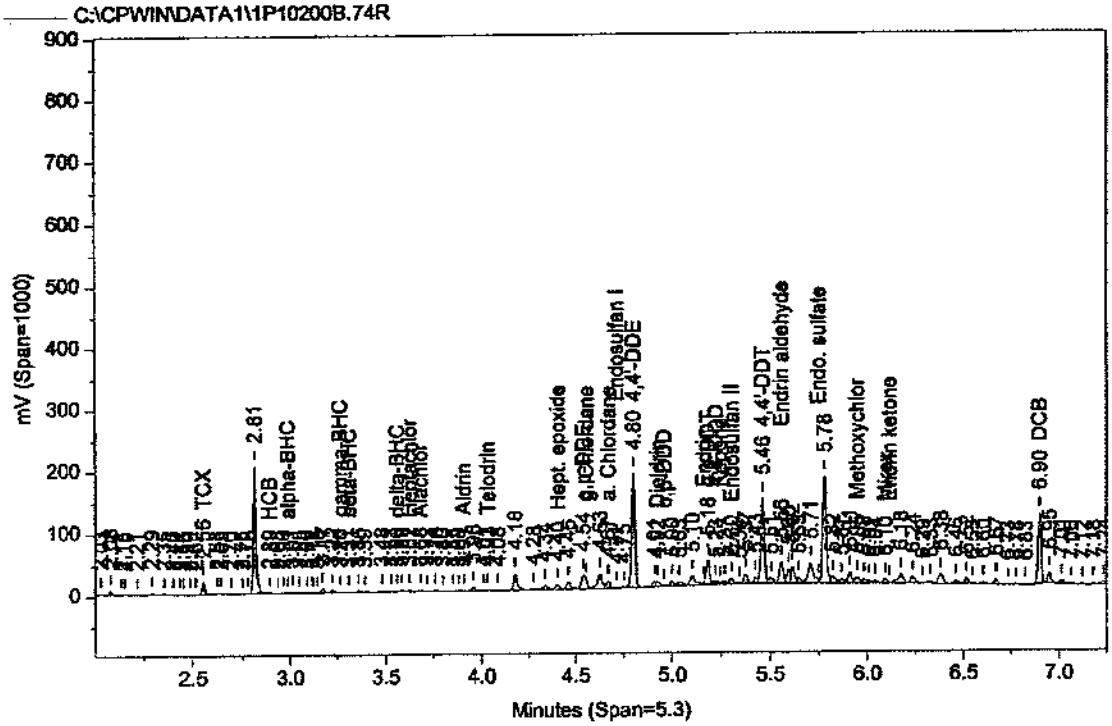

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339374 FG DF5 21S05 Sample ID: AD **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 20 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 26, 2011 08:53:46
Instrument : CP10--H9191A
Result file : 1P10206.44R
Calibration file : 1P10206.CAL
Method file : PESTD.MET

%SSR(TCX) : 79.8% (28-121) Conc.: 0.830066
%SSR(DCB) : *181% (45-150) Conc.: 1.883317

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.59	2.61	2.63	12440	0.830066
HCB	2.87	2.90	2.91	3621	0.184854
alpha-BHC	3.00	3.02	3.04	304	0.014385
gamma-BHC	3.25	3.27	3.29	234	0.010112
beta-BHC	3.31	3.35	3.35	2159	0.194515
delta-BHC	3.46	3.49	3.50	1643	0.076815
Aldrin	3.90	3.92	3.94	1396	0.065809
Telodrin	4.09	4.10	4.13	816	0.050507
o,p-DDE	4.41	4.43	4.45	1866	0.166506
g. Chlordane	4.52	4.55	4.58	5955	0.290223
a. Chlordane	4.63	4.64	4.67	12419	0.652667
4,4'-DDE	4.69	4.71	4.73	106440	5.952029
o,p-DDD	4.83	4.85	4.86	1781	0.184262
o,p-DDT	5.02	5.04	5.06	28548	2.606917
Kepone	5.14	5.14	5.18	11125	2.028042
4,4'-DDT	5.35	5.37	5.39	83868	6.047477
Mirex	5.81	5.83	5.85	18122	1.546878
Endrin ketone	6.07	6.07	6.11	14334	0.809072
DCB	6.71	6.72	6.75	23259	1.883317

Analysis Report (B)

Injected on : JUL 26, 2011 08:53:46
Instrument : CP10--H9191B
Result file : 1P10206B.44R
Calibration file : 1P10206B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 81.2% (28-121) Conc.: 0.843979
%SSR(DCB) : *724.3% (45-150) Conc.: 7.537933

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	4367	0.843979
HCB	2.87	2.89	2.91	366	0.037246
beta-BHC	3.30	3.31	3.34	309	0.058292
delta-BHC	3.55	3.56	3.59	836	0.074684
Heptachlor	3.60	3.63	3.64	1094	0.106439
Alachlor	3.66	3.69	3.70	1122 E	0.000000
Aldrin	3.88	3.91	3.92	983	0.106897
Telodrin	4.03	4.04	4.07	1337	0.203322
Hept. epoxide	4.38	4.41	4.42	2350	0.285118
g. Chlordane	4.53	4.54	4.59	76724 E	8.699300
a. Chlordane	4.65	4.67	4.69	3169	0.356442
4,4'-DDE	4.78	4.80	4.82	38951	4.949031
o,p-DDD	4.94	4.96	4.98	589	0.134383
o,p-DDT	5.17	5.19	5.21	10010	2.110659
4,4'-DDD	5.22	5.23	5.26	1706	0.285393
Endosulfan II	5.30	5.31	5.34	1986	0.325630
4,4'-DDT	5.45	5.47	5.49	28893	5.576178
Endrin aldehyde	5.54	5.56	5.58	8211	1.624200
Methoxychlor	5.92	5.95	5.96	1990	0.958682
Mirex	6.07	6.10	6.11	12517	3.476088
DCB	6.88	6.90	6.91	24713	7.537933

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	B	0.843979				1.66	
☐ HCB			<0.8286	<0.2097			
☑ alpha-BHC			<0.8286	<0.1697			
☑ gamma-BHC			<0.8286	<0.1697			
☑ beta-BHC			<0.8286	<0.2995			
☑ delta-BHC			<0.8286	<0.1797			
☑ Heptachlor			<0.8286	<0.2995			
☑ Aldrin			<0.8286	<0.3295			
☐ Alachlor							
☐ Telodrin			<1.198	<0.3993			
☐ o,p-DDE			<1.6972	<0.3295			
☑ Hept. epoxide			<0.8286	<0.1697			
☐ g. Chlordane	A	0.290223	<0.8286	0.2496	J	187.09	**
☐ a. Chlordane	B	0.356442	<0.8286	0.2296	J	58.71	**
☑ 4,4'-DDE	A	5.952029	1.6972	0.3295		18.40	
☑ Endosulfan I			<0.8286	<0.2196			
☐ o,p-DDD			<1.6972	<0.3295			
☑ Dieldrin			<1.6972	<0.3295			
☐ o,p-DDT	A	2.606917	1.6972	0.3295		21.04	
☑ Endrin			<1.6972	<0.3295			

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD>40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/26/2011 10:52:57

Lancaster Laboratories-Single Component Data Summary

Sample Name: **6339374** FG DF5 21S05 Sample ID: AD **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 20 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 26, 2011 08:53:46
Instrument : CP10--H9191A
Result file : 1P10206.44R
Calibration file : 1P10206.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 26, 2011 08:53:46
Instrument : CP10--H9191B
Result file : 1P10206B.44R
Calibration file : 1P10206B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ Kepone			<6.9884	<2.2962			
☑ 4,4'-DDD			<1.6972	<0.3295			
☑ Endosulfan II			<1.6972	<0.3295			
☑ 4,4'-DDT	A	6.047477	1.6972	0.3295		8.11	
☑ Endrin aldehyde			<1.6972	<0.3295			
☑ Methoxychlor			<8.2862	<1.6972			
☑ Mirex	A	1.546878	<1.6972	0.3295	J	76.82	**
☑ Endo. sulfate			<1.6972	<0.3295			
☑ Endrin ketone			<1.6972	<0.3295			
☐ DCB	A	1.883317				120.04	**

Units: ug/kg

Reviewed by: Melissa A McDermott
Date: JUL 26 2011

Melissa A. McDermott
Senior Chemist

Verified by:
Date:

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD > 40

Printed on: 7/26/2011 10:52:57

LANCASTER LABORATORIES

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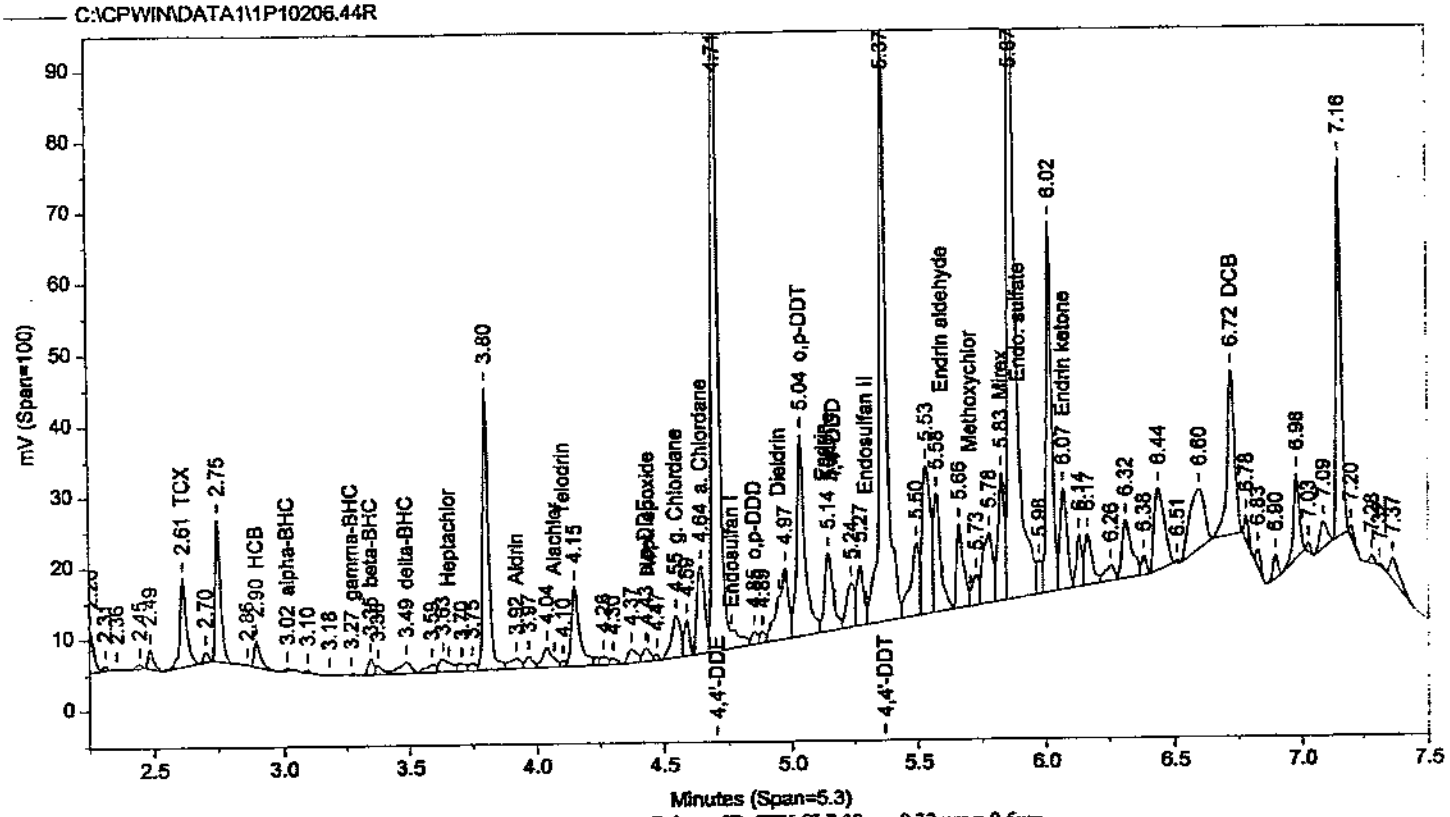

Instrument ID: CP10--H9191A Injected On: 7/26/2011 8:53:46 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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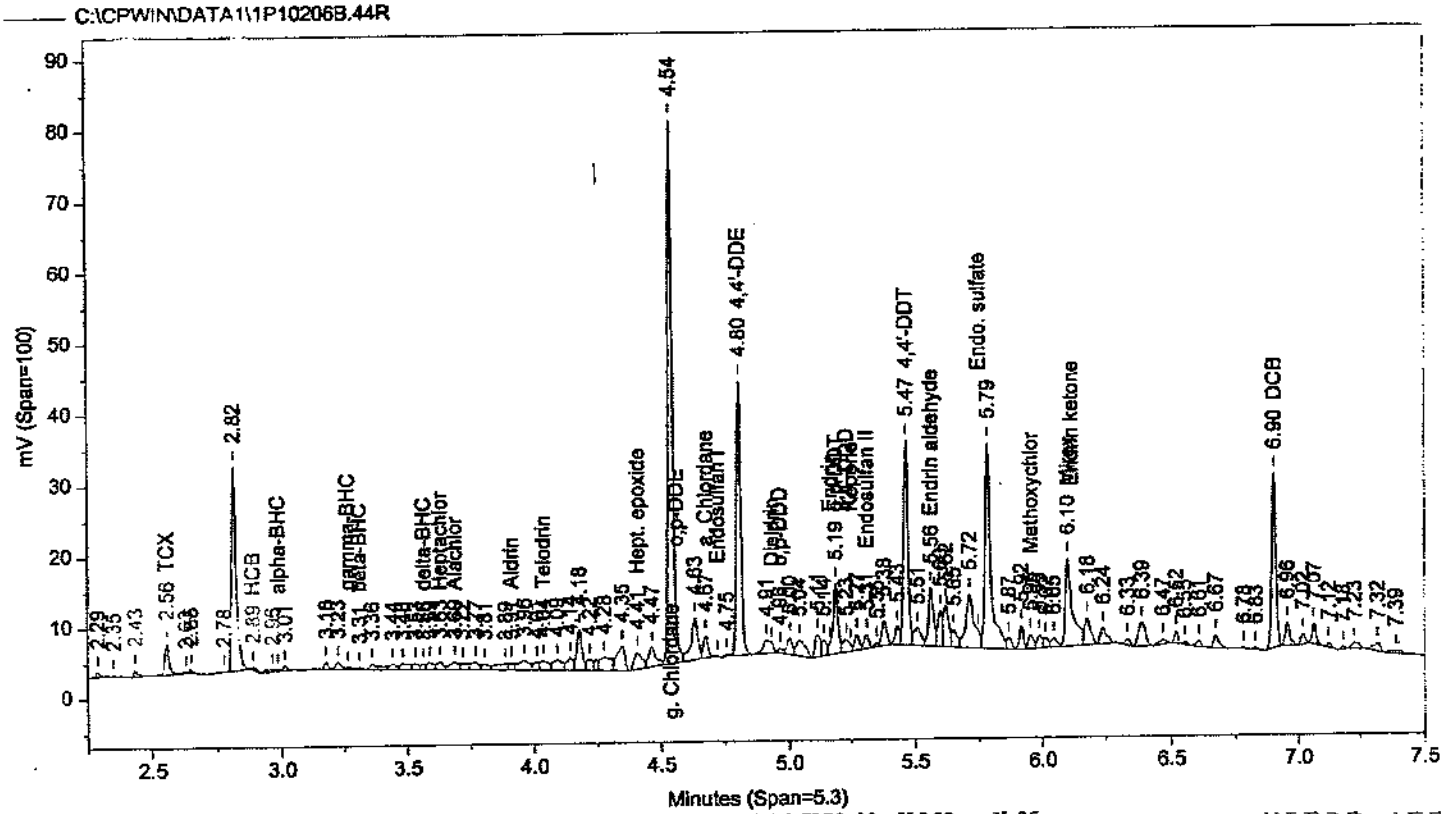

Instrument ID: CP10--H9191B Injected On: 7/26/2011 8:53:46 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USP93 1589

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.1 Dilution Factor: 20
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.613	12440	.83	TCX	2.556	4367	.844	TCX
2.897	3621	.185	HCB	2.89	366	.037	HCB
3.016	304	.014	alpha-BHC	.	0	.	alpha-BHC
3.27	234	.01	gamma-BHC	.	0	.	gamma-BHC
3.347	2159	.195	beta-BHC	3.311	309	.058	beta-BHC
3.487	1643	.077	delta-BHC	3.564	836	.075	delta-BHC
.	0	.	Heptachlor	3.628	1094	.106	Heptachlor
.	0	.	Alachlor	3.687	1122	.	Alachlor
3.92	1396	.066	Aldrin	3.91	983	.107	Aldrin
4.104	816	.051	Telodrin	4.036	1337	.203	Telodrin
.	0	.	Hept. epoxide	4.409	2350	.285	Hept. epoxide
4.432	1866	.167	o,p-DDE	.	0	.	o,p-DDE
4.548	5955	.29	g. Chlordane	4.54	76724	8.699	g. Chlordane
4.645	12419	.653	a. Chlordane	4.674	3169	.356	a. Chlordane
4.706	106440	5.952	4,4'-DDE	4.804	38951	4.949	4,4'-DDE
4.852	1781	.184	o,p-DDD	4.965	589	.134	o,p-DDD
5.036	28548	2.607	o,p-DDT	5.188	10010	2.111	o,p-DDT
5.145	11125	2.028	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.229	1706	.285	4,4'-DDD
.	0	.	Endosulfan II	5.31	1986	.326	Endosulfan II
5.369	83868	6.047	4,4'-DDT	5.466	28893	5.576	4,4'-DDT
.	0	.	Endrin aldehyde	5.564	8211	1.624	Endrin aldehyde
5.83	18122	1.547	Mirex	6.102	12517	3.476	Mirex
.	0	.	Methoxychlor	5.954	1990	.959	Methoxychlor
6.074	14334	.809	Endrin ketone	.	0	.	Endrin ketone
6.724	23259	1.883	DCB	6.903	24713	7.538	DCB

Files:
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Method B: C:\CPWIN\DATA1\PESTDB.MET
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
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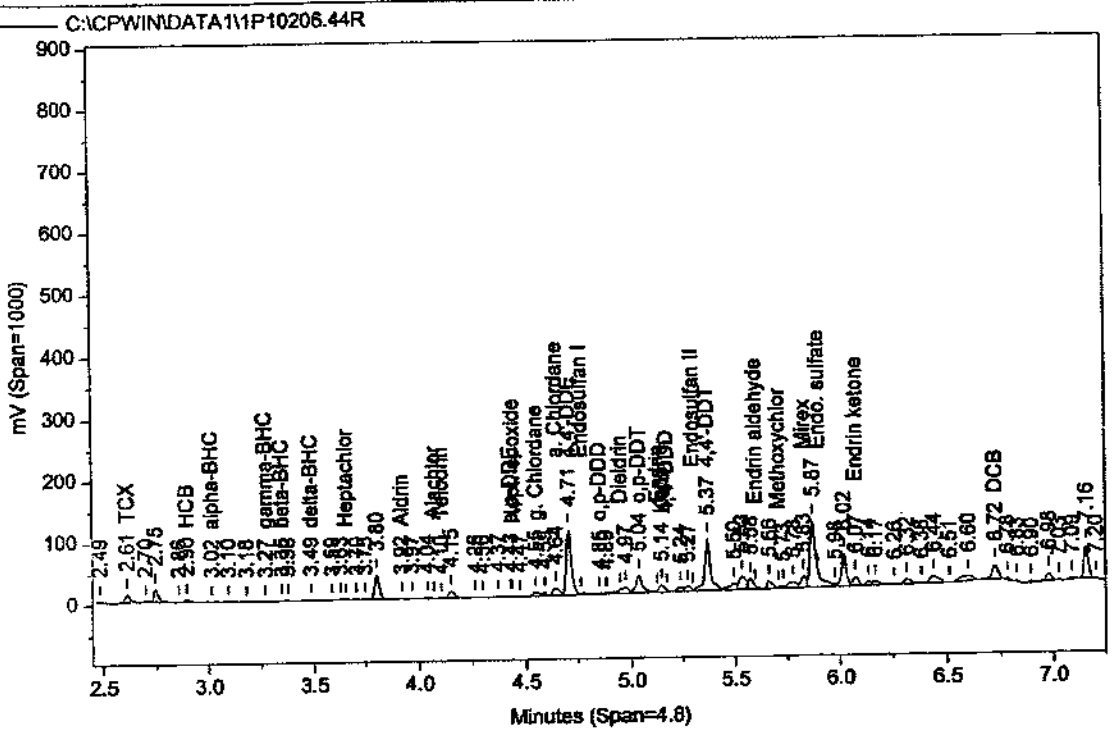
USF83 1598

10X REPLOTS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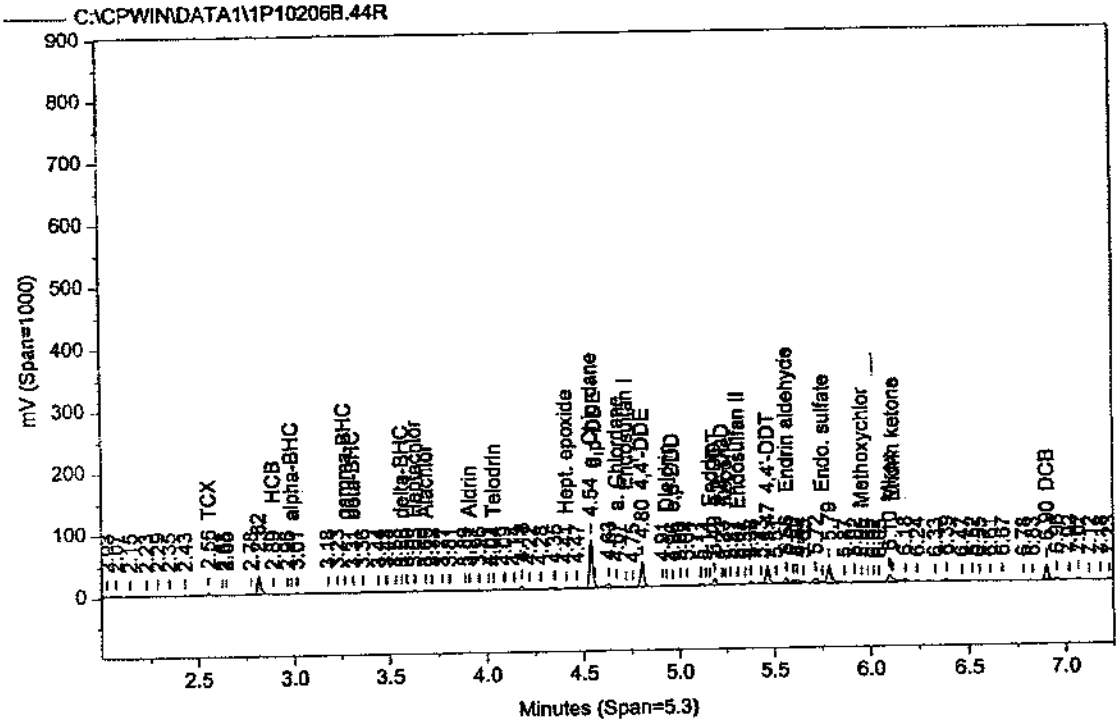
HCB
alpha-BHC
gamma-BHC
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide
g. Chlordane
a. Chlordane
Endosulfan I
o,p-DDD
Dieldrin
o,p-DDT
Endosulfan II
4,4-DDT
Endrin aldehyde
Methoxychlor
Mirex
Endo. sulfate
Endrin ketone
DCB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HCB
alpha-BHC
gamma-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide
g. Chlordane
a. Chlordane
Endosulfan I
4,4-DDE
Dieldrin
Endosulfan II
4,4-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
Endrin ketone
DCB

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339375 FG 74S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.5 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:02:09
Instrument : CP10--H9191A
Result file : 1P10200.75R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 51.5% (28-121) Conc.: 0.532051
%SSR(DCB) : 80.9% (45-150) Conc.: 0.836258

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	51370	0.532051
HCB	2.88	2.90	2.92	64418	0.607393
beta-BHC	3.31	3.35	3.35	11894	0.216911
delta-BHC	3.46	3.48	3.50	5377	0.049161
Aldrin	3.91	3.92	3.95	2544	0.024879
o,p-DDE	4.42	4.42	4.46	273	0.004854
Hept. epoxide	4.43	4.45	4.47	497	0.005247
a. Chlordane	4.64	4.68	4.68	25536	0.272242
Endosulfan I	4.75	4.77	4.79	2156	0.024710
Endrin	5.11	5.14	5.15	7662	0.097835
Endosulfan II	5.28	5.29	5.32	2063	0.035968
4,4'-DDT	5.35	5.37	5.39	10236	0.161068
Methoxychlor	5.69	5.71	5.73	7569	0.241142
Mirex	5.82	5.84	5.86	7288	0.134329
Endo. sulfate	5.88	5.89	5.92	5710	0.091784
DCB	6.71	6.73	6.75	48596	0.836258

Analysis Report (B)

Injected on : JUL 20, 2011 07:02:09
Instrument : CP10--H9191B
Result file : 1P10200B.75R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 50.5% (28-121) Conc.: 0.522073
%SSR(DCB) : 107.4% (45-150) Conc.: 1.110679

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	18203	0.522073
HCB	2.87	2.89	2.91	487	0.010244
beta-BHC	3.30	3.31	3.34	2018	0.070326
delta-BHC	3.55	3.59	3.59	3954	0.060353
Alachlor	3.66	3.68	3.70	3439 E	0.000000
Aldrin	3.89	3.91	3.93	2991	0.058845
Telodrin	4.03	4.03	4.07	3812	0.099418
Hept. epoxide	4.38	4.39	4.42	1421	0.033009
o,p-DDE	4.54	4.54	4.58	22954	0.774458
Endosulfan I	4.70	4.73	4.74	1917	0.045143
4,4'-DDE	4.78	4.80	4.82	1882	0.042993
o,p-DDD	4.94	4.95	4.98	779	0.030305
Endrin	5.14	5.17	5.18	1076	0.027750
Kepone	5.23	5.25	5.27	253	0.022673
4,4'-DDT	5.44	5.47	5.48	5709	0.205732
Endrin aldehyde	5.54	5.56	5.58	4193	0.158154
Endo. sulfate	5.73	5.76	5.77	1898	0.072537
Mirex	6.07	6.10	6.11	2026	0.110130
DCB	6.88	6.90	6.91	16689	1.110679

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	A B	.522073 0.532051				1.89	
☐ HCB			<0.1646	<0.0417			
☑ alpha-BHC			<0.1646	<0.0337			
☑ gamma-BHC			<0.1646	<0.0337			
☑ beta-BHC	B	0.070326	<0.1646	0.0585	J	102.07	** %DNC
☑ delta-BHC	B	0.060353	<0.1646	0.0357	J	20.44	
☑ Heptachlor			<0.1646	<0.0595			
☑ Aldrin			<0.1646	<0.0655			
☐ Alachlor							
☐ Telodrin			<0.238	<0.0793			
☐ o,p-DDE			<0.3372	<0.0655			
☑ Hept. epoxide			<0.1646	<0.0337			
☐ g. Chlordane			<0.1646	<0.0496			
☐ a. Chlordane			<0.1646	<0.0456			
☑ 4,4'-DDE			<0.3372	<0.0655			
☑ Endosulfan I			<0.1646	<0.0436			
☐ o,p-DDD			<0.3372	<0.0655			
☑ Dieldrin			<0.3372	<0.0655			
☐ o,p-DDT			<0.3372	<0.0655			
☑ Endrin			<0.3372	<0.0655			
☐ Kepone			<1.3884	<0.4562			
☑ 4,4'-DDD			<0.3372	<0.0655			

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/25/2011 15:31:36

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339375 FG 74S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.5 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)
Injected on : JUL 20, 2011 07:02:09
Instrument : CP10--H9191A
Result file : 1P10200.75R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)
Injected on : JUL 20, 2011 07:02:09
Instrument : CP10--H9191B
Result file : 1P10200B.75R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Endosulfan II			<0.3372	<0.0655			
☑ 4,4'-DDT	B	0.205732	<0.3372	0.0655	J	24.35	
☑ Endrin aldehyde			<0.3372	<0.0655			
☑ Methoxychlor			<1.6463	<0.3372			
☑ Mirex	B A	.1105 0.134329	<0.3372	0.0655	J	19.80	A 00
☑ Endo. sulfate	B A	0.075 0.091784	<0.3372	0.0655	J	23.43	
☑ Endrin ketone			<0.3372	<0.0655			
☐ DCB	B	1.110679				28.19	

Units: ug/kg

Reviewed by: Melissa A McDermott
Date: JUL 25 2011

Verified by:
Date: 7/24/11

Melissa A. McDermott
Senior Chemist

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits
Printed on: 7/25/2011 15:31:36

Higher Amount Found unless RPD>40

Multiple Component Data Summary

Sample Name: 6339375 FG 74S05 Sample ID: AC **Batchnumber:** 111930027A
Sample Amount: 60.5 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on	Jul 20, 2011 07:02:09
Instrument	H9191A
Result file	1P10200.75R
Calibration file	1P10200
Method file	PESTD

%SSR(TCX)	51.5%	Conc:	0.532051
%SSR(DCB)	80.9%	Conc:	0.836258

Analysis Report (B)

Injected on	Jul 20, 2011 07:02:09
Instrument	H9191B
Result file	1P10200B.75R
Calibration file	1P10200B
Method file	PESTDB

%SSR(TCX)	50.5%	Conc:	0.522073
%SSR(DCB)	107.4%	Conc:	1.110679

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)			<3.3719	<0.7934			4	40	
Toxaphene			<6.5455	<2.1818			4	40	

Units: ug/kg

%Difference = High - Low divided by the Average times 100

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 26 2011 Date:

Melissa A. McDermott
Senior Chemist

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339375 FG 74S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.5 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:02:09
Instrument : CP10--H9191A
Result file : 1P10200.75R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 51.5% (28-121) Conc.: 0.532051
%SSR(DCB) : 80.9% (45-150) Conc.: 0.836258

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					5	44.75	
2.84	2.85	2.90	1665.70813	1.227274			1
3.26	3.30	3.32	988.908813	0.637131			3
3.46	3.48	3.52	5377.448242	1.143802			4
+3.57	3.59	3.63	1664.975464	0.710888			5
*3.62	3.63	3.68	4109.905273	2.289307			6
*3.57	3.63	3.63	4109.905273	1.75479			5
Height Summation:			16251.875731				
Amount Avg CF:			1.410461	Linear:			
Aroclor-1221					3	144.03	
E 2.70	2.75	2.76	24881.755851	28.072948			1
+2.81	2.81	2.87	1350.332153	2.271131			2
*2.81	2.85	2.87	1665.70813	2.801564			2
*2.84	2.85	2.90	1665.70813	0.792412			3
Height Summation:			28213.172119				
Amount Avg CF:			10.555641	Linear:			
Aroclor-1232					5	61.34	
2.84	2.85	2.90	1665.70813	0.990195			1
3.26	3.30	3.32	988.908813	1.396911			3
3.46	3.48	3.52	5377.448242	2.487903			4
+3.57	3.59	3.63	1664.975464	1.51439			5
*3.63	3.63	3.68	4109.905273	5.042295			6
*3.57	3.63	3.63	4109.905273	3.738193			5
Height Summation:			16251.875731				
Amount Avg CF:			2.731099	Linear:			
Aroclor-1242					5	48.52	
2.84	2.85	2.90	1665.70813	1.728199			1
3.26	3.30	3.32	988.908813	0.872871			3
3.46	3.48	3.52	5377.448242	1.514908			4
+3.57	3.59	3.63	1664.975464	1.021586			5
*3.62	3.63	3.68	4109.905273	3.235835			6
*3.57	3.63	3.63	4109.905273	2.521732			5
Height Summation:			16251.875731				
Amount Avg CF:			1.974709	Linear:			
Aroclor-1248					4	100.00	
3.92	3.92	3.97	2543.650879	0.873706			2
+3.92	3.97	3.97	1978.942017	0.679737			2
3.99	4.03	4.05	938.335693	0.502602			3
4.77	4.83	4.83	1281.69397	0.774767			4
5.19	5.25	5.25	3561.847412	3.550608			6
Height Summation:			8325.527954				
Amount Avg CF:			1.425421	Linear:			
Aroclor-1254					4	100.43	
4.45	4.45	4.51	496.737457	0.128645			1
4.77	4.83	4.83	1281.69397	0.266438			3
5.12	5.14	5.18	7662.331055	2.903354			5
+5.33	5.34	5.39	6897.791504	1.752376			6
5.33	5.37	5.39	10235.59863	2.600342			6
Height Summation:			19676.361115				
Amount Avg CF:			1.474695	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 07:02:09
Instrument : CP10--H9191B
Result file : 1P10200B.75R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 50.5% (28-121) Conc.: 0.522073
%SSR(DCB) : 107.4% (45-150) Conc.: 1.110679

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	65.57	
2.86	2.89	2.91	486.599884	0.771971			1
3.15	3.18	3.21	6433.876465	5.935262			2
3.34	3.36	3.40	2429.268555	3.847935			3
+3.34	3.40	3.40	1182.33252	1.872802			3
3.50	3.53	3.56	2052.117676	0.92524			4
3.61	3.64	3.67	3146.049316	2.687207			5
3.70	3.72	3.76	3273.241699	3.944098			6
+3.70	3.76	3.76	3188.98584	3.842574			6
Height Summation:			17821.153595				
Amount Avg CF:			3.018619	Linear:			
Aroclor-1221					3	170.34	
+2.72	2.72	2.78	115.46788	0.340586			1
2.72	2.74	2.78	165.372803	0.487787			1
E+2.81	2.81	2.87	11801.32031	53.551996			2
E 2.81	2.84	2.87	21987.40429	99.774378			2
2.86	2.89	2.92	486.599884	0.625122			3
Height Summation:			22639.376984				
Amount Avg CF:			33.629096	Linear:			
Aroclor-1232					6	70.39	
2.86	2.89	2.92	486.599884	0.637067			1
3.15	3.18	3.21	6433.876465	12.803018			2
3.34	3.36	3.40	2429.268555	8.270484			3
+3.34	3.40	3.40	1182.33252	4.02527			3
3.50	3.53	3.56	2052.117676	2.125103			4
3.61	3.64	3.67	3146.049316	5.903314			5
3.70	3.72	3.76	3273.241699	8.525219			6
+3.70	3.76	3.76	3188.98584	8.305773			6
Height Summation:			17821.153595				
Amount Avg CF:			6.377368	Linear:			
Aroclor-1242					6	65.95	
2.86	2.89	2.92	486.599884	1.112444			1
3.15	3.18	3.21	6433.876465	8.33262			2
3.34	3.36	3.40	2429.268555	5.251358			3
+3.34	3.40	3.40	1182.33252	2.555852			3
3.50	3.53	3.56	2052.117676	1.235507			4
3.61	3.64	3.67	3146.049316	3.763403			5
3.70	3.72	3.76	3273.241699	5.586285			6
+3.70	3.76	3.76	3188.98584	5.442489			6
Height Summation:			17821.153595				
Amount Avg CF:			4.213603	Linear:			
Aroclor-1248					6	198.35	
3.77	3.80	3.83	2501.168701	2.353302			1
4.01	4.03	4.07	3812.203613	2.800361			2
4.12	4.14	4.18	1093.580322	0.878848			3
4.88	4.91	4.94	1654.250977	2.052585			4
E 5.05	5.11	5.11	25261.44921	45.133859			5
5.31	5.35	5.37	242.215332	0.472745			6
Height Summation:			34564.866164				
Amount Avg CF:			8.948617	Linear:			

USF03 1595

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/25/2011 15:31:37

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339375 FG 74S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.5 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:02:09
Instrument : CP10--H9191A
Result file : 1P10200.75R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					**5**	**50.26**	
4.91	4.93	4.97	10787.25	2.857227			1
5.12	5.14	5.18	7662.331055	1.583423			2
+5.33	5.34	5.39	6897.791504	1.549196			3
5.33	5.37	5.39	10235.59863	2.298844			3
5.79	5.84	5.85	7287.654297	1.026444			5
5.99	6.03	6.05	14476.32226	4.112897			6
Height Summation:			**50449.156251**				
Amount Avg CF:			**2.375767**	Linear:			
Chlordane					**6**	**83.33**	
3.56	3.59	3.63	1664.975464	0.475282			1
3.63	3.63	3.70	4109.905273	0.961536			2
4.01	4.03	4.08	938.335693	0.284002			3
4.52	4.52	4.59	2476.533691	0.24725			4
+4.62	4.64	4.69	12563.96191	1.100451			5
4.62	4.68	4.69	25536.14843	2.236657			5
5.22	5.25	5.29	3561.847412	1.346			6
Height Summation:			**38287.745971**				
Amount Avg CF:			**0.925121**	Linear:			
Toxaphene					**6**	**65.21**	
+5.31	5.34	5.38	6897.791504	3.650469			1
*5.35	5.37	5.42	10235.59863	5.512433			2
*5.31	5.37	5.38	10235.59863	5.416912			1
5.55	5.57	5.62	5245.120117	2.277203			3
5.74	5.76	5.81	3891.535156	2.129226			4
+5.74	5.79	5.81	3568.059326	1.952238			4
5.80	5.84	5.87	7287.654297	2.975553			5
6.05	6.08	6.12	14497.60644	10.349997			6
Height Summation:			**51393.113281**				
Amount Avg CF:			**4.776887**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 07:02:09
Instrument : CP10--H9191B
Result file : 1P10200B.75R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**117.67**	
4.52	4.54	4.58	22954.17382	13.738696			1
4.79	4.80	4.85	1882.445435	1.477085			2
+4.79	4.84	4.85	507.028168	0.397846			2
4.88	4.91	4.94	1654.250977	0.729652			3
5.05	5.11	5.11	25261.44921	15.974009			4
5.30	5.35	5.36	242.215332	0.222013			5
5.44	5.47	5.50	5709.245117	3.657095			6
Height Summation:			**57703.779908**				
Amount Avg CF:			**5.966425**	Linear:			
Aroclor-1260					**6**	**74.63**	
5.03	5.04	5.09	6170.918945	3.503604			1
5.18	5.22	5.24	889.615234	0.444023			2
5.44	5.47	5.50	5709.245117	3.55903			3
5.71	5.71	5.77	2372.977783	1.884465			4
+5.71	5.76	5.77	1898.296997	1.507504			4
5.87	5.88	5.93	390.755524	0.14928			5
6.12	6.14	6.18	2951.983154	2.139228			6
Height Summation:			**18485.495757**				
Amount Avg CF:			**1.946605**	Linear:			
Chlordane					**6**	**48.10**	
+3.47	3.49	3.54	1872.447021	0.952155			1
3.47	3.53	3.54	2052.117676	1.043519			1
3.59	3.64	3.66	3146.049316	1.353339			2
4.00	4.03	4.07	3812.203613	2.553294			3
4.52	4.54	4.59	22954.17382	4.369066			4
*4.64	4.64	4.71	11836.11230	2.660876			6
*4.60	4.64	4.67	11836.11230	3.036813			5
Height Summation:			**55636.769043**				
Amount Avg CF:			**2.502818**	Linear:			
Toxaphene					**4**	**159.08**	
5.09	5.11	5.16	25261.44921	42.832337			1
+5.34	5.35	5.41	242.215332	0.198056			2
5.34	5.38	5.41	459.873169	0.376032			2
5.53	5.56	5.60	4193.429199	3.398127			3
5.71	5.71	5.78	2372.977783	4.104217			4
+5.71	5.76	5.78	1898.296997	3.283226			4
Height Summation:			**32287.729370**				
Amount Avg CF:			**12.677678**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		**72.62	4	40	
Aroclor-1221			0	0	E	**104.44	3	5	
Aroclor-1232			0	0		**80.06	4	10	
Aroclor-1242			0	0		**72.36	4	30	
Aroclor-1248			0	0		**145.04	4	30	
Aroclor-1254			0	0		**120.73	4	40	
Aroclor-1260			0	0		19.86	4	40	
Chlordane			3.3719	0.7934		**92.05	4	40	no match
Toxaphene			6.5455	2.1818		**90.53	4	40	↓

Units: ug/kg

USF03 1596

* Peak found within more than one window
+Duplicate Peak in window - not included in average

Printed on: 7/25/2011 15:31:37

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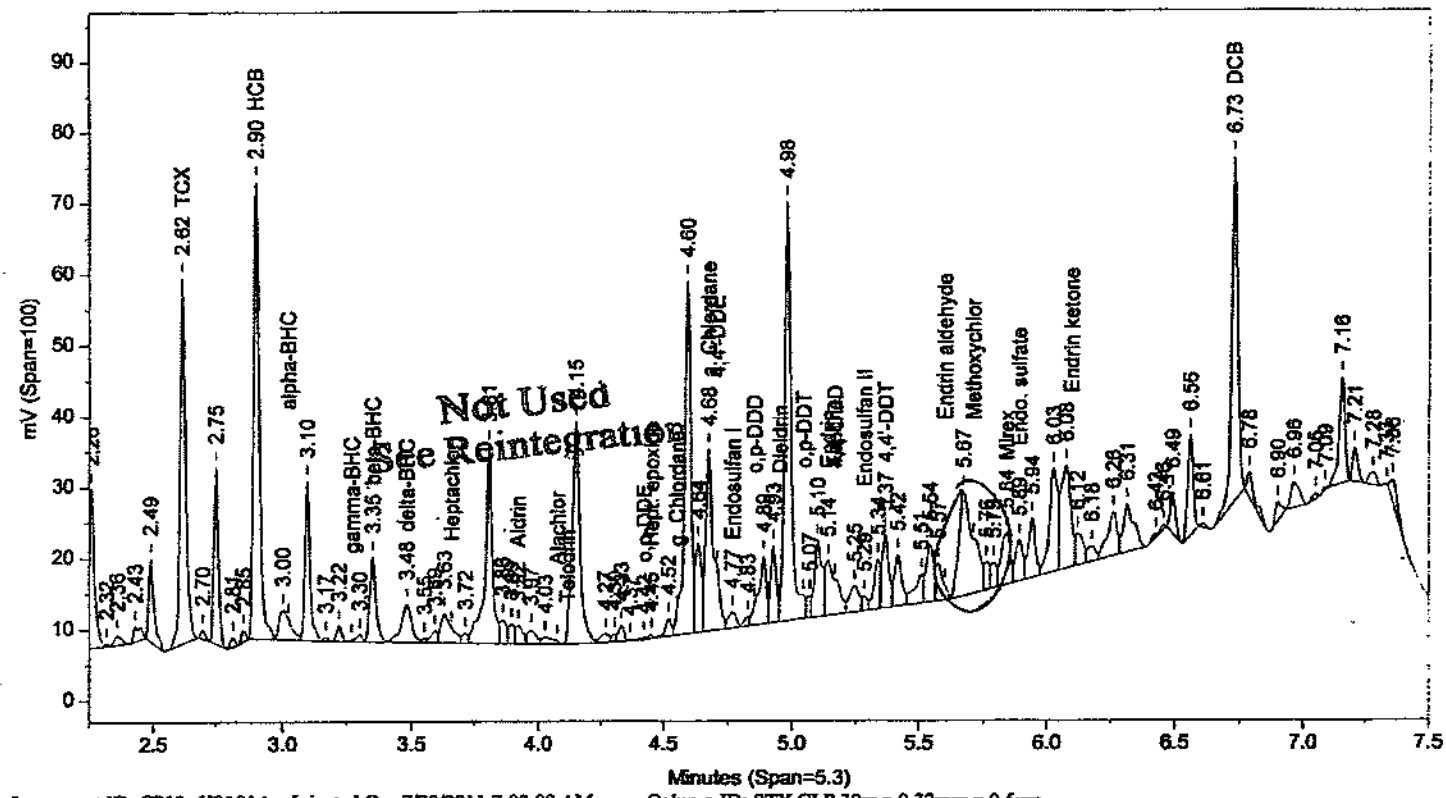
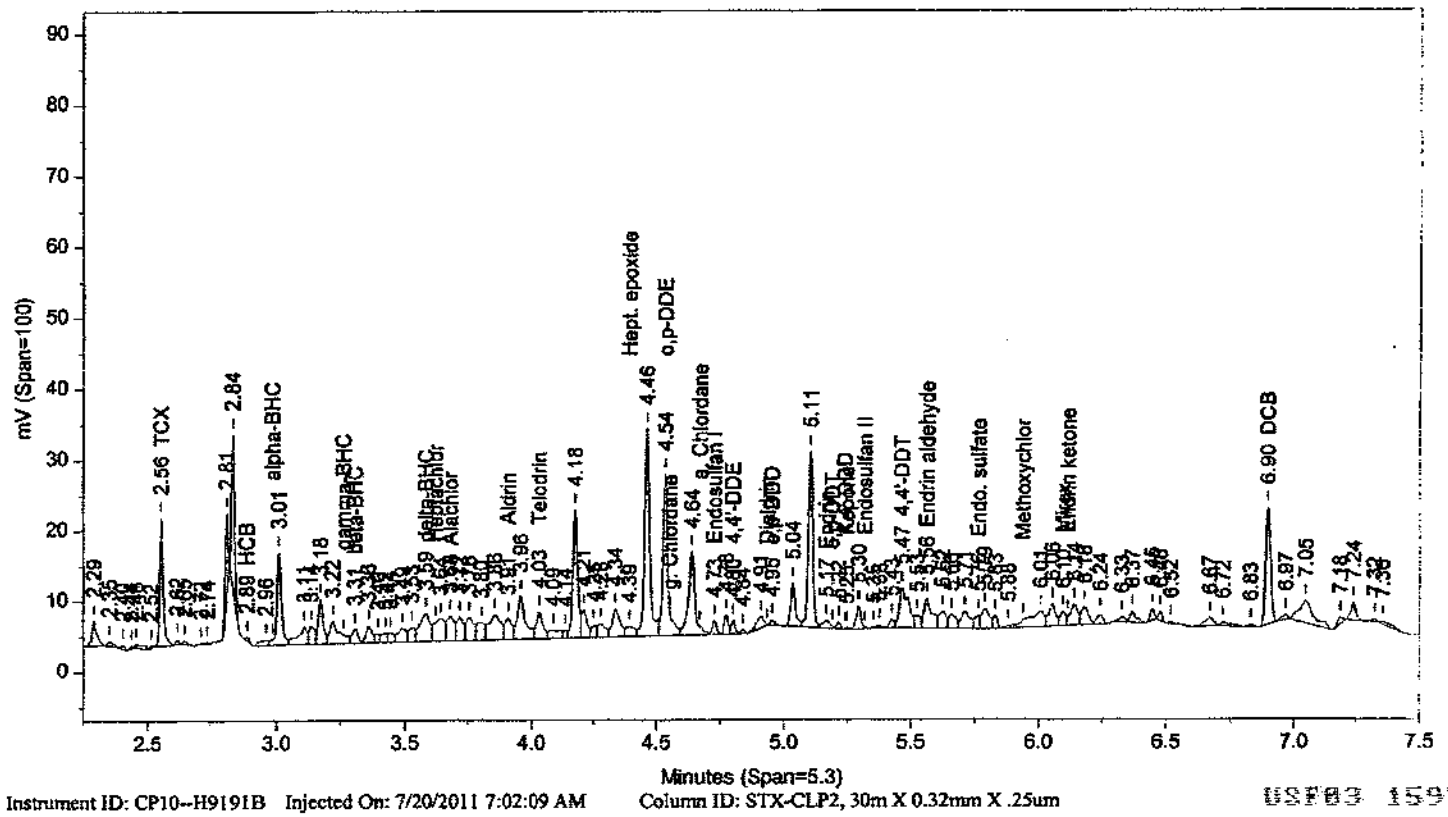


Instrument ID: CP10--H9191A Injected On: 7/20/2011 7:02:09 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.75R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 7:02:09 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF03 1597

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.5 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	51370	.532	TCX	2.557	18203	.522	TCX
2.899	64418	.607	HCB	2.891	487	.01	HCB
3.349	11894	.217	beta-BHC	3.308	2018	.07	beta-BHC
3.482	5377	.049	delta-BHC	3.585	3954	.06	delta-BHC
.	0	.	Alachlor	3.683	3439	.	Alachlor
3.92	2544	.025	Aldrin	3.908	2991	.059	Aldrin
.	0	.	Telodrin	4.033	3812	.099	Telodrin
4.453	497	.005	Hept. epoxide	4.395	1421	.033	Hept. epoxide
4.424	273	.005	o,p-DDE	4.538	22954	.774	o,p-DDE
4.677	25536	.272	a. Chlordane	.	0	.	a. Chlordane
4.77	2156	.025	Endosulfan I	4.73	1917	.045	Endosulfan I
.	0	.	4,4'-DDE	4.801	1882	.043	4,4'-DDE
.	0	.	o,p-DDD	4.954	779	.03	o,p-DDD
5.143	7662	.098	Endrin	5.167	1076	.028	Endrin
.	0	.	Kepone	5.248	253	.023	Kepone
5.286	2063	.036	Endosulfan II	.	0	.	Endosulfan II
5.369	10236	.161	4,4'-DDT	5.467	5709	.206	4,4'-DDT
.	0	.	Endrin aldehyde	5.564	4193	.158	Endrin aldehyde
5.891	5710	.092	Endo. sulfate	5.764	1898	.073	Endo. sulfate
5.84	7288	.134	Mirex	6.098	2026	.11	Mirex
6.727	48596	.836	DCB	6.895	16669	1.111	DCB

Files:
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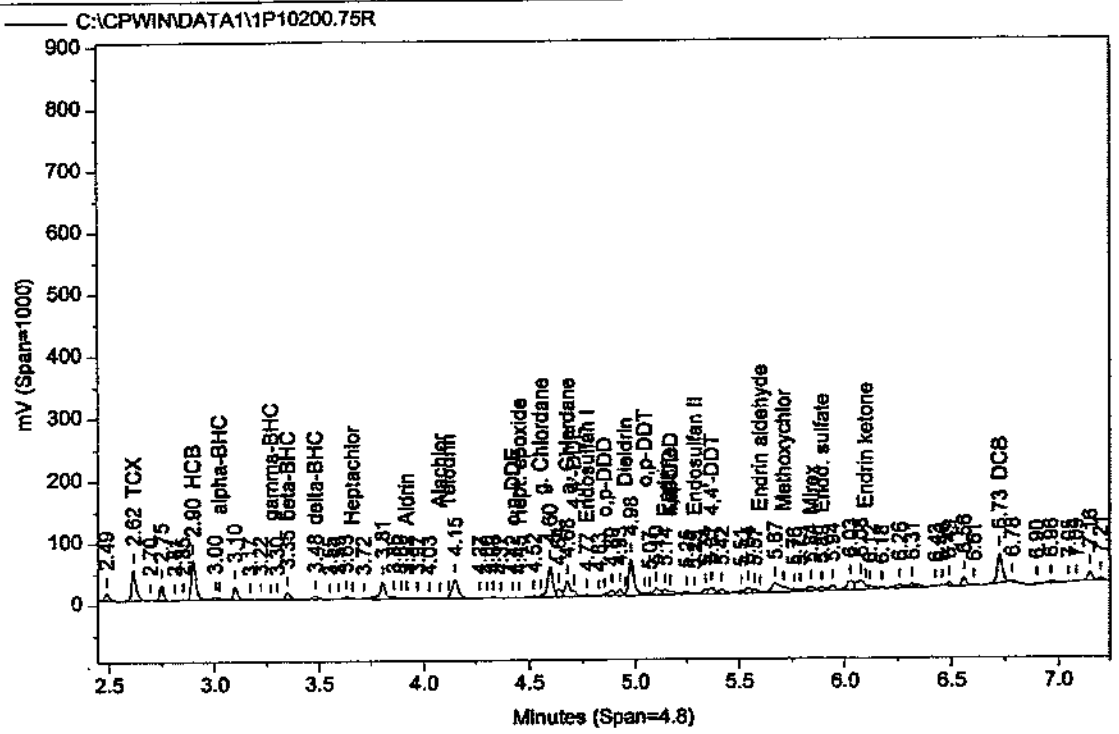
Area File: C:\CPWIN\DATA1\1P10200B.75A
Method A: C:\CPWIN\DATA1\PESTDB.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 7:09:46 AM
File Reported On: 7/20/2011 at 7:09:57 AM

Not Used
See Reintegration

10X REPLOTS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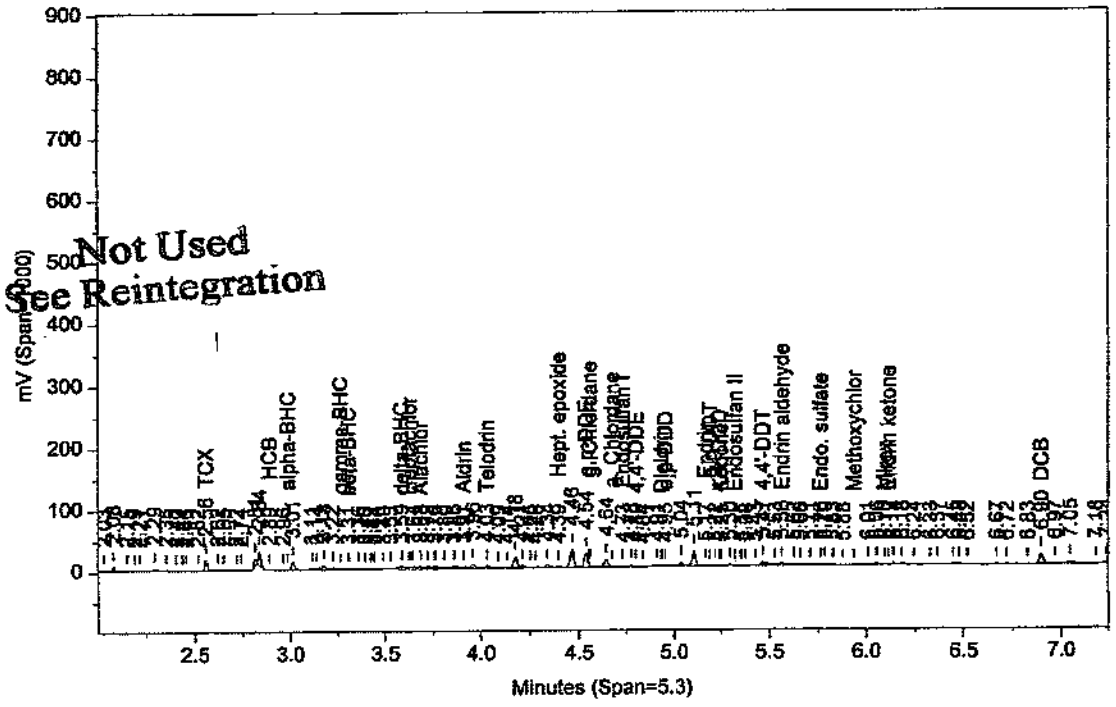
mV (Span=1000)
Minutes (Span=4.8)
TCX
HCB
alpha-BHC
gamma-BHC
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide
g. Chlordane
a. Chlordane
Endosulfan I
o,p-DDD
Dieldrin
o,p-DDT
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endo. sulfate
Endrin ketone
DCB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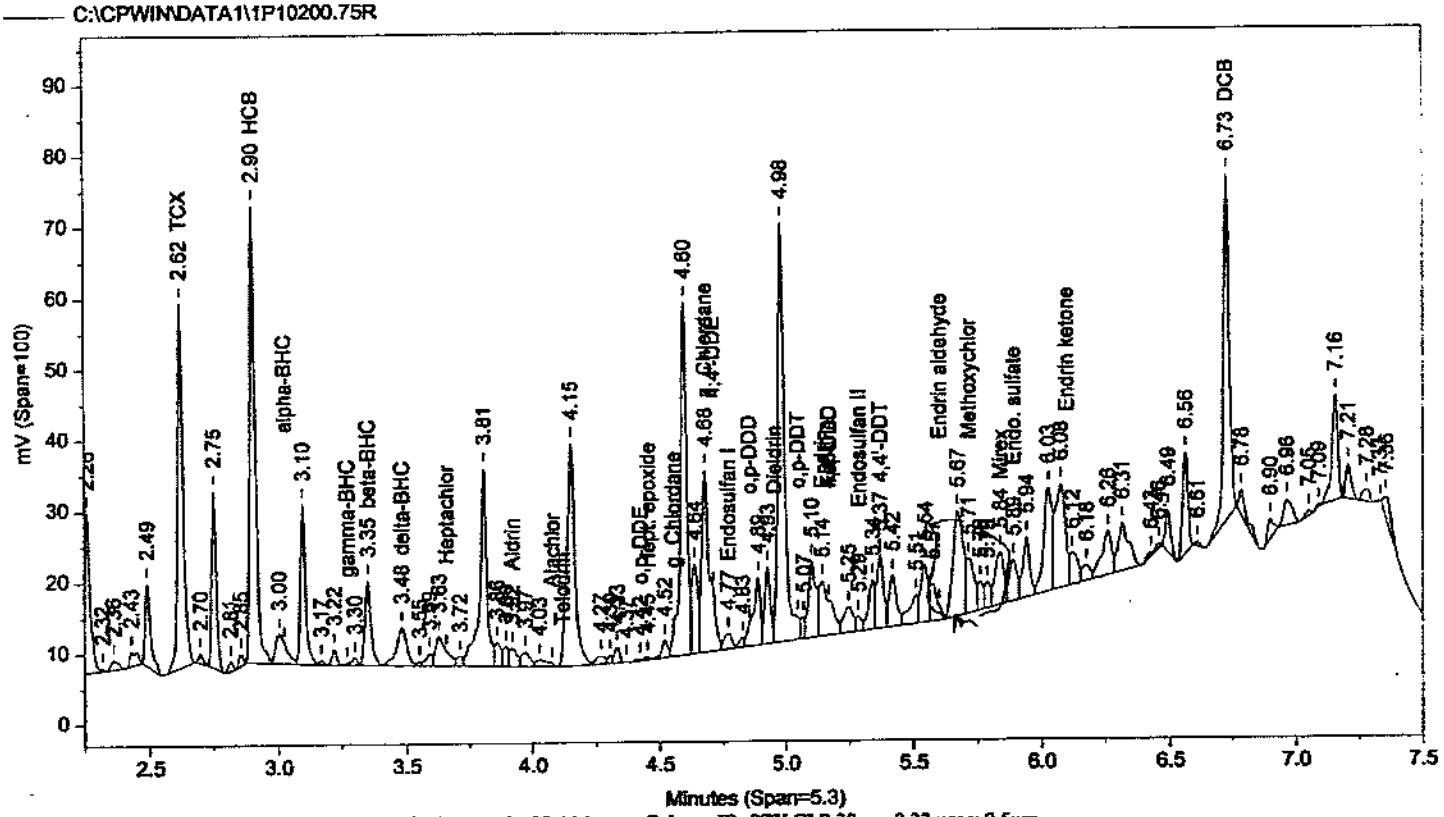
mV (Span=1000)
Minutes (Span=5.3)
Not Used
See Reintegration
TCX
HCB
alpha-BHC
Aldrin
Telodrin
Hept. epoxide
4,4'-DDE
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
Endrin ketone
DCB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.75R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 7:02:09 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.75R

M = Manually Integrated

Analyst

Approved by

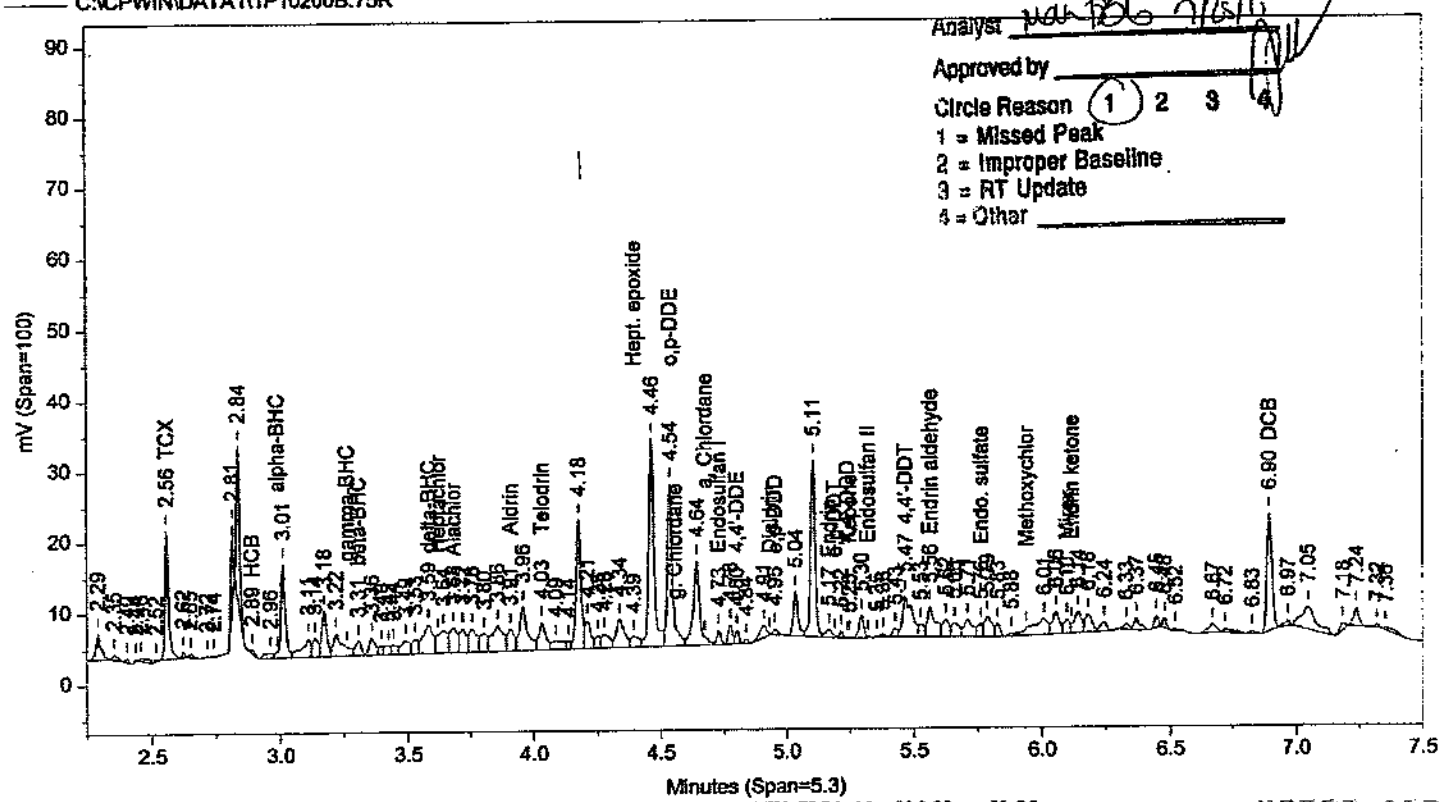
Circle Reason 1 2 3 4

1 = Missed Peak

2 = Improper Baseline

3 = RT Update

4 = Other



Instrument ID: CP10--H9191B Injected On: 7/20/2011 7:02:09 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

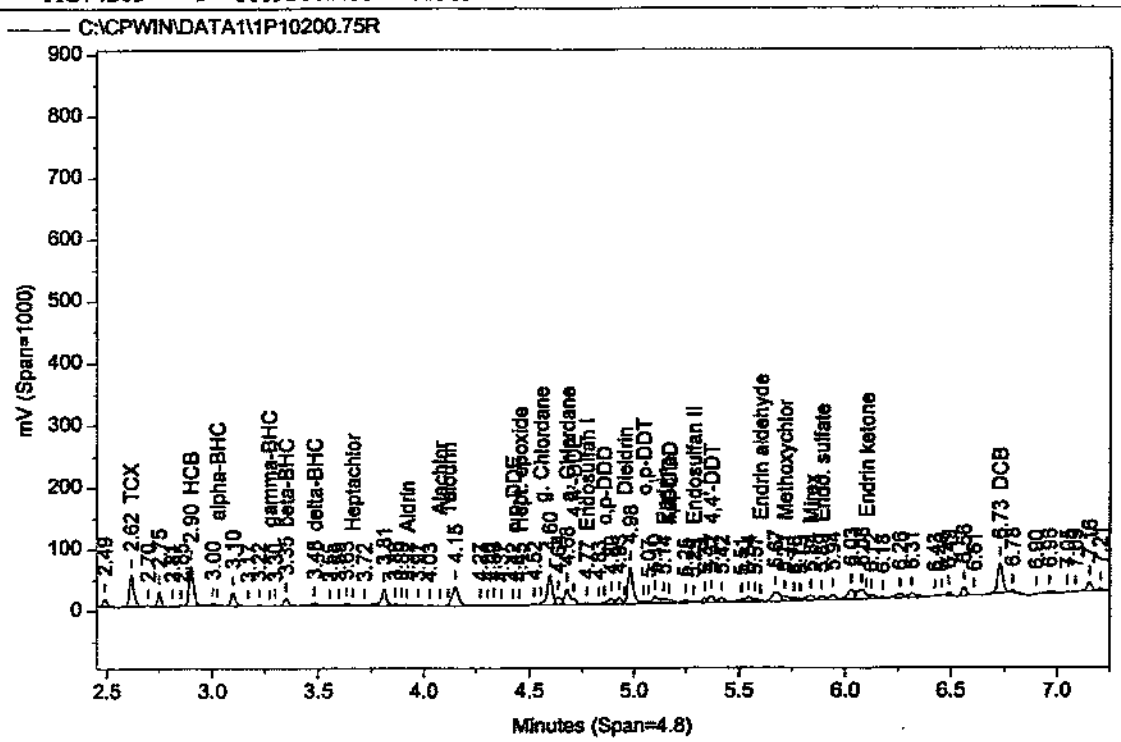
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

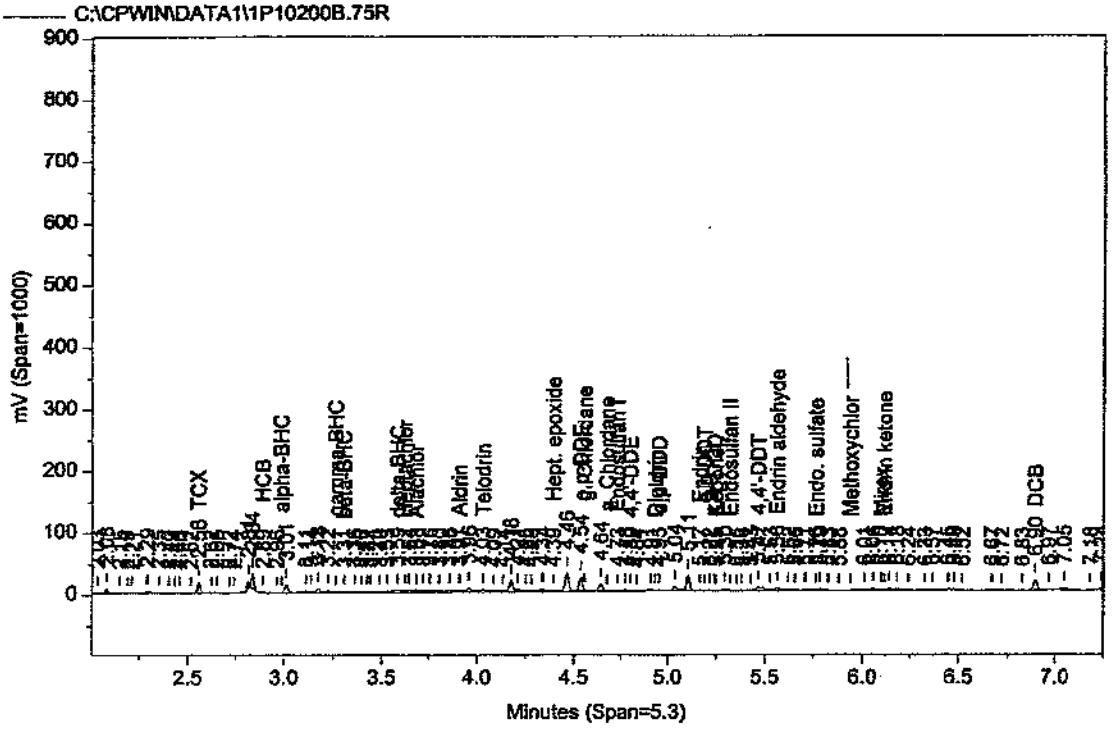
Sample Weight: 60.5 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	51370	.532	TCX	2.557	18203	.522	TCX
2.899	64418	.607	HCB	2.891	487	.01	HCB
3.349	11894	.217	beta-BHC	3.308	2018	.07	beta-BHC
3.482	5377	.049	delta-BHC	3.585	3954	.06	delta-BHC
.	0	.	Alachlor	3.683	3439	.	Alachlor
3.92	2544	.025	Aldrin	3.908	2991	.059	Aldrin
.	0	.	Telodrin	4.033	3812	.099	Telodrin
4.453	497	.005	Hept. epoxide	4.395	1421	.033	Hept. epoxide
4.424	273	.005	o,p-DDE	4.538	22954	.774	o,p-DDE
4.677	25536	.272	a. Chlordane	.	0	.	a. Chlordane
4.77	2156	.025	Endosulfan I	4.73	1917	.045	Endosulfan I
.	0	.	4,4'-DDE	4.801	1882	.043	4,4'-DDE
.	0	.	o,p-DDD	4.954	779	.03	o,p-DDD
5.143	7662	.098	Endrin	5.167	1076	.028	Endrin
.	0	.	Kepone	5.248	253	.023	Kepone
5.286	2063	.036	Endosulfan II	.	0	.	Endosulfan II
5.369	10236	.161	4,4'-DDT	5.467	5709	.206	4,4'-DDT
.	0	.	Endrin aldehyde	5.564	4193	.158	Endrin aldehyde
5.715	7569	.241	Methoxychlor	.	0	.	Methoxychlor
5.891	5710	.092	Endo. sulfate	5.764	1898	.073	Endo. sulfate
5.84	7288	.134	Mirex	6.098	2026	.11	Mirex
6.727	48596	.836	DCB	6.895	16669	1.111	DCB

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/25/2011 3:07:08 PM
File Reported On: 7/25/2011 at 3:07:08 PM

10X REPLOTS


C:\CPWIN\DATA1\1P10200.75R
mV (Span=1000)
Minutes (Span=4.8)
TCX
HCB
alpha-BHC
gamma-BHC
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide
g. Chlordane
a. Chlordane
Endosulfan I
o,p-DDD
Dieldrin
o,p-DDT
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endo. sulfate
Endrin ketone
DCB


C:\CPWIN\DATA1\1P10200B.75R
mV (Span=1000)
Minutes (Span=5.3)
TCX
HCB
alpha-BHC
Aldrin
Telodrin
Hept. epoxide
4,4'-DDE
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
DCB

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339377 FG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:17:36
Instrument : CP10--H9191A
Result file : 1P10200.76R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 52.5% (28-121) Conc.: 0.545339
%SSR(DCB) : 92.3% (45-150) Conc.: 0.959293

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	52392	0.545339
HCB	2.88	2.90	2.92	2734	0.025910
alpha-BHC	3.00	3.00	3.04	593	0.004631
gamma-BHC	3.25	3.27	3.29	1340	0.011682
beta-BHC	3.31	3.35	3.35	8268	0.151537
delta-BHC	3.46	3.48	3.50	3091	0.028397
Aldrin	3.91	3.92	3.95	3183	0.031290
o,p-DDE	4.42	4.43	4.46	1155	0.020609
a. Chlordane	4.64	4.64	4.68	21434	0.229649
4,4'-DDE	4.69	4.71	4.73	17733	0.203060
Endosulfan I	4.75	4.76	4.79	1914	0.022045
o,p-DDD	4.83	4.84	4.87	2250	0.046276
o,p-DDT	5.03	5.04	5.07	4428	0.084256
Endrin	5.11	5.15	5.15	8341	0.107026
Endosulfan II	5.28	5.29	5.32	4748	0.083188
4,4'-DDT	5.35	5.37	5.39	8862	0.140152
Methoxychlor	5.69	5.73	5.73	1411	0.045181
Mirex	5.82	5.83	5.86	4218	0.078132
Endo. sulfate	5.88	5.90	5.92	2842	0.045914
Endrin ketone	6.08	6.08	6.12	4453	0.054222
DCB	6.71	6.73	6.75	55469	0.959293

Analysis Report (B)

Injected on : JUL 20, 2011 07:17:36
Instrument : CP10--H9191B
Result file : 1P10200B.76R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 56.1% (28-121) Conc.: 0.581973
%SSR(DCB) : 103.5% (45-150) Conc.: 1.075173

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	20191	0.581973
HCB	2.87	2.89	2.91	779	0.016478
alpha-BHC	2.97	3.00	3.01	1085	0.014772
gamma-BHC	3.24	3.27	3.28	1377	0.020065
beta-BHC	3.30	3.31	3.34	2052	0.071849
delta-BHC	3.55	3.56	3.59	1692	0.025957
Heptachlor	3.60	3.64	3.64	1801	0.032502
Alachlor	3.66	3.69	3.70	2026 E	0.000000
Telodrin	4.03	4.04	4.07	1689	0.044260
Hept. epoxide	4.38	4.40	4.42	1938	0.045255
o,p-DDE	4.54	4.54	4.58	19788	0.670948
a. Chlordane	4.65	4.67	4.69	1517	0.032206
Endosulfan I	4.70	4.72	4.74	324	0.007674
4,4'-DDE	4.78	4.80	4.82	5774	0.132526
Dieldrin	4.91	4.93	4.95	527	0.011115
o,p-DDD	4.94	4.97	4.98	1136	0.044398
Endrin	5.14	5.17	5.18	1501	0.038915
Endosulfan II	5.30	5.31	5.34	638	0.018964
4,4'-DDT	5.44	5.46	5.48	3315	0.120048
Endrin aldehyde	5.54	5.56	5.58	5185	0.196533
Mirex	6.07	6.10	6.11	1770	0.096685
DCB	6.88	6.90	6.91	16057	1.075173

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference		Comments
☐ TCX	B	0.581973				6.50		
☐ HCB			<0.1654	<0.0419				
☑ alpha-BHC			<0.1654	<0.0339				
☑ gamma-BHC			<0.1654	<0.0339				
☑ beta-BHC	B	0.071849	<0.1654	0.0598	J	71.35	**	
☑ delta-BHC			<0.1654	<0.0359				
☑ Heptachlor			<0.1654	<0.0598				
☑ Aldrin			<0.1654	<0.0658				
☐ Alachlor								
☐ Telodrin			<0.2392	<0.0797				
☐ o,p-DDE			<0.3389	<0.0658				
☑ Hept. epoxide			<0.1654	<0.0339				
☐ g. Chlordane			<0.1654	<0.0498				
☐ a. Chlordane			<0.1654	<0.0458				
☑ 4,4'-DDE	B	0.132526	<0.3389	0.0658	J	42.04	**	
☑ Endosulfan I			<0.1654	<0.0439				
☐ o,p-DDD			<0.3389	<0.0658				
☑ Dieldrin			<0.3389	<0.0658				
☐ o,p-DDT			<0.3389	<0.0658				

USF03 1683

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:20:41

Lancaster Laboratories Single Component Data Summary

Sample Name: **6339377** FG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on	: JUL 20, 2011 07:17:36
Instrument	: CP10--H9191A
Result file	: 1P10200.76R
Calibration file	: 1P10200.CAL
Method file	: PESTD.MET

Analysis Report (B)

Injected on	: JUL 20, 2011 07:17:36
Instrument	: CP10--H9191B
Result file	: 1P10200B.76R
Calibration file	: 1P10200B.CAL
Method file	: PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Endrin			<0.3389	<0.0658			
☐ Kepone			<1.3954	<0.4585			
☑ 4,4'-DDD			<0.3389	<0.0658			
☑ Endosulfan II			<0.3389	<0.0658			
☑ 4,4'-DDT	A	0.140152	<0.3389	0.0658	J	15.45	B 12 ppb LCV R
☑ Endrin aldehyde			<0.3389	<0.0658			
☑ Methoxychlor			<1.6545	<0.3389			
☑ Mirex	B	0.096685	<0.3389	0.0658	J	21.23	
☑ Endo. sulfate			<0.3389	<0.0658			
☑ Endrin ketone			<0.3389	<0.0658			
☐ DCB	B	1.075173				11.39	

Units: ug/kg

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 25 2011 Date:

Melissa A. McDermott
Senior Chemist

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:20:41

Multiple Component Data Summary

Sample Name: 6339377 FG 82S05 Sample ID: AC **Batchnumber:** 111930027A
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on	Jul 20, 2011 07:17:36
Instrument	H9191A
Result file	1P10200.76R
Calibration file	1P10200
Method file	PESTD

%SSR(TCX)	52.5%	Conc:	0.54533
%SSR(DCB)	92.3%	Conc:	0.95929

Analysis Report (B)

Injected on	Jul 20, 2011 07:17:36
Instrument	H9191B
Result file	1P10200B.76R
Calibration file	1P10200B
Method file	PESTDB

%SSR(TCX)	56.1%	Conc:	0.58197
%SSR(DCB)	103.5%	Conc:	1.07517

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)			<3.3887	<0.7973			4	40	
Toxaphene			<6.5781	<2.1927			4	40	

Units: ug/kg

%Difference = High - Low divided by the Average times 100

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 26 2011 Date:

Melissa A. McDermott
Senior Chemist

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: 6339377 FG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:17:36
Instrument : CP10-H9191A
Result file : 1P10200.76R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 52.5% (28-121) Conc.: 0.545339
%SSR(DCB) : 92.3% (45-150) Conc.: 0.959293

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	93.40	
2.84	2.86	2.90	224.068893	0.165914			1
3.10	3.13	3.16	713.461365	0.264994			2
+ 3.26	3.27	3.32	1340.086548	0.867689			3
3.26	3.30	3.32	2111.275391	1.367025			3
+ 3.46	3.47	3.52	2909.39624	0.621923			4
3.46	3.48	3.52	3090.763428	0.660692			4
3.57	3.58	3.63	1499.955322	0.643622			5
3.62	3.63	3.68	4431.301758	2.480632			6
Height Summation:			12070.626157				
Amount Avg CF:			0.93048	Linear:			
Aroclor-1221					3	171.85	
E 2.70	2.75	2.76	70745.09375	80.216222			1
2.81	2.82	2.87	654.858154	0.313082			2
+* 2.81	2.86	2.87	224.068893	0.107125			2
* 2.84	2.86	2.90	224.068893	0.107125			3
Height Summation:			71624.020797				
Amount Avg CF:			26.87881	Linear:			
Aroclor-1232					6	85.73	
2.84	2.86	2.90	224.068893	0.133863			1
3.10	3.13	3.16	713.461365	0.563319			2
+ 3.26	3.27	3.32	1340.086548	1.90241			3
3.26	3.30	3.32	2111.275391	2.997203			3
+ 3.46	3.47	3.52	2909.39624	1.352754			4
3.46	3.48	3.52	3090.763428	1.437083			4
+ 3.57	3.58	3.63	1499.955322	1.371094			5
* 3.63	3.63	3.68	4431.301758	5.463697			6
* 3.57	3.63	3.63	4431.301758	4.050607			5
Height Summation:			15002.172593				
Amount Avg CF:			2.440962	Linear:			
Aroclor-1242					6	83.51	
2.84	2.86	2.90	224.068893	0.233634			1
3.10	3.13	3.16	713.461365	0.366977			2
+ 3.26	3.27	3.32	1340.086548	1.188736			3
3.26	3.30	3.32	2111.275391	1.872827			3
+ 3.46	3.47	3.52	2909.39624	0.823705			4
3.46	3.48	3.52	3090.763428	0.875054			4
+ 3.57	3.58	3.63	1499.955322	0.92492			5
* 3.62	3.63	3.68	4431.301758	3.506266			6
* 3.57	3.63	3.63	4431.301758	2.732482			5
Height Summation:			15002.172593				
Amount Avg CF:			1.597873	Linear:			
Aroclor-1248					4	66.47	
3.72	3.76	3.78	3447.364746	1.396414			1
3.99	4.04	4.05	1371.81311	0.738448			3
4.98	5.04	5.04	4428.261719	3.946307			5
+ 5.19	5.19	5.25	3547.474121	3.553902			6
5.19	5.25	5.25	3781.581787	3.788434			6
Height Summation:			13029.021362				
Amount Avg CF:			2.467401	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 07:17:36
Instrument : CP10-H9191B
Result file : 1P10200B.76R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 56.1% (28-121) Conc.: 0.581973
%SSR(DCB) : 103.5% (45-150) Conc.: 1.075173

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	55.90	
+ 2.86	2.87	2.91	227.622742	0.362914			1
2.86	2.89	2.91	778.799927	1.241692			1
3.15	3.17	3.21	4087.415039	3.789438			2
3.34	3.36	3.40	2119.152832	3.373443			3
+ 3.34	3.39	3.40	1700.447144	2.706912			3
3.50	3.53	3.56	2088.265381	0.94623			4
3.61	3.64	3.67	1800.512329	1.545577			5
3.70	3.72	3.76	1459.806885	1.767763			6
Height Summation:			12333.952393				
Amount Avg CF:			2.110691	Linear:			
Aroclor-1221					3	171.65	
2.72	2.74	2.78	154.698425	0.458575			1
E 2.81	2.81	2.87	53166.60937!	242.461566			2
+* 2.81	2.87	2.87	227.622742	1.038053			2
+* 2.86	2.87	2.92	227.622742	0.293878			3
2.86	2.89	2.92	778.799927	1.005489			3
Height Summation:			54100.107727				
Amount Avg CF:			81.308543	Linear:			
Aroclor-1232					6	63.78	
+ 2.86	2.87	2.92	227.622742	0.299494			1
2.86	2.89	2.92	778.799927	1.024703			1
3.15	3.17	3.21	4087.415039	8.174237			2
3.34	3.36	3.40	2119.152832	7.250643			3
+ 3.34	3.39	3.40	1700.447144	5.818049			3
3.50	3.53	3.56	2088.265381	2.173313			4
+ 3.50	3.56	3.56	1692.052002	1.760963			4
3.61	3.64	3.67	1800.512329	3.395356			5
+ 3.70	3.72	3.76	1459.806885	3.821041			6
3.70	3.76	3.76	3112.809082	8.147771			6
Height Summation:			13986.954590				
Amount Avg CF:			5.027671	Linear:			
Aroclor-1242					6	55.58	
+ 2.86	2.87	2.92	227.622742	0.522975			1
2.86	2.89	2.92	778.799927	1.789333			1
3.15	3.17	3.21	4087.415039	5.320059			2
3.34	3.36	3.40	2119.152832	4.603809			3
+ 3.34	3.39	3.40	1700.447144	3.694181			3
3.50	3.53	3.56	2088.265381	1.263536			4
+ 3.50	3.56	3.56	1692.052002	1.023801			4
3.61	3.64	3.67	1800.512329	2.164562			5
3.70	3.72	3.76	1459.806885	2.503798			6
Height Summation:			12333.952393				
Amount Avg CF:			2.94085	Linear:			
Aroclor-1248					4	172.32	
4.01	4.04	4.07	1688.745605	1.246697			2
4.88	4.90	4.94	927.725403	1.156852			4
+ 4.88	4.93	4.94	526.906555	0.65704			4
E 5.05	5.10	5.11	24376.8125	43.770348			5
+ 5.31	5.31	5.37	637.58313	1.250607			6
5.31	5.36	5.37	1369.428711	2.686109			6
Height Summation:			28362.712219				
Amount Avg CF:			12.215002	Linear:			

USF03 1685

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:20:55

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339377 FG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:17:36
Instrument : CP10-H9191A
Result file : 1P10200.76R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					5	81.68	
4.45	4.49	4.51	1830.931885	0.476539			1
4.68	4.71	4.74	17732.85742	6.201384			2
4.98	5.04	5.04	4428.261719	1.365215			4
5.12	5.15	5.18	8340.581055	3.1761			5
+ 5.33	5.33	5.39	5929.46582	1.513881			6
5.33	5.37	5.39	8862.271484	2.26267			6
Height Summation:			**41194.903565**				
Amount Avg CF:			**2.696382**	Linear:			
Aroclor-1260					5	39.99	
4.91	4.93	4.97	9556.099609	2.543744			1
5.12	5.15	5.18	8340.581055	1.732173			2
+ 5.33	5.33	5.39	5929.46582	1.338353			3
5.33	5.37	5.39	8862.271484	2.000324			3
5.79	5.80	5.85	5318.344727	0.762806			5
+ 5.79	5.83	5.85	4217.806152	0.597026			5
5.99	6.02	6.05	9535.182617	2.72256			6
Height Summation:			**41612.479492**				
Amount Avg CF:			**1.950321**	Linear:			
Chlordane					6	66.33	
3.56	3.58	3.63	1499.955322	0.430309			1
3.63	3.63	3.70	4431.301758	1.041895			2
4.01	4.04	4.08	1371.81311	0.41727			3
4.52	4.52	4.59	4288.349121	0.43027			4
4.62	4.64	4.69	21434.12109	1.886725			5
5.22	5.25	5.29	3781.581787	1.436157			6
Height Summation:			**36807.122192**				
Amount Avg CF:			**0.940438**	Linear:			
Toxaphene					5	37.29	
+ 5.31	5.33	6.38	5929.46582	3.153647			1
* 5.35	5.37	5.42	8862.271484	4.796605			2
* 5.31	5.37	5.38	8862.271484	4.713489			1
+ 5.74	5.76	5.81	2834.442139	1.558573			4
5.74	5.80	5.81	5318.344727	2.924395			4
5.80	5.83	5.87	4217.806152	1.730715			5
6.05	6.08	6.12	4453.196777	3.195028			6
Height Summation:			**31713.890624**				
Amount Avg CF:			**3.472046**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 07:17:36
Instrument : CP10-H9191B
Result file : 1P10200B.76R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	104.97	
4.52	4.54	4.58	19787.64062	11.90246			1
4.79	4.80	4.85	5773.907715	4.553149			2
+ 4.79	4.84	4.85	330.632446	0.260728			2
4.88	4.90	4.94	927.725403	0.411238			3
+ 4.88	4.93	4.94	526.906555	0.233565			3
5.05	5.10	5.11	24376.8125	15.491428			4
+ 5.30	5.31	5.36	637.58313	0.587317			5
5.30	5.36	5.36	1369.428711	1.261464			5
5.44	5.46	5.50	3314.924316	2.133979			6
Height Summation:			**55550.439270**				
Amount Avg CF:			**5.958953**	Linear:			
Aroclor-1260					6	69.33	
5.03	5.04	5.09	5063.185547	2.889002			1
5.18	5.22	5.24	1282.450195	0.643284			2
5.44	5.46	5.50	3314.924316	2.076756			3
5.71	5.71	5.77	3328.789551	2.656682			4
5.87	5.92	5.93	1244.216431	0.477694			5
6.12	6.14	6.18	976.390381	0.711092			6
Height Summation:			**15209.956421**				
Amount Avg CF:			**1.575752**	Linear:			
Chlordane					6	83.31	
+ 3.47	3.48	3.54	1171.45105	0.598661			1
3.47	3.53	3.54	2088.265381	1.067193			1
3.59	3.64	3.66	1800.512329	0.778388			2
+ 4.00	4.01	4.07	1372.655884	0.923943			3
4.00	4.04	4.07	1688.745605	1.136705			3
4.52	4.54	4.59	19787.64062	3.785121			4
4.60	4.63	4.67	6446.662598	1.662275			5
4.64	4.67	4.71	1516.639282	0.342655			6
Height Summation:			**33328.465820**				
Amount Avg CF:			**1.462056**	Linear:			
Toxaphene					6	167.11	
5.09	5.10	5.16	24376.8125	41.538356			1
+ 5.34	5.36	5.41	1369.428711	1.125343			2
5.34	5.37	5.41	1470.602539	1.208483			2
5.53	5.56	5.60	5165.214844	4.222756			3
5.71	5.71	5.78	3328.789551	5.786046			4
5.88	5.92	5.95	1244.216431	1.50692			5
5.92	5.97	5.99	2400.468018	2.501349			6
Height Summation:			**38006.103883**				
Amount Avg CF:			**9.460652**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		** 77.62	4	40	
Aroclor-1221			0	0	E	** 100.62	3	5	
Aroclor-1232			0	0		** 69.27	4	10	
Aroclor-1242			0	0		** 59.18	4	30	
Aroclor-1248			0	0		** 132.78	4	30	
Aroclor-1254			0	0		** 75.39	4	40	
Aroclor-1260			0	0		21.25	4	40	
Chlordane			3.3887	0.7973		** 43.42	4	40	no match

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:20:55

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6339377** FG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on	: JUL 20, 2011 07:17:36
Instrument	: CP10--H9191A
Result file	: 1P10200.76R
Calibration file	: 1P10200.CAL
Method file	: PESTD.MET

Analysis Report (B)

Injected on	: JUL 20, 2011 07:17:36
Instrument	: CP10--H9191B
Result file	: 1P10200B.76R
Calibration file	: 1P10200B.CAL
Method file	: PESTDB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Toxaphene			6.5781	2.1927		**92.61	4	40	no match

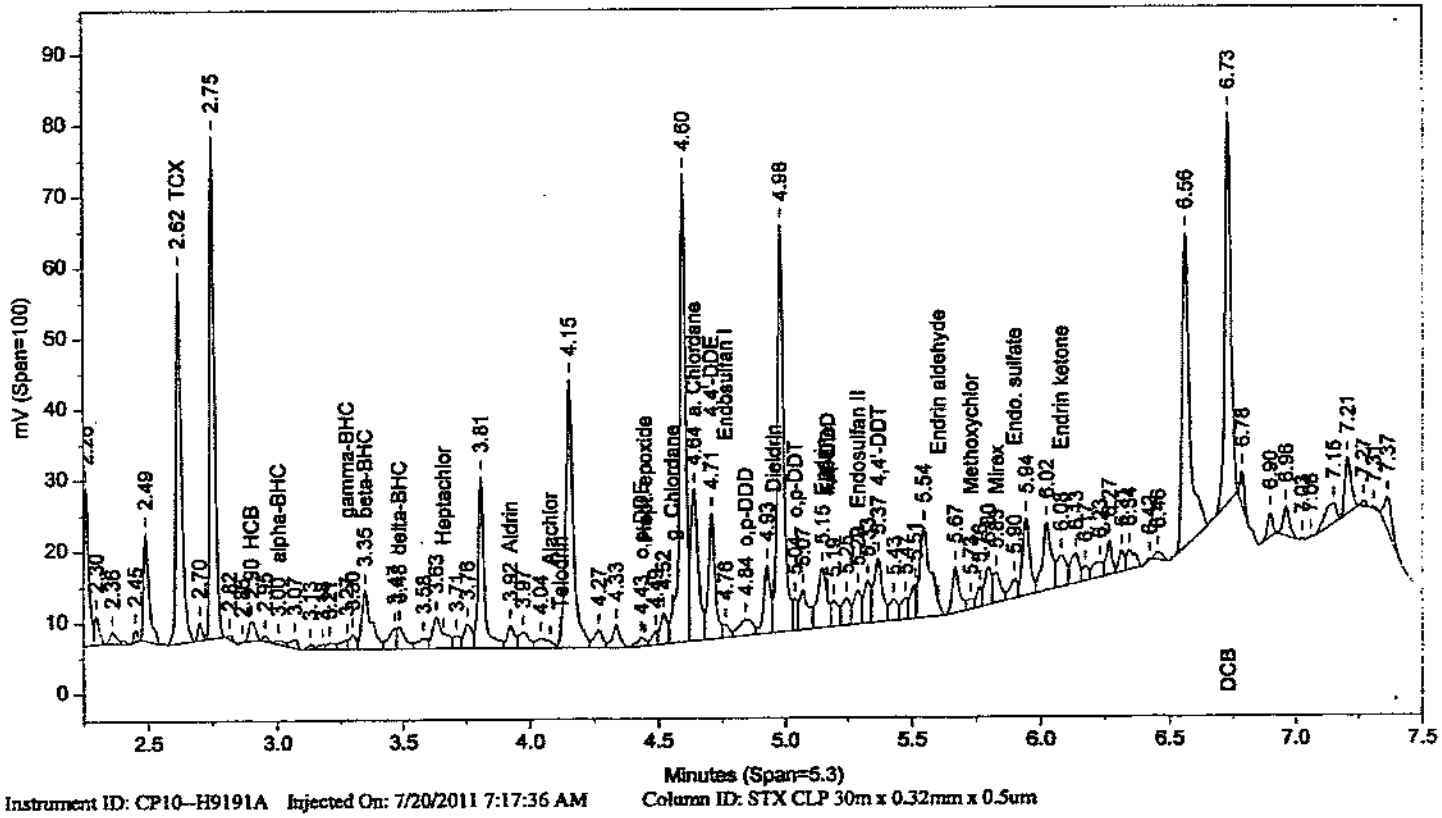
Units: ug/kg

USF03 1688

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:20:55

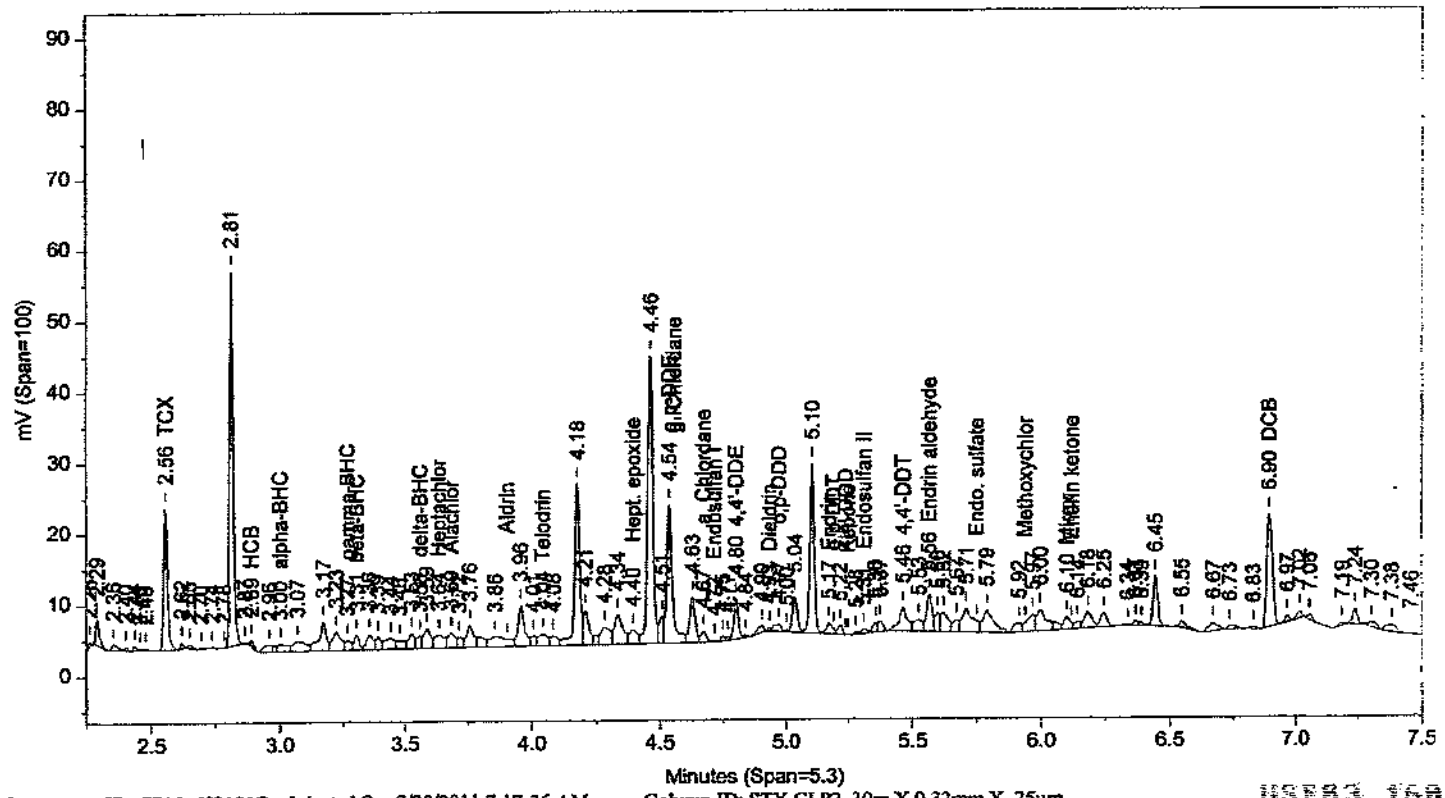
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.76R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 7:17:36 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.76R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 7:17:36 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

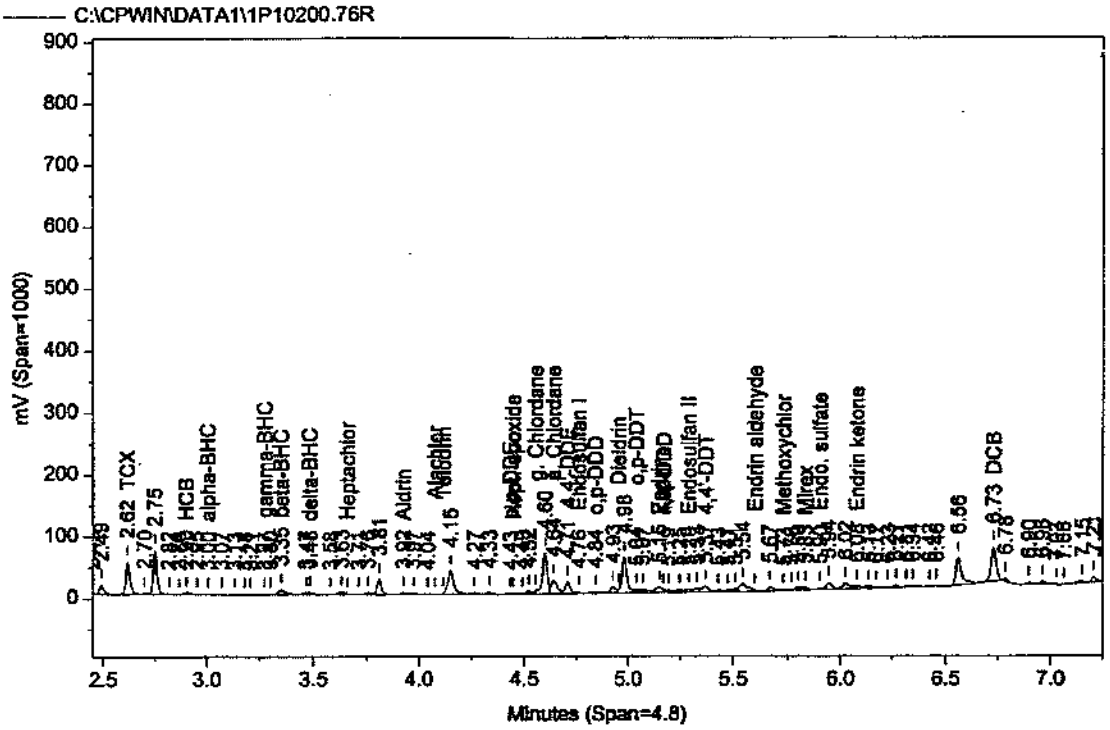
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

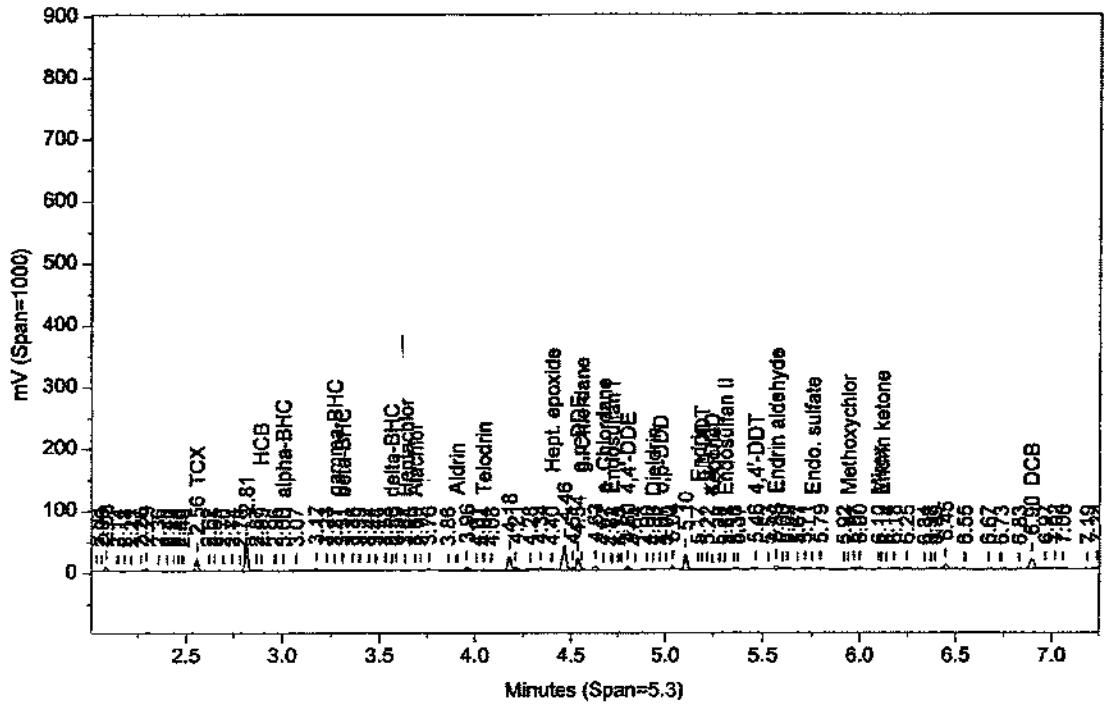
Sample Weight: 60.2 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	52392	.545	TCX	2.557	20191	.582	TCX
2.9	2734	.026	HCB	2.891	779	.016	HCB
3.004	593	.005	alpha-BHC	3.004	1085	.015	alpha-BHC
3.274	1340	.012	gamma-BHC	3.269	1377	.02	gamma-BHC
3.349	8268	.152	beta-BHC	3.308	2052	.072	beta-BHC
3.484	3091	.028	delta-BHC	3.562	1692	.026	delta-BHC
.	0	.	Heptachlor	3.636	1801	.033	Heptachlor
.	0	.	Alachlor	3.685	2026	.	Alachlor
3.924	3183	.031	Aldrin	.	0	.	Aldrin
.	0	.	Telodrin	4.044	1689	.044	Telodrin
.	0	.	Hept. epoxide	4.397	1938	.045	Hept. epoxide
4.434	1155	.021	o,p-DDE	4.538	19788	.671	o,p-DDE
4.639	21434	.23	a. Chlordane	4.672	1517	.032	a. Chlordane
4.708	17733	.203	4,4'-DDE	4.801	5774	.133	4,4'-DDE
4.762	1914	.022	Endosulfan I	4.716	324	.008	Endosulfan I
4.843	2250	.046	o,p-DDD	4.972	1136	.044	o,p-DDD
.	0	.	Dieldrin	4.934	527	.011	Dieldrin
5.039	4428	.084	o,p-DDT	.	0	.	o,p-DDT
5.148	8341	.107	Endrin	5.172	1501	.039	Endrin
5.289	4748	.083	Endosulfan II	5.311	638	.019	Endosulfan II
5.369	8862	.14	4,4'-DDT	5.464	3315	.12	4,4'-DDT
.	0	.	Endrin aldehyde	5.564	5185	.197	Endrin aldehyde
5.728	1411	.045	Methoxychlor	.	0	.	Methoxychlor
5.829	4218	.078	Mirex	6.1	1770	.097	Mirex
5.9	2842	.046	Endo. sulfate	.	0	.	Endo. sulfate
6.078	4453	.054	Endrin ketone	.	0	.	Endrin ketone
6.728	55469	.959	DCB	6.895	16057	1.075	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.76A
Area File: C:\CPWIN\DATA1\1P10200B.76A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 7:25:14 AM
File Reported On: 7/20/2011 at 7:25:24 AM

10X REPLOTS


C:\CPWIN\DATA1\1P10200.76R
mV (Span=1000)
Minutes (Span=4.8)
TCX
HCB
alpha-BHC
gamma-BHC
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide
g. Chlordane
a. Chlordane
4,4'-DDE
o,p-DDD
Dieldrin
o,p-DDT
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Mirex
Endo. sulfate
Endrin ketone
DCB


C:\CPWIN\DATA1\1P10200B.76R
mV (Span=1000)
Minutes (Span=5.3)
TCX
HCB
alpha-BHC
Aldrin
Telodrin
Hept. epoxide
4,4'-DDE
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
DCB

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339384 FG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 08:12:22
Instrument : CP10--H9191A
Result file : 1P10200.79R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 43.3% (28-121) Conc.: 0.45106
%SSR(DCB) : 96.6% (45-150) Conc.: 1.007398

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	43190	0.451060
HCB	2.88	2.91	2.92	2022	0.019224
alpha-BHC	3.00	3.02	3.04	10563	0.082804
gamma-BHC	3.25	3.27	3.29	12550	0.109767
beta-BHC	3.31	3.33	3.35	7358	0.135302
delta-BHC	3.46	3.48	3.50	16068	0.148119
Heptachlor	3.64	3.66	3.68	11701	0.114615
Aldrin	3.91	3.92	3.95	10988	0.108369
Hept. epoxide	4.43	4.45	4.47	8788	0.093591
g. Chlordane	4.52	4.55	4.58	10961	0.112590
a. Chlordane	4.64	4.66	4.68	13447	0.144550
4,4'-DDE	4.69	4.71	4.73	24865	0.285677
Endosulfan I	4.75	4.77	4.79	8829	0.102053
Dieldrin	4.93	4.95	4.97	22973	0.243989
Endrin	5.11	5.13	5.15	23162	0.298202
4,4'-DDD	5.15	5.17	5.19	22059	0.312400
Endosulfan II	5.28	5.30	5.32	20802	0.365658
4,4'-DDT	5.35	5.37	5.39	20296	0.322047
Endrin aldehyde	5.58	5.60	5.62	13742	0.224055
Methoxychlor	5.69	5.71	5.73	41761	1.341539
Mirex	5.82	5.84	5.86	1536	0.028555
Endo. sulfate	5.88	5.90	5.92	20354	0.329880
Endrin ketone	6.08	6.10	6.12	25746	0.314522
DCB	6.71	6.73	6.75	58057	1.007398

Analysis Report (B)

Injected on : JUL 20, 2011 08:12:22
Instrument : CP10--H9191B
Result file : 1P10200B.79R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 45.7% (28-121) Conc.: 0.476476
%SSR(DCB) : 92.2% (45-150) Conc.: 0.961286

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	16476	0.476476
HCB	2.87	2.89	2.91	642	0.013621
alpha-BHC	2.97	2.99	3.01	6636	0.090661
gamma-BHC	3.24	3.26	3.28	7502	0.109696
beta-BHC	3.30	3.32	3.34	4219	0.148264
delta-BHC	3.55	3.57	3.59	9605	0.147831
Heptachlor	3.60	3.62	3.64	6082	0.110149
Aldrin	3.89	3.90	3.93	5466	0.108435
Hept. epoxide	4.38	4.40	4.42	8018	0.187848
o,p-DDE	4.54	4.56	4.58	8422	0.286534
a. Chlordane	4.65	4.67	4.69	4582	0.097621
Endosulfan I	4.70	4.72	4.74	3049	0.072384
4,4'-DDE	4.78	4.80	4.82	7399	0.170389
Dieldrin	4.91	4.93	4.95	10995	0.232717
Endrin	5.14	5.16	5.18	10143	0.263766
4,4'-DDD	5.22	5.24	5.26	6934	0.207042
Endosulfan II	5.30	5.32	5.34	7966	0.237728
4,4'-DDT	5.44	5.46	5.48	8327	0.302576
Endrin aldehyde	5.54	5.56	5.58	7909	0.300770
Endo. sulfate	5.73	5.75	5.77	8126	0.313106
Methoxychlor	5.92	5.94	5.96	14130	1.331241
Endrin ketone	6.10	6.12	6.14	8853	0.298374
DCB	6.88	6.90	6.91	14308	0.961286

Summary Report

Compound Name		Column	Amount Found		LOQ	MDL	Qualifiers	%Difference		Comments
TCX		B		0.476476				5.48		
HCB					<0.166	<0.042				
alpha-BHC		B		0.090661	<0.166	0.034	J	9.06		
gamma-BHC	B	A	.1096	~~0.109767~~	<0.166	0.034	J	0.06		A 00S
beta-BHC		B		0.148264	<0.166	0.06	J	9.14		
delta-BHC	B	A	.1478	~~0.148119~~	<0.166	0.036	J	0.19		
Heptachlor	B	A	.1101	~~0.114615~~	<0.166	0.06	J	3.97		
Aldrin		B		0.108435	<0.166	0.066	J	0.06		
Alachlor										
Telodrin					<0.24	<0.08				
o,p-DDE					<0.34	<0.066				
Hept. epoxide	B	A	.1879	~~0.093591~~	<0.166	0.034	J	66.98	**	
g. Chlordane					<0.166	<0.05				
a. Chlordane	B	A	.0976	~~0.144550~~	<0.166	0.046	J	38.76		
4,4'-DDE		B		0.170389	<0.34	0.066	J	50.56	**	
Endosulfan I	B	A	.0723	~~0.102053~~	<0.166	0.044	J	34.02		
o,p-DDD					<0.34	<0.066				

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:22:14

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339384 FG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)
Injected on : JUL 20, 2011 08:12:22
Instrument : CP10-H9191A
Result file : 1P10200.79R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)
Injected on : JUL 20, 2011 08:12:22
Instrument : CP10-H9191B
Result file : 1P10200B.79R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found		LOQ	MDL	Qualifiers	%Difference		Comments
☑ Dieldrin	B A	.337	0.243989	<0.34	0.066	J	4.73		A 005
☐ o,p-DDT				<0.34	<0.066				
☑ Endrin	B A	.2037	0.298202	<0.34	0.066	J	12.26		
☐ Kepone				<1.4	<0.46				
☑ 4,4'-DDD	B		0.207042	<0.34	0.066	J	40.57	**	A R
☑ Endosulfan II	B		0.237728	<0.34	0.066	J	42.40	**	
☑ 4,4'-DDT	B A	.3025	0.322647 .327	<0.34	0.066	J	6.23		
☑ Endrin aldehyde	B		0.300770	<0.34	0.066	J	29.23		
☑ Methoxychlor	B A	1.331	1.341539 1.34	<1.66	0.34	J	0.77		
☑ Mirex				<0.34	<0.066				
☑ Endo. sulfate	B A	.313	0.329880 .330	<0.34	0.066	J	5.22		
☑ Endrin ketone	B A	.298	0.314582 .315	<0.34	0.066	J	5.27		
☐ DCB	B A	.961	1.007398 1.				4.68		

Units: ug/kg

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 25 2011 Date: 7/26/11

Melissa A. McDermott
Senior Chemist

USF03 1613

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:22:14

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339384FG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 08:12:22
Instrument : CP10--H9191A
Result file : 1P10200.79R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 43.3% (28-121) Conc.: 0.45106
%SSR(DCB) : 96.6% (45-150) Conc.: 1.007398

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	78.63	
2.84	2.87	2.90	72.48423	0.053851			1
3.26	3.27	3.32	12549.54980	8.152764			3
3.46	3.48	3.52	16068.09472	3.446222			4
3.62	3.66	3.68	11700.65820	6.571834			6
Height Summation:			40390.786965				
Amount Avg CF:			4.556168	Linear:			
Aroclor-1221					2	141.18	
E 2.70	2.75	2.76	35764.76953	40.68802			1
2.84	2.87	2.90	72.48423	0.03477			3
Height Summation:			35837.253761				
Amount Avg CF:			20.361395	Linear:			
Aroclor-1232					4	79.26	
2.84	2.87	2.90	72.48423	0.043448			1
E 3.26	3.27	3.32	12549.54980	17.874942			3
3.46	3.48	3.52	16068.09472	7.495933			4
E 3.63	3.66	3.68	11700.65820	14.474743			6
Height Summation:			40390.786965				
Amount Avg CF:			9.972267	Linear:			
Aroclor-1242					4	79.36	
2.84	2.87	2.90	72.48423	0.07583			1
3.26	3.27	3.32	12549.54980	11.169303			3
3.46	3.48	3.52	16068.09472	4.564346			4
3.62	3.66	3.68	11700.65820	9.289001			6
Height Summation:			40390.786965				
Amount Avg CF:			6.27462	Linear:			
Aroclor-1248					2	24.13	
3.72	3.76	3.78	1647.900513	0.669735			1
3.82	3.86	3.88	1994.416382	0.945266			2
Height Summation:			3642.316895				
Amount Avg CF:			0.807501	Linear:			
Aroclor-1254					3	27.30	
4.68	4.71	4.74	24864.70507	8.724458			2
5.12	5.13	5.18	23161.84765	8.849452			5
+ 5.12	5.17	5.18	22058.60546	8.427936			5
5.33	5.37	5.39	20296.43554	5.199255			6
Height Summation:			68322.988281				
Amount Avg CF:			7.591055	Linear:			
Aroclor-1260					6	64.18	
4.91	4.95	4.97	22973.23828	6.135646			1
5.12	5.13	5.18	23161.84765	4.82629			2
+ 5.12	5.17	5.18	22058.60546	4.596405			2
5.33	5.37	5.39	20296.43554	4.596425			3
5.58	5.60	5.64	13741.68945	4.062404			4
+ 5.79	5.80	5.85	1533.009521	0.217719			5
5.79	5.84	5.85	1536.382324	0.218198			5
5.99	6.03	6.05	4674.522461	1.339155			6
Height Summation:			86384.115722				
Amount Avg CF:			3.529686	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 08:12:22
Instrument : CP10--H9191B
Result file : 1P10200B.79R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 45.7% (28-121) Conc.: 0.476476
%SSR(DCB) : 92.2% (45-150) Conc.: 0.961286

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					5	117.59	
2.86	2.89	2.91	641.671631	1.026469			1
3.15	3.18	3.21	1073.609497	0.99866			2
3.50	3.53	3.56	1442.498535	0.6558			4
3.61	3.62	3.67	6081.616211	5.237918			5
3.70	3.72	3.76	453.885529	0.551468			6
Height Summation:			9693.281403				
Amount Avg CF:			1.694063	Linear:			
Aroclor-1221					3	170.56	
2.72	2.72	2.78	188.504959	0.560651			1
+ 2.72	2.77	2.78	84.499825	0.251319			1
E 2.81	2.81	2.87	29623.14062	135.543997			2
2.86	2.89	2.92	641.671631	0.831208			3
Height Summation:			30453.317215				
Amount Avg CF:			45.645285	Linear:			
Aroclor-1232					5	131.76	
2.86	2.89	2.92	641.671631	0.847091			1
3.15	3.18	3.21	1073.609497	2.15422			2
3.50	3.53	3.56	1442.498535	1.506251			4
3.61	3.62	3.67	6081.616211	11.506771			5
3.70	3.72	3.76	453.885529	1.192005			6
Height Summation:			9693.281403				
Amount Avg CF:			3.441268	Linear:			
Aroclor-1242					5	117.50	
2.86	2.89	2.92	641.671631	1.479188			1
3.15	3.18	3.21	1073.609497	1.402037			2
3.50	3.53	3.56	1442.498535	0.875714			4
3.61	3.62	3.67	6081.616211	7.335645			5
3.70	3.72	3.76	453.885529	0.78108			6
Height Summation:			9693.281403				
Amount Avg CF:			2.374733	Linear:			
Aroclor-1248					3	85.14	
3.77	3.80	3.83	243.075882	0.230611			1
E 4.88	4.93	4.94	10995.43457	13.75676			4
E 5.31	5.32	5.37	7965.98584	15.677217			6
Height Summation:			19204.496292				
Amount Avg CF:			9.888196	Linear:			
Aroclor-1254					5	17.34	
4.52	4.56	4.58	8422.396484	5.083042			1
4.79	4.80	4.85	7398.875	5.854003			2
4.88	4.93	4.94	10995.43457	4.89025			3
5.30	5.32	5.36	7965.98584	7.362415			5
5.44	5.46	5.50	8327.373047	5.378606			6
Height Summation:			43110.064941				
Amount Avg CF:			5.713663	Linear:			
Aroclor-1260					4	89.39	
5.03	5.04	5.09	755.492981	0.432514			1
5.44	5.46	5.50	8327.373047	5.234379			3
5.71	5.75	5.77	8126.241211	6.50711			4
6.12	6.18	6.18	1618.641846	1.182764			6
Height Summation:			18827.749085				
Amount Avg CF:			3.339192	Linear:			

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:22:26

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339384 FG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 08:12:22
Instrument : CP10--H9191A
Result file : 1P10200.79R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Chlordane					3	55.42	
3.63	3.66	3.70	11700.65820:	2.760249			2
4.52	4.55	4.59	10961.05664'	1.10344			4
4.62	4.66	4.69	13446.69628!	1.187582			5
Height Summation:			**36108.411133**				
Amount Avg CF:			**1.683757**	Linear:			
Toxaphene					6	88.36	
* 5.35	5.37	5.42	20296.43554'	11.021836			2
* 5.31	5.37	5.38	20296.43554'	10.830848			1
+ 5.55	5.55	5.62	4589.473145	2.009154			3
5.55	5.60	5.62	13741.68945:	6.015761			3
5.74	5.80	5.81	1533.009521	0.845765			4
5.80	5.84	5.87	1536.382324	0.632533			5
6.05	6.10	6.12	25745.63085!	18.53325			6
Height Summation:			**83149.583251**				
Amount Avg CF:			**7.979999**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 08:12:22
Instrument : CP10--H9191B
Result file : 1P10200B.79R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Chlordane					4	55.46	
3.47	3.53	3.54	1442.498535	0.739635			1
3.59	3.62	3.66	6081.616211	2.637935			2
4.52	4.56	4.59	8422.396484	1.616467			4
4.64	4.67	4.71	4581.894531	1.038639			6
Height Summation:			**20528.405761**				
Amount Avg CF:			**1.508169**	Linear:			
Toxaphene					6	81.78	
5.09	5.11	5.16	746.15332	1.275692			1
5.34	5.37	5.41	198.837753	0.163942			2
5.53	5.56	5.60	7908.992676	6.462427			3
5.71	5.75	5.78	8126.241211	14.171979			4
* 5.92	5.94	5.99	14130.10351(	14.77301			6
* 5.88	5.94	5.95	14130.10351(	17.170574			5
Height Summation:			**45240.431992**				
Amount Avg CF:			**9.002937**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		** 91.58	4	40	
Aroclor-1221			0	0	E	** 76.61	3	5	
Aroclor-1232			0	0	E	** 97.38	4	10	
Aroclor-1242			0	0		** 90.18	4	30	
Aroclor-1248			0	0		** 169.80	4	30	
Aroclor-1254			0	0		28.22	4	40	
Aroclor-1260			0	0		5.55	4	40	
Chlordane			3.4	0.8		11.00	4	40	no match
Toxaphene			6.6	2.2		12.05	4	40	L

Units: ug/kg

USF03 1615

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:22:26

LANCASTER LABORATORIES

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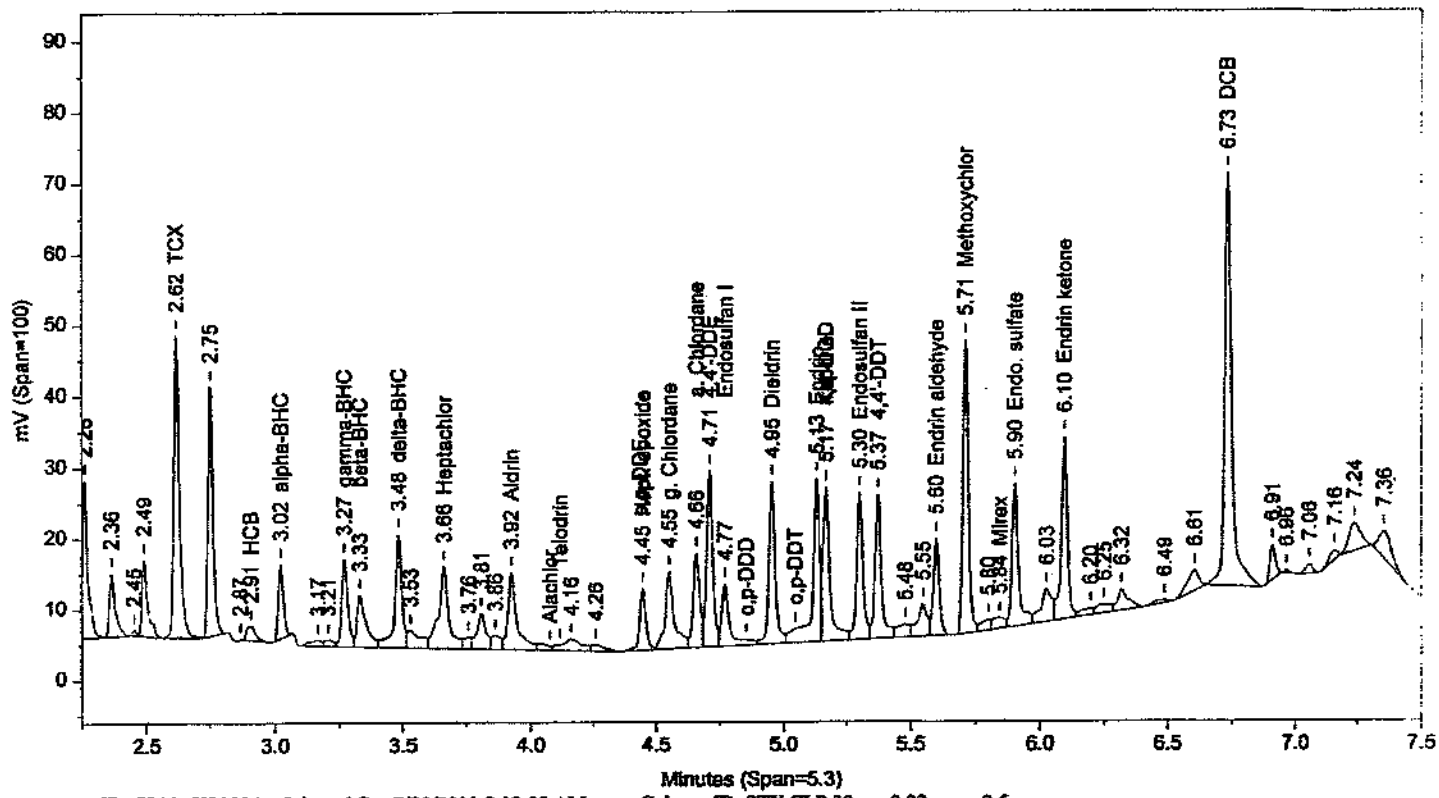
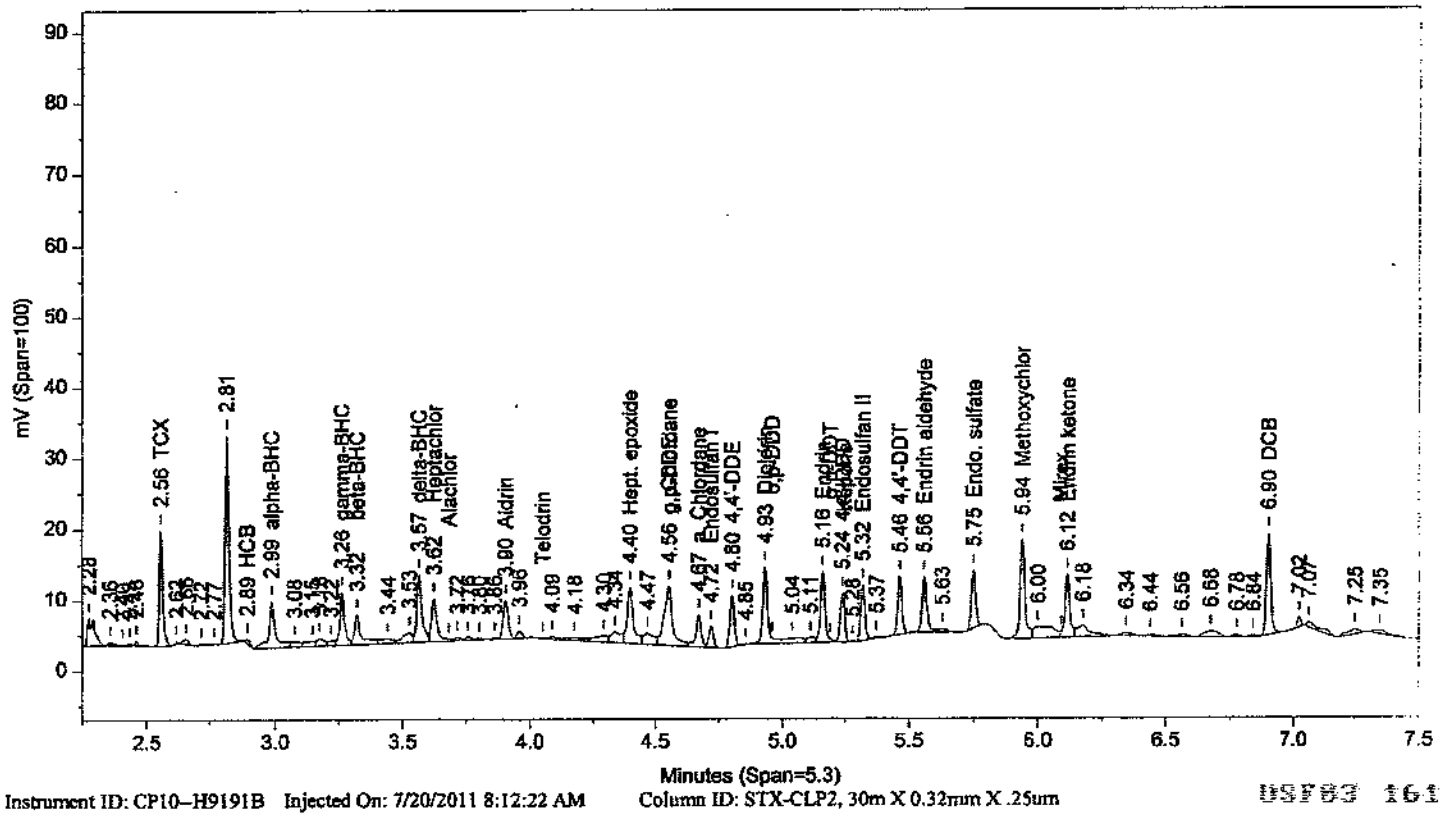


Instrument ID: CP10--H9191A Injected On: 7/20/2011 8:12:22 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.79R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 8:12:22 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF83 1616

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

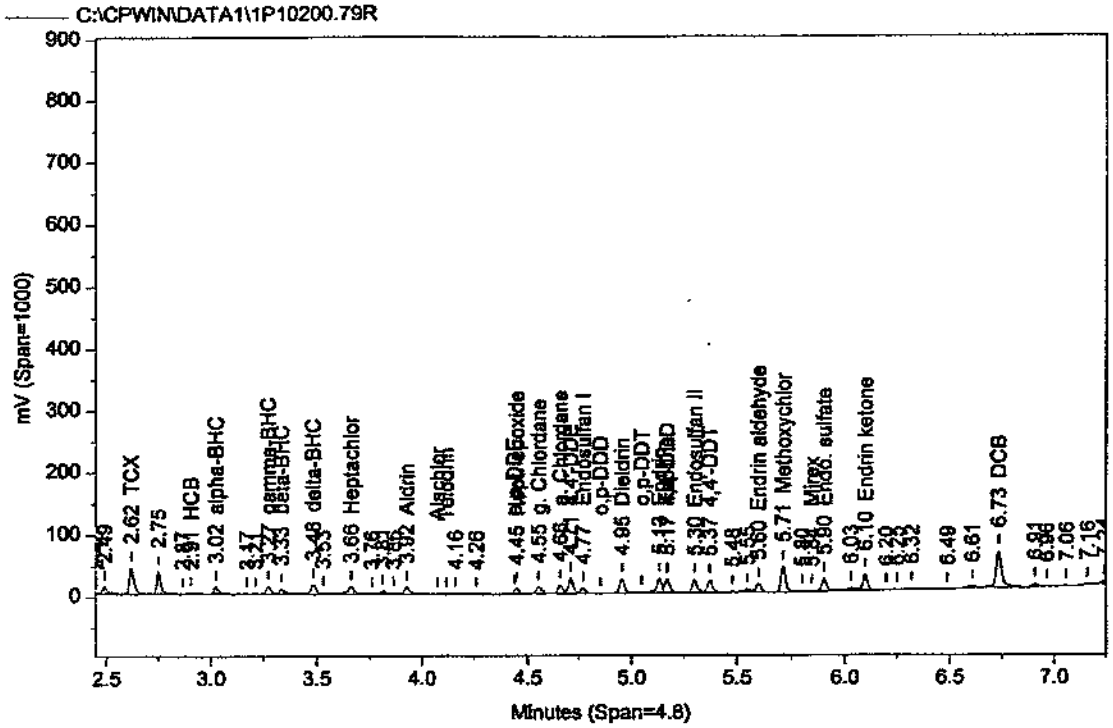
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	43190	.451	TCX	2.557	16476	.476	TCX
2.908	2022	.019	HCB	2.894	642	.014	HCB
3.023	10563	.083	alpha-BHC	2.988	6636	.091	alpha-BHC
3.271	12550	.11	gamma-BHC	3.263	7502	.11	gamma-BHC
3.334	7358	.135	beta-BHC	3.323	4219	.148	beta-BHC
3.484	16068	.148	delta-BHC	3.566	9605	.148	delta-BHC
3.662	11701	.115	Heptachlor	3.624	6082	.11	Heptachlor
3.925	10988	.108	Aldrin	3.904	5466	.108	Aldrin
4.447	8788	.094	Hept. epoxide	4.399	8018	.188	Hept. epoxide
4.553	10961	.113	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.556	8422	.287	o,p-DDE
4.658	13447	.145	a. Chlordane	4.672	4582	.098	a. Chlordane
4.71	24865	.286	4,4'-DDE	4.802	7399	.17	4,4'-DDE
4.77	8829	.102	Endosulfan I	4.72	3049	.072	Endosulfan I
4.954	22973	.244	Dieldrin	4.932	10995	.233	Dieldrin
5.132	23162	.298	Endrin	5.161	10143	.264	Endrin
5.169	22059	.312	4,4'-DDD	5.239	6934	.207	4,4'-DDD
5.301	20802	.366	Endosulfan II	5.319	7966	.238	Endosulfan II
5.374	20296	.322	4,4'-DDT	5.465	8327	.303	4,4'-DDT
5.599	13742	.224	Endrin aldehyde	5.559	7909	.301	Endrin aldehyde
5.712	41761	1.342	Methoxychlor	5.939	14130	1.331	Methoxychlor
5.902	20354	.33	Endo. sulfate	5.75	8126	.313	Endo. sulfate
5.843	1536	.029	Mirex	.	0	.	Mirex
6.097	25746	.315	Endrin ketone	6.116	8853	.298	Endrin ketone
6.733	58057	1.007	DCB	6.9	14308	.961	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.79A
Area File: C:\CPWIN\DATA1\1P10200B.79A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 8:20:00 AM
File Reported On: 7/20/2011 at 8:20:10 AM

10X REPLOTS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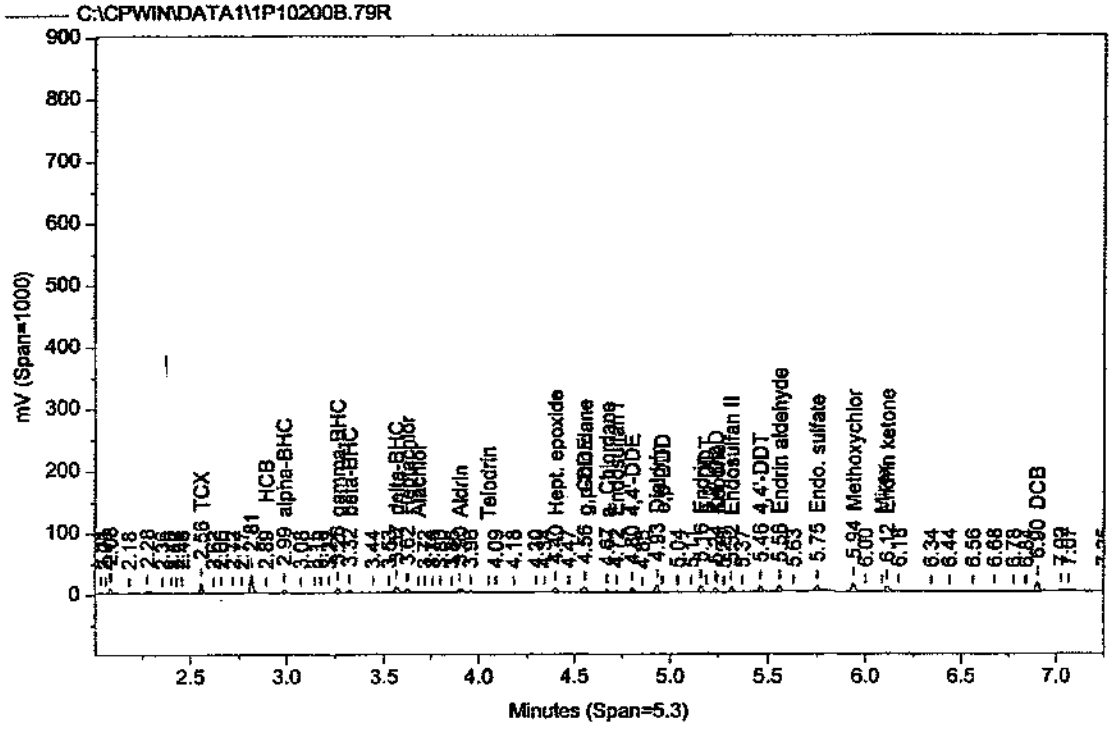
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.75
HCB
3.02 alpha-BHC
delta-BHC
3.66 Heptachlor
Aldrin
4.16
4.28
4.55 g. Chlordane
o,p-DDD
Dieldrin
Endosulfan II
4,4'-DDT
Endrin aldehyde
5.71 Methoxychlor
Endo. sulfate
6.03
6.10 Endrin ketone
6.49
6.61
6.73 DCB
6.94
7.06
7.16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mV (Span=1000)
Minutes (Span=5.3)
2.18
2.28
TCX
HCB
alpha-BHC
gamma-BHC
delta-BHC
Heptachlor
Aldrin
Telodrin
4.09
4.18
Hept. epoxide
4.56
g. Chlordane
4,4'-DDE
Dieldrin
4.93
5.04
Endosulfan II
4,4'-DDT
5.46
Endrin aldehyde
5.58
5.63
5.75 Endo. sulfate
5.94
6.00 Methoxychlor
6.12
Endrin ketone
6.34
6.44
6.56
6.68
6.78
6.90 DCB
7.07

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339386 FG 87S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191A
Result file : 1P10200.80R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 55.3% (28-121) Conc.: 0.573626
%SSR(DCB) : 62% (45-150) Conc.: 0.643981

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	55109	0.573626
HCB	2.88	2.90	2.92	3369	0.031920
alpha-BHC	3.00	3.00	3.04	5877	0.045919
gamma-BHC	3.25	3.28	3.29	853	0.007433
beta-BHC	3.31	3.35	3.35	4242	0.077736
delta-BHC	3.46	3.49	3.50	176528 E	1.640243
Aldrin	3.91	3.92	3.95	6146	0.060409
o,p-DDE	4.42	4.44	4.46	5005	0.089278
g. Chlordane	4.52	4.54	4.58	14371	0.147130
a. Chlordane	4.64	4.64	4.68	38237	0.409675
4,4'-DDE	4.69	4.71	4.73	79654	0.912123
Dieldrin	4.93	4.94	4.97	15799	0.167240
o,p-DDT	5.03	5.04	5.07	21995	0.418502
Endrin	5.11	5.14	5.15	16738	0.214752
4,4'-DDT	5.35	5.37	5.39	123204	1.948401
Methoxychlor	5.69	5.73	5.73	61960	1.953807
Mirex	5.82	5.83	5.86	82025	1.519456
Endrin ketone	6.08	6.09	6.12	89947	1.095194
DCB	6.71	6.73	6.75	37237	0.643981

Analysis Report (B)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191B
Result file : 1P10200B.80R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 58.6% (28-121) Conc.: 0.608763
%SSR(DCB) : *577.5% (45-150) Conc.: 6.000012

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	21120	0.608763
HCB	2.87	2.89	2.91	927	0.019615
alpha-BHC	2.97	2.99	3.01	1935	0.026348
gamma-BHC	3.24	3.25	3.28	44217	0.644439
delta-BHC	3.55	3.56	3.59	477413 E	7.323650
Heptachlor	3.60	3.62	3.64	6432	0.116102
Alachlor	3.66	3.67	3.70	4700 E	0.000000
Aldrin	3.89	3.91	3.93	2012	0.039782
Telodrin	4.03	4.04	4.07	5767	0.151151
Hept. epoxide	4.38	4.40	4.42	3041	0.071020
o,p-DDE	4.54	4.54	4.58	27568	0.934760
a. Chlordane	4.65	4.67	4.69	6500	0.138024
Endosulfan I	4.70	4.72	4.74	7840	0.185507
4,4'-DDE	4.78	4.80	4.82	41334	0.948719
Dieldrin	4.91	4.92	4.95	5840	0.123183
Endrin	5.14	5.16	5.18	29069	0.753460
Kepone	5.23	5.25	5.27	49172	4.436451
Endosulfan II	5.30	5.31	5.34	6599	0.196267
4,4'-DDT	5.44	5.46	5.48	29337	1.062415
Endrin aldehyde	5.54	5.56	5.58	21512	0.815368
Methoxychlor	5.92	5.95	5.96	11532	1.082848
Mirex	6.07	6.09	6.11	16588	0.906261
DCB	6.88	6.90	6.91	89604 E	6.000012

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	B	0.608763				5.94	
☐ HCB			<0.1654	<0.0419			
☑ alpha-BHC			<0.1654	<0.0339			
☑ gamma-BHC			<0.1654	<0.0339			
☑ beta-BHC			<0.1654	<0.0598			
☑ delta-BHC	A	1.640243	0.1654	0.0359	E	126.81	** See DX10
☑ Heptachlor			<0.1654	<0.0598			
☑ Aldrin			<0.1654	<0.0658			
☐ Alachlor							
☐ Telodrin			<0.2392	<0.0797			
☐ o,p-DDE	A	0.089278	<0.3389	0.0658	J	165.13	**
☑ Hept. epoxide			<0.1654	<0.0339			
☐ g. Chlordane			<0.1654	<0.0498			
☐ a. Chlordane	B	0.138024	<0.1654	0.0458	J	99.20	**
☑ 4,4'-DDE	B	0.948719	0.3389	0.0658		3.93	
☑ Endosulfan I			<0.1654	<0.0439			
☐ o,p-DDD			<0.3389	<0.0658			

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD>40

Printed on: 7/25/2011 15:32:21

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339386 FG 87S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191A
Result file : 1P10200.80R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191B
Result file : 1P10200B.80R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Dieldrin	A	0.167240	<0.3389	0.0658	J	30.34	
☐ o,p-DDT			<0.3389	<0.0658			
☑ Endrin	A	0.214752	<0.3389	0.0658	J	111.28	** %D WC
☐ Kepone			<1.3954	<0.4585			
☑ 4,4'-DDD			<0.3389	<0.0658			
☑ Endosulfan II			<0.3389	<0.0658			
☑ 4,4'-DDT	B	1.062415	0.3389	0.0658		58.85	**
☑ Endrin aldehyde			<0.3389	<0.0658			
☑ Methoxychlor	B	1.082848	<1.6545	~~0.3389~~	JL	58.76	**
☑ Mirex	B	~~0.906264~~	0.3389	0.0658	LI LI	50.56	**
☑ Endo. sulfate			<0.3389	<0.0658			
☑ Endrin ketone			<0.3389	<0.0658			
☐ DCB	A	0.643981				161.23	**

Units: ug/kg

Reviewed by: Melissa A McDermott

Date: JUL 25 2011

Melissa A. McDermott
Senior Chemist

Verified by: [signature]

Date:

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD ~~>40~~ 1625

Printed on: 7/25/2011 15:32:21

Multiple Component Data Summary

Sample Name: 6339386 FG 87S05 Sample ID: AC **Batchnumber:** 111930027A
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on	Jul 20, 2011 08:27:08
Instrument	H9191A
Result file	1P10200.80R
Calibration file	1P10200
Method file	PESTD

%SSR(TCX)	55.3%	Conc:	0.573826
%SSR(DCB)	62.0%	Conc:	0.643981

Analysis Report (B)

Injected on	Jul 20, 2011 08:27:08
Instrument	H9191B
Result file	1P10200B.80R
Calibration file	1P10200B
Method file	PESTDB

%SSR(TCX)	58.6%	Conc:	0.608763
%SSR(DCB)	* 577.5%	Conc:	6.000012

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)			<3.3887	<0.7973			4	40	
Toxaphene			<6.5781	<2.1927			4	40	

Units: ug/kg

%Difference = High - Low divided by the Average times 100

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 26 2011 Date:

Melissa A. McDermott
Senior Chemist

USF03 1621

7/26/2011

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339386 FG 87S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191A
Result file : 1P10200.80R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 55.3% (28-121) Conc.: 0.573626
%SSR(DCB) : 62% (45-150) Conc.: 0.643981

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**198.95**	
2.84	2.87	2.90	197.754623	0.146429			1
3.10	3.13	3.16	1094.924316	0.408677			2
3.26	3.28	3.32	852.658081	0.552086			3
E 3.46	3.49	3.52	178527.9843	38.162769			4
3.62	3.63	3.68	4724.969727	2.645027			6
Height Summation:			**185398.291122**				
Amount Avg CF:			**8.382598**	Linear:			
Aroclor-1221					**3**	**164.97**	
E 2.70	2.75	2.76	34343.15234	38.940904			1
2.81	2.82	2.87	703.43396	1.189005			2
2.84	2.87	2.90	197.754623	0.094545			3
Height Summation:			**35244.340927**				
Amount Avg CF:			**13.408151**	Linear:			
Aroclor-1232					**6**	**207.38**	
2.84	2.87	2.90	197.754623	0.118143			1
3.10	3.13	3.16	1094.924316	0.864505			2
3.26	3.28	3.32	852.658081	1.210448			3
E 3.46	3.49	3.52	178527.9843	83.008463			4
* 3.63	3.63	3.68	4724.969727	5.825783			6
* 3.57	3.63	3.63	4724.969727	4.319046			5
Height Summation:			**190123.260849**				
Amount Avg CF:			**15.891065**	Linear:			
Aroclor-1242					**6**	**204.53**	
2.84	2.87	2.90	197.754623	0.206196			1
3.10	3.13	3.16	1094.924316	0.563187			2
3.26	3.28	3.32	852.658081	0.756358			3
E 3.46	3.49	3.52	178527.9843	50.544652			4
* 3.62	3.63	3.68	4724.969727	3.73863			6
* 3.57	3.63	3.63	4724.969727	2.913568			5
Height Summation:			**190123.260849**				
Amount Avg CF:			**9.787099**	Linear:			
Aroclor-1248					**4**	**77.34**	
3.92	3.92	3.97	6145.624512	2.121449			2
+ 3.92	3.97	3.97	5843.605469	2.017193			2
+ 4.77	4.79	4.83	11223.05859	6.817995			4
4.77	4.83	4.83	19782.04296	12.017567			4
E 4.98	5.04	5.04	21995.35156	19.601464			5
E 5.19	5.23	5.25	32422.89843	32.481649			6
Height Summation:			**80345.917482**				
Amount Avg CF:			**16.555532**	Linear:			
Aroclor-1254					**5**	**86.08**	
E 4.68	4.71	4.74	79653.95312	27.855902			2
+ 4.77	4.79	4.83	11223.05859	2.344672			3
4.77	4.83	4.83	19782.04296	4.132777			3
4.98	5.04	5.04	21995.35156	6.781078			4
+ 5.12	5.12	5.18	16435.11328	6.258505			5
5.12	5.14	5.18	16735.75	6.372988			5
+ 5.33	5.33	5.39	55188.03125	14.090324			6
E 5.33	5.37	5.39	123203.9375	31.455796			6
Height Summation:			**261371.035157**				
Amount Avg CF:			**15.319708**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191B
Result file : 1P10200B.80R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 58.6% (28-121) Conc.: 0.608763
%SSR(DCB) : *577.5% (45-150) Conc.: 6.000012

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**204.97**	
+ 2.86	2.87	2.91	179.9944	0.286977			1
2.86	2.89	2.91	927.090027	1.47812			1
3.15	3.18	3.21	3085.46167	2.860528			2
+ 3.15	3.20	3.21	2165.204346	2.007359			2
3.34	3.36	3.40	3533.817139	5.625422			3
E 3.50	3.56	3.56	477412.7187	216.32416			4
3.61	3.62	3.67	6431.710449	5.521041			5
Height Summation:			**491390.798035**				
Amount Avg CF:			**46.361854**	Linear:			
Aroclor-1221					**3**	**166.70**	
2.72	2.77	2.78	652.577209	1.934446			1
E 2.81	2.82	2.87	26728.90429	121.894777			2
+* 2.81	2.87	2.87	179.9944	0.820848			2
+* 2.86	2.87	2.92	179.9944	0.232386			3
2.86	2.89	2.92	927.090027	1.196943			3
Height Summation:			**28308.571533**				
Amount Avg CF:			**41.675389**	Linear:			
Aroclor-1232					**5**	**206.93**	
+ 2.86	2.87	2.92	179.9944	0.236827			1
2.86	2.89	2.92	927.090027	1.219815			1
3.15	3.18	3.21	3085.46167	6.170476			2
+ 3.15	3.20	3.21	2165.204346	4.330095			2
3.34	3.36	3.40	3533.817139	12.090892			3
E 3.50	3.56	3.56	477412.7187	496.856055			4
3.61	3.62	3.67	6431.710449	12.12874			5
Height Summation:			**491390.798035**				
Amount Avg CF:			**105.693196**	Linear:			
Aroclor-1242					**5**	**204.23**	
+ 2.86	2.87	2.92	179.9944	0.413546			1
2.86	2.89	2.92	927.090027	2.130037			1
3.15	3.18	3.21	3085.46167	4.015946			2
+ 3.15	3.20	3.21	2165.204346	2.818166			2
3.34	3.36	3.40	3533.817139	7.677133			3
E 3.50	3.56	3.56	477412.7187	268.86559			4
3.61	3.62	3.67	6431.710449	7.732154			5
Height Summation:			**491390.798035**				
Amount Avg CF:			**62.084172**	Linear:			
Aroclor-1248					**6**	**63.13**	
3.77	3.78	3.83	2049.854736	1.93828			1
4.01	4.04	4.07	5767.189453	4.257563			2
E 4.12	4.18	4.18	16576.97265	13.388355			3
4.88	4.92	4.94	5839.55127	7.281787			4
+ 5.05	5.08	5.11	3948.349609	7.08955			5
5.05	5.10	5.11	4066.774658	7.302191			5
5.31	5.35	5.37	2040.927124	4.003241			6
Height Summation:			**36341.269897**				
Amount Avg CF:			**6.361903**	Linear:			

USF03 1622

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/25/2011 15:32:23

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339386 FG 87S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191A
Result file : 1P10200.80R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					5	68.48	
4.91	4.91	4.97	31224.42773	8.311651			1
+ 4.91	4.94	4.97	15799.29296	4.205624			1
+ 5.12	5.12	5.18	16435.11328	3.413247			2
5.12	5.14	5.18	16735.75	3.475683			2
+ 5.33	5.33	5.39	55188.03125	12.456616			3
E 5.33	5.37	5.39	123203.9375	27.808642			3
5.79	5.83	5.85	82025.4375	11.610611			5
E 5.99	6.02	6.05	77667.00781	22.176092			6
Height Summation:			**330856.560547**				
Amount Avg CF:			**14.676536**	Linear:			
Chlordane					5	193.92	
3.63	3.63	3.70	4724.969727	1.110943			2
4.01	4.05	4.08	1297.214722	0.394579			3
4.52	4.54	4.59	14371.47363	1.441957			4
4.62	4.64	4.69	38236.76562	3.365767			5
+ 5.22	5.23	5.29	32422.89843	12.313468			6
E 5.22	5.27	5.29	138716.9375	52.681491			6
Height Summation:			**197347.361207**				
Amount Avg CF:			**11.798947**	Linear:			
Toxaphene					6	30.71	
+ 5.31	5.33	5.38	55188.03125	29.352314			1
* 5.35	5.37	5.42	123203.9375	66.682752			2
* 5.31	5.37	5.38	123203.9375	65.527264			1
5.55	5.58	5.62	81412.71875	35.522006			3
5.74	5.78	5.81	134256.2656	73.823421			4
5.80	5.83	5.87	82025.4375	33.657931			5
6.05	6.09	6.12	89947.30468	64.534351			6
Height Summation:			**634049.601563**				
Amount Avg CF:			**56.624621**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191B
Result file : 1P10200B.80R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	89.25	
4.52	4.54	4.58	27567.99218	16.582418			1
E 4.79	4.80	4.85	41334.00781	32.594893			2
4.88	4.92	4.94	5839.55127	2.588528			3
+ 5.05	5.06	5.11	3948.349609	2.50917			4
5.05	5.10	5.11	4066.774658	2.584429			4
5.30	5.31	5.36	6598.584473	6.078358			5
+ 5.30	5.35	5.36	2040.927124	1.880022			5
E 5.44	5.46	5.50	29336.77929	18.885518			6
+ 5.44	5.49	5.50	17805.63085	11.462354			6
Height Summation:			**114743.689699**				
Amount Avg CF:			**13.219024**	Linear:			
Aroclor-1260					5	95.93	
+ 5.03	5.04	5.09	2351.565918	1.34178			1
5.03	5.06	5.09	3948.349609	2.252888			1
E 5.44	5.46	5.50	29336.77929	18.379103			3
+ 5.44	5.49	5.50	17805.63085	11.154991			3
E 5.71	5.71	5.77	38392.37109	30.640659			4
5.87	5.88	5.93	15019.21582	5.766357			5
+ 5.87	5.91	5.93	11627.86816	4.46431			5
6.12	6.17	6.18	7011.955078	5.106709			6
Height Summation:			**93708.670898**				
Amount Avg CF:			**12.429143**	Linear:			
Chlordane					6	42.59	
3.47	3.48	3.54	5551.574707	2.837091			1
3.59	3.62	3.66	6431.710449	2.780522			2
+ 4.00	4.01	4.07	2226.306885	1.498541			3
4.00	4.04	4.07	5767.189453	3.881931			3
4.52	4.54	4.59	27567.99218	5.273403			4
4.60	4.61	4.67	20760.84960	5.353194			5
+* 4.60	4.67	4.67	6499.842285	1.675987			5
* 4.64	4.67	4.71	6499.842285	1.468511			6
Height Summation:			**72579.158691**				
Amount Avg CF:			**3.599109**	Linear:			
Toxaphene					6	115.02	
5.09	5.10	5.16	4066.774658	6.929829			1
+ 5.34	5.35	5.41	2040.927124	1.677154			2
5.34	5.38	5.41	5069.48291	4.165901			2
5.53	5.56	5.60	21512.22265	17.519209			3
+ 5.53	5.59	5.60	16004.03515	13.03343			3
5.71	5.71	5.78	38392.37109	66.732975			4
5.88	5.91	5.95	11627.86816	14.082972			5
* 5.92	5.95	5.99	11531.91113	12.016547			6
+* 5.88	5.95	5.95	11531.91113	13.966755			5
Height Summation:			**92200.630615**				
Amount Avg CF:			**20.241239**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0	E	** 138.75	4	40	
Aroclor-1221			0	0	E	** 102.63	3	5	
Aroclor-1232			0	0	E	** 147.72	4	10	
Aroclor-1242			0	0	E	** 145.53	4	30	
Aroclor-1248			0	0	E	** 88.96	4	30	
Aroclor-1254			0	0	E	14.72	4	40	USFB3 16.23

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/25/2011 15:32:23

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: **6339386** FG 87S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191A
Result file : 1P10200.80R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 20, 2011 08:27:08
Instrument : CP10--H9191B
Result file : 1P10200B.80R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1260			0	0	E	16.58	4	40	
Chlordane			3.3887	0.7973	E	** 106.50	4	40	no match
Toxaphene			6.5781	2.1927		** 94.67	4	40	J

Units: ug/kg

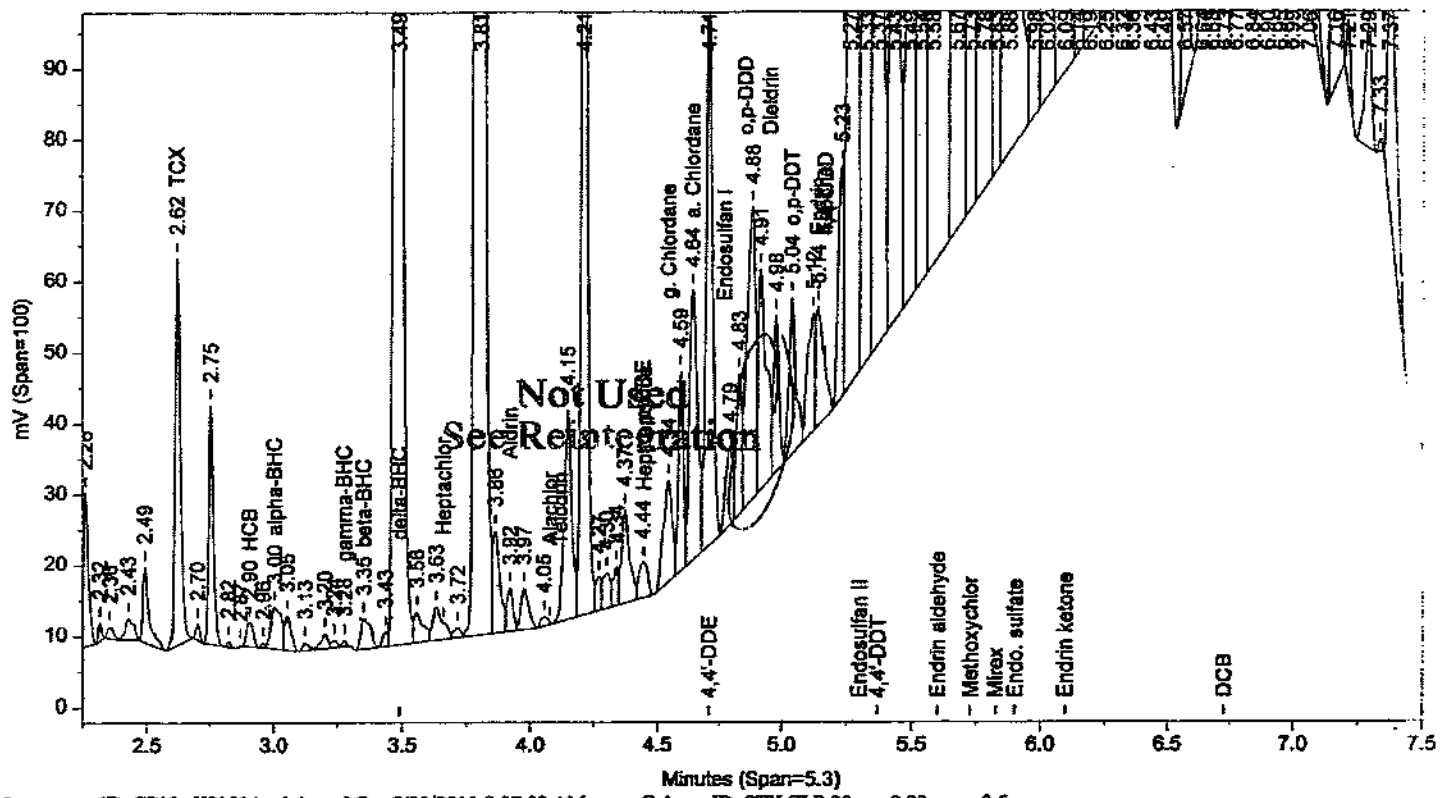
USF03 1624

* Peak found within more than one window
+Duplicate Peak in window - not included in average

Printed on: 7/25/2011 15:32:23

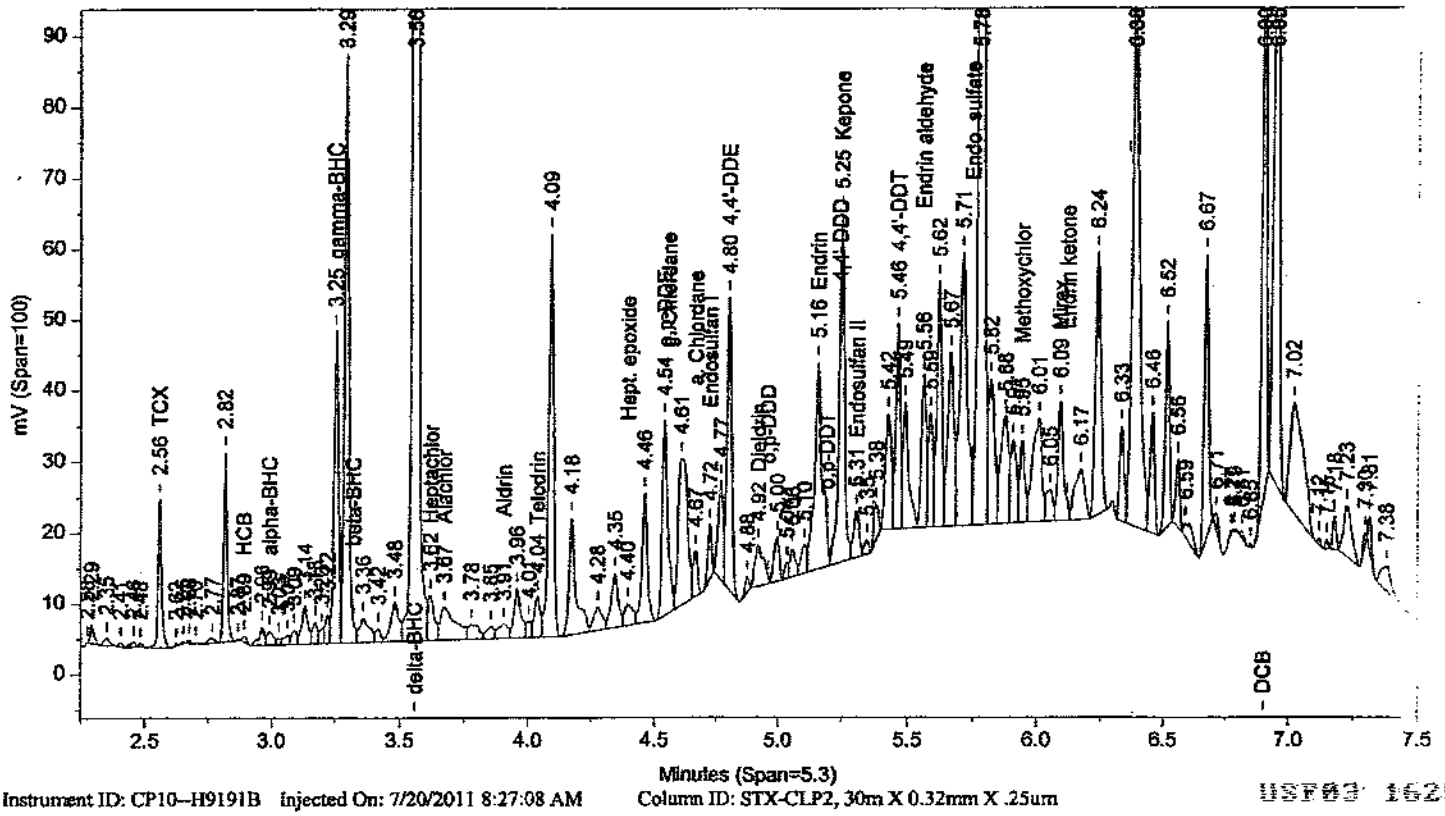
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.80R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 8:27:08 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.80R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 8:27:08 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.2 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	55109	.574	TCX	2.559	21120	.609	TCX
2.904	3369	.032	HCB	2.893	927	.02	HCB
3.004	5877	.046	alpha-BHC	2.994	1935	.026	alpha-BHC
3.277	853	.007	gamma-BHC	3.254	44217	.644	gamma-BHC
3.352	4242	.078	beta-BHC	.	0	.	beta-BHC
3.489	178528	1.64	delta-BHC	3.561	477413	7.324	delta-BHC
.	0	.	Heptachlor	3.622	6432	.116	Heptachlor
.	0	.	Alachlor	3.675	4700	.	Alachlor
3.918	6146	.06	Aldrin	3.906	2012	.04	Aldrin
.	0	.	Telodrin	4.039	5767	.151	Telodrin
.	0	.	Hept. epoxide	4.396	3041	.071	Hept. epoxide
4.441	5005	.089	o,p-DDE	4.54	27568	.935	o,p-DDE
4.543	14371	.147	g. Chlordane	.	0	.	g. Chlordane
4.642	38237	.41	a. Chlordane	4.667	6500	.138	a. Chlordane
4.707	79654	.912	4,4'-DDE	4.801	41334	.949	4,4'-DDE
.	0	.	Endosulfan I	4.724	7840	.186	Endosulfan I
.	0	.	Dieldrin	4.921	5840	.123	Dieldrin
5.04	21995	.419	o,p-DDT	.	0	.	o,p-DDT
5.142	16736	.215	Endrin	5.156	29069	.753	Endrin
.	0	.	Kepone	5.247	49172	4.436	Kepone
.	0	.	Endosulfan II	5.305	6599	.196	Endosulfan II
5.37	123204	1.948	4,4'-DDT	5.461	29337	1.062	4,4'-DDT
.	0	.	Endrin aldehyde	5.559	21512	.815	Endrin aldehyde
5.728	61960	1.984	Methoxychlor	5.945	11532	1.083	Methoxychlor
5.827	82025	1.519	Mirex	6.09	16588	.906	Mirex
6.094	89947	1.095	Endrin ketone	.	0	.	Endrin ketone
6.727	37237	.644	DCB	6.9	89604	6.	DCB

Not Used
See Reintegration

Files:
Area File: C:\CPWIN\DATA1\1P10200.80A
Area File: C:\CPWIN\DATA1\1P10200B.80A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 8:34:46 AM
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USF03 1626

10X REPLOTS

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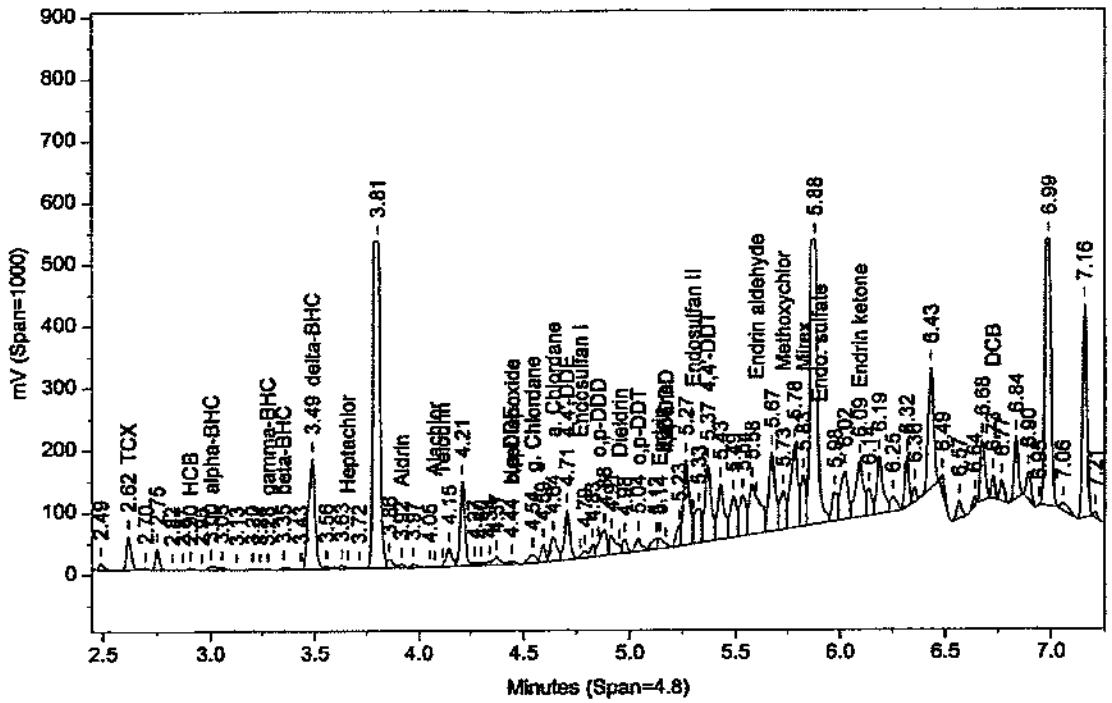

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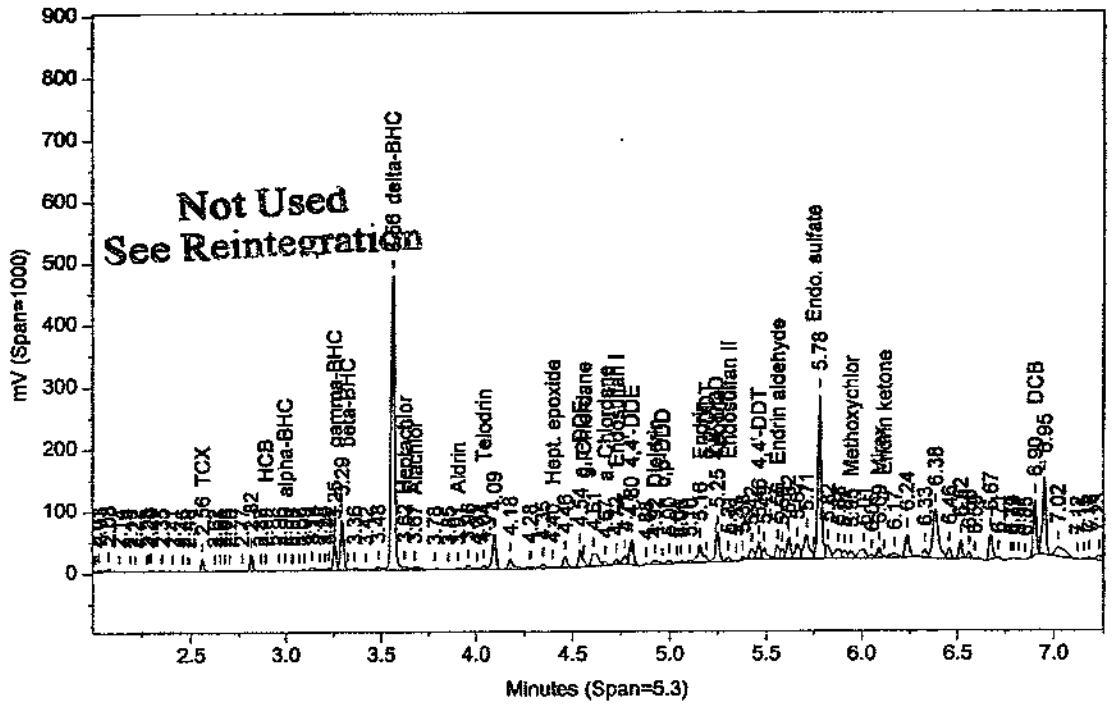

LANCASTER LABORATORIES

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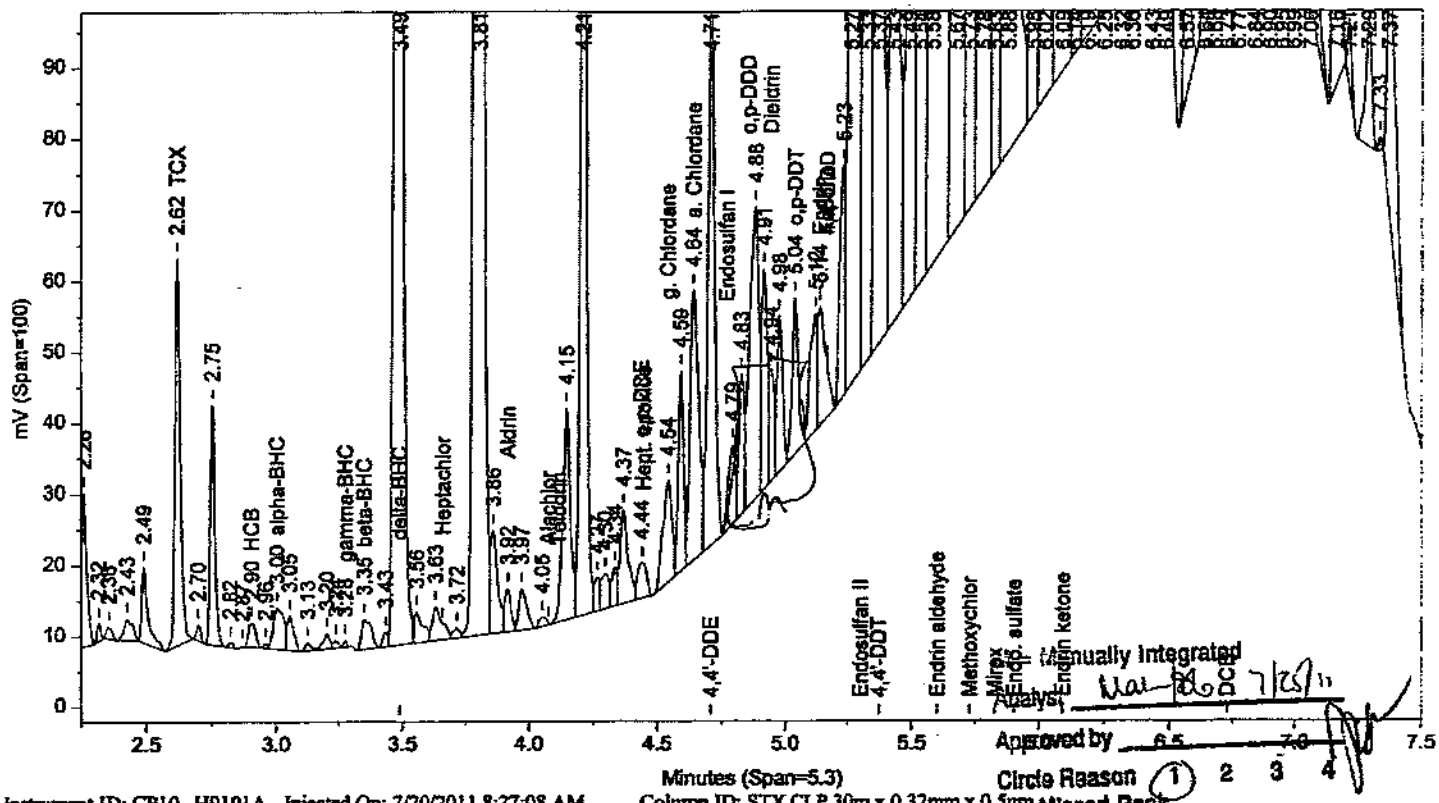

Instrument ID: CP10--H9191A Injected On: 7/20/2011 8:27:08 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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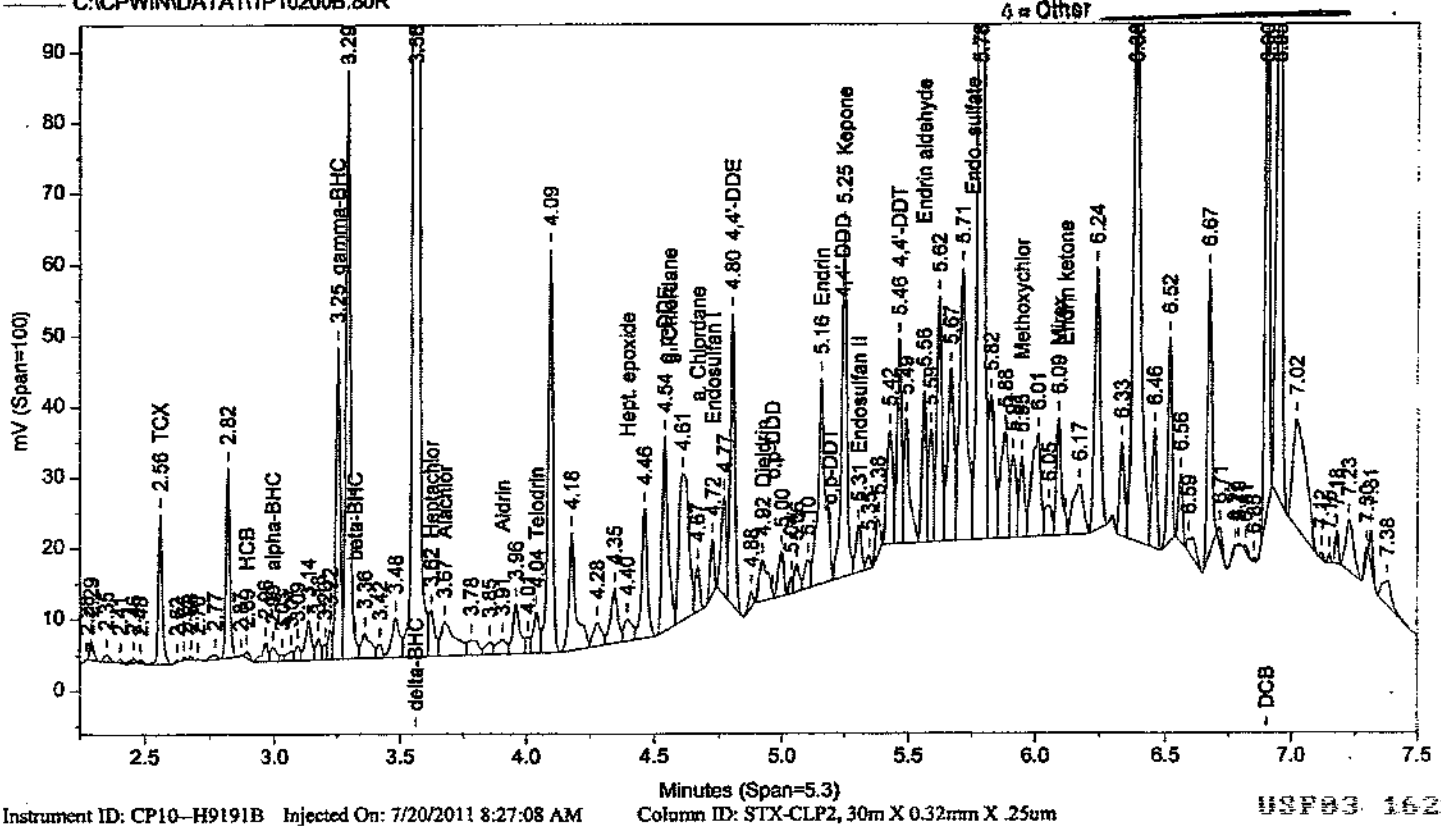

Instrument ID: CP10--H9191B Injected On: 7/20/2011 8:27:08 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.2 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	55109	.574	TCX	2.559	21120	.609	TCX
2.904	3369	.032	HCB	2.893	927	.02	HCB
3.004	5877	.046	alpha-BHC	2.994	1935	.026	alpha-BHC
3.277	853	.007	gamma-BHC	3.254	44217	.644	gamma-BHC
3.352	4242	.078	beta-BHC	.	0	.	beta-BHC
3.489	178528	1.64	delta-BHC	3.561	477413	7.324	delta-BHC
.	0	.	Heptachlor	3.622	6432	.116	Heptachlor
.	0	.	Alachlor	3.675	4700	.	Alachlor
3.918	6146	.06	Aldrin	3.906	2012	.04	Aldrin
.	0	.	Telodrin	4.039	5767	.151	Telodrin
.	0	.	Hept. epoxide	4.396	3041	.071	Hept. epoxide
4.441	5005	.089	o,p-DDE	4.54	27568	.935	o,p-DDE
4.543	14371	.147	g. Chlordane	.	0	.	g. Chlordane
4.642	38237	.41	a. Chlordane	4.667	6500	.138	a. Chlordane
4.707	79654	.912	4,4'-DDE	4.801	41334	.949	4,4'-DDE
.	0	.	Endosulfan I	4.724	7840	.186	Endosulfan I
4.943	15799	.167	Dieldrin	4.921	5840	.123	Dieldrin
5.04	21995	.419	o,p-DDT	.	0	.	o,p-DDT
5.142	16736	.215	Endrin	5.156	29069	.753	Endrin
.	0	.	Kepone	5.247	49172	4.436	Kepone
.	0	.	Endosulfan II	5.305	6599	.196	Endosulfan II
5.37	123204	1.948	4,4'-DDT	5.461	29337	1.062	4,4'-DDT
.	0	.	Endrin aldehyde	5.559	21512	.815	Endrin aldehyde
5.728	61960	1.984	Methoxychlor	5.945	11532	1.083	Methoxychlor
5.827	82025	1.519	Mirex	6.09	16588	.906	Mirex
6.094	89947	1.095	Endrin ketone	.	0	.	Endrin ketone
6.727	37237	.644	DCB	6.9	89604	6.	DCB

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/25/2011 3:09:14 PM
File Reported On: 7/25/2011 at 3:09:13 PM

USF03 1629

10X REPLOTS

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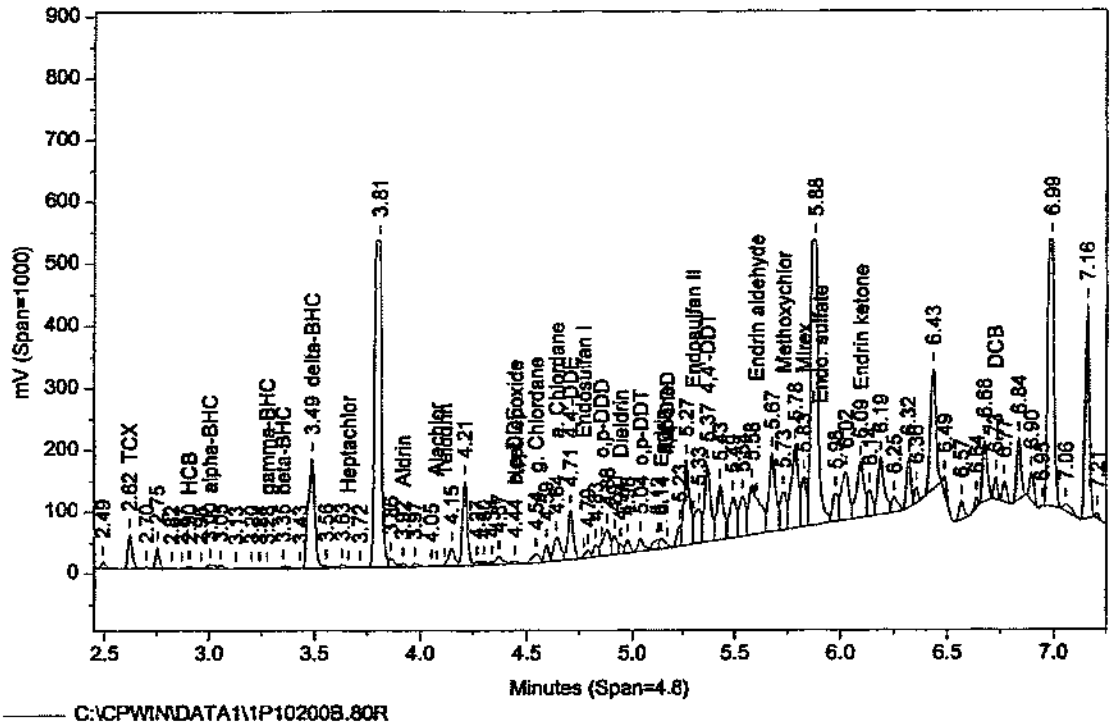

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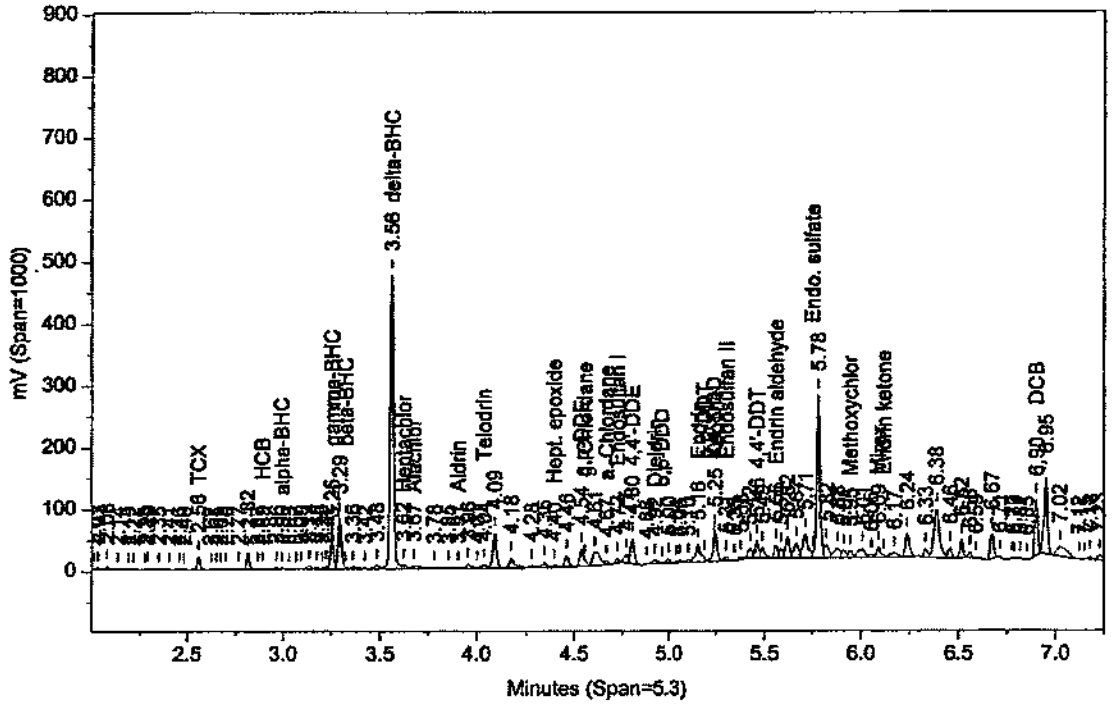

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339386 FG DF10 87S05 Sample ID: AD **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 40 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Delta Blk ok

Analysis Report (A)

Injected on : JUL 26, 2011 09:09:13
Instrument : CP10--H9191A
Result file : 1P10206.45R
Calibration file : 1P10206.CAL
Method file : PESTD.MET

%SSR(TCX) : 112.9% (28-121) Conc.: 1.171942
%SSR(DCB) : *382.2% (45-150) Conc.: 3.971257

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.59	2.61	2.63	8797	1.171942
alpha-BHC	3.00	3.01	3.04	2129	0.201442
gamma-BHC	3.25	3.26	3.29	823	0.070948
delta-BHC	3.46	3.48	3.50	32938	3.074588
Aldrin	3.90	3.91	3.94	2881	0.270406
Hept. epoxide	4.42	4.45	4.46	1899	0.189781
g. Chlordane	4.52	4.54	4.58	3409	0.331805
a. Chlordane	4.63	4.65	4.67	4951	0.519528
4,4'-DDE	4.69	4.70	4.73	16412	1.832482
Dieldrin	4.93	4.94	4.97	4706	0.458350
o,p-DDT	5.02	5.04	5.06	5400	0.984553
Endrin	5.11	5.12	5.15	5164	0.582616
4,4'-DDT	5.35	5.37	5.39	22695	3.267464
Endrin aldehyde	5.58	5.58	5.62	15493	2.308028
Methoxychlor	5.69	5.72	5.73	17317	5.090969
Mirex	5.81	5.83	5.85	11716	1.996852
Endrin ketone	6.07	6.09	6.11	15757	1.775848
DCB	6.71	6.72	6.75	24564	3.971257

Analysis Report (B)

Injected on : JUL 26, 2011 09:09:13
Instrument : CP10--H9191B
Result file : 1P10206B.45R
Calibration file : 1P10206B.CAL
Method file : PESTDB.MET

%SSR(TCX) : *127.4% (28-121) Conc.: 1.322771
%SSR(DCB) : *948.7% (45-150) Conc.: 9.836386

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	3428	1.322771
HCB	2.87	2.89	2.91	331	0.067336
gamma-BHC	3.24	3.25	3.28	6888	1.197661
delta-BHC	3.55	3.56	3.59	83914 E	14.970276
Alachlor	3.66	3.68	3.70	1891 E	0.000000
Aldrin	3.88	3.91	3.92	1438	0.312230
Telodrin	4.03	4.04	4.07	1957	0.594169
Hept. epoxide	4.38	4.42	4.42	1941	0.470315
g. Chlordane	4.53	4.54	4.59	542005 E	122.706207
a. Chlordane	4.65	4.67	4.69	1793	0.402684
Endosulfan I	4.70	4.73	4.74	1065	0.263168
4,4'-DDE	4.78	4.80	4.82	6645	1.685855
Dieldrin	4.91	4.93	4.95	617	0.142859
Endrin	5.14	5.16	5.18	8237	2.193899
Kepone	5.23	5.25	5.27	7208	6.155226
Endosulfan II	5.30	5.30	5.34	1478	0.483991
4,4'-DDT	5.45	5.46	5.49	5598	2.157067
Endrin aldehyde	5.54	5.57	5.58	6585	2.600782
Methoxychlor	5.92	5.95	5.96	1567	1.507525
Mirex	6.07	6.10	6.11	37542	20.816647
DCB	6.88	6.90	6.91	16151	9.836386

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	B	1.322771				12.09	
☐ HCB			<1.6545	<0.4186			
☑ alpha-BHC			<1.6545	<0.3389			
☑ gamma-BHC			<1.6545	<0.3389			
☑ beta-BHC			<1.6545	<0.598			
☑ delta-BHC	A	3.074588	23.2 1.6545	0.3688	60.2	131.85	** WC ToD
☑ Heptachlor			<1.6545	<0.598			
☑ Aldrin			<1.6545	<0.6578			
☐ Alachlor							
☐ Telodrin			<2.392	<0.7973			
☐ o,p-DDE			<3.3887	<0.6578			
☑ Hept. epoxide			<1.6545	<0.3389			
☐ g. Chlordane			<1.6545	<0.4983			
☐ a. Chlordane			<1.6545	<0.4585			
☑ 4,4'-DDE	A	1.832482	<3.3887	0.6578	J	8.34	
☑ Endosulfan I			<1.6545	<0.4385			
☐ o,p-DDD			<3.3887	<0.6578			
☑ Dieldrin			<3.3887	<0.6578			
☐ o,p-DDT			<3.3887	<0.6578			
☑ Endrin			<3.3887	<0.6578			

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40

** %Difference > 40, lower amount found reported

* Recovery outside QC Limits

Printed on: 7/26/2011 10:53:08

1631

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339386 FG DF10 87S05 Sample ID: AD **Batchnumber: 111930027A**
Sample Amount: 60.2 g Total Volume: 40 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)
Injected on : JUL 26, 2011 09:09:13
Instrument : CP10--H9191A
Result file : 1P10206.45R
Calibration file : 1P10206.CAL
Method file : PESTD.MET

Analysis Report (B)
Injected on : JUL 26, 2011 09:09:13
Instrument : CP10--H9191B
Result file : 1P10206B.45R
Calibration file : 1P10206B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ Kepone			<13.9535	<4.5847			
☑ 4,4'-DDD			<3.3887	<0.6578			
☑ Endosulfan II			<3.3887	<0.6578			
☑ 4,4'-DDT	B	2.157067	<3.3887	0.6578	J	40.94 **	
☑ Endrin aldehyde	B	2.600782	<3.3887	0.6578	J	11.93	
☑ Methoxychlor			<16.5449	<3.3887			
☑ Mirex	A	1.996852	<3.3887	0.6578	J	164.99 **	
☑ Endo. sulfate			<3.3887	<0.6578			
☑ Endrin ketone			<3.3887	<0.6578			
☐ DCB	A	3.971257				84.95 **	

Units: ug/kg

Reviewed by: Melissa A McDermott
Date: JUL 26 2011

Melissa A. McDermott
Senior Chemist

Verified by:
Date:

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD ≤ 40

USF03 1632

Printed on: 7/26/2011 10:53:08

LANCASTER LABORATORIES

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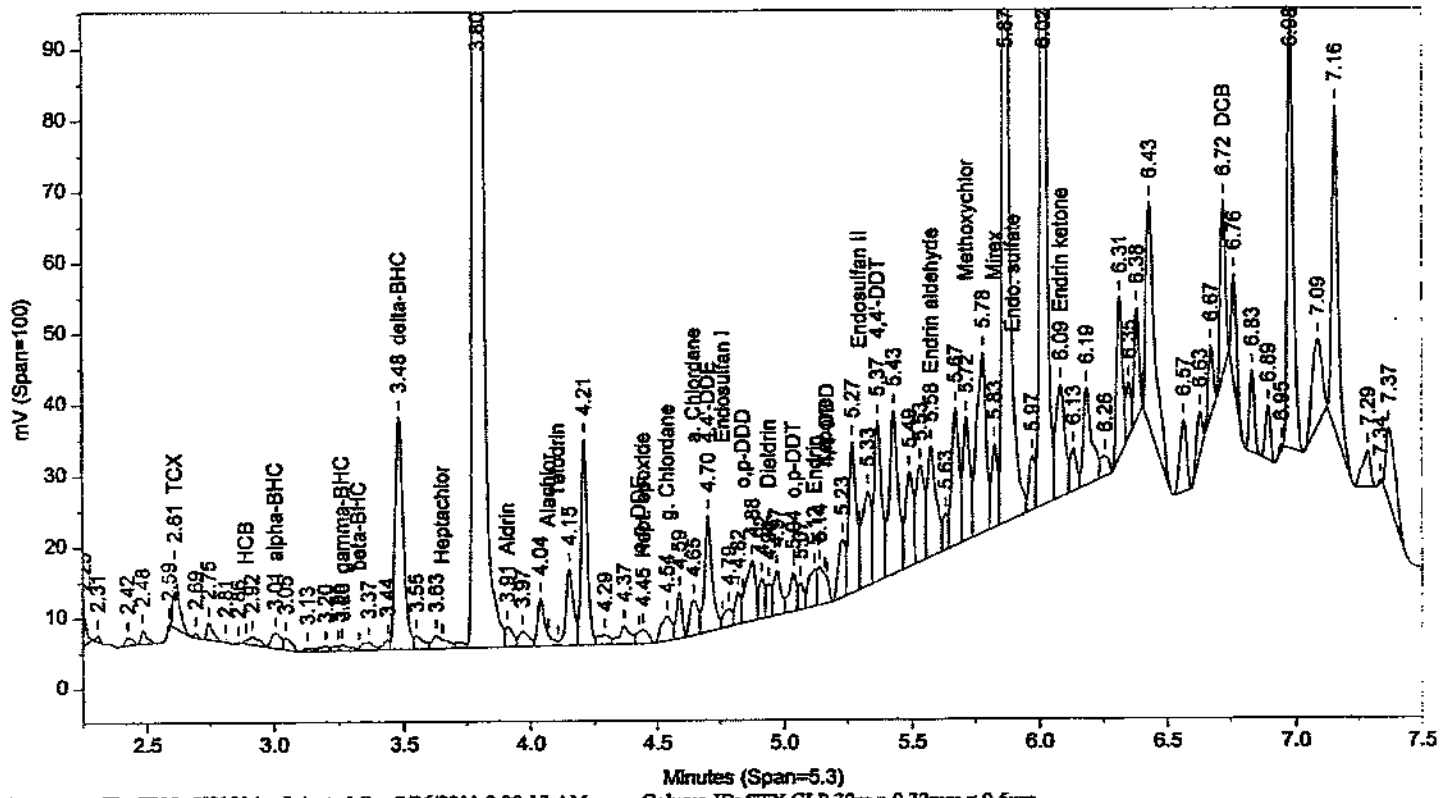

Instrument ID: CP10--H9191A Injected On: 7/26/2011 9:09:13 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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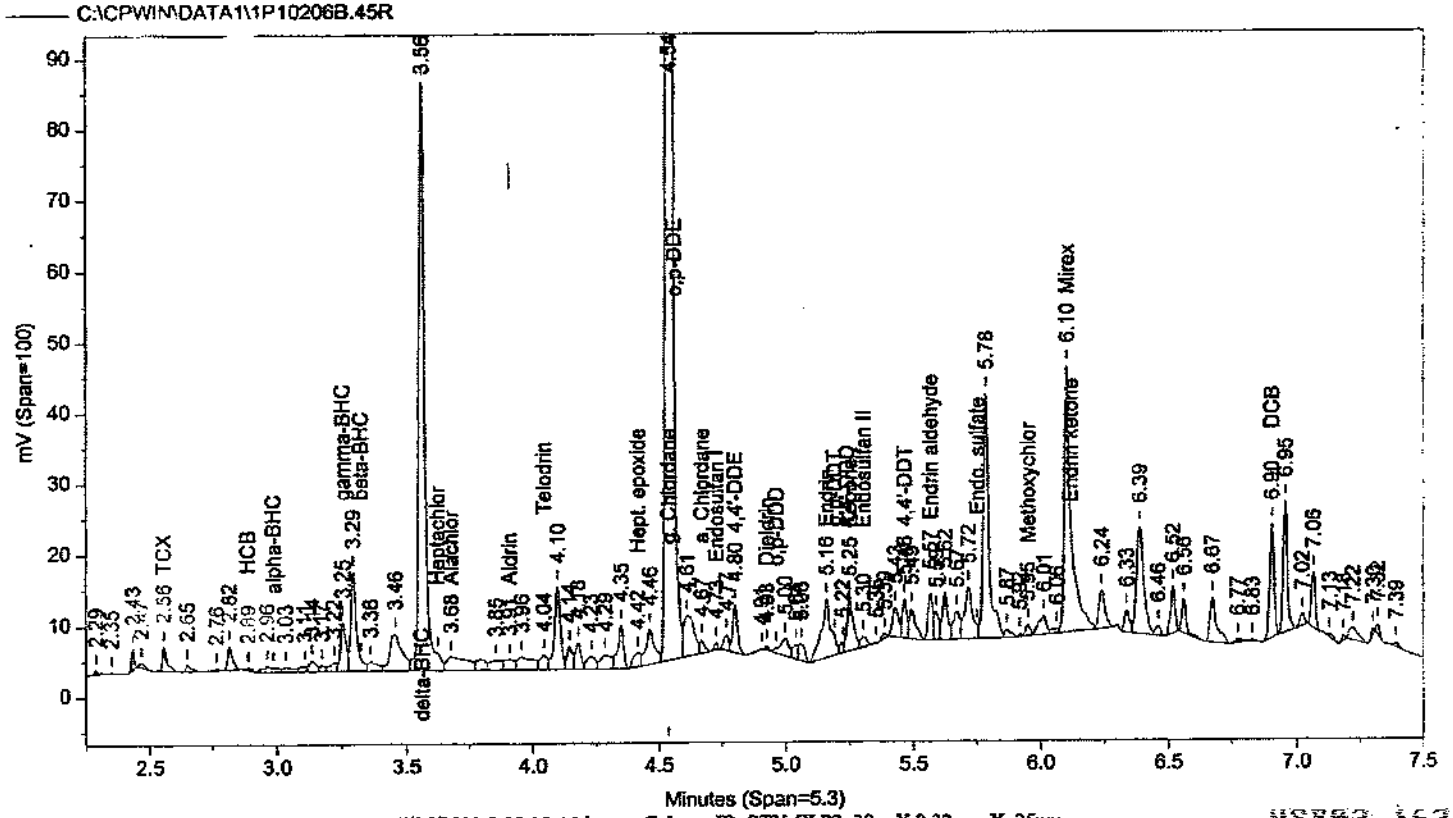

Instrument ID: CP10--H9191B Injected On: 7/26/2011 9:09:13 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.2 Dilution Factor: 40
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.612	8797	1.172	TCX	2.556	3428	1.323	TCX
.	0	.	HCB	2.889	331	.067	HCB
3.008	2129	.201	alpha-BHC	.	0	.	alpha-BHC
3.263	823	.071	gamma-BHC	3.254	6888	1.198	gamma-BHC
3.485	32938	3.075	delta-BHC	3.561	83914	14.97	delta-BHC
.	0	.	Alachlor	3.678	1891	.	Alachlor
3.912	2881	.27	Aldrin	3.91	1438	.312	Aldrin
.	0	.	Telodrin	4.043	1957	.594	Telodrin
4.446	1899	.19	Hept. epoxide	4.417	1941	.47	Hept. epoxide
4.54	3409	.332	g. Chlordane	4.538	542005	122.706	g. Chlordane
4.646	4951	.52	a. Chlordane	4.67	1793	.403	a. Chlordane
4.704	16412	1.832	4,4'-DDE	4.803	6645	1.686	4,4'-DDE
.	0	.	Endosulfan I	4.728	1065	.263	Endosulfan I
4.943	4706	.458	Dieldrin	4.927	617	.143	Dieldrin
5.037	5400	.985	o,p-DDT	.	0	.	o,p-DDT
5.12	5164	.583	Endrin	5.159	8237	2.194	Endrin
.	0	.	Kepone	5.251	7208	6.155	Kepone
.	0	.	Endosulfan II	5.304	1478	.484	Endosulfan II
5.368	22695	3.267	4,4'-DDT	5.465	5598	2.157	4,4'-DDT
5.576	15493	2.308	Endrin aldehyde	5.566	6585	2.601	Endrin aldehyde
5.715	17317	5.091	Methoxychlor	5.949	1567	1.508	Methoxychlor
5.827	11716	1.997	Mirex	6.1	37542	20.817	Mirex
6.086	15757	1.776	Endrin ketone	.	0	.	Endrin ketone
6.722	24564	3.971	DCB	6.902	16151	9.836	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10206.45A
Area File: C:\CPWIN\DATA1\1P10206B.45A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10206.CAL
Calibration File B: C:\CPWIN\DATA1\1P10206B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/26/2011 9:45:58 AM
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10X REPLOTS

USF93 1634

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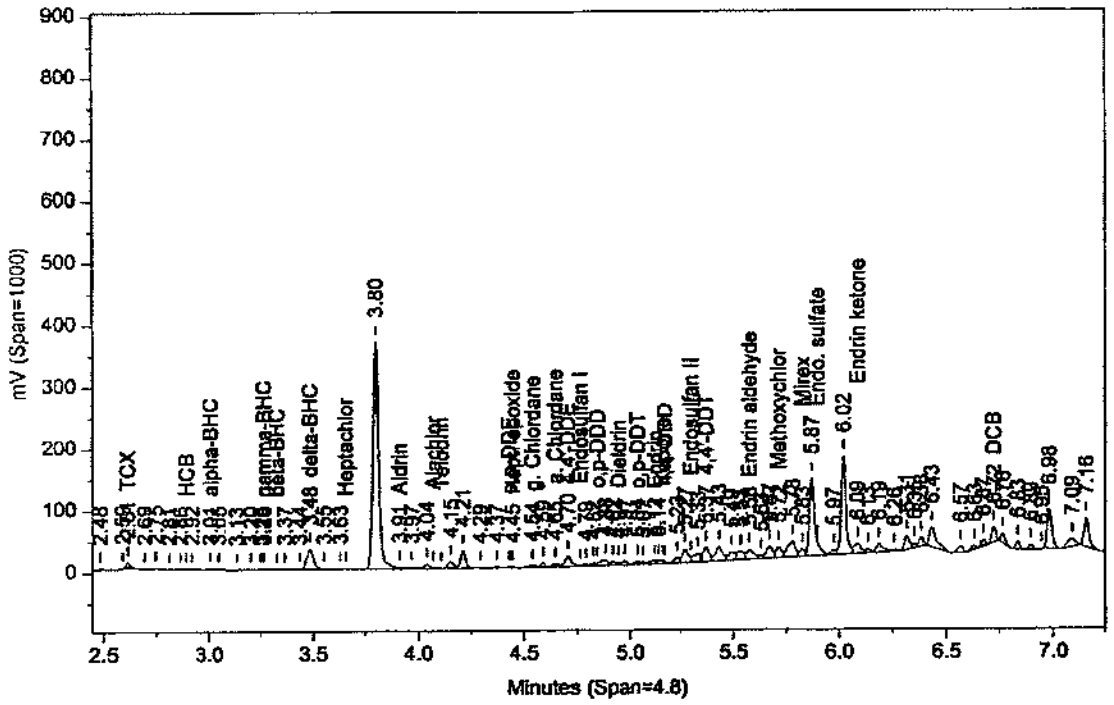

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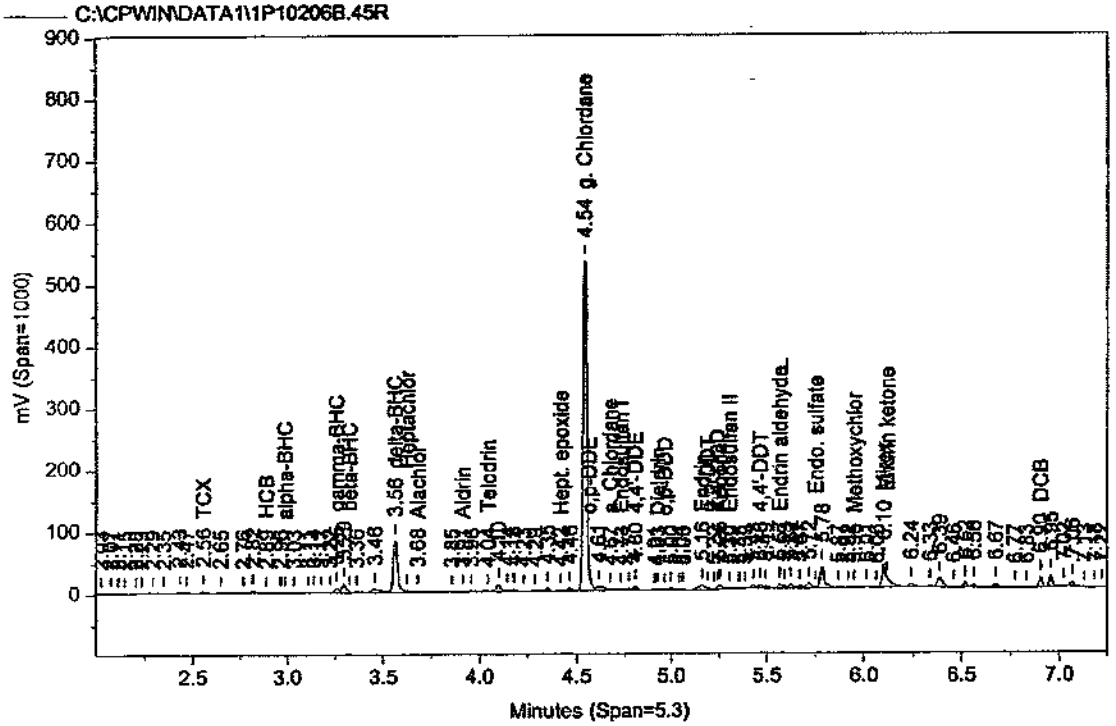


Lancaster Laboratories Single Component Data Summary

Sample Name: 6339388 F EBQ03 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1043 ml Total Volume: 10 ml Analyst: 120 SDG: USF03 State: CA
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06-S9147A
Result file : 3P6193.42R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

%SSR(TCX) : 95.5% (52-141) Conc.: 0.286009
%SSR(DCB) : 93.3% (40-144) Conc.: 0.279628

Peak name	Min	R.T.	Max	Height	Amount
TCX	3.17	3.19	3.22	156785	0.286009
alpha-BHC	3.46	3.47	3.51	19702	0.019135
beta-BHC	3.80	3.83	3.85	230	0.000745
delta-BHC	3.95	3.95	4.01	813	0.001159
Heptachlor	4.04	4.05	4.09	4538	0.006561
Hept. epoxide	4.57	4.60	4.62	191	0.000334
g. Chlordane	4.75	4.76	4.80	137	0.000258
a. Chlordane	4.80	4.83	4.87	80	0.000160
Endosulfan I	4.85	4.87	4.90	184	0.000403
o,p-DDD	5.02	5.06	5.07	59	0.000280
Endosulfan II	5.41	5.44	5.46	516	0.001407
Endrin ketone	6.05	6.08	6.10	79	0.000239
Mirex	6.39	6.43	6.43	352	0.001602
DCB	7.01	7.03	7.06	39230	0.279628

Analysis Report (B)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06-S9147B
Result file : 3P6193B.42R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 89.5% (52-141) Conc.: 0.268068
%SSR(DCB) : 78.1% (40-144) Conc.: 0.234165

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.94	2.95	2.98	245200	0.268068
HCB	3.26	3.28	3.30	269	0.000187
alpha-BHC	3.30	3.32	3.34	42321	0.027957
gamma-BHC	3.51	3.54	3.55	770	0.000565
Heptachlor	3.73	3.77	3.78	7065	0.007073
delta-BHC	3.85	3.85	3.89	676	0.000544
Aldrin	3.92	3.93	3.96	11715	0.012943
g. Chlordane	4.42	4.45	4.47	659	0.000764
a. Chlordane	4.47	4.50	4.51	830	0.001110
Endosulfan I	4.52	4.53	4.56	812	0.001038
4,4'-DDE	4.59	4.59	4.63	517	0.015696
Dieldrin	4.70	4.76	4.76	160	0.000193
Endrin	4.91	4.94	4.96	279	0.000404
Endosulfan II	5.13	5.14	5.18	1062	0.001707
Endrin aldehyde	5.27	5.28	5.32	208	0.000430
Methoxychlor	5.62	5.65	5.67	1027	0.005041
Endrin ketone	5.83	5.87	5.88	1450	0.002249
DCB	6.61	6.63	6.65	85750	0.234165

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	A	0.286009				6.48	
☑ alpha-BHC	B	0.027957	0.0096	0.0029		37.47	
☐ HCB			<0.0096	<0.0029			
☑ gamma-BHC			<0.0096	<0.0019			
☑ beta-BHC			<0.0096	<0.0028			
☑ delta-BHC			<0.0096	<0.0028			
☑ Heptachlor	B	0.007073	<0.0096	0.0025	J	7.51	
☑ Aldrin			<0.0096	<0.0019			
☐ Telodrin			<0.0096	<0.0035			
☑ Hept. epoxide			<0.0096	<0.0022			
☐ o,p-DDE			<0.7191	<0.2397			
☐ g. Chlordane			<0.0192	<0.0024			
☐ a. Chlordane			<0.0096	<0.0019			
☑ Endosulfan I			<0.0096	<0.0041			
☑ 4,4'-DDE			<0.0192	<0.0048			
☐ o,p-DDD			<0.0192	<0.0048			
☑ Dieldrin			<0.0192	<0.0051			
☑ Endrin			<0.0192	<0.0078			
☐ o,p-DDT			<0.0192	<0.0049			
☑ 4,4'-DDD			<0.0192	<0.0048			
☑ Endosulfan II			<0.0192	<0.0144			
☐ Kepone			<0.1918	<0.0671			
☑ Endrin aldehyde			<0.0959	<0.0192			

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/15/2011 13:59:07

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339388 F EBQ03 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1043 ml Total Volume: 10 ml Analyst: 120 SDG: USF03 State: CA
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06--S9147A
Result file : 3P6193.42R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06--S9147B
Result file : 3P6193B.42R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ 4,4'-DDT			<0.0192	<0.0048			
☑ Endo. sulfate			<0.0192	<0.0056			
☑ Methoxychlor			<0.0959	<0.0288			
☑ Endrin ketone			<0.0192	<0.0048			
☑ Mirex			<0.2397	<0.0811			
☐ DCB	A	0.279628				17.70	

Units: ug/l

Reviewed by: Lisa A. Reinart, Chemist
Date: JUL 15 2011

Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 22 2011

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits
Higher Amount Found unless RPD > 40

Printed on: 7/15/2011 13:59:07

Multiple Component Data Summary

Sample Name: 6339388 F EBQ03 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1043 ml Total Volume: 10 ml Analyst: 2306 SDG: USF03 State: CA
Analyses: 00177

Analysis Report (A)

Injected on	Jul 14, 2011 23:29:55
Instrument	S9147A
Result file	3P6193.42R
Calibration file	1P6193
Method file	PESTD

%SSR(TCX)	95.5%	Conc:	0.28600
%SSR(DCB)	93.3%	Conc:	0.27962

Analysis Report (B)

Injected on	Jul 14, 2011 23:29:55
Instrument	S9147B
Result file	3P6193B.42R
Calibration file	1P6193B
Method file	PESTDB

%SSR(TCX)	89.5%	Conc:	0.26806
%SSR(DCB)	78.1%	Conc:	0.23416

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)			<0.4794	<0.1151			4	40	
Toxaphene			<2.8763	<0.9588			4	40	

Units: ug/l

%Difference = High - Low divided by the Average times 100

Reviewed by: Lisa A. Reinert, Chemist
Date: JUL 15 2011

Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 22 2011

USF03 1638

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: 6339388 F EBQ03 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1043 ml Total Volume: 10 ml Analyst: 120 SDG: USF03 State: CA
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06-S9147A
Result file : 3P6193.42R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

%SSR(TCX) : 95.5% (52-141) Conc.: 0.286009
%SSR(DCB) : 93.3% (40-144) Conc.: 0.279628

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	116.74	
+ 3.42	3.43	3.48	1253.343994	0.152355			1
3.42	3.47	3.48	19702.14257!	2.394974			1
3.77	3.78	3.83	7082.805176	0.651578			2
4.07	4.13	4.13	3856.878906	0.434538			4
4.28	4.32	4.34	488.449005	0.064037			6
Height Summation:			31130.275665				
Amount Avg CF:			0.886282	Linear:			
Aroclor-1221					3	84.62	
3.31	3.33	3.37	119.660927	0.029387			1
3.37	3.38	3.43	6731.064941	1.870598			2
+ 3.42	3.43	3.48	1253.343994	0.112865			3
3.42	3.47	3.48	19702.14257!	1.774197			3
Height Summation:			26552.868446				
Amount Avg CF:			1.224727	Linear:			
Aroclor-1232					4	65.49	
+ 3.43	3.43	3.49	1253.343994	0.137562			1
E 3.43	3.47	3.49	19702.14257!	2.162427			1
3.77	3.78	3.83	7082.805176	1.592776			2
4.07	4.13	4.13	3856.878906	1.148229			4
4.28	4.32	4.34	488.449005	0.188493			6
Height Summation:			31130.275665				
Amount Avg CF:			1.272981	Linear:			
Aroclor-1242					4	116.04	
+ 3.43	3.43	3.49	1253.343994	0.196416			1
E 3.43	3.47	3.49	19702.14257!	3.08759			1
3.77	3.78	3.83	7082.805176	0.828298			2
4.07	4.13	4.13	3856.878906	0.582984			4
4.28	4.32	4.34	488.449005	0.086869			6
Height Summation:			31130.275665				
Amount Avg CF:			1.146435	Linear:			
Aroclor-1248					3	63.32	
4.28	4.32	4.34	488.449005	0.041347			2
4.38	4.38	4.44	177.711258	0.01956			3
4.72	4.76	4.78	136.671188	0.011756			4
Height Summation:			802.831451				
Amount Avg CF:			0.024221	Linear:			
Aroclor-1254					3	108.77	
4.55	4.60	4.61	190.524628	0.013436			1
4.72	4.76	4.78	136.671188	0.006914			2
5.43	5.44	5.49	515.969971	0.060857			5
Height Summation:			843.165787				
Amount Avg CF:			0.027069	Linear:			
Aroclor-1260					2	52.35	
5.33	5.33	5.39	200.663773	0.012168			2
5.61	5.64	5.67	62.567184	0.005593			4
Height Summation:			263.230957				
Amount Avg CF:			0.008881	Linear:			
Aroclor-1262					1		
5.61	5.64	5.67	62.567184	0.003251			2
Height Summation:			62.567184				
Amount Avg CF:			0.003251	Linear:			

Analysis Report (B)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06-S9147B
Result file : 3P6193B.42R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 89.5% (52-141) Conc.: 0.268068
%SSR(DCB) : 78.1% (40-144) Conc.: 0.234165

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	121.45	
3.22	3.25	3.28	155.503204	0.010138			1
3.43	3.47	3.49	485.84082	0.022759			2
3.56	3.56	3.62	347.84082	0.017958			3
* 3.77	3.77	3.83	7065.260742	0.329458			5
* 3.73	3.77	3.78	7065.260742	0.158477			4
+ 3.77	3.81	3.83	263.520294	0.012288			5
+ 4.03	4.05	4.09	1194.382935	0.068436			6
4.03	4.07	4.09	1323.640259	0.075843			6
Height Summation:			16443.346587				
Amount Avg CF:			0.102439	Linear:			
Aroclor-1221					4	156.97	
3.10	3.10	3.16	653.338013	0.078344			1
+ 3.10	3.13	3.16	121.678764	0.014591			1
3.10	3.15	3.16	1326.139038	0.159023			1
+ 3.16	3.18	3.22	3610.392334	0.603635			2
3.16	3.21	3.22	7426.98877	1.241746			2
3.22	3.25	3.28	155.503204	0.00748			3
Height Summation:			9561.969025				
Amount Avg CF:			0.371648	Linear:			
Aroclor-1232					6	121.58	
+ 3.22	3.25	3.28	155.503204	0.008873			1
3.22	3.28	3.28	268.820374	0.015339			1
3.44	3.47	3.49	485.84082	0.053248			2
3.56	3.56	3.62	347.84082	0.042018			3
* 3.77	3.77	3.83	7065.260742	0.790107			5
* 3.73	3.77	3.79	7065.260742	0.384427			4
+ 3.77	3.81	3.83	263.520294	0.029469			5
+ 4.03	4.05	4.09	1194.382935	0.176			6
4.03	4.07	4.09	1323.640259	0.195047			6
Height Summation:			16556.663757				
Amount Avg CF:			0.246698	Linear:			
Aroclor-1242					6	120.45	
+ 3.22	3.25	3.28	155.503204	0.012882			1
3.22	3.28	3.28	268.820374	0.022269			1
3.44	3.47	3.49	485.84082	0.029036			2
3.56	3.56	3.62	347.84082	0.023147			3
* 3.77	3.77	3.83	7065.260742	0.429222			5
* 3.73	3.77	3.79	7065.260742	0.204189			4
+ 3.77	3.81	3.83	263.520294	0.016009			5
+ 4.03	4.05	4.09	1194.382935	0.084606			6
4.03	4.07	4.09	1323.640259	0.093762			6
Height Summation:			16556.663757				
Amount Avg CF:			0.133604	Linear:			
Aroclor-1248					5	113.39	
3.88	3.93	3.94	11714.86132!	0.540358			1
+ 4.03	4.05	4.09	1194.382935	0.045394			2
4.03	4.07	4.09	1323.640259	0.050306			2
4.13	4.17	4.19	704.284607	0.035939			3
4.28	4.33	4.34	16373.76855!	0.427607			4
4.43	4.45	4.49	659.086182	0.033213			5
Height Summation:			30775.640931				
Amount Avg CF:			0.217485	Linear:			

USF03 1639

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/15/2011 13:59:20

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: 6339388 F EBQ03 Sample ID: AB **Batchnumber:** 111940013A
Sample Amount: 1043 ml Total Volume: 10 ml Analyst: 120 SDG: USF03 State: CA
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06-S9147A
Result file : 3P6193.42R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					3	83.35	
6.27	6.31	6.33	796.941223	0.030057			2
6.40	6.43	6.46	352.145386	0.013227			3
6.84	6.87	6.90	267.161285	0.004104			6
Height Summation:			1416.247894				
Amount Avg CF:			0.015796	Linear:			
Chlordane					4	151.66	
+ 3.89	3.89	3.96	145.543579	0.005693			1
3.89	3.95	3.96	813.34845	0.031815			1
4.03	4.05	4.10	4537.534668	0.144943			2
4.74	4.76	4.81	136.671188	0.00199			4
4.80	4.83	4.87	80.31765	0.00106			5
Height Summation:			5567.871956				
Amount Avg CF:			0.044952	Linear: CMDL			
Toxaphene					3	104.02	
5.40	5.44	5.47	515.969971	0.054651			2
5.59	5.64	5.66	62.567184	0.006072			3
6.25	6.31	6.32	796.941223	0.149202			6
Height Summation:			1375.478378				
Amount Avg CF:			0.069975	Linear: CMDL			

Analysis Report (B)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06-S9147B
Result file : 3P6193B.42R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					3	141.05	
4.27	4.33	4.34	16373.76855	0.421008			1
4.86	4.88	4.92	199.076889	0.006627			4
5.10	5.14	5.16	1062.227783	0.054518			5
Height Summation:			17635.073227				
Amount Avg CF:			0.160718	Linear:			
Aroclor-1260					5	69.61	
4.78	4.81	4.84	283.013855	0.009027			1
4.93	4.94	4.99	278.94342	0.007376			2
5.05	5.09	5.11	372.03772	0.011705			3
5.61	5.65	5.67	1027.007446	0.016412			5
5.87	5.87	5.93	1450.001709	0.034519			6
Height Summation:			3411.004150				
Amount Avg CF:			0.015808	Linear:			
Aroclor-1262					4	70.69	
5.05	5.09	5.11	372.03772	0.013351			1
5.61	5.65	5.67	1027.007446	0.013791			4
5.87	5.87	5.93	1450.001709	0.02806			5
6.24	6.26	6.30	1226.697876	0.0548			6
Height Summation:			4075.744751				
Amount Avg CF:			0.027501	Linear:			
Aroclor-1268					5	79.88	
+ 5.82	5.82	5.88	1098.694946	0.01305			1
5.82	5.87	5.88	1450.001709	0.017222			1
6.02	6.05	6.08	1748.348022	0.031171			3
6.09	6.15	6.15	1368.648315	0.087795			4
6.24	6.26	6.30	1226.697876	0.048798			5
6.44	6.47	6.50	1732.34021	0.009715			6
Height Summation:			7526.036132				
Amount Avg CF:			0.03894	Linear:			
Chlordane					5	134.98	
3.61	3.63	3.68	15475.23632	0.412947			1
3.72	3.77	3.79	7065.260742	0.158554			2
4.41	4.45	4.48	659.086182	0.006403			4
4.46	4.50	4.53	829.888062	0.01213			5
5.13	5.14	5.20	1062.227783	0.044382			6
Height Summation:			25091.699097				
Amount Avg CF:			0.126883	Linear:			
Toxaphene					6	79.08	
+ 4.88	4.88	4.95	199.076889	0.028192			1
4.88	4.94	4.95	278.94342	0.039503			1
5.28	5.33	5.35	222.739731	0.023123			2
5.35	5.40	5.42	71.737679	0.00346			3
5.55	5.59	5.62	227.233414	0.019125			4
5.63	5.65	5.70	1027.007446	0.078744			5
5.73	5.75	5.80	773.899719	0.030969			6
Height Summation:			2601.561409				
Amount Avg CF:			0.032487	Linear: CMDL			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		** 158.56	4	40	
Aroclor-1221			0	0		** 106.88	3	5	
Aroclor-1232			0	0	E	** 135.07	4	10	
Aroclor-1242			0	0	E	** 158.25	4	30	

USF03 1695

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/15/2011 13:59:20

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: 6339388 F EBQ03 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1043 ml Total Volume: 10 ml Analyst: 120 SDG: USF03 State: CA
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06--S9147A
Result file : 3P6193.42R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 14, 2011 23:29:55
Instrument : CP06--S9147B
Result file : 3P6193B.42R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

Summary Report

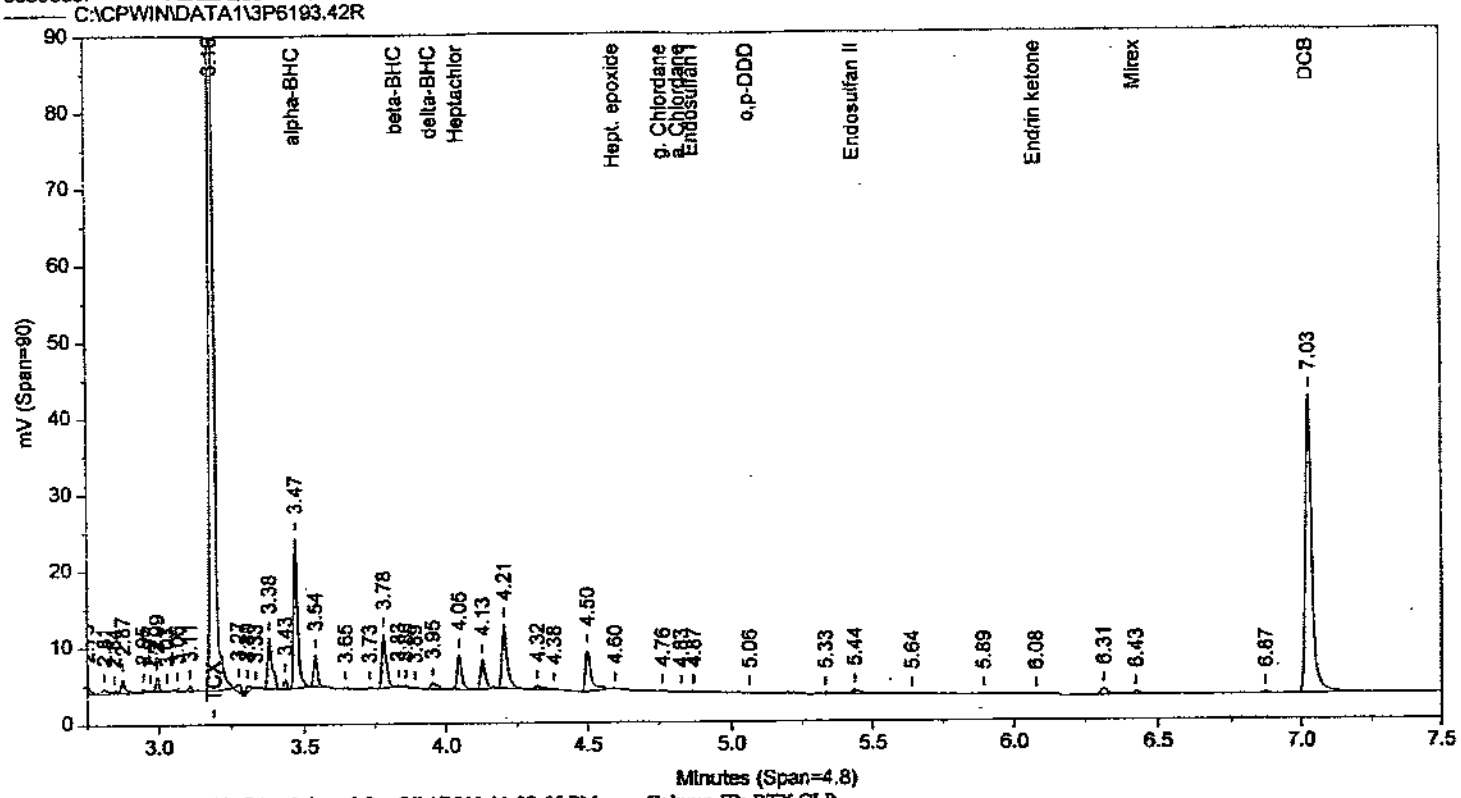
Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1248			0	0		** 159.92	4	30	
Aroclor-1254			0	0		** 142.34	4	40	
Aroclor-1260			0	0		** 56.11	4	40	
Aroclor-1262			0	0		** 157.71	4	40	
Aroclor-1268			0	0		** 84.57	4	40	
Chlordane			0.4794	0.1151		** 95.36	4	40	
Toxaphene			2.8763	0.9588		** 73.17	4	40	

Units: ug/l

USF03 1641

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/15/2011 13:59:20

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.42R
6339388F ABEBQ03 T 111940013A 00177
C:\CPWIN\DATA1\3P6193.42R



Instrument ID: CP06--S9147A Injected On: 7/14/2011 11:29:55 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\3P6193B.42R
6339388F ABEBQ03 T 111940013A 00177
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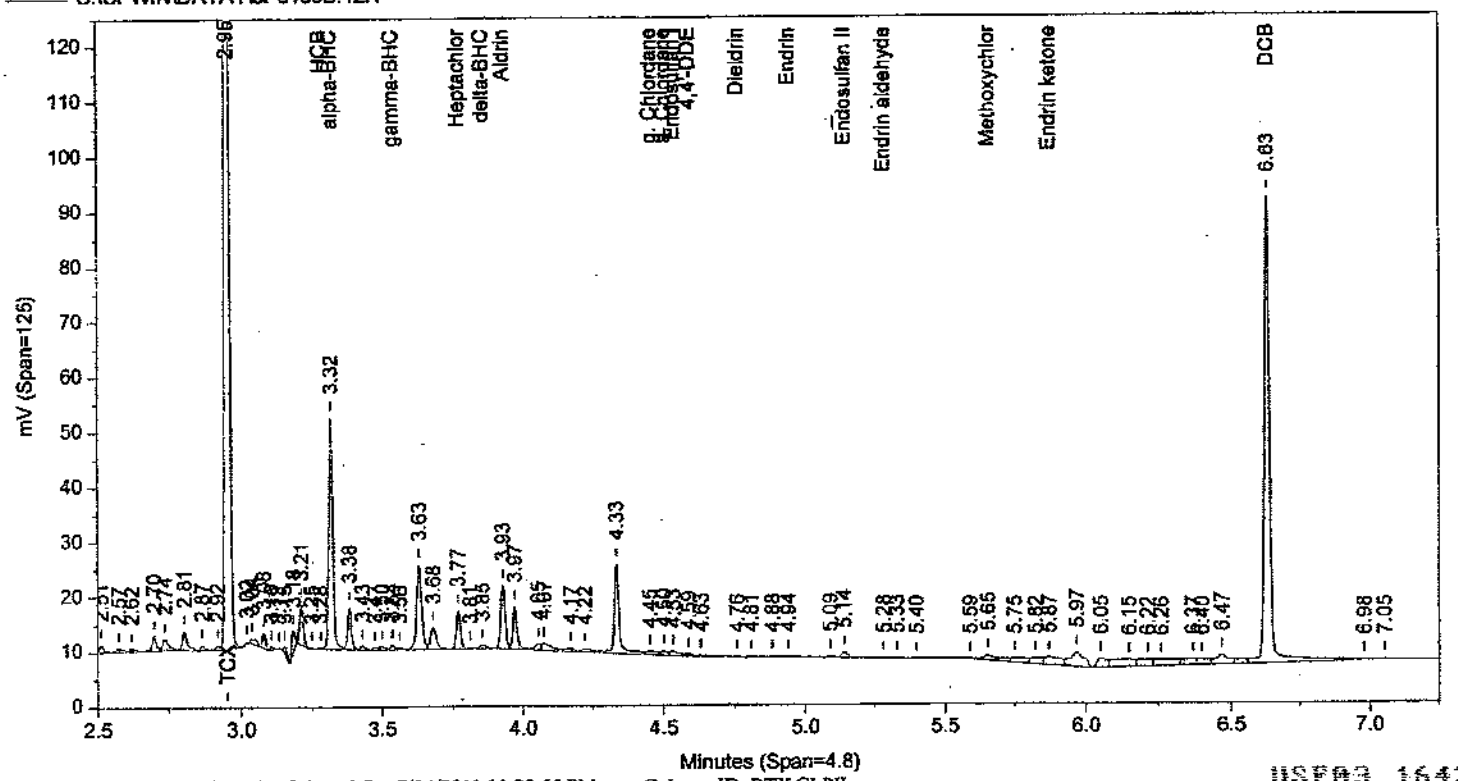

Instrument ID: CP06--S9147B Injected On: 7/14/2011 11:29:55 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Multiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1043 Dilution Factor: 10
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.189	156785	.28601	TCX	2.954	245200	.26807	TCX
.	0	.	HCB	3.279	269	.00019	HCB
3.471	19702	.01913	alpha-BHC	3.317	42321	.02796	alpha-BHC
.	0	.	gamma-BHC	3.536	770	.00056	gamma-BHC
4.047	4538	.00656	Heptachlor	3.767	7065	.00707	Heptachlor
3.834	230	.00074	beta-BHC	.	0	.	beta-BHC
3.954	813	.00116	delta-BHC	3.854	676	.00054	delta-BHC
.	0	.	Aldrin	3.927	11715	.01294	Aldrin
4.764	137	.00026	g. Chlordane	4.452	659	.00076	g. Chlordane
4.828	80	.00016	a. Chlordane	4.501	830	.00111	a. Chlordane
4.872	184	.0004	Endosulfan I	4.534	812	.00104	Endosulfan I
.	0	.	4,4'-DDE	4.587	517	.0157	4,4'-DDE
4.597	191	.00033	Hept. epoxide	.	0	.	Hept. epoxide
.	0	.	Dieldrin	4.756	160	.00019	Dieldrin
.	0	.	Endrin	4.938	279	.0004	Endrin
5.063	59	.00028	o,p-DDD	.	0	.	o,p-DDD
5.437	516	.00141	Endosulfan II	5.139	1062	.00171	Endosulfan II
.	0	.	Endrin aldehyde	5.282	208	.00043	Endrin aldehyde
.	0	.	Methoxychlor	5.653	1027	.00504	Methoxychlor
6.077	79	.00024	Endrin ketone	5.87	1450	.00225	Endrin ketone
6.426	352	.0016	Mirex	.	0	.	Mirex
7.029	39230	.27963	DCB	6.629	85750	.23416	DCB

Files:
Area File: C:\CPWIN\DATA1\3P6193.42A
Area File: C:\CPWIN\DATA1\3P6193B.42A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/14/2011 11:37:32 PM
File Reported On: 7/14/2011 at 11:37:38 PM

REPLOTS

USF03 1643

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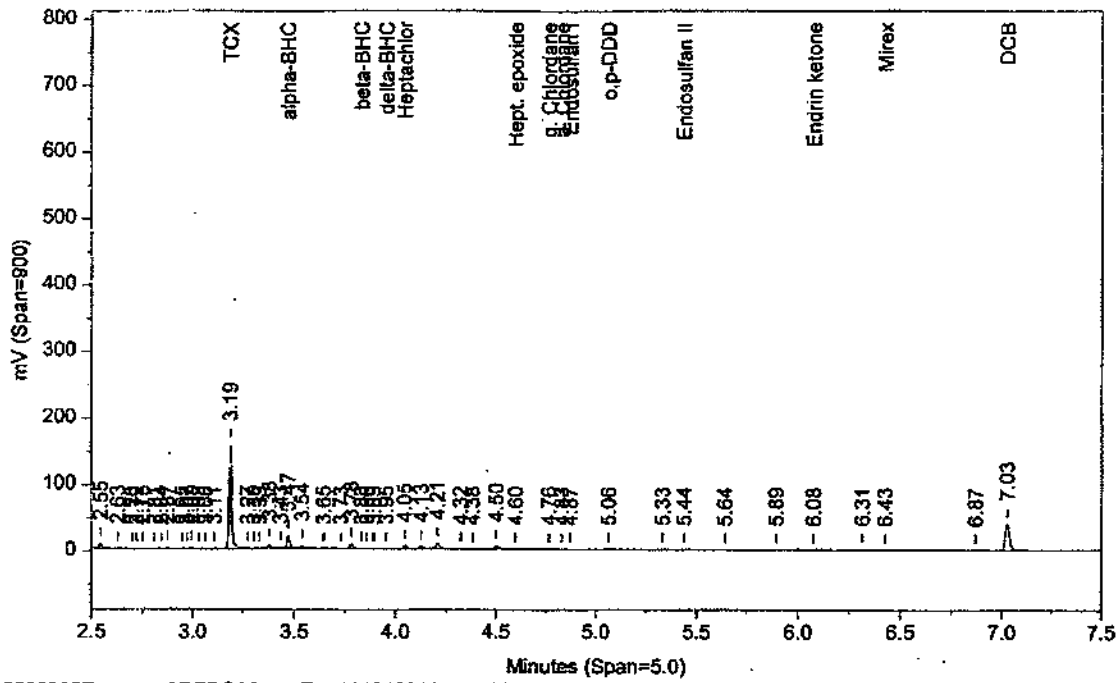

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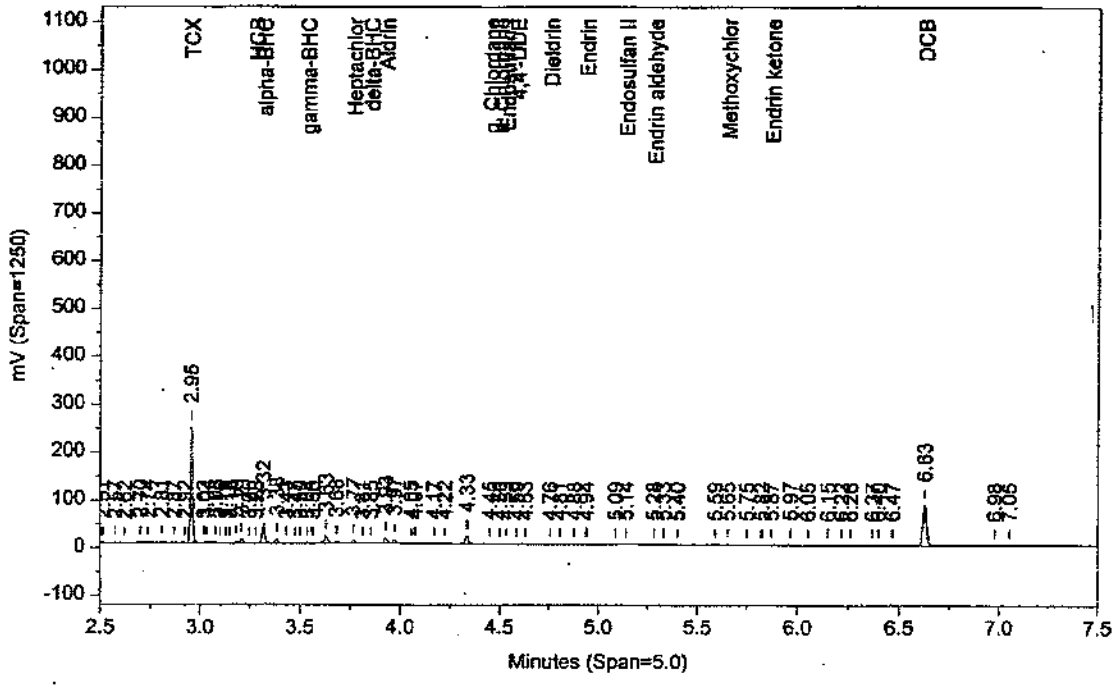

USF83 1544

Standards Data

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\D35PC_CH\C-Drive\CPWIN\DATA1\1p6193.seq
Chromatography Directory: \\D35PC_CH\C-Drive\CPWIN\DATA1
Method Directory: \\D35PC_CH\C-Drive\CPWIN\DATA1
Number of Entries: 98

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1p6193.01R	PESTD.MET	1	1	1	0	1119299999	
2	IBLKX1124A	PIBLK	AA	1p6193.02R	PESTD.MET	1000	10	1	0	1119299999	
3	EVALX1124A	IPEM	AA	1p6193.03R	EVALD.MET	1	1	1	0	1119299999	
4	MIXA11124B	ICAL	AA	1p6193.04R	PESTD.MET	1	1	1	1	1119299999	
5	MIXA21124B	ICAL	AA	1p6193.05R	PESTD.MET	1	1	1	2	1119299999	
6	MIXA31124D	ICAL	AA	1p6193.06R	PESTD.MET	1	1	1	3	1119299999	
7	MIXA41124B	ICAL	AA	1p6193.07R	PESTD.MET	1	1	1	4	1119299999	
8	MIXA51124B	ICAL	AA	1p6193.08R	PESTD.MET	1	1	1	5	1119299999	
9	CMAX1124C	CCAL	JO	1p6193.09R	PESTD.MET	1	1	1	0	1119299999	
10	508AM1124E	CCAL	BU	1p6193.10R	PESTD.MET	1	1	1	0	1119299999	
11	MDLAX1124B	ICAL	AA	1p6193.11R	PESTD.MET	1	1	1	0	1119299999	
12	MIXE11124B	ICAL	AA	1p6193.12R	PESTD.MET	1	1	1	0	1119299999	
13	MIXE21124B	ICAL	AA	1p6193.13R	PESTD.MET	1	1	1	0	1119299999	
14	MIXE31124B	ICAL	AA	1p6193.14R	PESTD.MET	1	1	1	0	1119299999	
15	MIXE41124B	ICAL	AA	1p6193.15R	PESTD.MET	1	1	1	0	1119299999	
16	MIXE51124B	ICAL	AA	1p6193.16R	PESTD.MET	1	1	1	0	1119299999	
17	MDLEX1124B	ICAL	AA	1p6193.17R	PESTD.MET	1	1	1	0	1119299999	
18	TOXA11124A	ICAL	AA	1p6193.18R	PESTDI.MET	1	1	1	0	1119299999	
19	TOXA21124A	ICAL	AA	1p6193.19R	PESTDI.MET	1	1	1	0	1119299999	
20	TOXA31124B	ICAL	AA	1p6193.20R	PESTDI.MET	1	1	1	0	1119299999	
21	TOXA41124A	ICAL	AA	1p6193.21R	PESTDI.MET	1	1	1	0	1119299999	
22	TOXA51124A	ICAL	AA	1p6193.22R	PESTDI.MET	1	1	1	0	1119299999	
23	ICTXX1124A	CCAL	AA	1p6193.23R	PESTD.MET	1	1	1	0	1119299999	
24	CHLD11124A	ICAL	AA	1p6193.24R	PESTDI.MET	1	1	1	0	1119299999	
25	CHLD21124A	ICAL	AA	1p6193.25R	PESTDI.MET	1	1	1	0	1119299999	
26	CHLD31124A	ICAL	AA	1p6193.26R	PESTDI.MET	1	1	1	0	1119299999	
27	CHLD41124A	ICAL	AA	1p6193.27R	PESTDI.MET	1	1	1	0	1119299999	
28	CHLD51124A	ICAL	AA	1p6193.28R	PESTDI.MET	1	1	1	0	1119299999	
29	AR1611124A	ICAL	AA	1p6193.29R	PESTDI.MET	1	1	1	0	1119299999	
30	AR1621124A	ICAL	AA	1p6193.30R	PESTDI.MET	1	1	1	0	1119299999	
31	AR1631124A	ICAL	AA	1p6193.31R	PESTDI.MET	1	1	1	0	1119299999	
32	AR1641124A	ICAL	AA	1p6193.32R	PESTDI.MET	1	1	1	0	1119299999	
33	AR1651124A	ICAL	AA	1p6193.33R	PESTDI.MET	1	1	1	0	1119299999	
34	AR2131124B	ICAL	AA	1p6193.34R	PESTDI.MET	1	1	1	0	1119299999	
35	AR32X1124B	ICAL	AA	1p6193.35R	PESTDI.MET	1	1	1	0	1119299999	
36	AR4231124B	ICAL	AA	1p6193.36R	PESTDI.MET	1	1	1	0	1119299999	
37	AR4831124A	ICAL	AA	1p6193.37R	PESTDI.MET	1	1	1	0	1119299999	
38	AR5431124A	ICAL	AA	1p6193.38R	PESTDI.MET	1	1	1	0	1119299999	
39	AR6231124A	ICAL	AA	1p6193.39R	PESTDI.MET	1	1	1	0	1119299999	
40	AR6831124A	ICAL	AA	1p6193.40R	PESTDI.MET	1	1	1	0	1119299999	
41	MDTXX1124A	ICAL	AA	1p6193.41R	PESTD.MET	1	1	1	0	1119299999	
42	MDCHX1124A	ICAL	AA	1p6193.42R	PESTD.MET	1	1	1	0	1119299999	
43	MD16X1124A	ICAL	AA	1p6193.43R	PESTD.MET	1	1	1	0	1119299999	
44	IC16X1124A	CCAL	JP	1p6193.44R	PESTDI.MET	1	1	1	0	1119299999	
45	BLANKA 7/11/11F	BLK	AB	1p6193.45R	PESTD.MET	1000	10	1	0	111900008A	07572
46	LCSA 7/11/11F	LCS	AB	1p6193.46R	PESTD.MET	1000	10	1	0	111900008A	07572
47	LCSDA 7/11/11F	LCSD	AB	1p6193.47R	PESTD.MET	1000	10	1	0	111900008A	07572
48	6337643F	T	AB	1p6193.48R	PESTD.MET	1033	10	1	0	111900008A	07572
49	6337643F DF5	T	AC	1p6193.49R	PESTD.MET	1033	50	1	0	111900008A	07572
50	6335881F	T	AB	1p6193.50R	PESTD.MET	1020	10	1	0	111900008A	07572

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\D35PC_CH\C-Drive\CPWIN\DATA1\1p6193.seq

Chromatography Directory: \\D35PC_CH\C-Drive\CPWIN\DATA1

Method Directory: \\D35PC_CH\C-Drive\CPWIN\DATA1

Number of Entries: 98

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51	6335882F	T	AB	1p6193.51R	PESTD.MET	1042	10	1	0	111900008A	07572
52	6335883F	T	AB	1p6193.52R	PESTD.MET	1021	10	1	0	111900008A	07572
53	6335884F	T	AB	1p6193.53R	PESTD.MET	1046	10	1	0	111900008A	07572
54	6335885F	T	AB	1p6193.54R	PESTD.MET	1008	10	1	0	111900008A	07572
55	EVALX1124A	PEM	RU	1p6193.55R	EVALD.MET	1	1	1	0	1119299999	
56	MIXA31124D	CCAL	MJ	1p6193.56R	PESTD.MET	1	1	1	0	1119299999	
57	MIXE31124B	CCAL	UD	1p6193.57R	PESTD.MET	1	1	1	0	1119299999	
58	CHLD31124A	CCAL	GW	1p6193.58R	PESTDI.MET	1	1	1	0	1119299999	
59	AR1631124A	CCAL	KS	1p6193.59R	PESTDI.MET	1	1	1	0	1119299999	
60	IBLKX1124A	PIBLK	RO	1p6193.60R	PESTD.MET	1000	10	1	0	1119299999	
61	6337228F	T	AB	1p6193.61R	PESTD.MET	1026	10	1	0	111900008A	07572
62	6337229F	T	AB	1p6193.62R	PESTD.MET	1030	10	1	0	111900008A	07572
63	6337230F	T	AB	1p6193.63R	PESTD.MET	1041	10	1	0	111900008A	07572
64	6338474F	T	AB	1p6193.64R	PESTD.MET	1021	10	1	0	111900008A	07572
65	6338474F DF5	T	AC	1p6193.65R	PESTD.MET	1021	50	1	0	111900008A	07572
66	6338475F	T	AB	1p6193.66R	PESTD.MET	1004	10	1	0	111900008A	07572
67	6338476F	T	AB	1p6193.67R	PESTD.MET	1020	10	1	0	111900008A	07572
68	6338477F	T	AB	1p6193.68R	PESTD.MET	1027	10	1	0	111900008A	07572
69	6338479F	T	AB	1p6193.69R	PESTD.MET	1041	10	1	0	111900008A	07572
70	6338479F DF5	T	AC	1p6193.70R	PESTD.MET	1041	50	1	0	111900008A	07572
71	EVALX1124A	PEM	RV	1p6193.71R	EVALD.MET	1	1	1	0	1119299999	
72	MIXA31124D	CCAL	MK	1p6193.72R	PESTD.MET	1	1	1	0	1119299999	
73	CHLD31124A	CCAL	GX	1p6193.73R	PESTDI.MET	1	1	1	0	1119299999	
74	AR1631124A	CCAL	KT	1p6193.74R	PESTDI.MET	1	1	1	0	1119299999	
75	6338478F	T	AB	1p6193.75R	PESTD.MET	1023	10	1	0	111900008A	07572
76	6337819F	T	AB	1p6193.76R	PESTD.MET	100	10	1	0	111900008A	07572
77	6337819F DF5	T	AC	1p6193.77R	PESTD.MET	100	50	1	0	111900008A	07572
78	BLANKA 7/11/11F	BLK	AB	1p6193.78R	PESTD.MET	1000	2	1	0	111900009A	00177
79	LCSA 7/11/11F	LCS	AB	1p6193.79R	PESTD.MET	1000	10	1	0	111900009A	00177
80	LCSDA 7/11/11F	LCSD	AB	1p6193.80R	PESTD.MET	1000	10	1	0	111900009A	00177
81	6332669RF	T	AB	1p6193.81R	PESTD.MET	1019	10	1	0	111900009A	00177
82	6332669RF DF5	T	AC	1p6193.82R	PESTD.MET	1019	50	1	0	111900009A	00177
83	6332669RF DF20	T	AD	1p6193.83R	PESTD.MET	1019	200	1	0	111900009A	00177
84	EVALX1124A	PEM	RW	1p6193.84R	EVALD.MET	1	1	1	0	1119299999	
85	MIXA31124D	CCAL	ML	1p6193.85R	PESTD.MET	1	1	1	0	1119299999	
86	TOXA31124B	CCAL	EW	1p6193.86R	PESTDI.MET	1	1	1	0	1119299999	
87	CHLD31124A	CCAL	GY	1p6193.87R	PESTDI.MET	1	1	1	0	1119299999	
88	AR1631124A	CCAL	KU	1p6193.88R	PESTDI.MET	1	1	1	0	1119299999	
89	6333811RF	T	AB	1p6193.89R	PESTD.MET	997	2	1	0	111900009A	00177
90	6333812RF	T	AB	1p6193.90R	PESTD.MET	1034	2	1	0	111900009A	00177
91	6333812RF DF10	T	AD	1p6193.91R	PESTD.MET	1034	20	1	0	111900009A	00177
92	6333812RF DF25	T	AC	1p6193.92R	PESTD.MET	1034	50	1	0	111900009A	00177
93	6333812RF DF125	T	AE	1p6193.93R	PESTD.MET	1034	250	1	0	111900009A	00177
94	6337222F	T	AB	1p6193.94R	PESTD.MET	1046	10	1	0	111900009A	00177
95	6338269F	T	AB	1p6193.95R	PESTD.MET	1043	10	1	0	111900009A	00177
96	EVALX1124A	PEM	RX	1p6193.96R	EVALD.MET	1	1	1	0	1119299999	
97	MIXA31124D	CCAL	MI	1p6193.97R	PESTD.MET	1	1	1	0	1119299999	
98	TOXA31124B	CCAL	EX	1p6193.98R	PESTDI.MET	1	1	1	0	1119299999	

USF83 1647

Set-up by: _____ Date: 7/12/11

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\D35PC_CH\C-Drive\CPWIN\DATA1\3p6193.seq

Chromatography Directory: \\D35PC_CH\C-Drive\CPWIN\DATA1

Method Directory: \\D35PC_CH\C-Drive\CPWIN\DATA1

Number of Entries: 49

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1	CONDITIONER	MISC	AA	3p6193.01R	PESTD.MET	1	1	1	0	1119499999	
2	CONDITIONER	MISC	AA	3p6193.02R	PESTD.MET	1	1	1	0	1119499999	
3	CONDITIONER	MISC	AA	3p6193.03R	PESTD.MET	1	1	1	0	1119499999	
4	EVALX1124A	PEM	SD	3p6193.04R	EVALD.MET	1	1	1	0	1119499999	
5	MIXA31124D	CCAL	MS	3p6193.05R	PESTD.MET	1	1	1	0	1119499999	
6	CONDITIONER	MISC	AA	3p6193.06R	PESTD.MET	1	1	1	0	1119499999	
7	BLANKA 7/14/11	BLK	AA	3p6193.07R	PESTD.MET	200	10	1	0	111940021A	00950
8	LCSA 7/14/11	LCS	AA	3p6193.08R	PESTD.MET	200	10	1	0	111940021A	00950
9	6337487	T	AA	3p6193.09R	PESTD.MET	200	10	1	0	111940021A	00950
10	6338382	T	AA	3p6193.10R	PESTD.MET	200	10	1	0	111940021A	00950
11	6338382DF2	T	AB	3p6193.11R	PESTD.MET	200	20	1	0	111940021A	00950
12	6340120	T	AA	3p6193.12R	PESTD.MET	200	10	1	0	111940021A	00950
13	6337542	T	AA	3p6193.13R	PESTD.MET	200	10	1	0	111940021A	00950
14	6337542MS	MS	AA	3p6193.14R	PESTD.MET	200	10	1	0	111940021A	00950
15	6337542MSD	MSD	AA	3p6193.15R	PESTD.MET	200	10	1	0	111940021A	00950
16	6337549	T	AA	3p6193.16R	PESTD.MET	200	10	1	0	111940021A	00950
17	6337556	T	AA	3p6193.17R	PESTD.MET	200	10	1	0	111940021A	00950
18	6337563	T	AA	3p6193.18R	PESTD.MET	200	10	1	0	111940021A	00950
19	6339123	T	AA	3p6193.19R	PESTD.MET	200	10	1	0	111940021A	00950
20	6339130	T	AA	3p6193.20R	PESTD.MET	200	10	1	0	111940021A	00950
21	6339137	T	AA	3p6193.21R	PESTD.MET	200	10	1	0	111940021A	00950
22	6339144	T	AA	3p6193.22R	PESTD.MET	200	10	1	0	111940021A	00950
23	6339151	T	AA	3p6193.23R	PESTD.MET	200	10	1	0	111940021A	00950
24	6339157	T	AA	3p6193.24R	PESTD.MET	200	10	1	0	111940021A	00950
25	6339163	T	AA	3p6193.25R	PESTD.MET	200	10	1	0	111940021A	00950
26	EVALX1124A	PEM	SE	3p6193.26R	EVALD.MET	1	1	1	0	1119499999	
27	MIXA31124D	CCAL	MX	3p6193.27R	PESTD.MET	1	1	1	0	1119499999	
28	AR1631124A	CCAL	LL	3p6193.28R	PESTDI.MET	1	1	1	0	1119499999	
29	6339169	T	AA	3p6193.29R	PESTD.MET	200	10	1	0	111940021A	00950
30	BLANKA 7/13/11F	BLK	AB	3p6193.30R	PESTD.MET	1000	10	1	0	111940012A	07572
31	LCSA 7/13/11F	LCS	AB	3p6193.31R	PESTD.MET	1000	10	1	0	111940012A	07572
32	LCSDA 7/13/11F	LCSD	AB	3p6193.32R	PESTD.MET	1000	10	1	0	111940012A	07572
33	6340038F	T	AB	3p6193.33R	PESTD.MET	1050	10	1	0	111940012A	07572
34	6341647F	T	AB	3p6193.34R	PESTD.MET	1044	10	1	0	111940012A	07572
35	EVALX1124A	PEM	SF	3p6193.35R	EVALD.MET	1	1	1	0	1119499999	
36	MIXA31124D	CCAL	MV	3p6193.36R	PESTD.MET	1	1	1	0	1119499999	
37	MIXE31124B	CCAL	UJ	3p6193.37R	PESTD.MET	1	1	1	0	1119499999	
38	AR1631124A	CCAL	LM	3p6193.38R	PESTDI.MET	1	1	1	0	1119499999	
39	BLANKA 7/13/11F	BLK	AB	3p6193.39R	PESTD.MET	1000	10	1	0	111940013A	00177
40	LCSA 7/13/11F	LCS	AB	3p6193.40R	PESTD.MET	1000	10	1	0	111940013A	00177
41	LCSDA 7/13/11F	LCSD	AB	3p6193.41R	PESTD.MET	1000	10	1	0	111940013A	00177
42	6339388F	T	AB	3p6193.42R	PESTD.MET	1043	10	1	0	111940013A	00177
43	6340962F	T	AB	3p6193.43R	PESTD.MET	1047	10	1	0	111940013A	00177
44	6340963F	T	AB	3p6193.44R	PESTD.MET	1047	10	1	0	111940013A	00177
45	6333812RF DF250	T	AF	3p6193.45R	PESTD.MET	1034	500	1	0	111900009A	00177
46	6333812RF DF625	T	AG	3p6193.46R	PESTD.MET	1034	1250	1	0	111900009A	00177
47	EVALX1124A	PEM	SG	3p6193.47R	EVALD.MET	1	1	1	0	1119499999	
48	MIXA31124D	CCAL	MY	3p6193.48R	PESTD.MET	1	1	1	0	1119499999	
49	MIXE31124B	CCAL	UK	3p6193.49R	PESTD.MET	1	1	1	0	1119499999	

USF03 2649

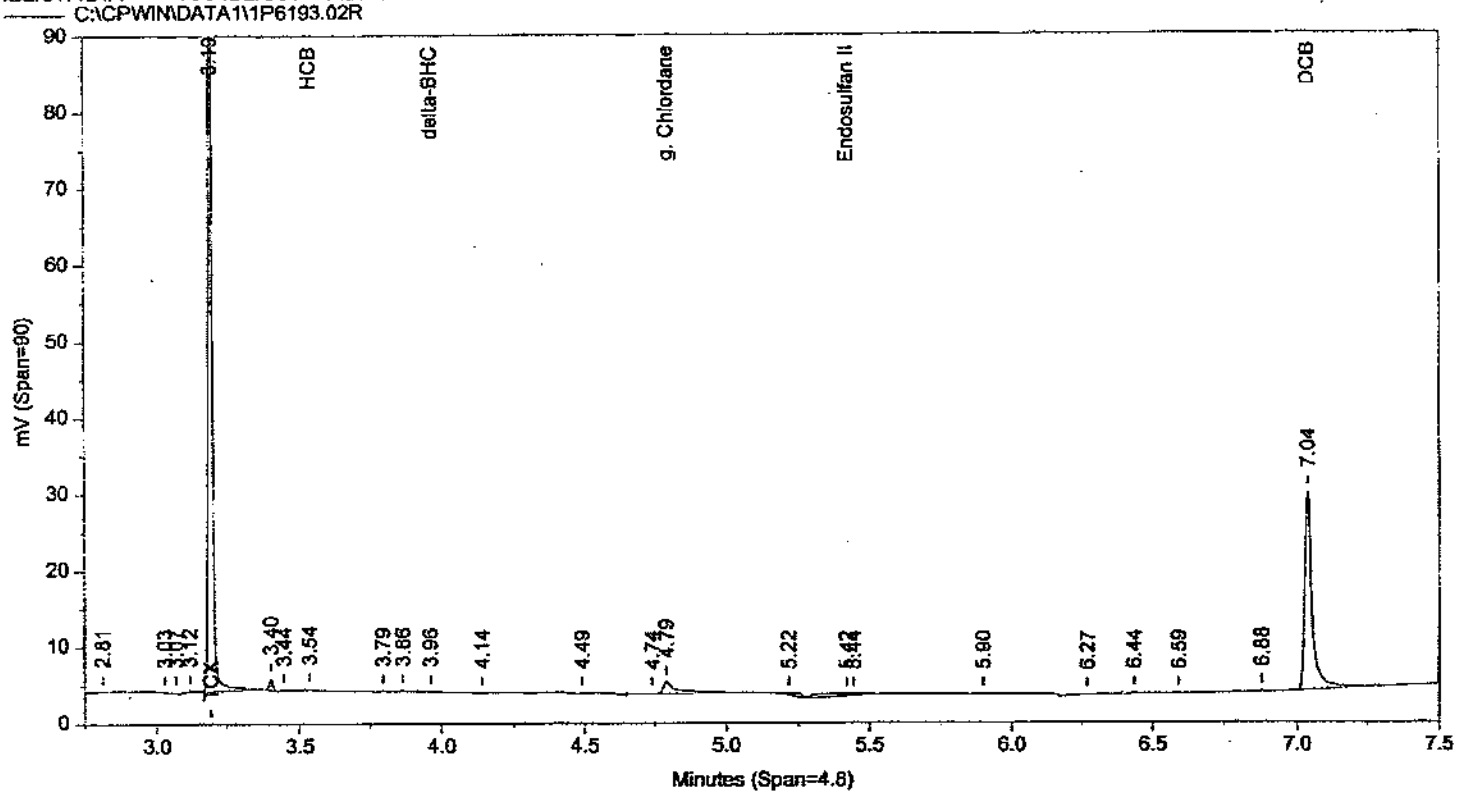
Set-up by: _____ Date: 7/14/11

7/14/2011

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.02R

IBLKX1124A AAPIBLKAA PIBLK1119299999

C:\CPWIN\DATA1\1P6193.02R

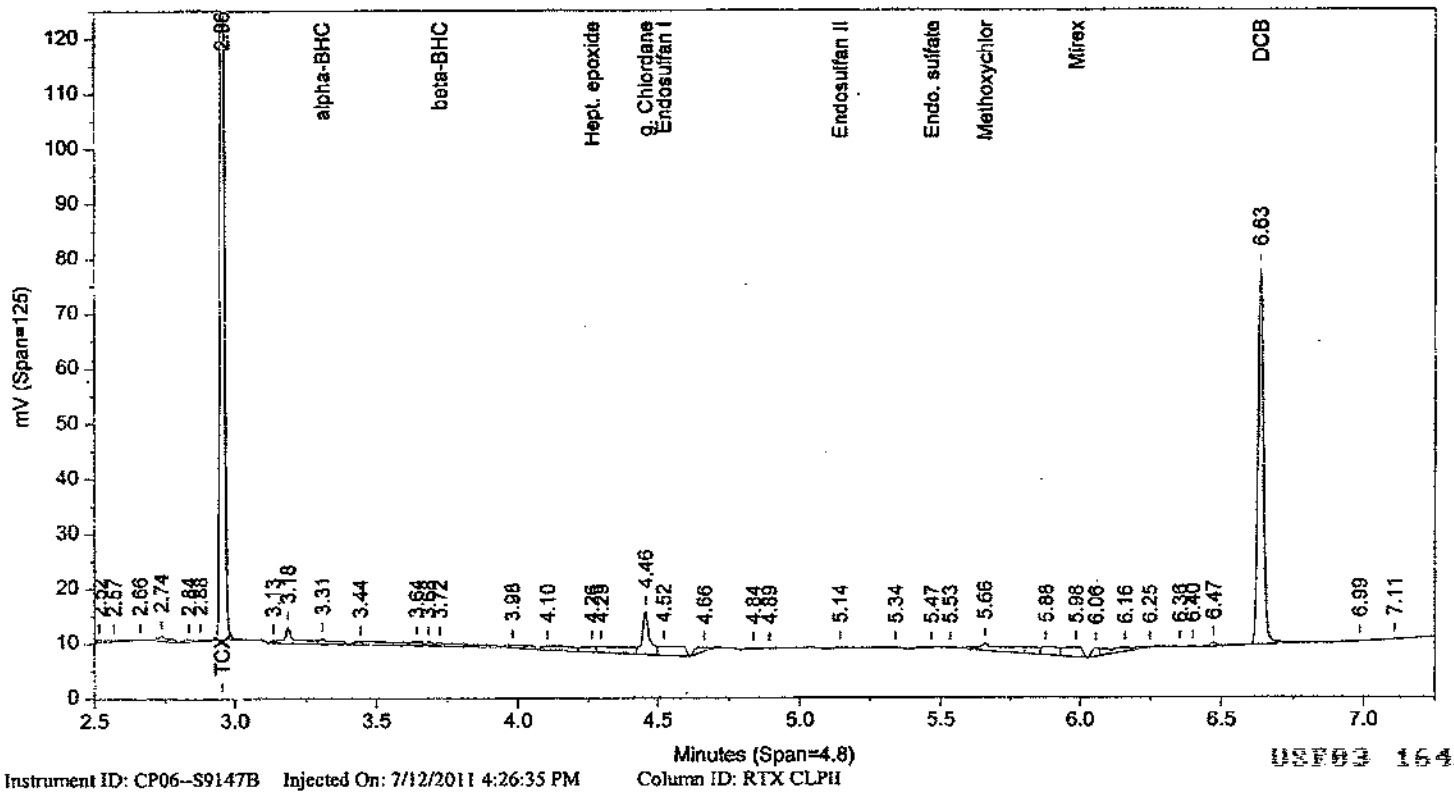


Instrument ID: CP06--S9147A Injected On: 7/12/2011 4:26:35 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.02R

IBLKX1124A AAPIBLKAA PIBLK1119299999

C:\CPWIN\DATA1\1P6193B.02R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 4:26:35 PM Column ID: RTX CLPH

USEPA 1649

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Middle Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1000 Dilution Factor: 10
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.193	118361	.2252	TCX	2.956	197336	.22502	TCX
.	0	.	alpha-BHC	3.307	973	.00067	alpha-BHC
3.535	250	.00042	HCB	.	0	.	HCB
.	0	.	beta-BHC	3.724	646	.00122	beta-BHC
3.961	103	.00015	delta-BHC	.	0	.	delta-BHC
.	0	.	Hept. epoxide	4.263	995	.00117	Hept. epoxide
4.791	1618	.00319	g. Chlordane	4.455	7846	.00949	g. Chlordane
.	0	.	Endosulfan I	4.521	1648	.0022	Endosulfan I
5.42	291	.00083	Endosulfan II	5.143	306	.00051	Endosulfan II
.	0	.	Endo. sulfate	5.467	21	.00004	Endo. sulfate
.	0	.	Methoxychlor	5.657	1258	.00644	Methoxychlor
.	0	.	Mirex	5.984	1816	.00462	Mirex
7.039	26074	.19385	DCB	6.634	68478	.19504	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.02A
Area File: C:\CPWIN\DATA1\1P6193B.02A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:57:40 PM
File Reported On: 7/12/2011 at 7:57:47 PM

REPLOTS

USF03 1658

IBLKX1124A AAPIBLKAA PIBLK1119299999
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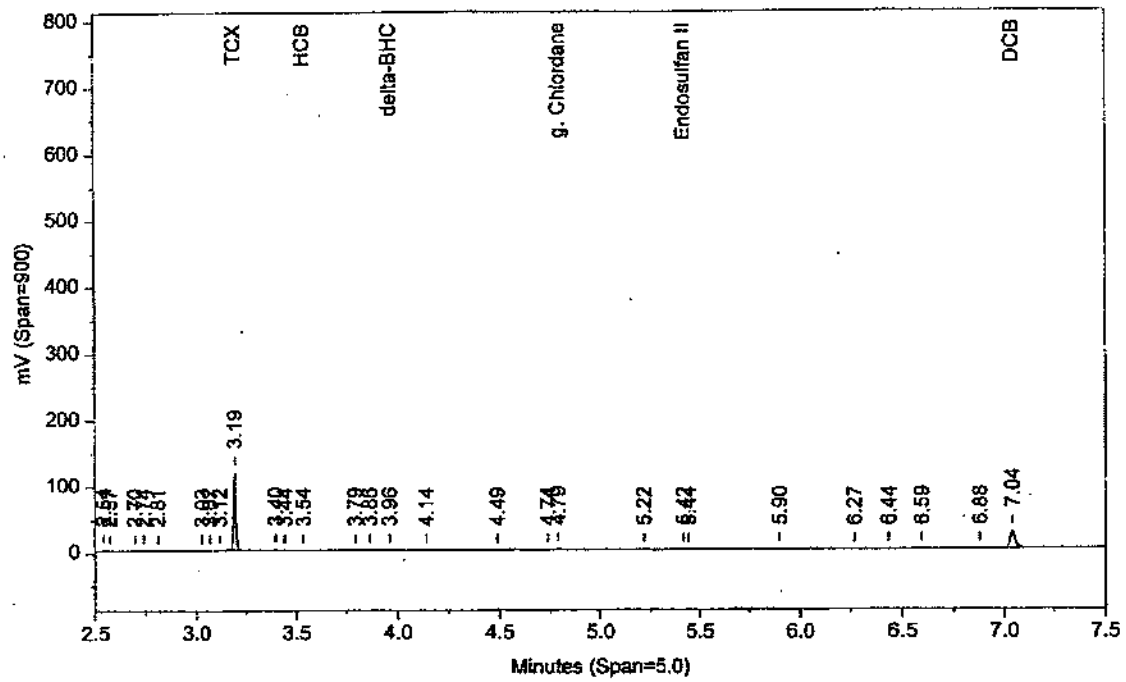

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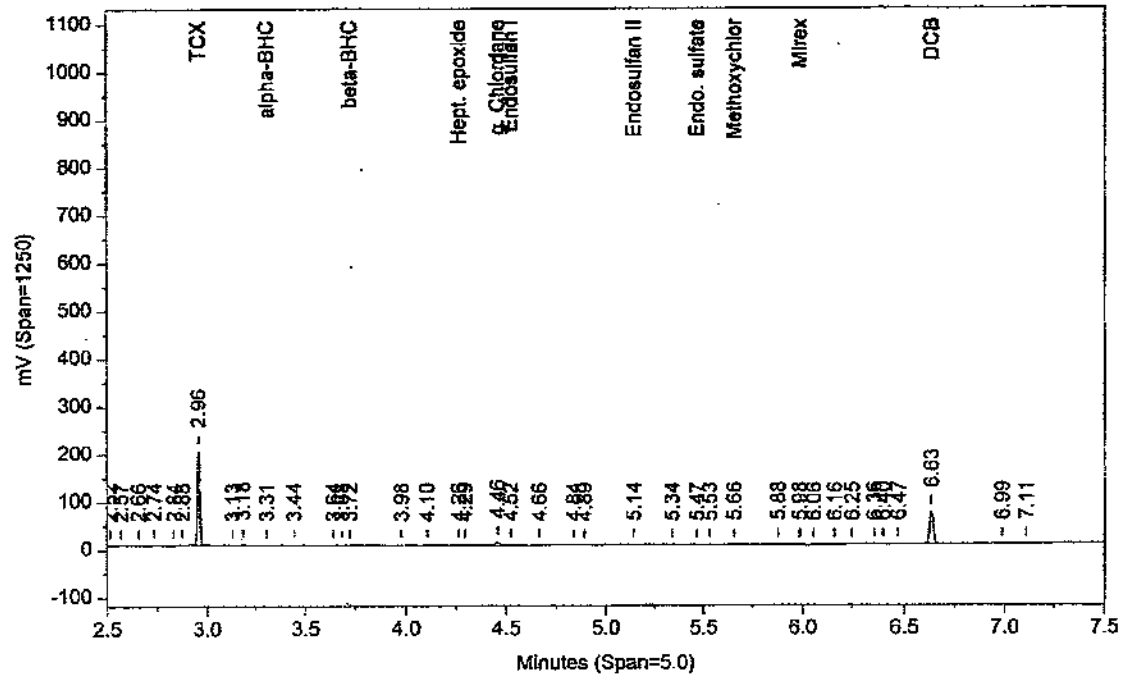
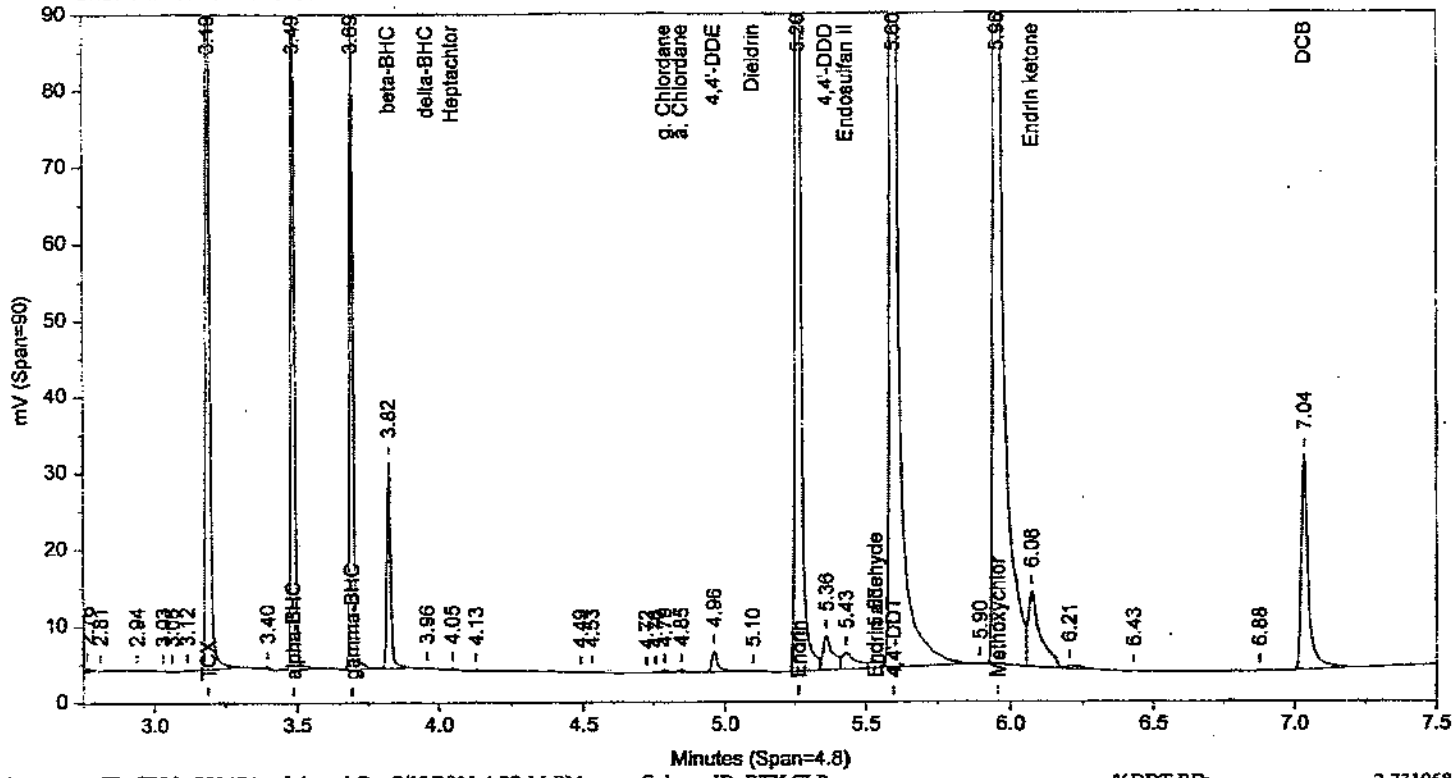


USF03 1651

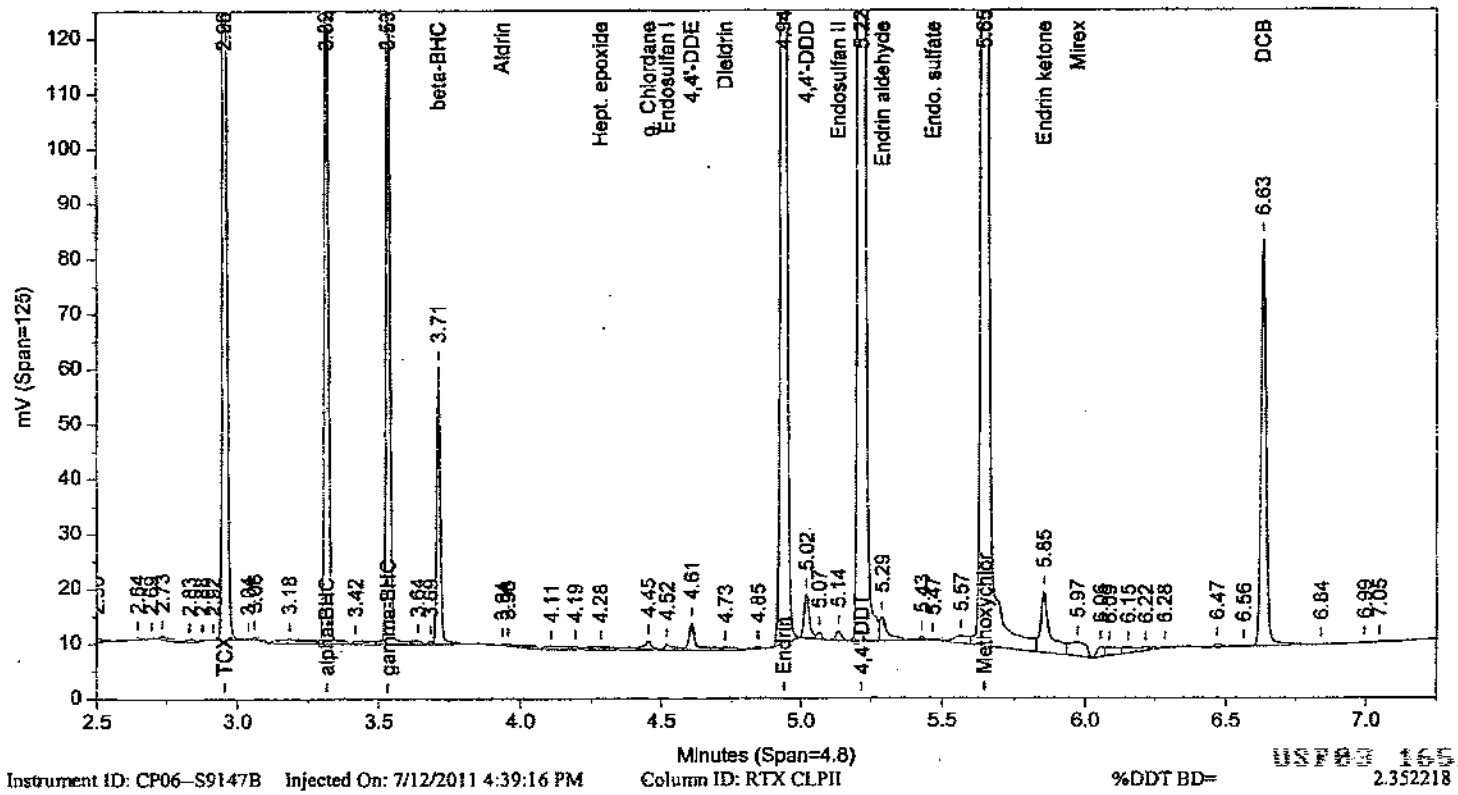
LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.03R
EVALX1124A AAPEMAA IPEM 1119299999
C:\CPWIN\DATA1\1P6193.03R



Instrument ID: CP06–S9147A Injected On: 7/12/2011 4:39:16 PM Column ID: RTX CLP
%DDT BD= 2.731958
%ENDRIN BD= 6.424778

File: C:\CPWIN\DATA1\1P6193B.03R

EVALX1124A AAPEMAA IPEM 1119299999
C:\CPWIN\DATA1\1P6193B.03R



Instrument ID: CP06–S9147B Injected On: 7/12/2011 4:39:16 PM Column ID: RTX CLPII
%DDT BD= 2.352218
%ENDRIN BD= 4.646895

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.191	117597	22.374	TCX	2.956	192338	21.932	TCX
3.487	103153	10.449	alpha-BHC	3.315	147015	10.129	alpha-BHC
3.694	90651	10.839	gamma-BHC	3.533	136604	10.451	gamma-BHC
3.822	27743	9.37	beta-BHC	3.713	50558	9.525	beta-BHC
.	0	.	Aldrin	3.937	233	.027	Aldrin
3.958	117	.017	delta-BHC	.	0	.	delta-BHC
4.046	290	.044	Heptachlor	.	0	.	Heptachlor
.	0	.	Hept. epoxide	4.282	557	.065	Hept. epoxide
4.789	311	.061	g. Chlordane	4.454	1636	.198	g. Chlordane
.	0	.	Endosulfan I	4.521	1001	.133	Endosulfan I
4.962	2805	.829	4,4'-DDE	4.607	4876	2.19	4,4'-DDE
5.1	118	.024	Dieldrin	4.727	534	.067	Dieldrin
4.847	342	.071	a. Chlordane	.	0	.	a. Chlordane
5.263	177591	43.099	Endrin	4.938	316750	47.9	Endrin
5.362	4559	1.963	4,4'-DDD	5.02	7907	1.448	4,4'-DDD
5.433	2189	.623	Endosulfan II	5.135	1636	.274	Endosulfan II
5.599	262179	90.991	4,4'-DDT	5.217	530662	97.694	4,4'-DDT
5.534	2266	.917	Endrin aldehyde	5.29	4354	.94	Endrin aldehyde
.	0	.	Endo. sulfate	5.468	163	.033	Endo. sulfate
5.957	231357	245.255	Methoxychlor	5.647	418312	214.15	Methoxychlor
6.075	9928	3.131	Endrin ketone	5.855	11082	1.793	Endrin ketone
.	0	.	Mirex	5.972	2576	.655	Mirex
7.037	28121	20.907	DCB	6.633	74119	21.111	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.03A
Area File: C:\CPWIN\DATA1\1P6193B.03A
Method A: C:\CPWIN\DATA1\EVALD.MET
Method B: C:\CPWIN\DATA1\EVALDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\EVALD.FMTA
Format B: C:\CPWIN\DATA1\EVALD.FMTB
Area File Created On: 7/12/2011 7:58:00 PM
File Reported On: 7/12/2011 at 7:58:08 PM

REPLOTS

USF03 1653

EVALX1124A AAPEMAA IPEM 1119299999
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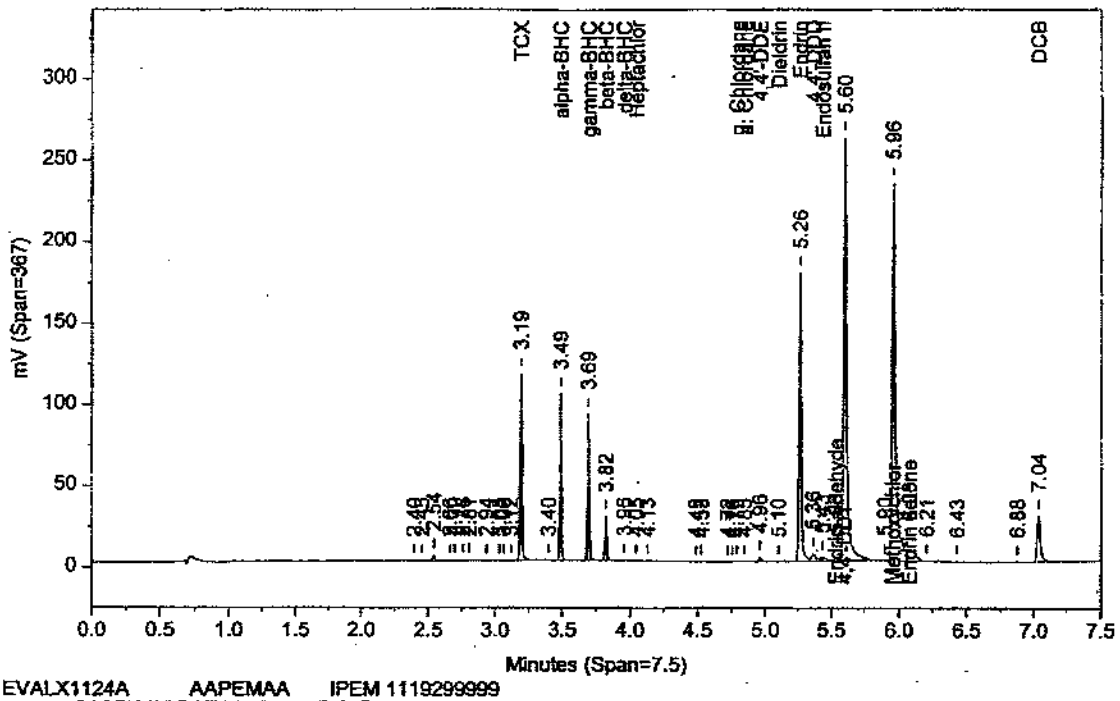
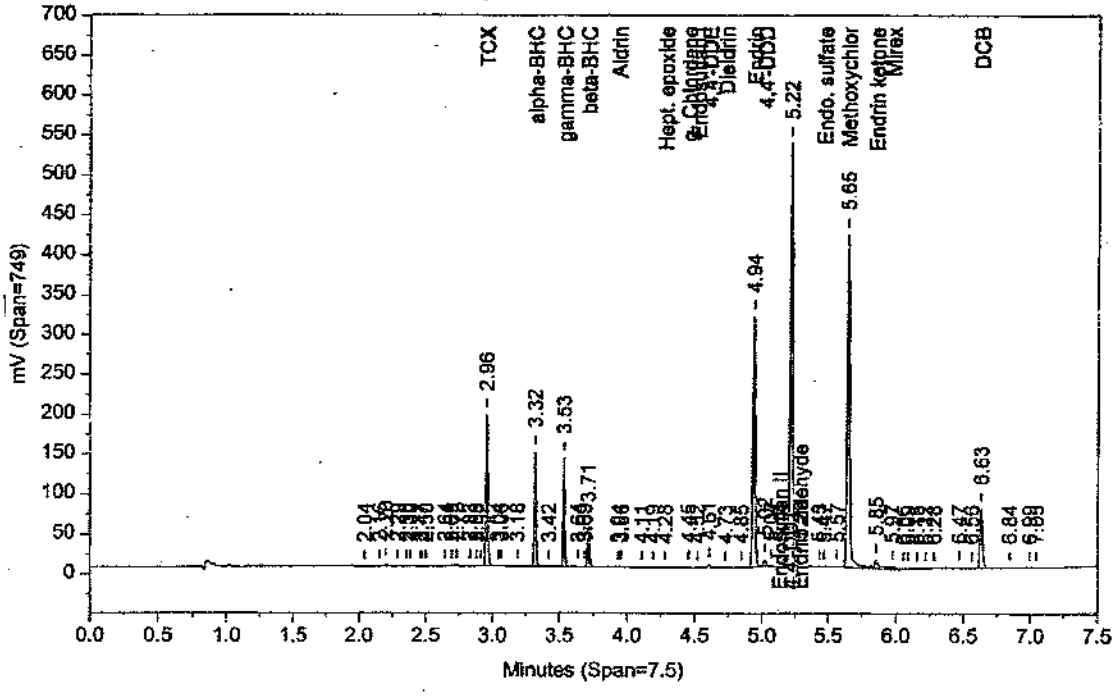
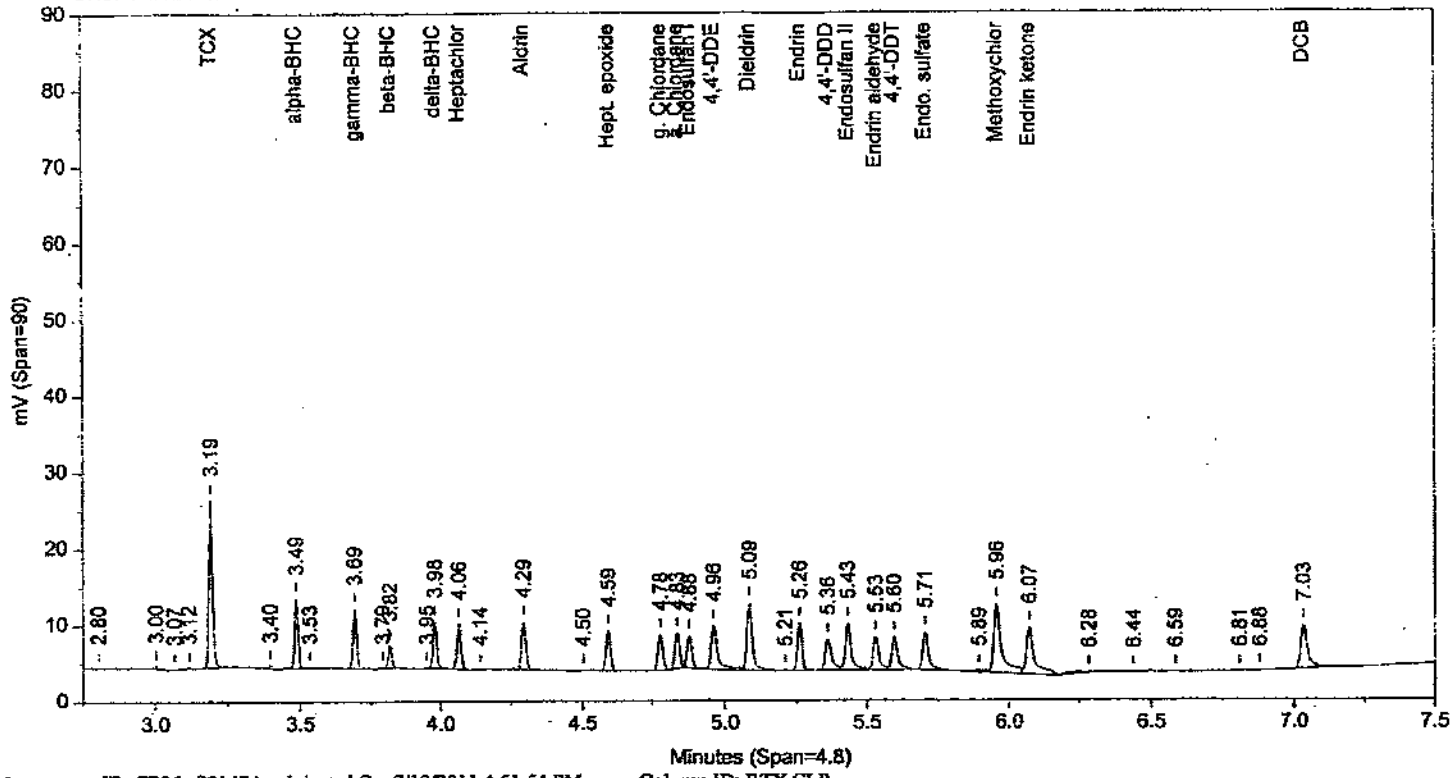


EVALX1124A AAPEMAA IPEM 1119299999
C:\CPWIN\DATA1\1P6193B.03R



USF03 1654

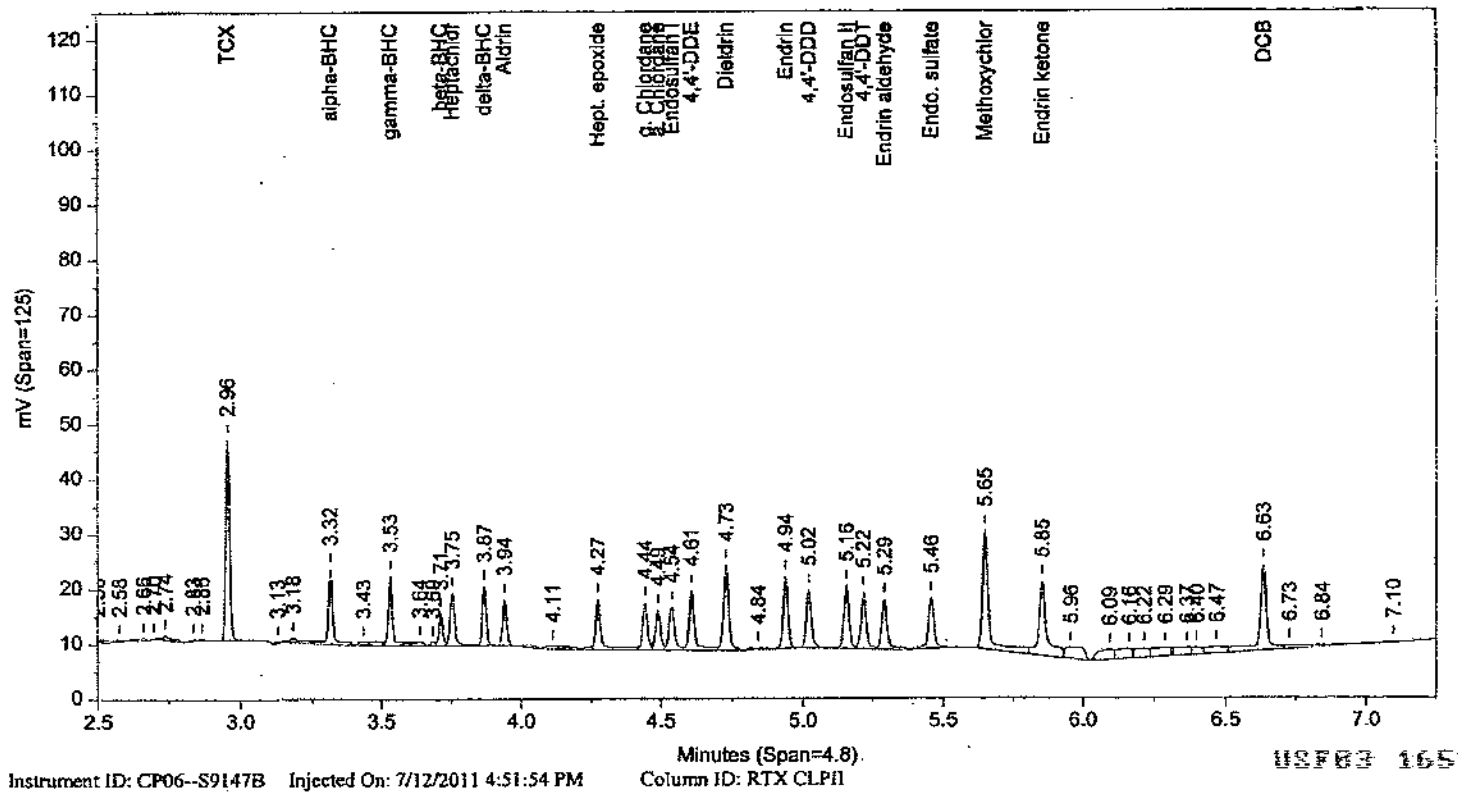
LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.04R
MIXA11124B AAMIXA1AA ICAL 1119299999
——— C:\CPWIN\DATA1\1P6193.04R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 4:51:54 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.04R

MIXA11124B AAMIXA1AA ICAL 1119299999
——— C:\CPWIN\DATA1\1P6193B.04R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 4:51:54 PM Column ID: RTX CLPII

USP83 1655

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minValidate Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.191	22453	4.2721	TCX	2.955	37236	4.24591	TCX
3.487	9189	.9308	alpha-BHC	3.315	13909	.95833	alpha-BHC
3.694	7826	.93569	gamma-BHC	3.533	12681	.97013	gamma-BHC
3.821	3120	1.05369	beta-BHC	3.713	5790	1.09096	beta-BHC
4.065	6137	.92563	Heptachlor	3.754	9503	.9922	Heptachlor
3.98	6136	.91172	delta-BHC	3.868	10943	.91881	delta-BHC
4.294	6339	.93845	Aldrin	3.941	8296	.95599	Aldrin
4.592	5336	.97475	Hept. epoxide	4.273	9051	1.06302	Hept. epoxide
4.777	4720	.93067	g. Chlordane	4.444	8520	1.03037	g. Chlordane
4.835	4642	.96631	a. Chlordane	4.49	7237	1.01006	a. Chlordane
4.877	4189	.95607	Endosulfan I	4.537	7809	1.04113	Endosulfan I
4.961	5833	1.72351	4,4'-DDE	4.606	10876	2.95101	4,4'-DDE
5.086	8800	1.79444	Dieldrin	4.727	15488	1.94576	Dieldrin
5.262	6358	2.44826	Endrin	4.937	13115	.	Endrin
5.362	4128	1.77758	4,4'-DDD	5.02	10522	1.92656	4,4'-DDD
5.433	6167	1.7536	Endosulfan II	5.155	11651	1.95274	Endosulfan II
5.598	4429	3.05285	4,4'-DDT	5.217	10188	1.87564	4,4'-DDT
5.532	4403	1.78119	Endrin aldehyde	5.291	9017	1.94671	Endrin aldehyde
5.707	4959	2.88451	Endo. sulfate	5.458	9351	1.9159	Endo. sulfate
5.956	9169	9.72019	Methoxychlor	5.646	21487	10.99983	Methoxychlor
6.074	6192	1.9531	Endrin ketone	5.853	13349	2.15973	Endrin ketone
7.034	5720	4.25254	DCB	6.632	15487	4.41105	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.04A
Area File: C:\CPWIN\DATA1\1P6193B.04A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:28:22 PM
File Reported On: 7/12/2011 at 7:28:30 PM

REPLOTS

USF83 1656

MIXA11124B AAMIXA1AA ICAL 1119299999
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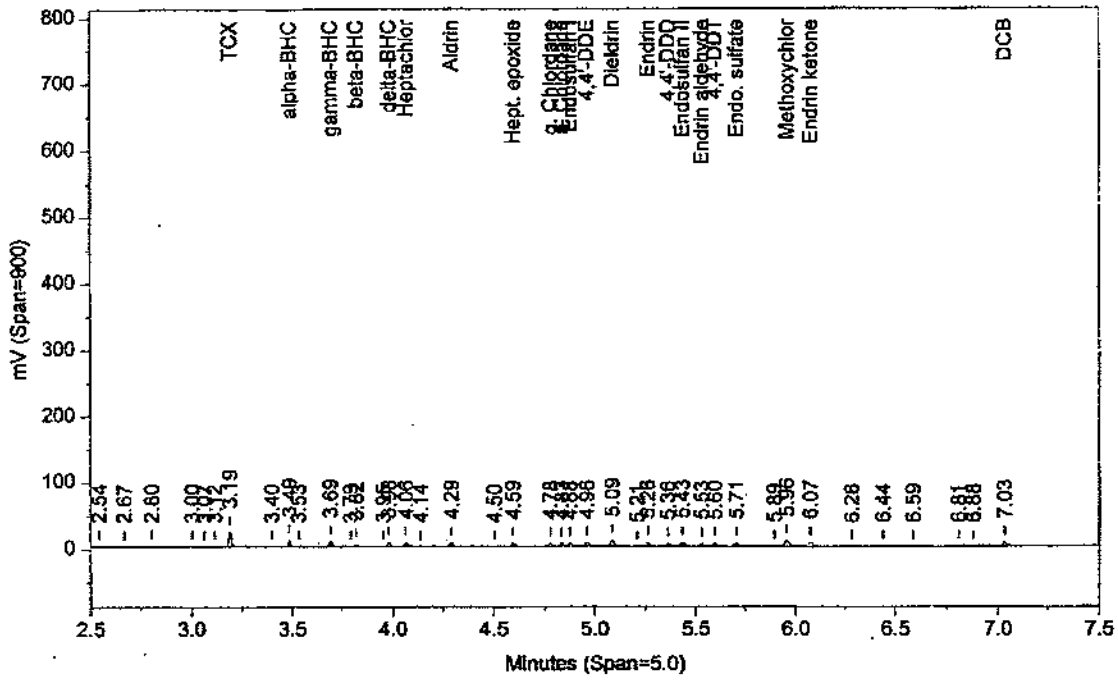
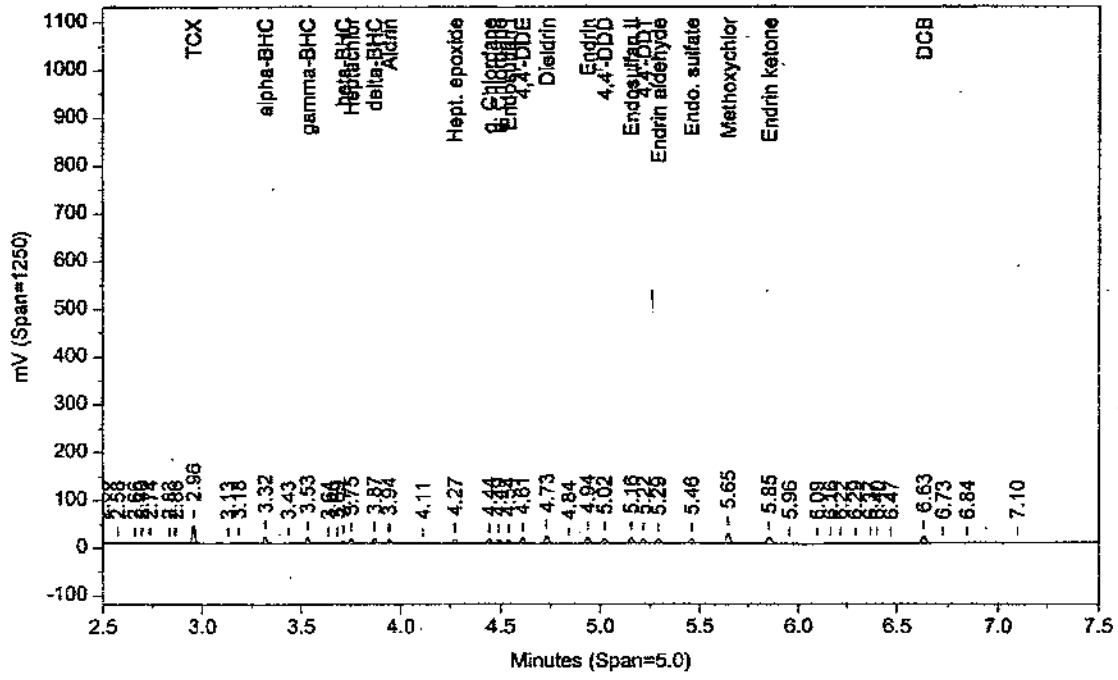


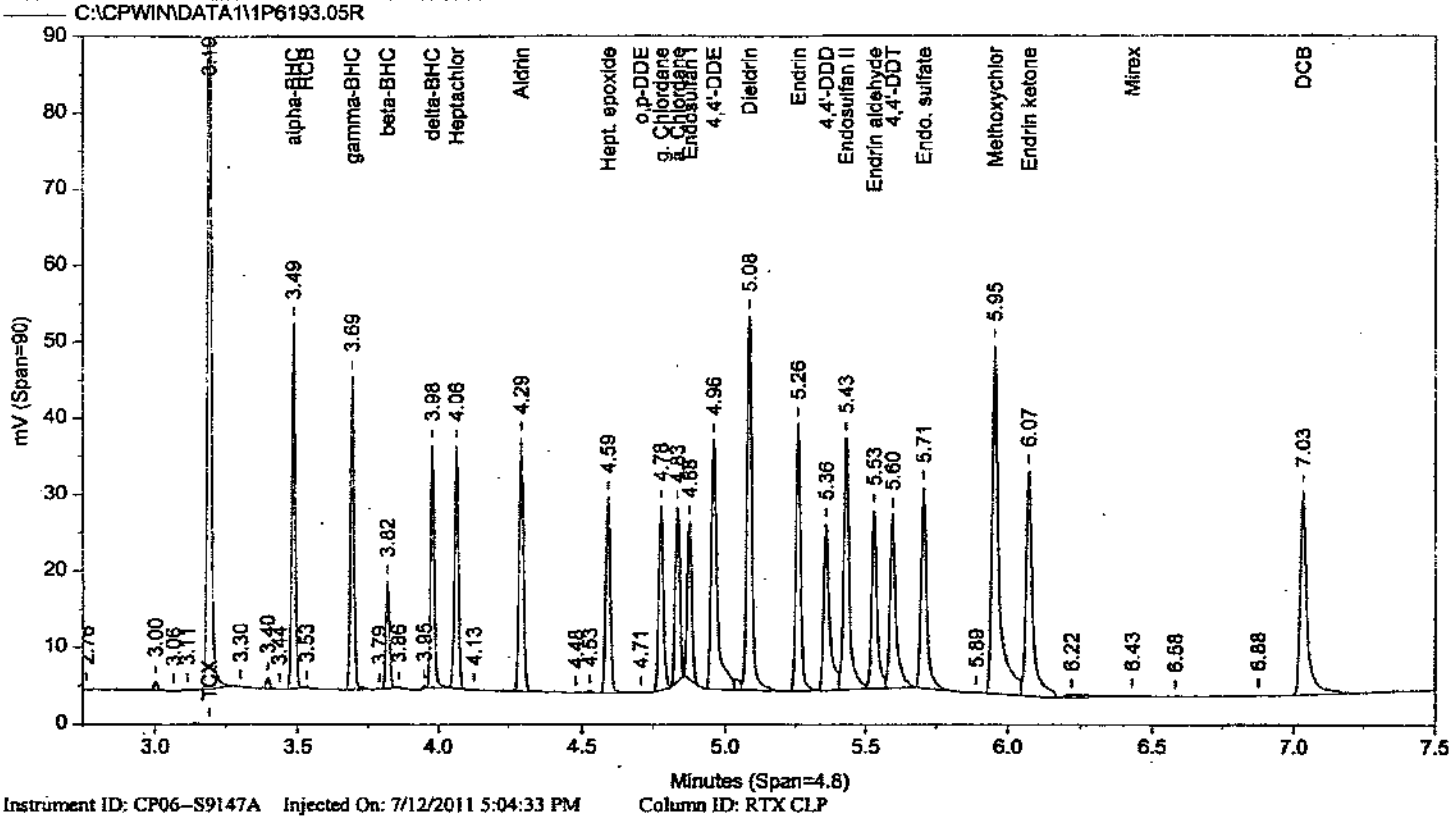
MIXA11124B AAMIXA1AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.04R



LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.05R

MIXA21124B AAMIXA2AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.05R

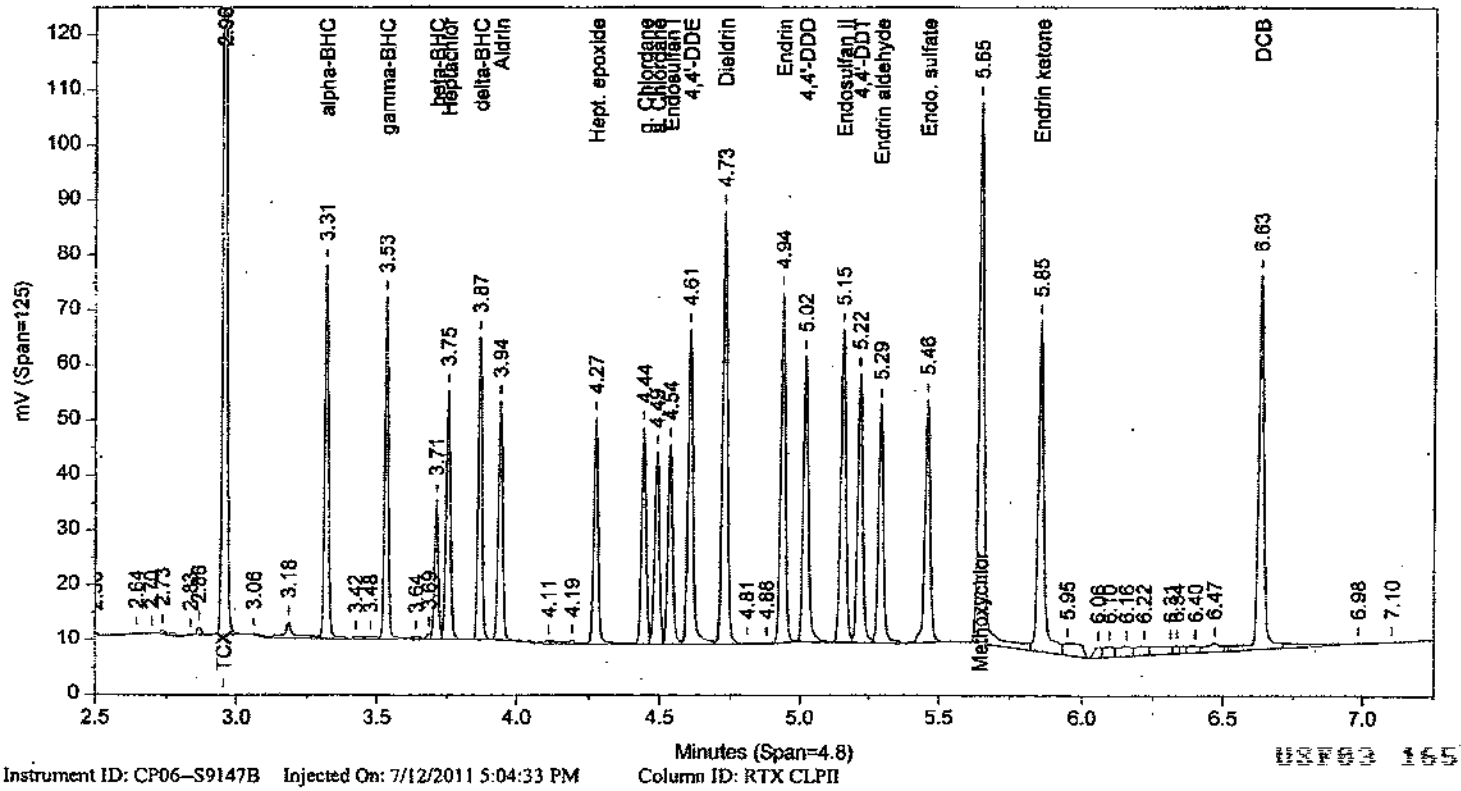


Instrument ID: CP06–S9147A Injected On: 7/12/2011 5:04:33 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.05R

MIXA21124B AAMIXA2AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.05R



Instrument ID: CP06–S9147B Injected On: 7/12/2011 5:04:33 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMethoxychlor Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

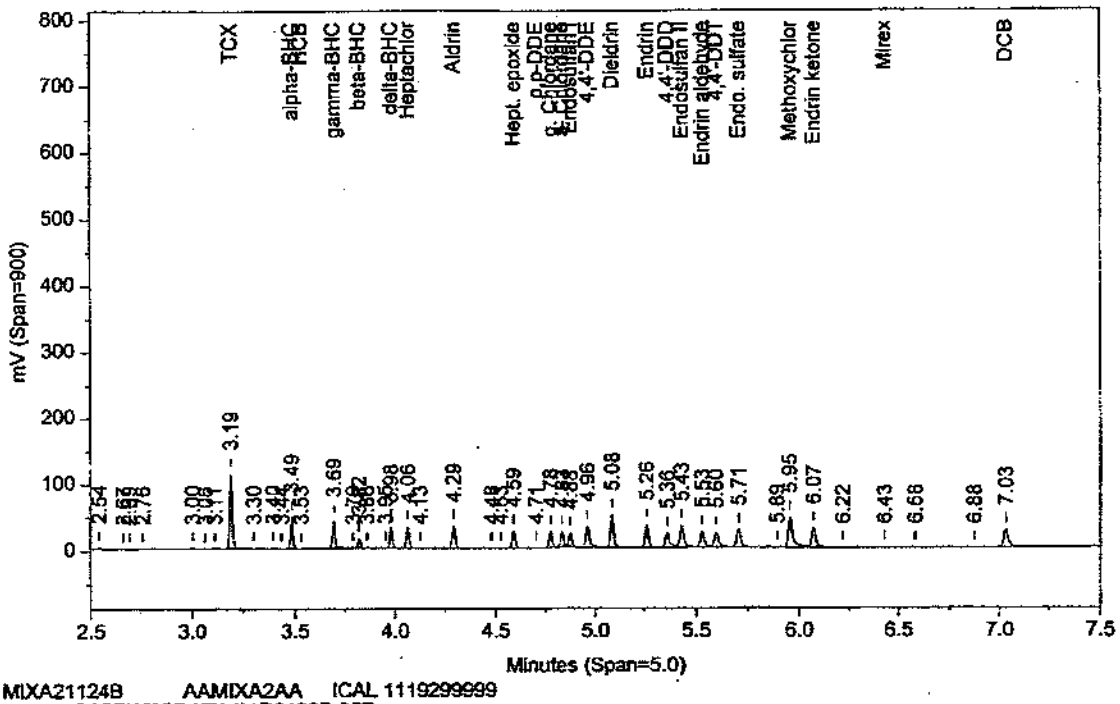
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.19	112747	21.45183	TCX	2.955	188195	21.45942	TCX
3.486	48092	4.87153	alpha-BHC	3.315	70451	4.85403	alpha-BHC
3.531	204	3.48282	HCB	.	0	.	HCB
3.693	41220	4.9285	gamma-BHC	3.532	63090	4.82657	gamma-BHC
3.821	14062	4.74948	beta-BHC	3.713	25605	4.82418	beta-BHC
4.064	32038	4.83187	Heptachlor	3.754	45401	4.74041	Heptachlor
3.979	31921	4.74331	delta-BHC	3.868	56604	4.75282	delta-BHC
4.293	33215	4.91697	Aldrin	3.941	43647	5.02961	Aldrin
4.592	26248	4.79451	Hept. epoxide	4.273	41230	4.84255	Hept. epoxide
4.777	24208	4.77345	g. Chlordane	4.443	39571	4.78552	g. Chlordane
4.834	22963	4.7801	a. Chlordane	4.489	35272	4.92266	a. Chlordane
4.876	20758	4.73798	Endosulfan I	4.536	36558	4.87396	Endosulfan I
4.961	32849	9.70678	4,4'-DDE	4.606	57250	8.83262	4,4'-DDE
4.706	66	5.91749	o,p-DDE	.	0	.	o,p-DDE
5.085	49983	10.19261	Dieldrin	4.727	78935	9.91637	Dieldrin
5.261	35116	9.27539	Endrin	4.937	63648	48.53104	Endrin
5.361	21902	9.4312	4,4'-DDD	5.019	52071	9.53432	4,4'-DDD
5.432	33575	9.54737	Endosulfan II	5.155	57722	9.67436	Endosulfan II
5.597	22729	9.2965	4,4'-DDT	5.215	49635	9.13774	4,4'-DDT
5.531	23596	9.54662	Endrin aldehyde	5.29	43490	9.38965	Endrin aldehyde
5.706	26353	9.3463	Endo. sulfate	5.457	44524	9.12219	Endo. sulfate
5.955	46201	48.97632	Methoxychlor	5.646	98566	50.45985	Methoxychlor
6.072	29789	9.39633	Endrin ketone	5.853	60098	9.72338	Endrin ketone
6.431	191	18.98421	Mirex	.	0	.	Mirex
7.035	26826	19.94403	DCB	6.632	69299	19.73774	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.05A
Area File: C:\CPWIN\DATA1\1P6193B.05A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:28:44 PM
File Reported On: 7/12/2011 at 7:28:52 PM

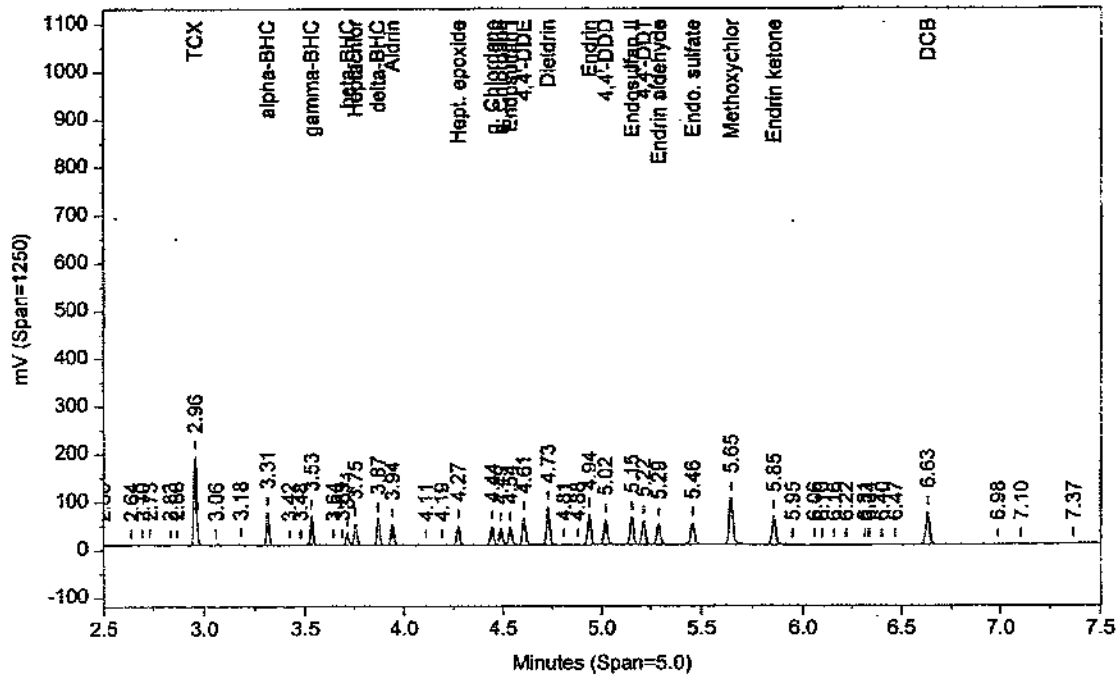
USF03 $659

Files:
REPLOTS

MIXA21124B AAMIXA2AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.05R



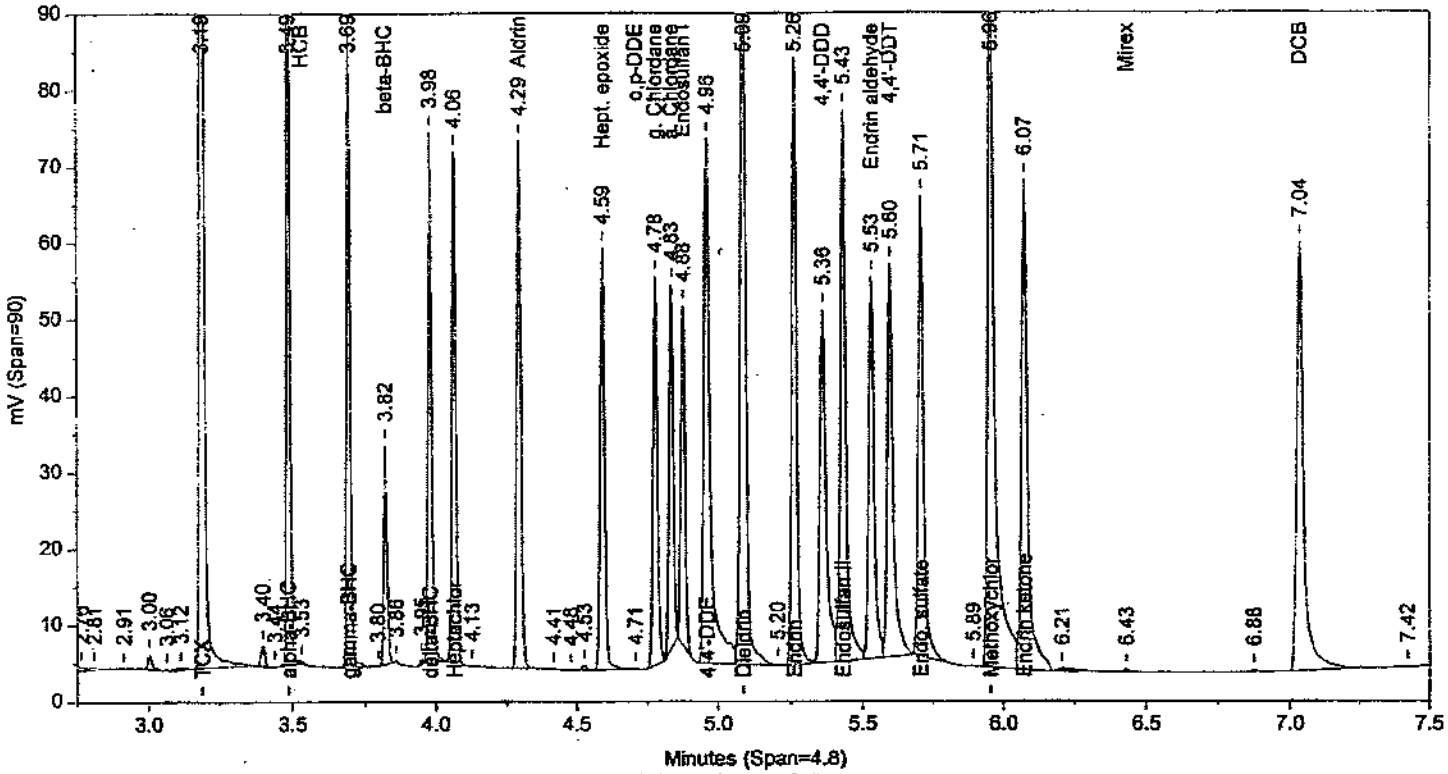
MIXA21124B AAMIXA2AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.05R



LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.06R

MIXA31124D AAMIXA3AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.06R

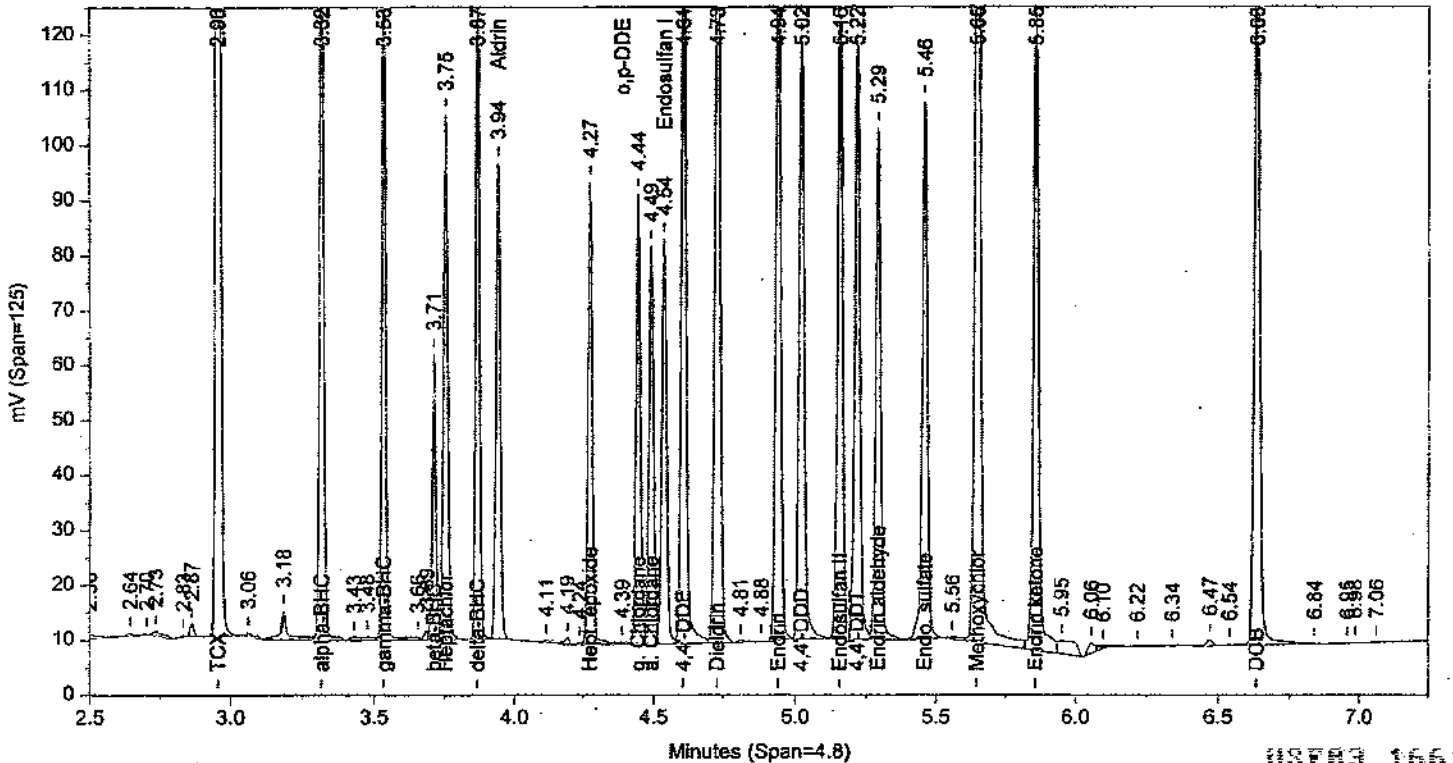


Instrument ID: CP06--S9147A Injected On: 7/12/2011 5:17:21 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.06R

MIXA31124D AAMIXA3AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.06R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 5:17:21 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMethoxychlor Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

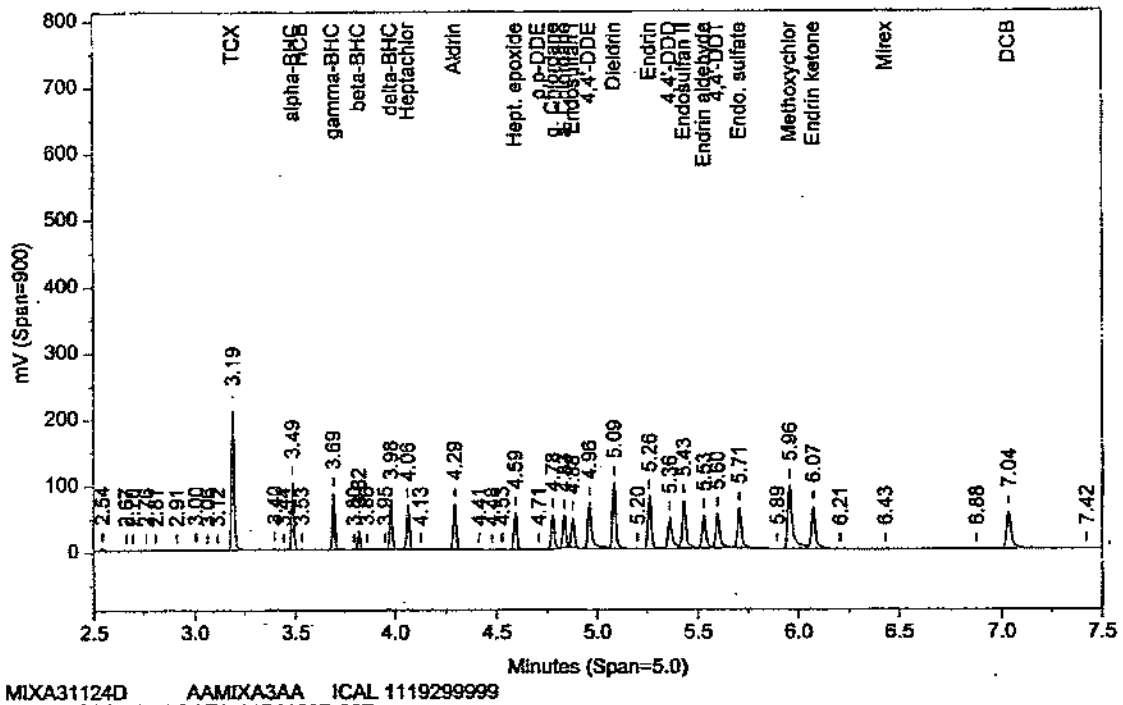
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.192	218166	41.50925	TCX	2.956	376309	42.9095	TCX
3.487	102393	10.37208	alpha-BHC	3.316	147221	10.14342	alpha-BHC
3.532	430	7.33733	HCB	.	0	.	HCB
3.693	85390	10.2097	gamma-BHC	3.533	133191	10.18945	gamma-BHC
3.821	29183	9.85655	beta-BHC	3.713	51857	9.77025	beta-BHC
4.065	68528	10.33536	Heptachlor	3.754	96055	10.0293	Heptachlor
3.98	69466	10.32246	delta-BHC	3.869	120892	10.15079	delta-BHC
4.294	69322	10.26204	Aldrin	3.941	87862	10.12476	Aldrin
4.592	55639	10.16291	Hept. epoxide	4.274	84279	9.89868	Hept. epoxide
4.707	135	12.10563	o,p-DDE	4.388	375	21.07285	o,p-DDE
4.777	50917	10.04014	g. Chlordane	4.444	82239	9.94572	g. Chlordane
4.835	48589	10.1147	a. Chlordane	4.49	72327	10.0941	a. Chlordane
4.877	44508	10.15888	Endosulfan I	4.537	73683	9.82362	Endosulfan I
4.961	69565	20.55636	4,4'-DDE	4.607	143750	19.80336	4,4'-DDE
5.086	100608	20.51632	Dieldrin	4.727	160090	20.11167	Dieldrin
5.262	80224	19.98405	Endrin	4.938	134173	51.91529	Endrin
5.362	46929	20.20808	4,4'-DDD	5.021	109428	20.03633	4,4'-DDD
5.432	72750	20.68694	Endosulfan II	5.156	119423	20.01553	Endosulfan II
5.597	51675	19.17214	4,4'-DDT	5.216	110080	20.26554	4,4'-DDT
5.531	50646	20.49043	Endrin aldehyde	5.291	93449	20.17605	Endrin aldehyde
5.707	60327	19.60742	Endo. sulfate	5.458	99337	20.35249	Endo. sulfate
5.956	96598	102.4013	Methoxychlor	5.647	196430	100.5599	Methoxychlor
6.073	64072	20.21005	Endrin ketone	5.855	121578	19.67027	Endrin ketone
6.432	397	39.33474	Mirex	.	0	.	Mirex
7.035	56436	41.95702	DCB	6.633	145259	41.37299	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.06A
Area File: C:\CPWIN\DATA1\1P6193B.06A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:29:06 PM
File Reported On: 7/12/2011 at 7:29:14 PM

USP83 1562

Files:
REPLOTS

MIXA31124D AAMIXA3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.06R



MIXA31124D AAMIXA3AA ICAL 1119299999
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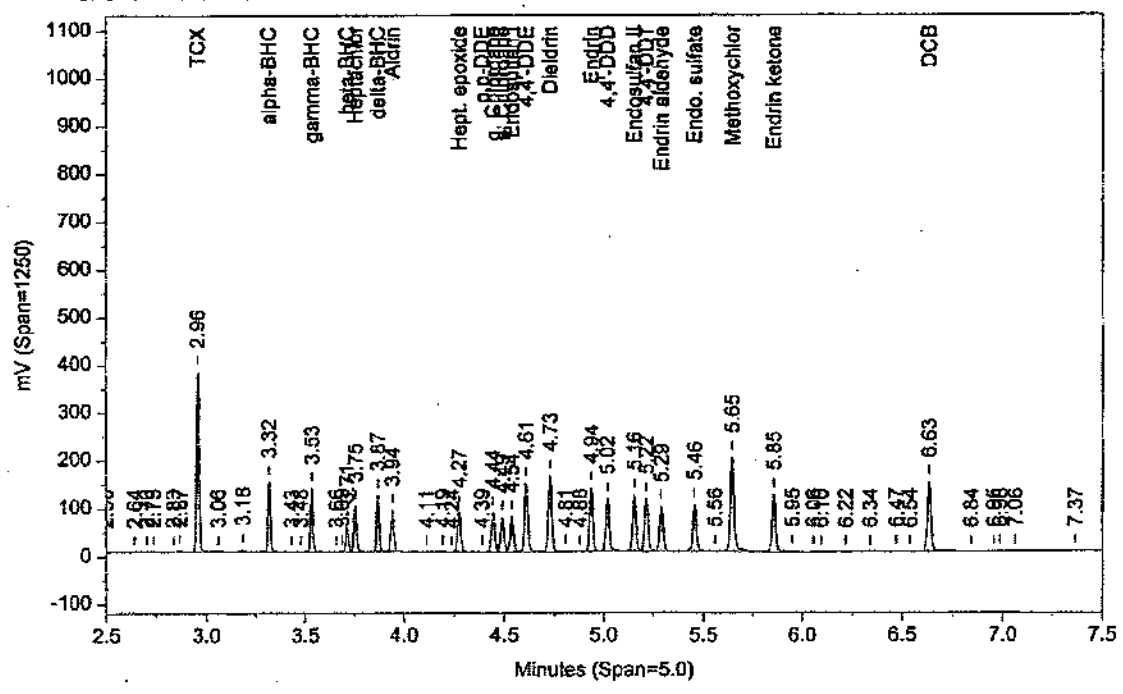
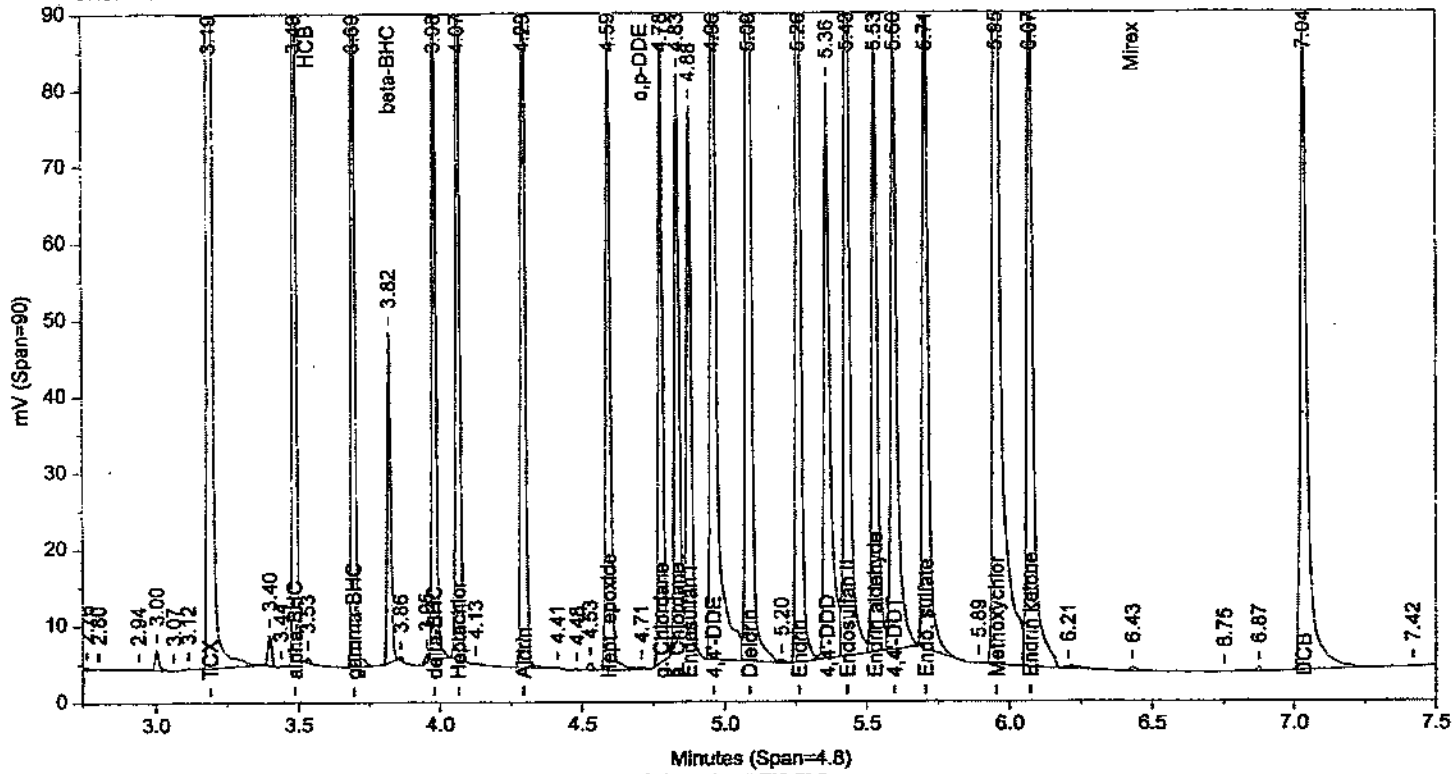


USP03 1663

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.07R

MIXA41124B AAMIXA4AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.07R

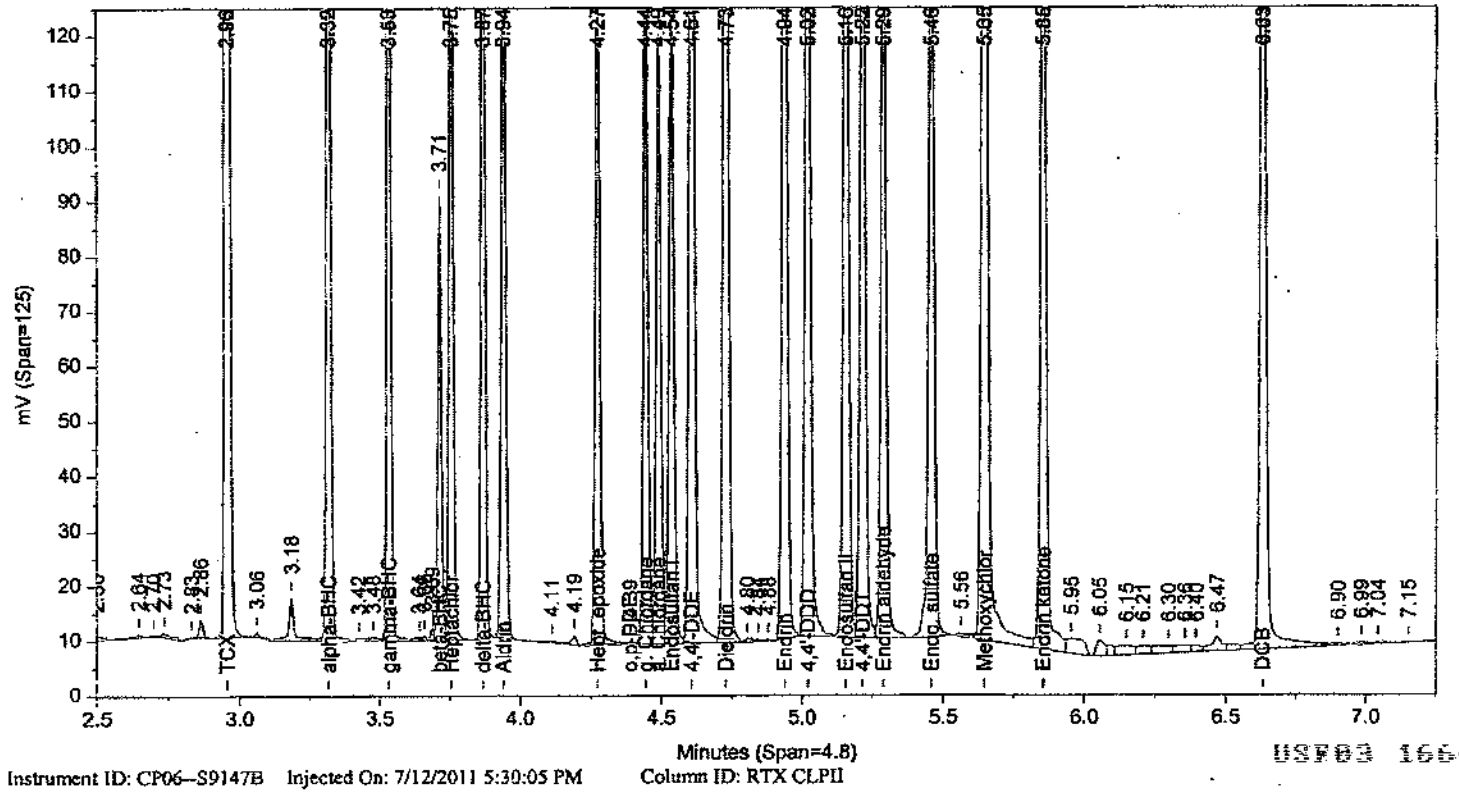


Instrument ID: CP06--S9147A Injected On: 7/12/2011 5:30:05 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.07R

MIXA41124B AAMIXA4AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.07R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 5:30:05 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMethldrin Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

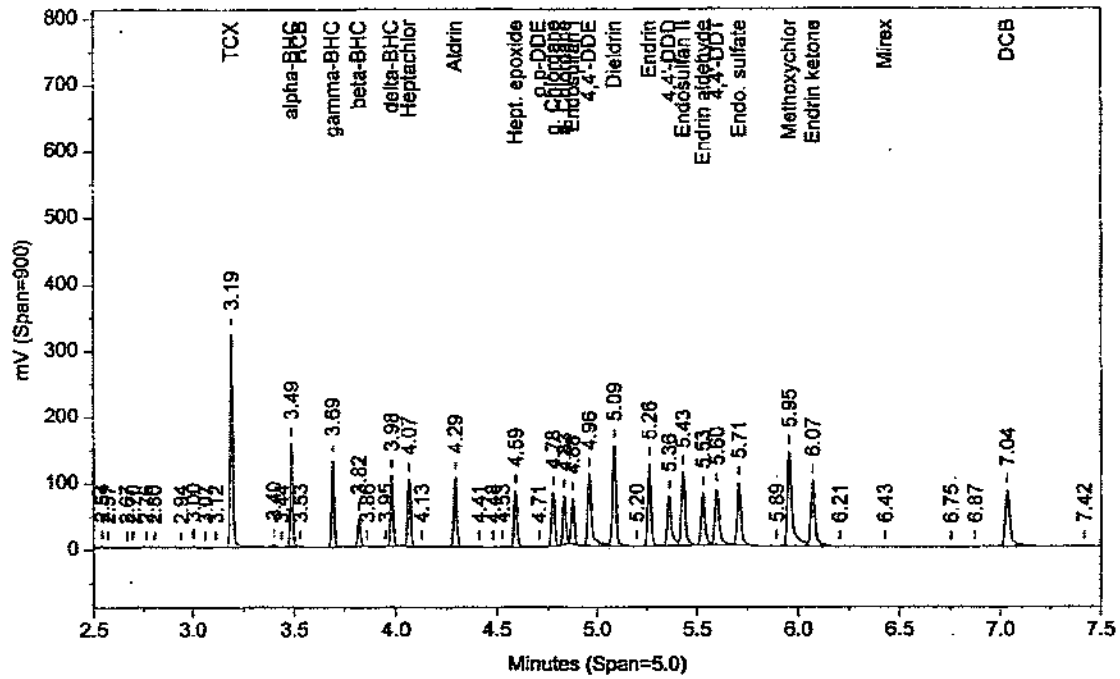
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.192	332624	63.28666	TCX	2.956	544744	62.11578	TCX
3.487	156572	15.86026	alpha-BHC	3.316	229256	15.7956	alpha-BHC
3.532	792	13.52341	HCB	.	0	.	HCB
3.694	131002	15.66328	gamma-BHC	3.533	205321	15.70756	gamma-BHC
3.822	44743	15.11179	beta-BHC	3.713	80896	15.24139	beta-BHC
4.065	104860	15.81485	Heptachlor	3.754	150212	15.68393	Heptachlor
3.98	107795	16.01805	delta-BHC	3.869	190415	15.98834	delta-BHC
4.294	105877	15.6735	Aldrin	3.941	137313	15.82318	Aldrin
4.592	85796	15.67143	Hept. epoxide	4.274	129448	15.20374	Hept. epoxide
4.707	356	31.8429	o,p-DDE	4.389	448	25.6874	o,p-DDE
4.777	81532	16.07711	g. Chlordane	4.444	127323	15.3979	g. Chlordane
4.834	74867	15.58472	a. Chlordane	4.49	111012	15.49292	a. Chlordane
4.877	69208	15.79666	Endosulfan I	4.537	115099	15.34524	Endosulfan I
4.961	109955	32.49131	4,4'-DDE	4.608	229612	30.69328	4,4'-DDE
5.086	153751	31.35344	Dieldrin	4.728	247538	31.09753	Dieldrin
5.262	126434	30.95443	Endrin	4.937	205436	52.33318	Endrin
5.361	75415	32.47411	4,4'-DDD	5.02	172008	31.49479	4,4'-DDD
5.431	112607	32.02055	Endosulfan II	5.155	184690	30.95425	Endosulfan II
5.597	84260	30.28953	4,4'-DDT	5.216	174226	32.07472	4,4'-DDT
5.531	80165	32.43314	Endrin aldehyde	5.29	144687	31.23853	Endrin aldehyde
5.706	93940	29.75949	Endo. sulfate	5.458	153831	31.51735	Endo. sulfate
5.955	144854	153.5561	Methoxychlor	5.646	283995	145.3877	Methoxychlor
6.073	99814	31.48381	Endrin ketone	5.854	184787	29.89703	Endrin ketone
6.431	579	57.44582	Mirex	.	0	.	Mirex
7.036	85034	63.21811	DCB	6.633	224032	63.80919	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.07A
Area File: C:\CPWIN\DATA1\1P6193B.07A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:29:28 PM
File Reported On: 7/12/2011 at 7:29:36 PM

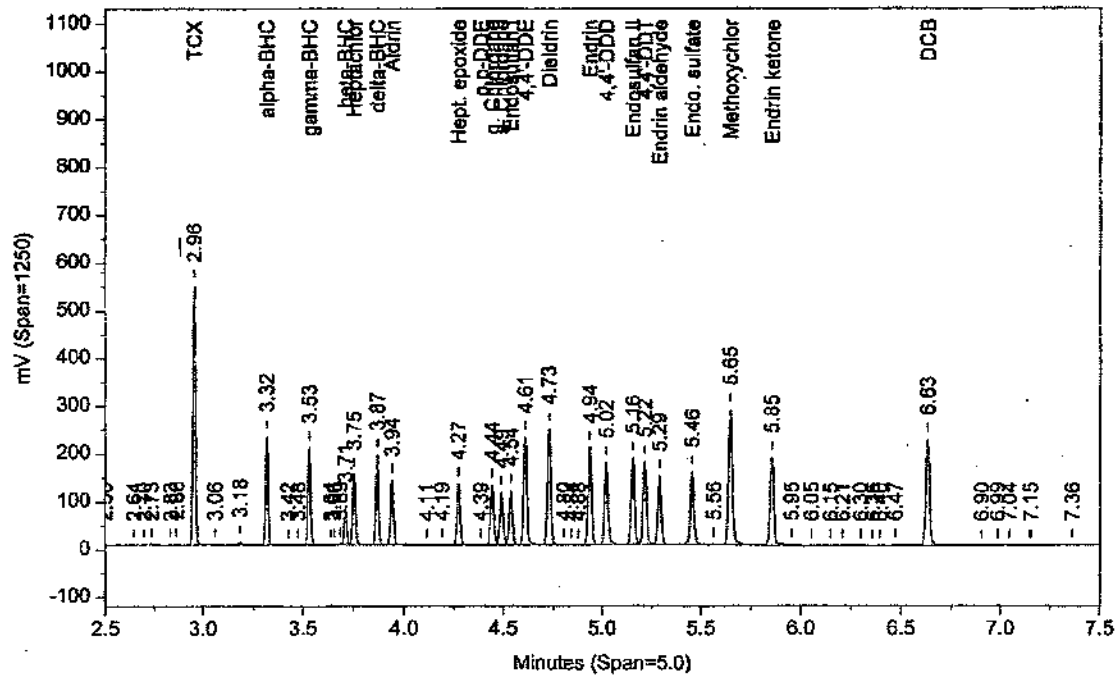
USF83 1665

Files:
REPLOTS

MIXA41124B AAMIXA4AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.07R



MIXA41124B AAMIXA4AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.07R

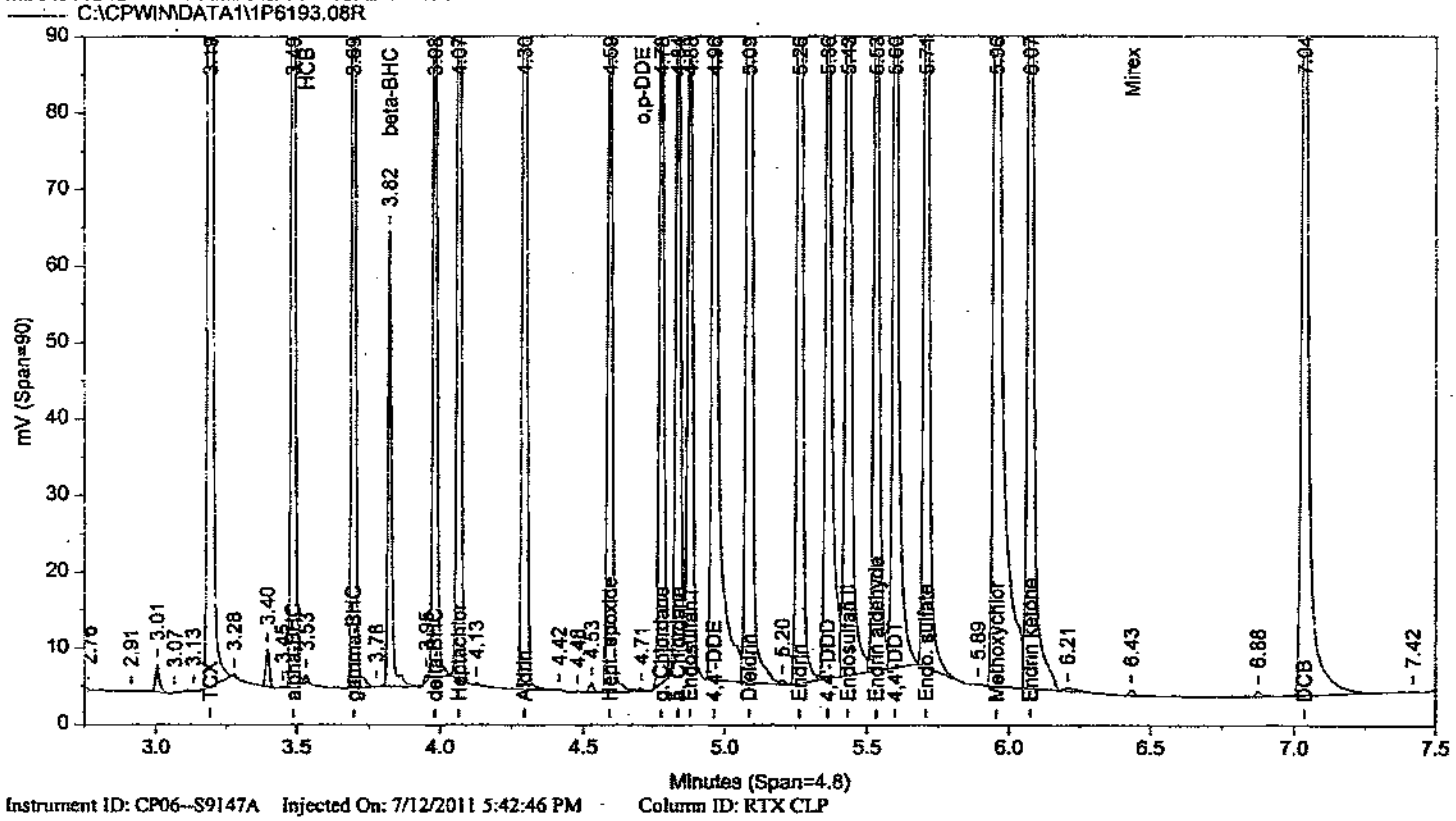


USF83 1666

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.08R

MIXA51124B AAMIXA5AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.08R

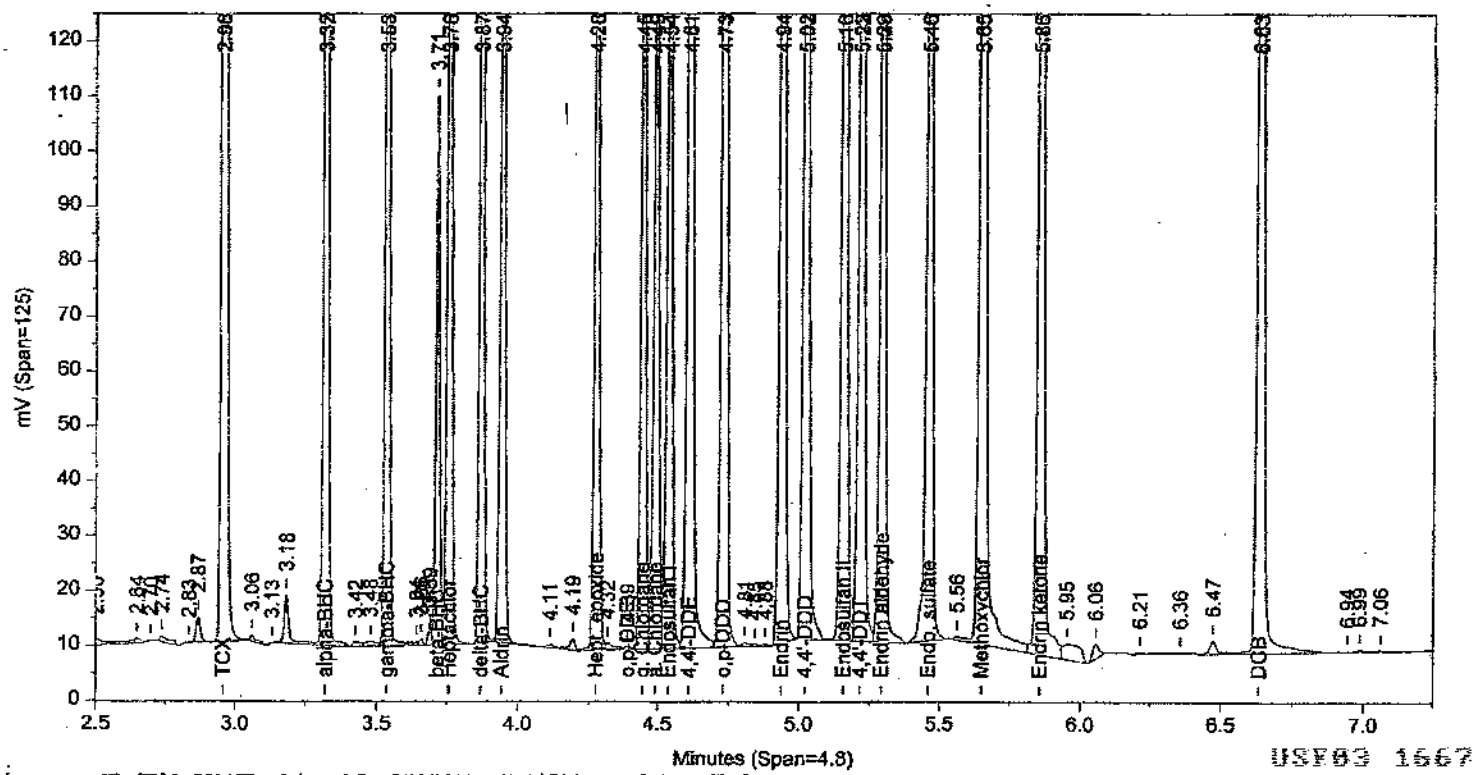


Instrument ID: CP06--S9147A Injected On: 7/12/2011 5:42:46 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.08R

MIXA51124B AAMIXA5AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.08R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 5:42:46 PM Column ID: RTX CLPII

USF83 1667

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minValidate Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.193	415937	79.13804	TCX	2.958	687301	78.37117	TCX
3.489	200252	20.28492	alpha-BHC	3.317	295310	20.34665	alpha-BHC
3.533	922	15.74127	HCB	.	0	.	HCB
3.695	171816	20.54329	gamma-BHC	3.534	264623	20.24437	gamma-BHC
3.823	60196	20.33128	beta-BHC	3.715	102380	19.28917	beta-BHC
4.066	137119	20.68013	Heptachlor	3.756	196329	20.49905	Heptachlor
3.982	141801	21.07112	delta-BHC	3.87	253361	21.27358	delta-BHC
4.296	137914	20.41608	Aldrin	3.943	170889	19.69231	Aldrin
4.594	111578	20.38077	Hept. epoxide	4.275	166598	19.56706	Hept. epoxide
4.709	454	40.55175	o,p-DDE	4.391	604	35.58039	o,p-DDE
4.779	106794	21.05847	g. Chlordane	4.445	166193	20.09871	g. Chlordane
4.836	100121	20.84178	a. Chlordane	4.492	140137	19.55768	a. Chlordane
4.878	91233	20.82377	Endosulfan I	4.538	148836	19.84317	Endosulfan I
4.962	144970	42.83832	4,4'-DDE	4.61	303935	40.11971	4,4'-DDE
.	0	.	o,p-DDD	4.729	320615	.	o,p-DDD
5.264	163559	39.76788	Endrin	4.939	267275	50.65257	Endrin
5.362	101307	43.62356	4,4'-DDD	5.021	228630	41.86238	4,4'-DDD
5.087	201319	41.05354	Dieldrin	.	0	.	Dieldrin
5.433	152035	43.23233	Endosulfan II	5.157	247536	41.48743	Endosulfan II
5.599	114859	40.72901	4,4'-DDT	5.218	235848	43.41923	4,4'-DDT
5.533	105673	42.7533	Endrin aldehyde	5.292	195768	42.2671	Endrin aldehyde
5.708	130502	40.80227	Endo. sulfate	5.46	209964	43.01807	Endo. sulfate
5.957	191346	202.841	Methoxychlor	5.648	362826	185.7446	Methoxychlor
6.075	131924	41.61221	Endrin ketone	5.856	243134	39.3372	Endrin ketone
6.432	766	75.97161	Mirex	.	0	.	Mirex
7.036	114429	85.07206	DCB	6.634	291823	83.11742	DCB

LDieldrin LMeyer 7/12/11

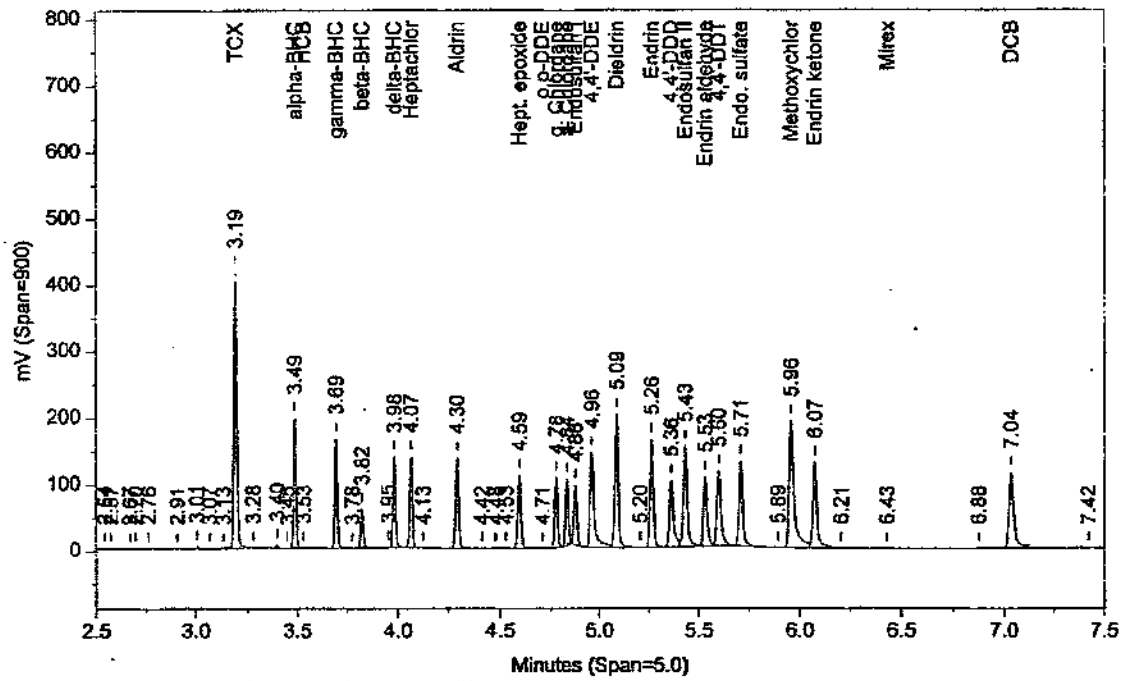
Files:
Area File: C:\CPWIN\DATA1\1P6193.08A
Area File: C:\CPWIN\DATA1\1P6193B.08A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:29:50 PM
File Reported On: 7/12/2011 at 7:29:58 PM

USP83 1668

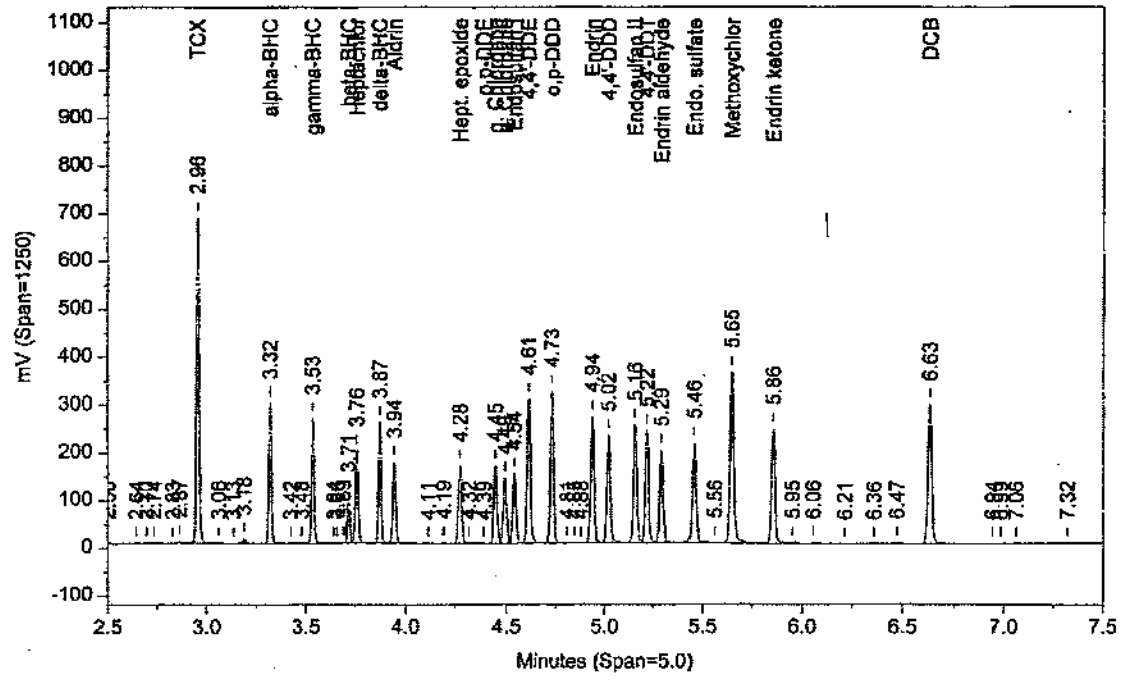
Files:

REPLOTS

MIXA51124B AAMIXA5AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.08R



MIXA51124B AAMIXA5AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.08R

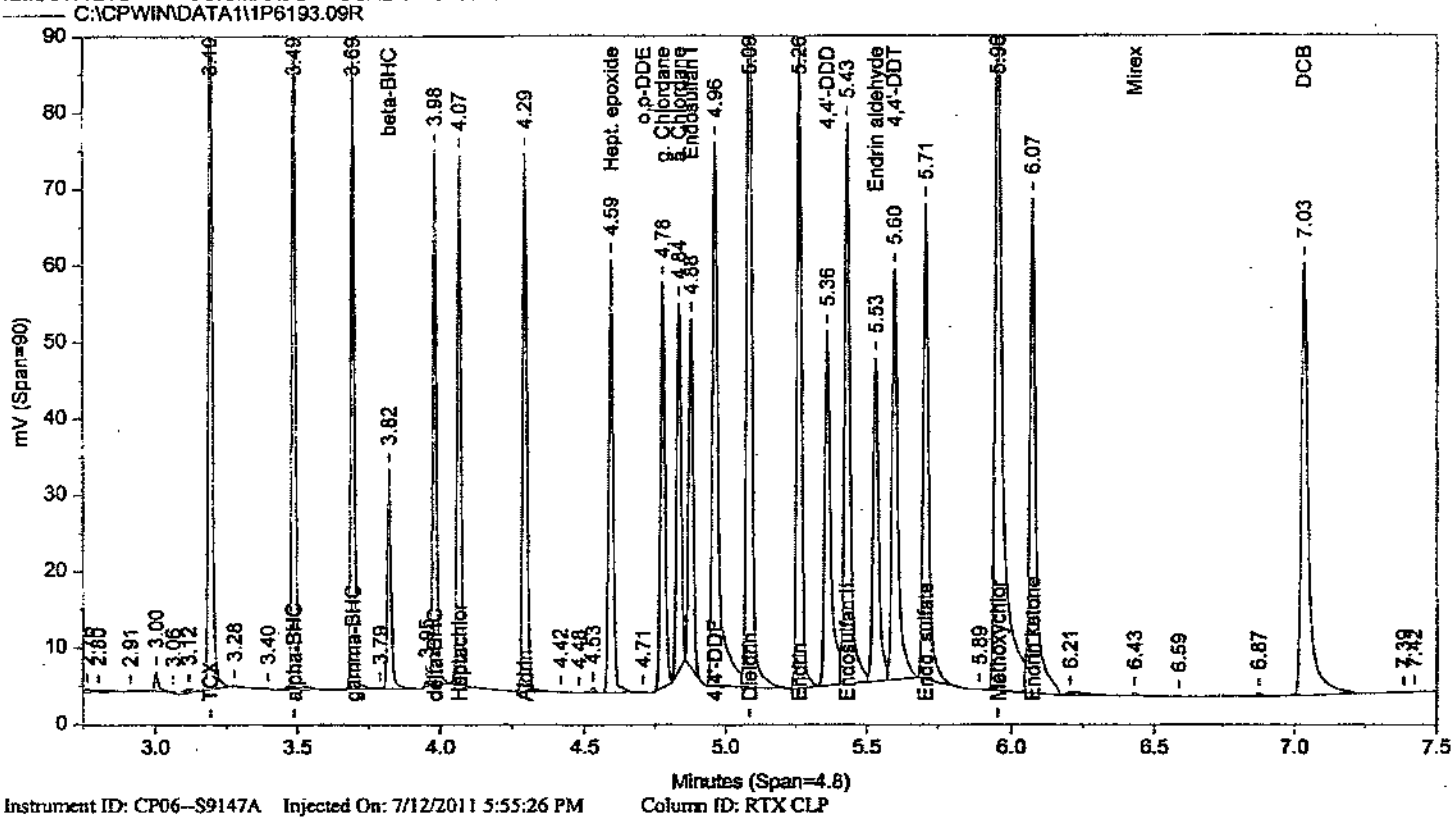


USPS3 4669

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.09R

ICMAX1124C JOICMAXJO CCAL 1119299999

C:\CPWIN\DATA1\1P6193.09R

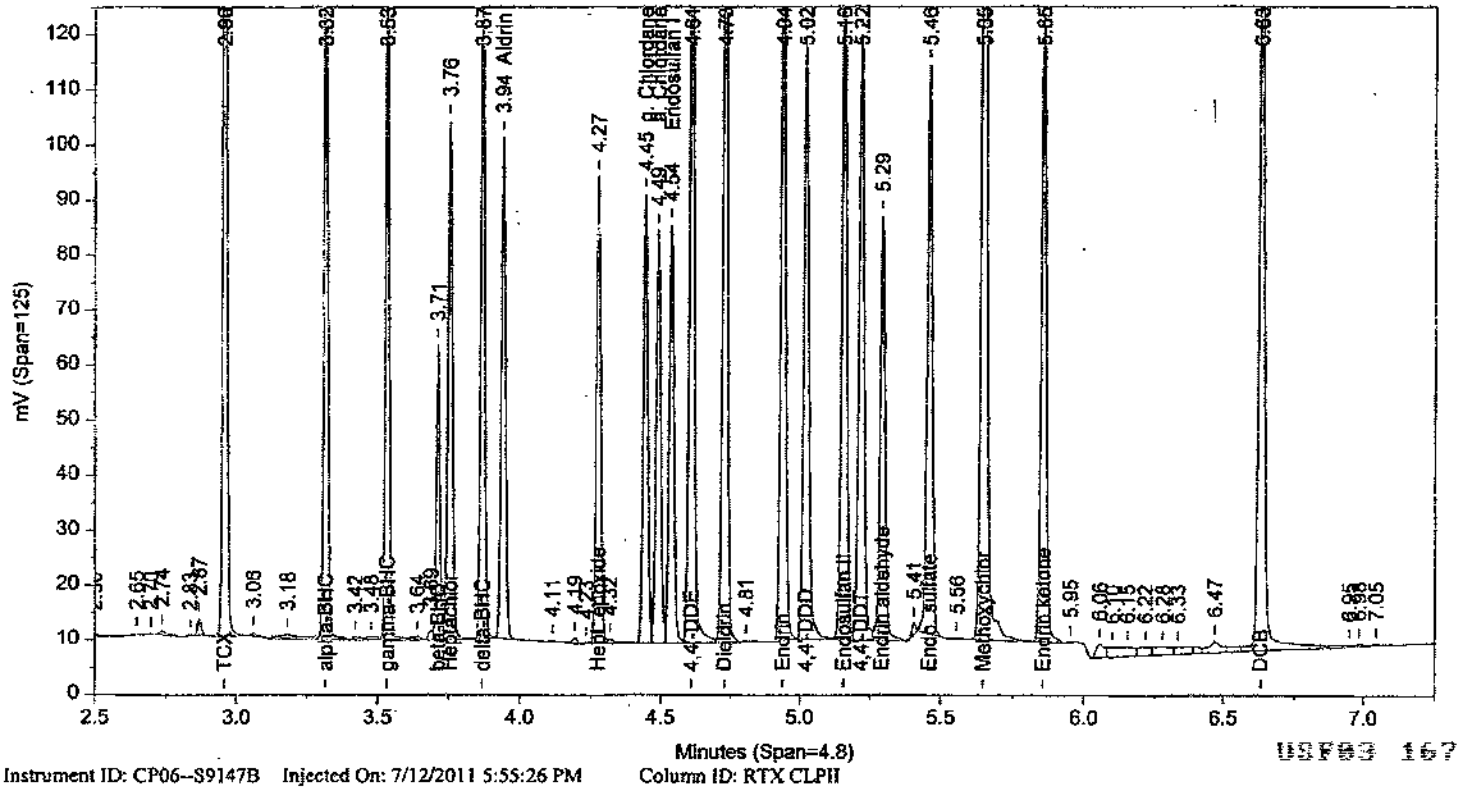


Instrument ID: CP06--S9147A Injected On: 7/12/2011 5:55:26 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.09R

ICMAX1124C JOICMAXJO CCAL 1119299999

C:\CPWIN\DATA1\1P6193B.09R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 5:55:26 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Multiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.192	114155	21.7196	TCX	2.956	191299	21.81335	TCX
3.488	101583	10.29005	alpha-BHC	3.317	146896	10.12102	alpha-BHC
3.694	83302	9.96004	gamma-BHC	3.533	128028	9.79449	gamma-BHC
3.822	29799	10.06448	beta-BHC	3.714	53819	10.13993	beta-BHC
4.065	70772	10.67382	Heptachlor	3.755	96430	10.06842	Heptachlor
3.981	70763	10.51522	delta-BHC	3.869	125429	10.53169	delta-BHC
4.295	71453	10.57745	Aldrin	3.942	92983	10.71485	Aldrin
4.594	56635	10.34489	Hept. epoxide	4.275	86219	10.1265	Hept. epoxide
4.778	53935	10.63521	g. Chlordane	4.445	83464	10.09383	g. Chlordane
4.835	48956	10.19101	a. Chlordane	4.491	75406	10.52376	a. Chlordane
4.877	45696	10.43	Endosulfan I	4.537	76326	10.17591	Endosulfan I
4.961	72060	21.29338	4,4'-DDE	4.609	150734	20.6892	4,4'-DDE
4.708	100	.03855	o,p-DDE	.	0	.	o,p-DDE
5.086	106367	21.69067	Dieldrin	4.729	160715	20.19021	Dieldrin
5.263	84620	21.02766	Endrin	4.938	135067	20.42548	Endrin
5.362	46755	20.13291	4,4'-DDD	5.02	109396	20.03059	4,4'-DDD
5.433	73470	20.89173	Endosulfan II	5.156	122746	20.57243	Endosulfan II
5.598	54733	20.21543	4,4'-DDT	5.217	110602	20.36177	4,4'-DDT
5.531	43040	17.413	Endrin aldehyde	5.292	78525	16.95383	Endrin aldehyde
5.707	62319	20.20891	Endo. sulfate	5.459	103581	21.22184	Endo. sulfate
5.956	95981	101.7464	Methoxychlor	5.647	203307	104.0805	Methoxychlor
6.074	64717	20.41327	Endrin ketone	5.855	120944	19.56782	Endrin ketone
6.432	386	.18328	Mirex	.	0	.	Mirex
7.035	57041	42.40668	DCB	6.633	149915	42.69887	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.09A
Area File: C:\CPWIN\DATA1\1P6193B.09A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:58:22 PM
File Reported On: 7/12/2011 at 7:58:28 PM

USF93 1671

REPLOTS

ICMAX1124C JOICMAXJO CCAL 1119299999
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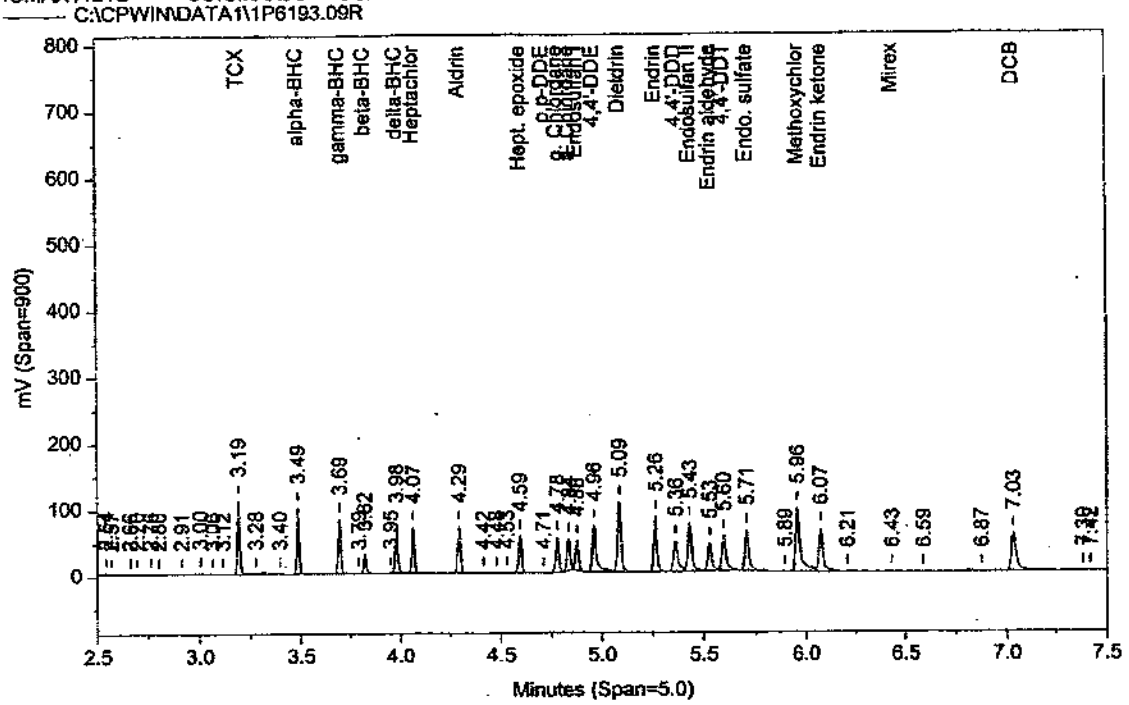

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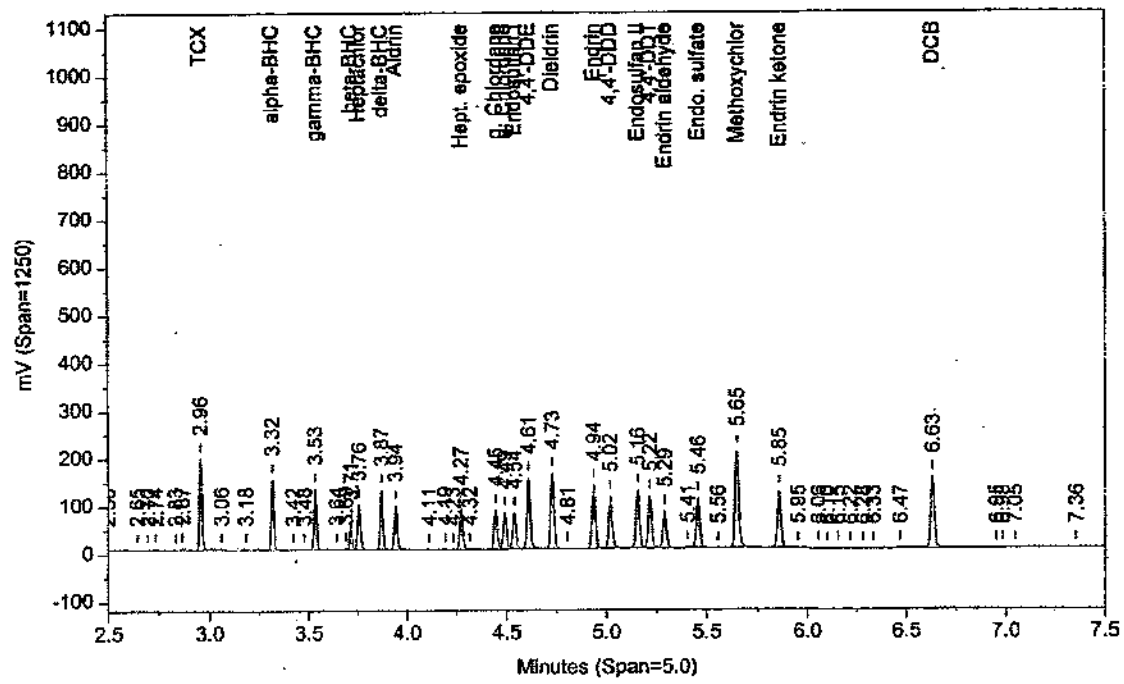

USF83 1672

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.10R
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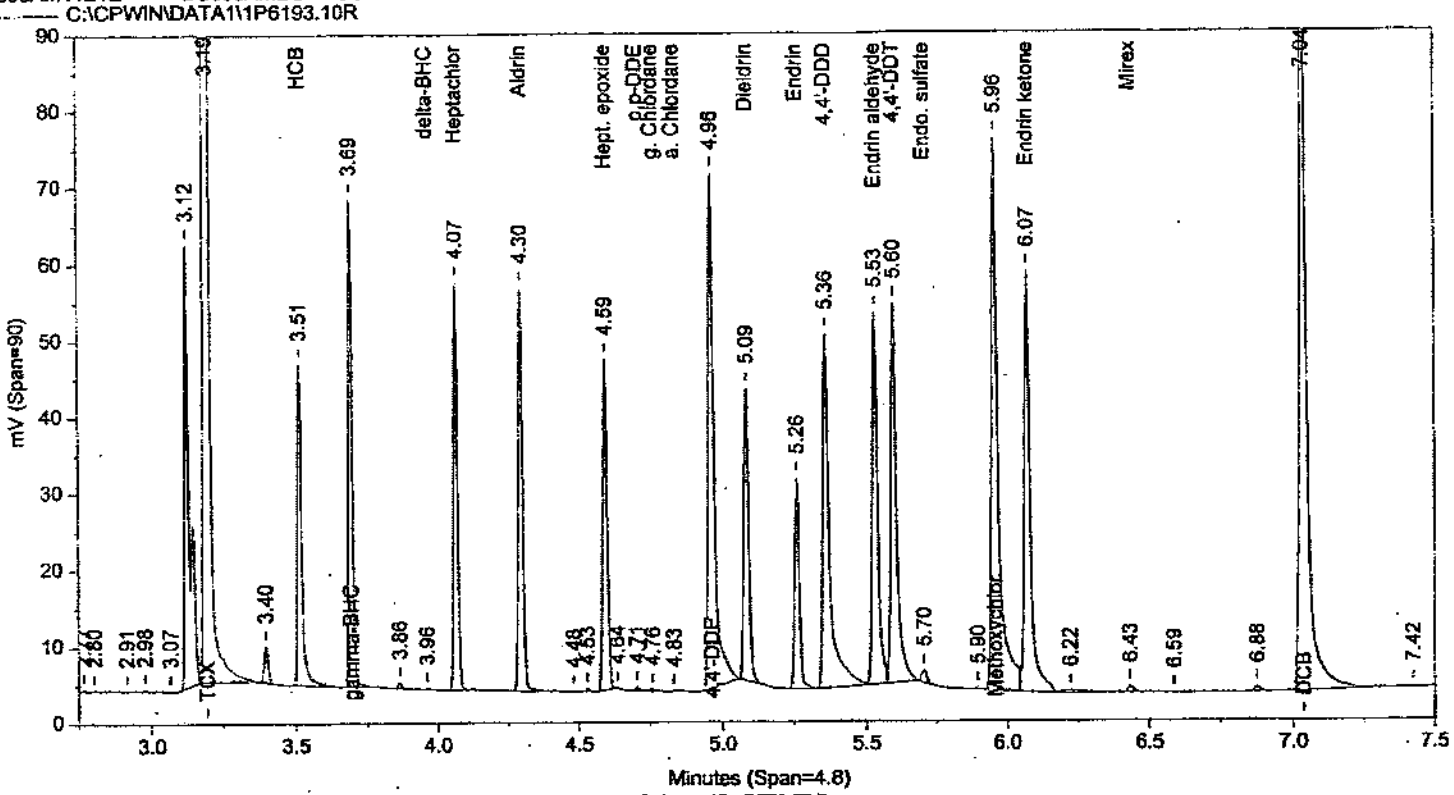

Instrument ID: CP06--S9147A Injected On: 7/12/2011 6:08:07 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.10R

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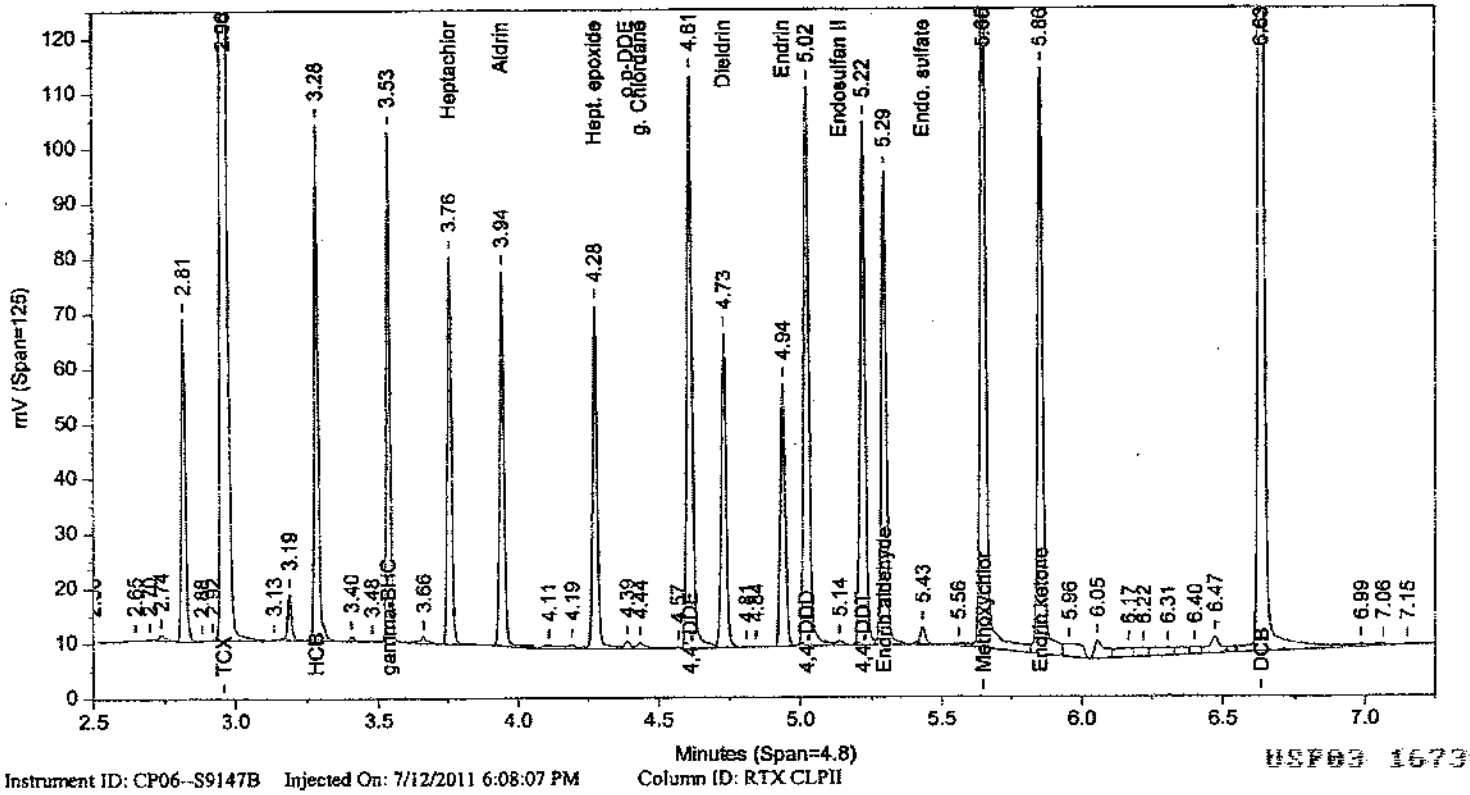


Instrument ID: CP06--S9147B Injected On: 7/12/2011 6:08:07 PM Column ID: RTX CLPII

USP93 1573

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMuldrie Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

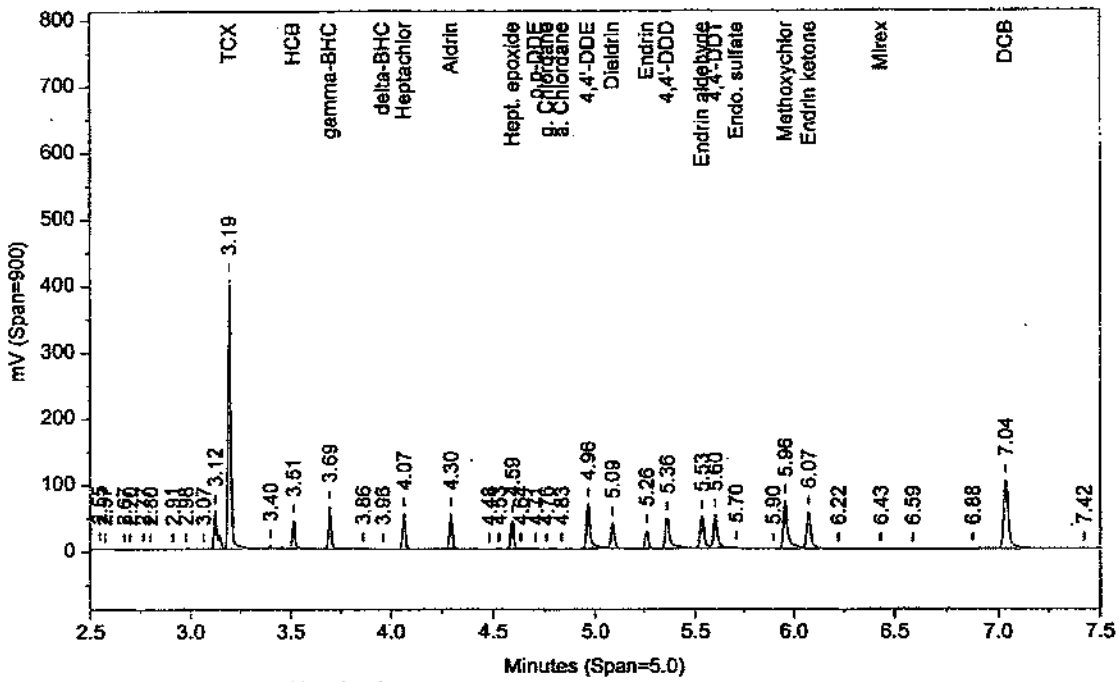
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.194	407992	77.6264	TCX	2.958	649628	74.07537	TCX
3.515	43551	7.34107	HCB	3.282	96963	7.03845	HCB
3.695	65734	7.85949	gamma-BHC	3.534	94597	7.23688	gamma-BHC
4.066	53318	8.04137	Heptachlor	3.756	70970	7.41005	Heptachlor
4.296	53204	7.87599	Aldrin	3.943	68117	7.84948	Aldrin
3.961	127	.01882	delta-BHC	.	0	.	delta-BHC
4.594	43318	7.91247	Hept. epoxide	4.276	62955	7.39417	Hept. epoxide
4.705	463	.1783	o,p-DDE	4.391	1345	.25471	o,p-DDE
4.758	288	.05681	g. Chlordane	4.437	1083	.13095	g. Chlordane
4.963	67456	19.93302	4,4'-DDE	4.609	105307	14.92769	4,4'-DDE
5.087	38273	7.80484	Dieldrin	4.729	57857	7.2684	Dieldrin
4.831	106	.02209	a. Chlordane	.	0	.	a. Chlordane
5.263	27610	7.49351	Endrin	4.939	48467	7.3294	Endrin
5.362	46785	20.14586	4,4'-DDD	5.022	103437	18.93936	4,4'-DDD
.	0	.	Endosulfan II	5.138	833	.13966	Endosulfan II
5.598	50526	18.78036	4,4'-DDT	5.218	95872	17.64985	4,4'-DDT
5.532	49141	19.88152	Endrin aldehyde	5.293	86250	18.62162	Endrin aldehyde
5.705	1640	1.88224	Endo. sulfate	5.432	3200	.65554	Endo. sulfate
5.957	72110	76.44218	Methoxychlor	5.648	144366	73.9067	Methoxychlor
6.074	55179	17.40491	Endrin ketone	5.855	107679	17.42163	Endrin ketone
6.431	783	.3716	Mirex	.	0	.	Mirex
7.037	102945	76.53407	DCB	6.634	267375	76.15398	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.10A
Area File: C:\CPWIN\DATA1\1P6193B.10A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:58:40 PM
File Reported On: 7/12/2011 at 7:58:47 PM

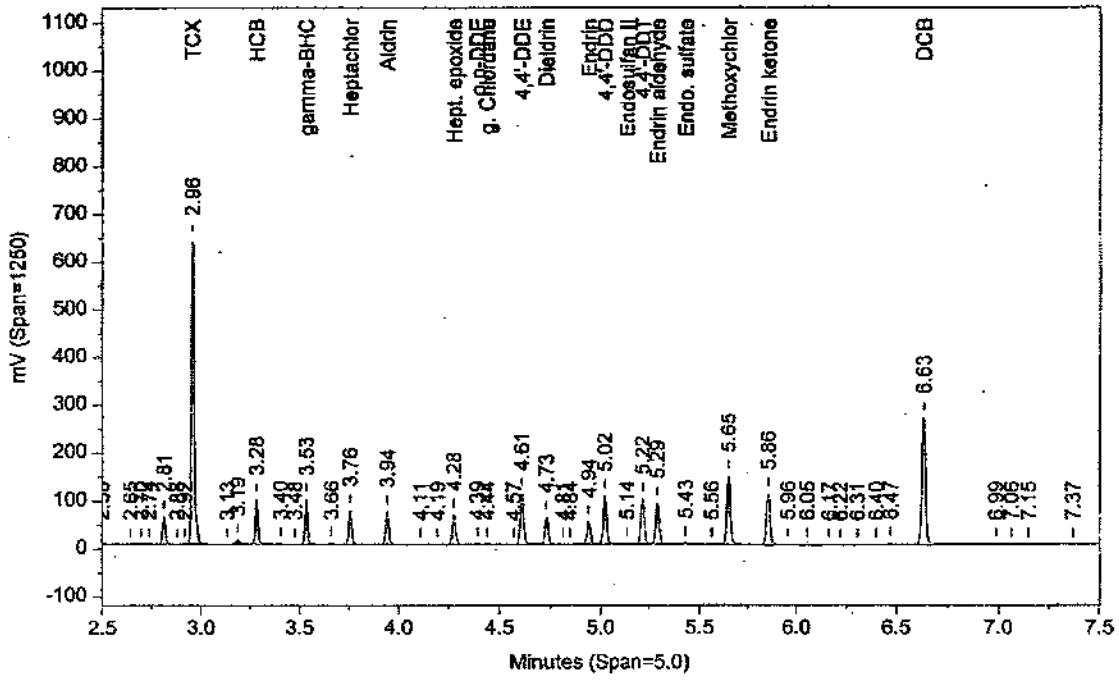
REPLOTS

USFB3 1674

508AM1124E BU508AMBU CCAL 1119299999 .
C:\CPWIN\DATA1\1P6193.10R



508AM1124E BU508AMBU CCAL 1119299999
C:\CPWIN\DATA1\1P6193B.10R

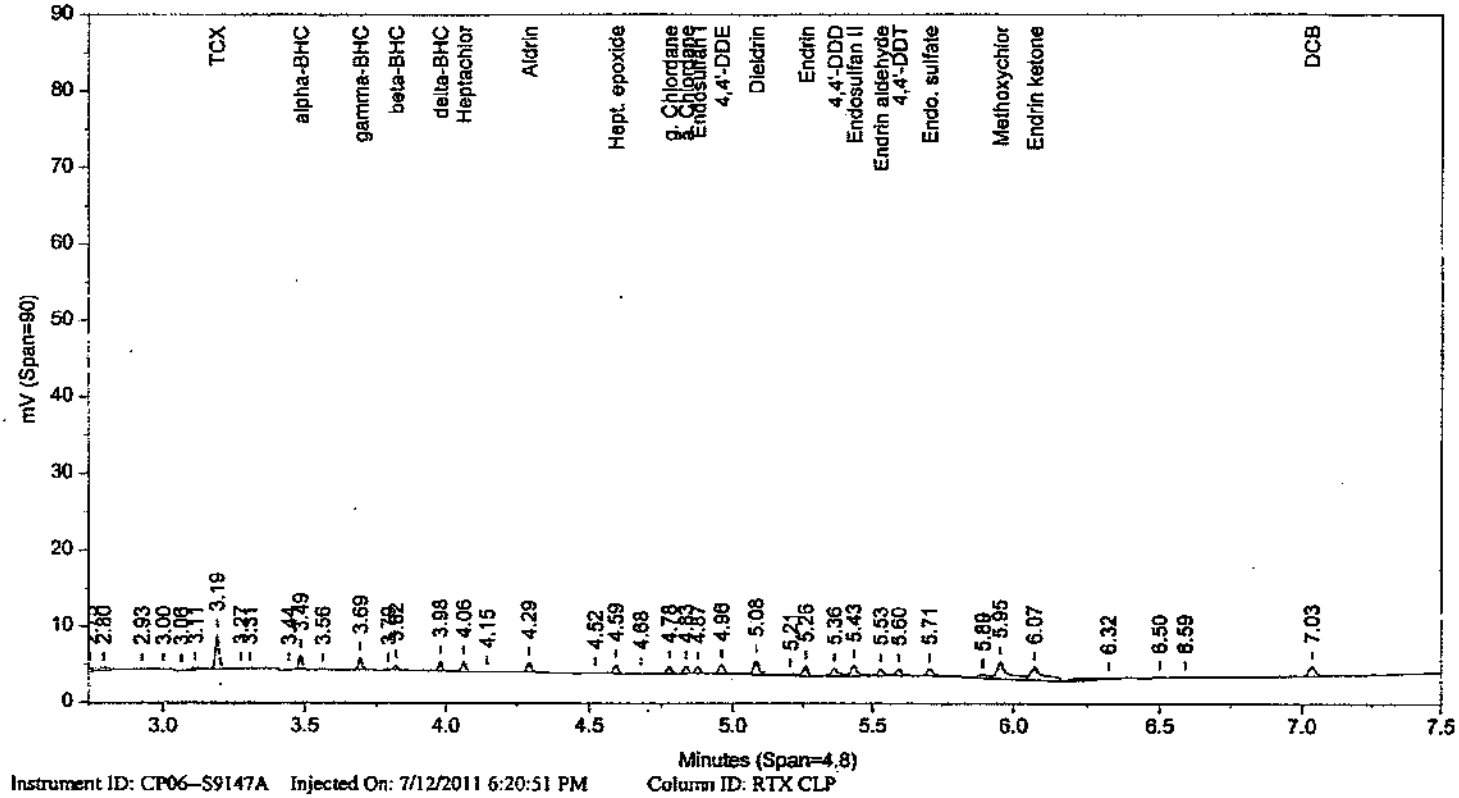


USP83 1675

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.11R

MDLAX1124B AAMDLAXAA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.11R

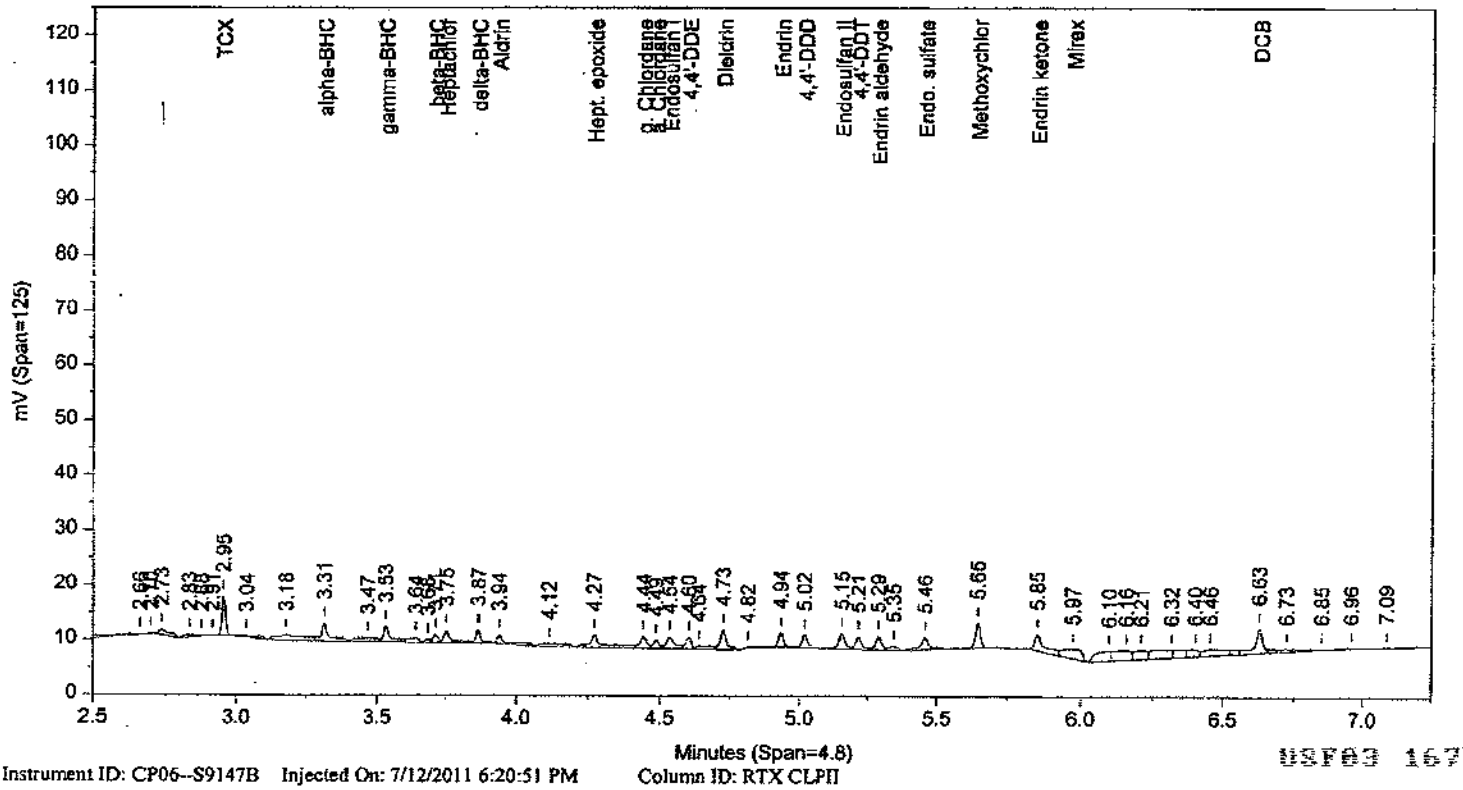


Instrument ID: CP06--S9147A Injected On: 7/12/2011 6:20:51 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.11R

MDLAX1124B AAMDLAXAA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.11R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 6:20:51 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Multidrie Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

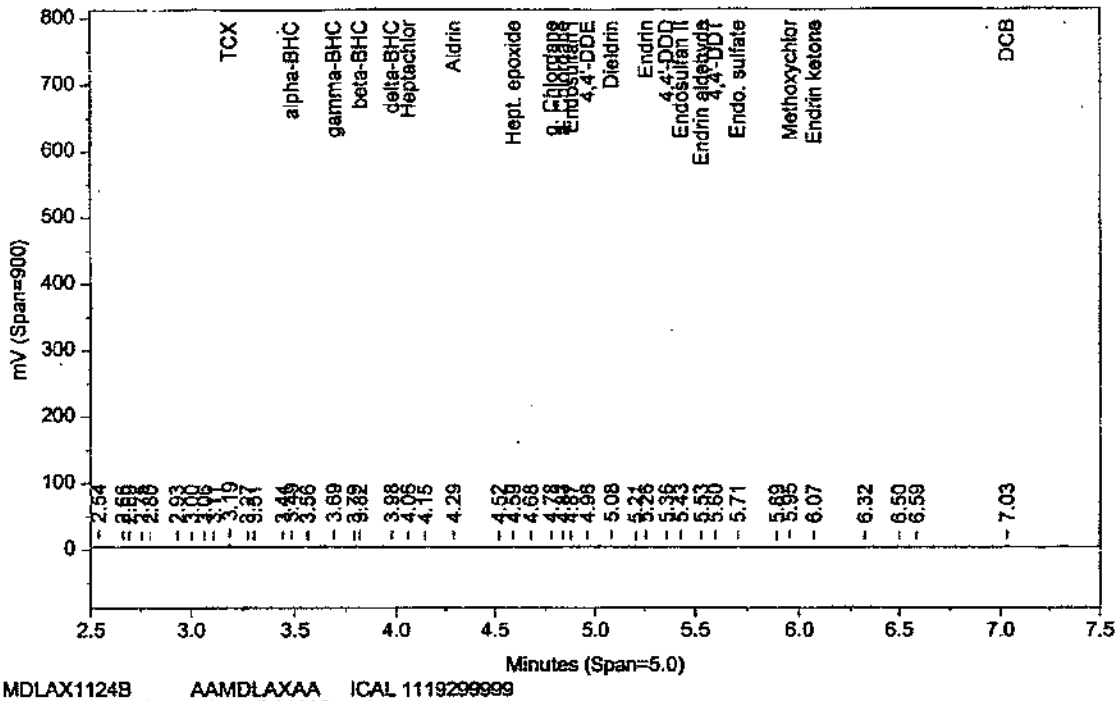
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.19	4400	.83708	TCX	2.954	7252	.82695	TCX
3.486	1855	.18787	alpha-BHC	3.314	3241	.22332	alpha-BHC
3.692	1604	.19179	gamma-BHC	3.532	2939	.22485	gamma-BHC
3.82	564	.1906	beta-BHC	3.712	1512	.2848	beta-BHC
4.063	1325	.19989	Heptachlor	3.753	2216	.23143	Heptachlor
3.979	1201	.17848	delta-BHC	3.867	2376	.19948	delta-BHC
4.292	1272	.18831	Aldrin	3.94	1556	.17935	Aldrin
4.591	1136	.20756	Hept. epoxide	4.272	2292	.26921	Hept. epoxide
4.776	1023	.2017	g. Chlordane	4.443	2201	.26614	g. Chlordane
4.833	935	.19456	a. Chlordane	4.488	1500	.20932	a. Chlordane
4.875	816	.18628	Endosulfan I	4.535	2076	.27677	Endosulfan I
4.959	1181	.34907	4,4'-DDE	4.603	2111	1.83932	4,4'-DDE
5.084	1904	.38825	Dieldrin	4.726	3632	.4563	Dieldrin
5.259	1357	1.26098	Endrin	4.935	2651	.40097	Endrin
5.361	987	.4248	4,4'-DDD	5.018	2331	.42676	4,4'-DDD
5.431	1378	.39183	Endosulfan II	5.153	2811	.47121	Endosulfan II
5.597	832	1.82594	4,4'-DDT	5.214	2297	.42295	4,4'-DDT
5.53	901	.36466	Endrin aldehyde	5.289	2395	.51705	Endrin aldehyde
5.705	959	1.67655	Endo. sulfate	5.457	2225	.45591	Endo. sulfate
5.954	2214	2.3468	Methoxychlor	5.645	4524	2.31604	Methoxychlor
6.072	1705	.53785	Endrin ketone	5.853	2984	.48286	Endrin ketone
.	0	.	Mirex	5.973	1732	.44046	Mirex
7.034	1253	.93174	DCB	6.631	4367	1.24384	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.11A
Area File: C:\CPWIN\DATA1\1P6193B.11A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:59:00 PM
File Reported On: 7/12/2011 at 7:59:06 PM

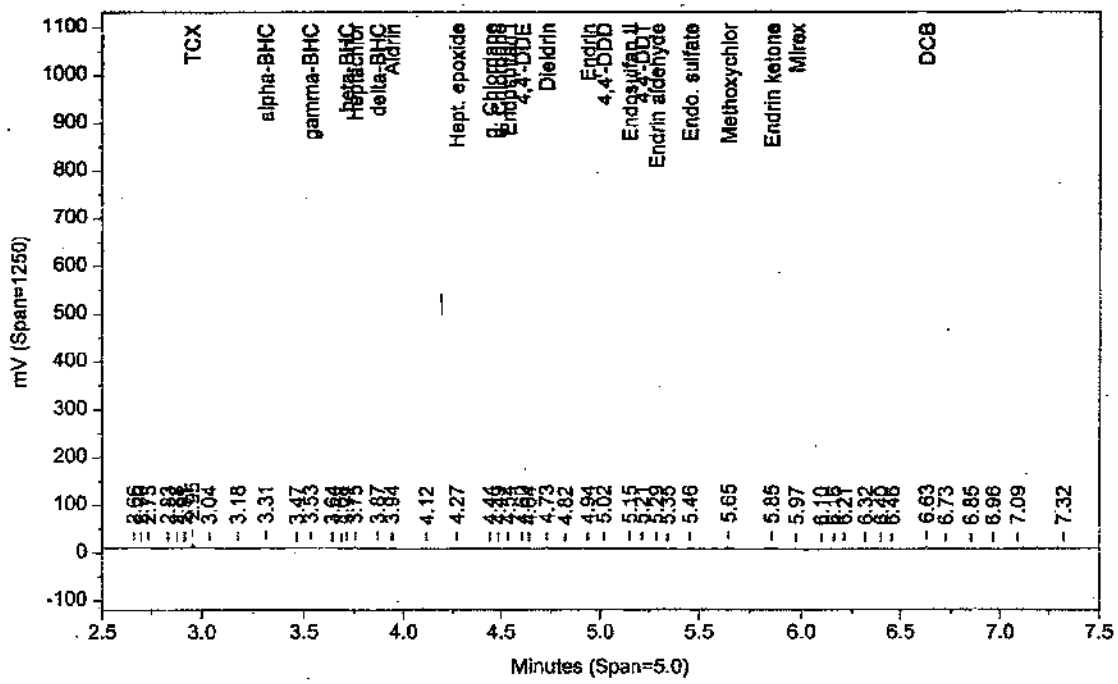
REPLOTS

USF03 1677

MDLAX1124B AAMDLAXAA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.11R



MDLAX1124B AAMDLAXAA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.11R

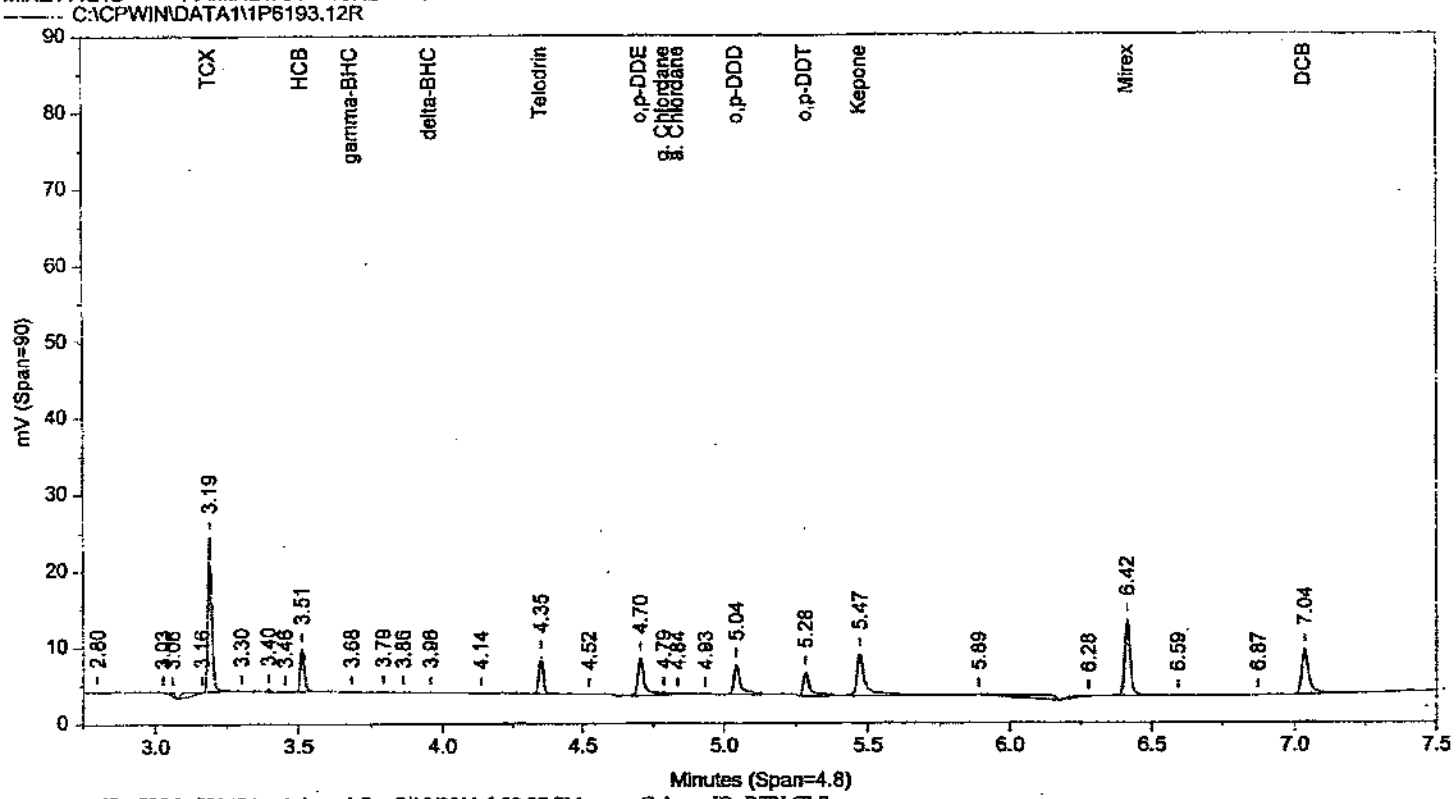


USF83 1679

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.12R

MIXE11124B AAMIXE1AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.12R

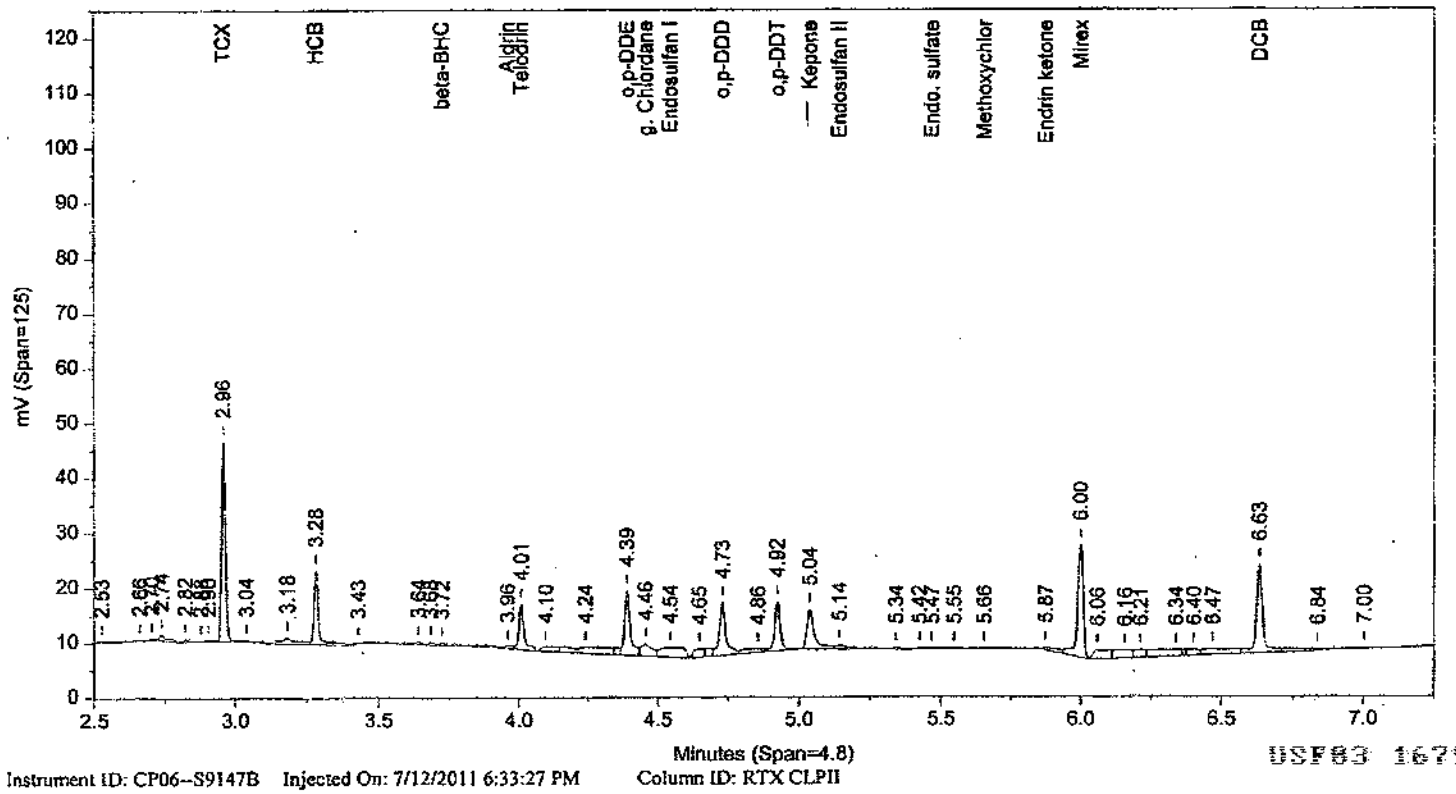


Instrument ID: CP06--S9147A Injected On: 7/12/2011 6:33:27 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.12R

MIXE11124B AAMIXE1AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.12R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 6:33:27 PM Column ID: RTX CLPII

USF83 1679

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMiddle Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

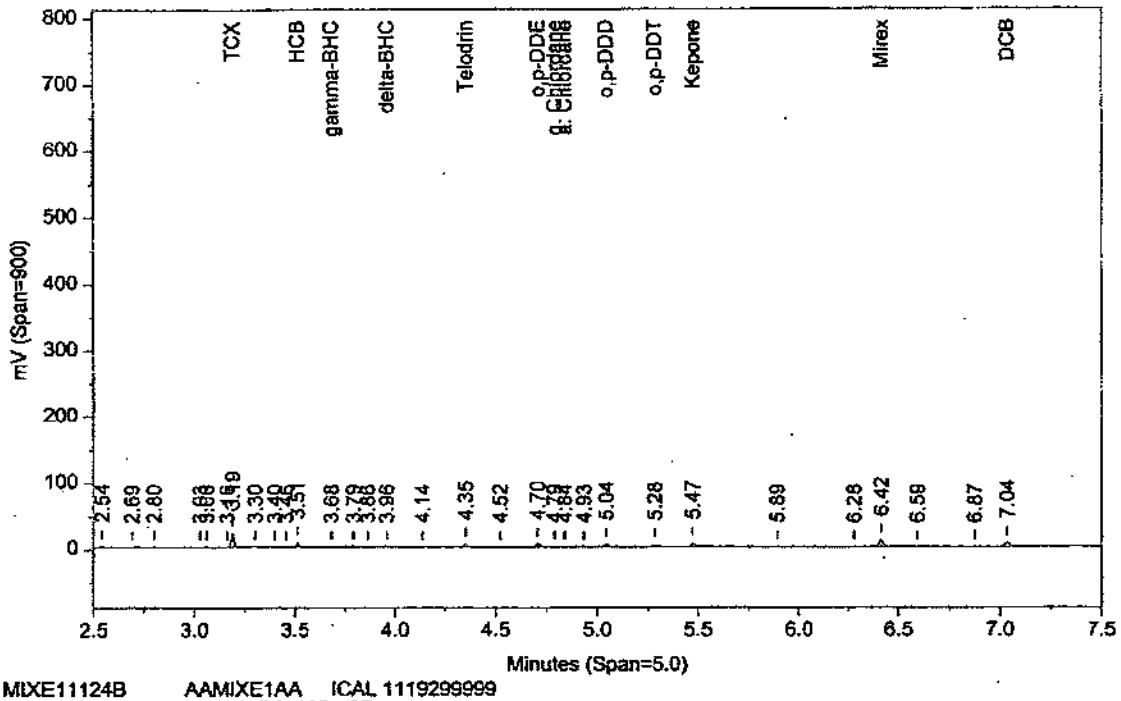
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.192	20793	3.95613	TCX	2.957	36200	4.12774	TCX
3.514	5733	97.92496	HCB	3.281	13512	.	HCB
3.683	57	.00684	gamma-BHC	.	0	.	gamma-BHC
.	0	.	beta-BHC	3.723	512	.09637	beta-BHC
3.958	120	.01785	delta-BHC	.	0	.	delta-BHC
.	0	.	Aldrin	3.96	409	.0471	Aldrin
4.352	5039	.	Telodrin	4.009	8221	.	Telodrin
4.705	5119	457.6959	o,p-DDE	4.39	11758	741.692	o,p-DDE
4.786	374	.07384	g. Chlordane	4.455	2171	.26257	g. Chlordane
.	0	.	Endosulfan I	4.544	1740	.23196	Endosulfan I
5.044	3952	.	o,p-DDD	4.73	9585	5.97939	o,p-DDD
4.837	174	.03629	a. Chlordane	.	0	.	a. Chlordane
5.284	3221	.	o,p-DDT	4.923	8994	.	o,p-DDT
5.475	5553	.	Kepone	5.038	7178	.	Kepone
.	0	.	Endosulfan II	5.143	764	.12804	Endosulfan II
.	0	.	Endo. sulfate	5.466	79	.01619	Endo. sulfate
.	0	.	Methoxychlor	5.656	116	.05962	Methoxychlor
.	0	.	Endrin ketone	5.874	474	.07672	Endrin ketone
6.415	10181	1472.695	Mirex	5.999	20599	.	Mirex
7.035	5879	4.3709	DCB	6.633	16121	4.59165	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.12A
Area File: C:\CPWIN\DATA1\1P6193B.12A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:39:54 PM
File Reported On: 7/12/2011 at 7:40:02 PM

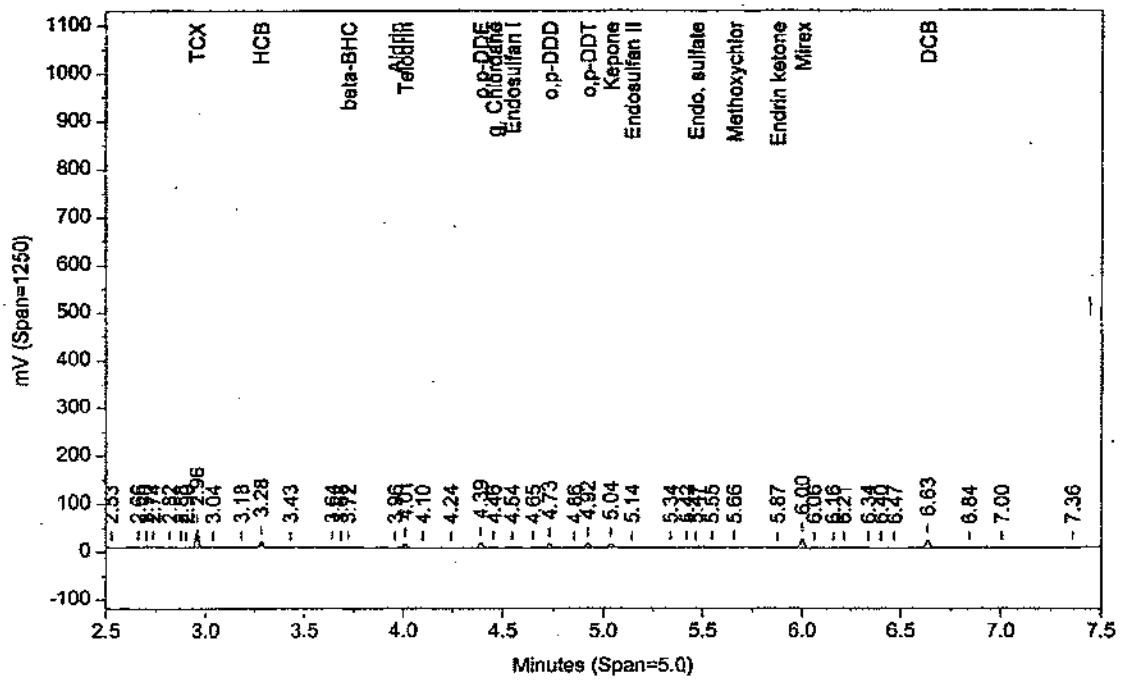
REPLOTS

USF83 6686

MIXE11124B AAMIXE1AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.12R



MIXE11124B AAMIXE1AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.12R

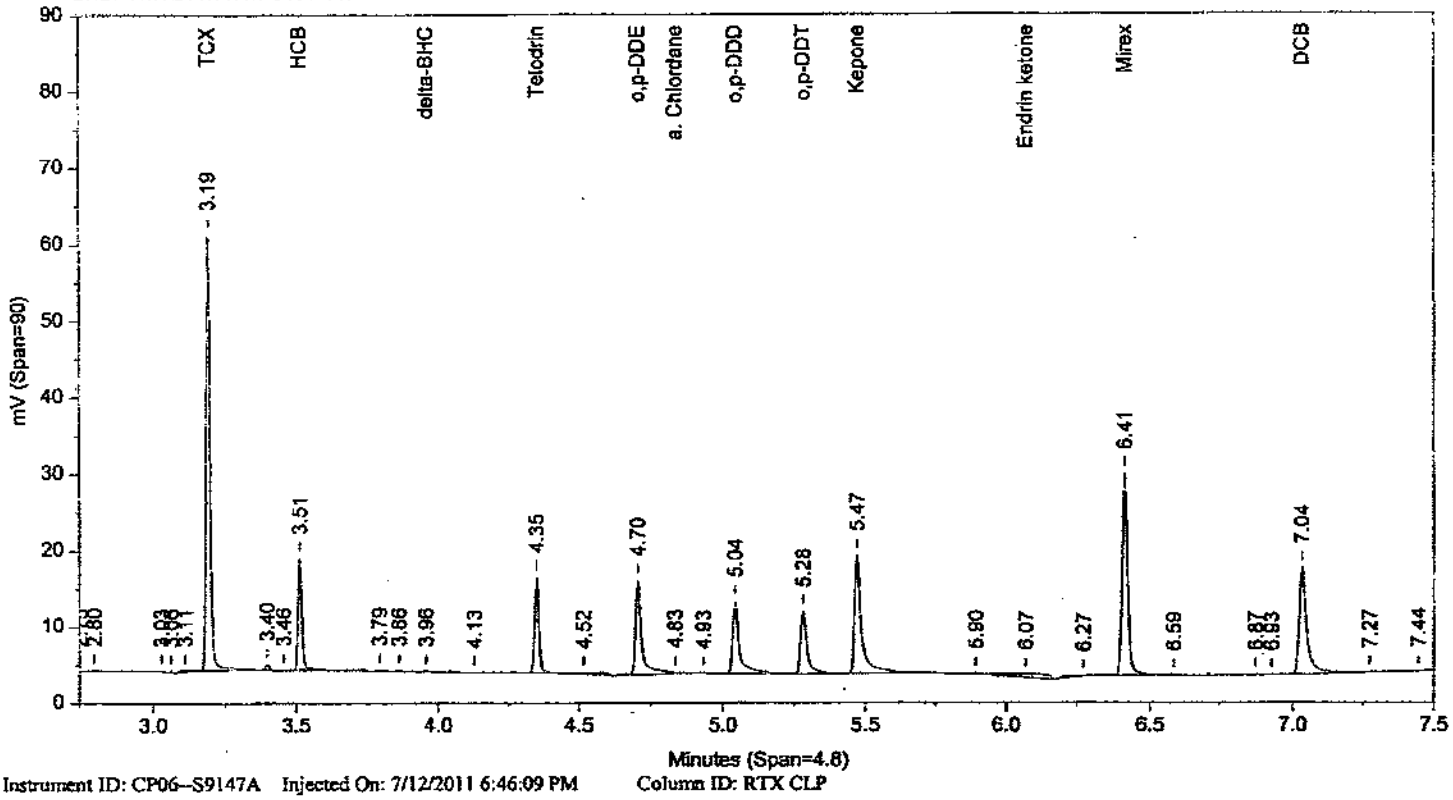


USF93 1681

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.13R

MIXE21124B AAMIXE2AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.13R

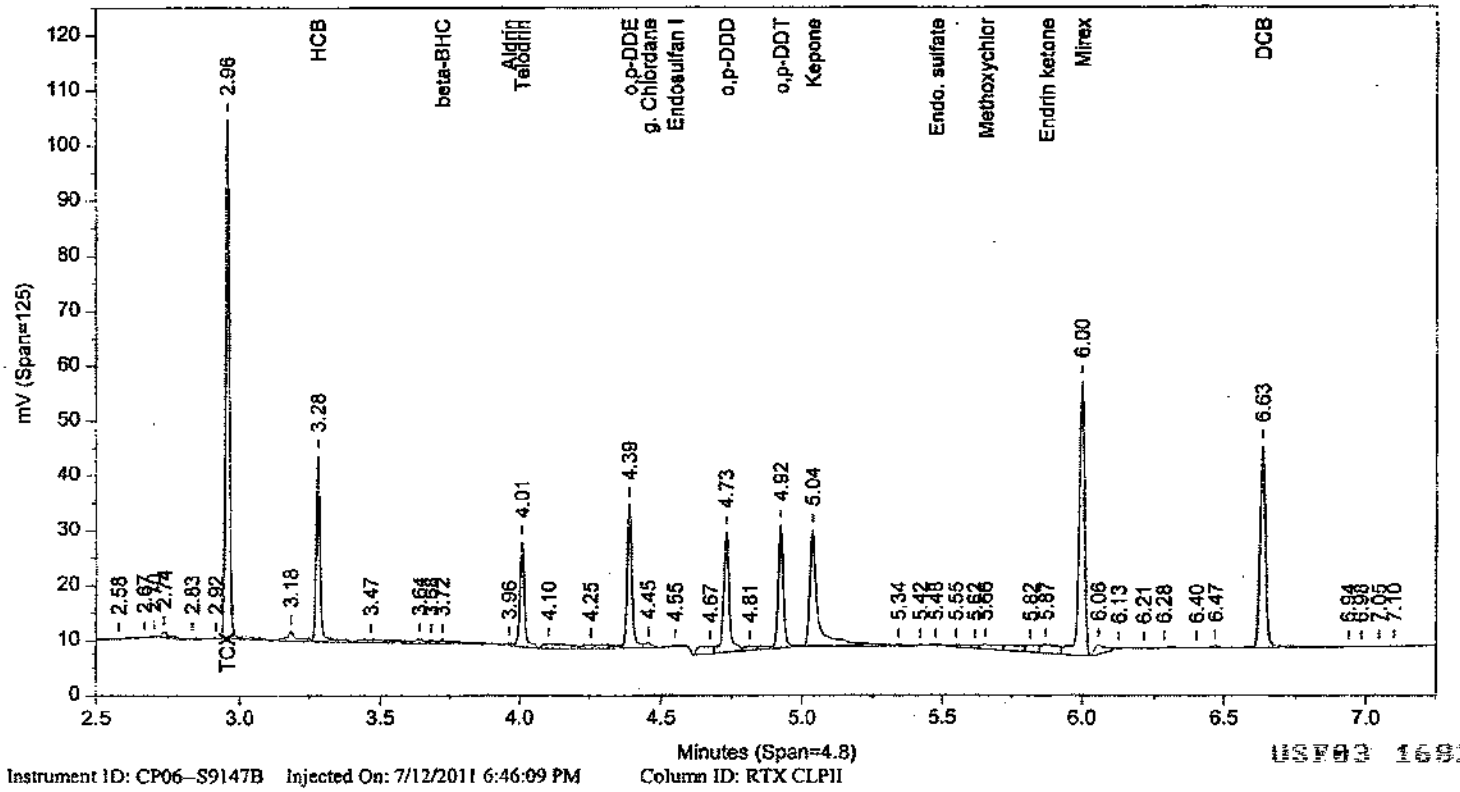


Instrument ID: CP06--S9147A Injected On: 7/12/2011 6:46:09 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.13R

MIXE21124B AAMIXE2AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.13R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 6:46:09 PM Column ID: RTX CLPII

USEPA 1692

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMulidrie Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

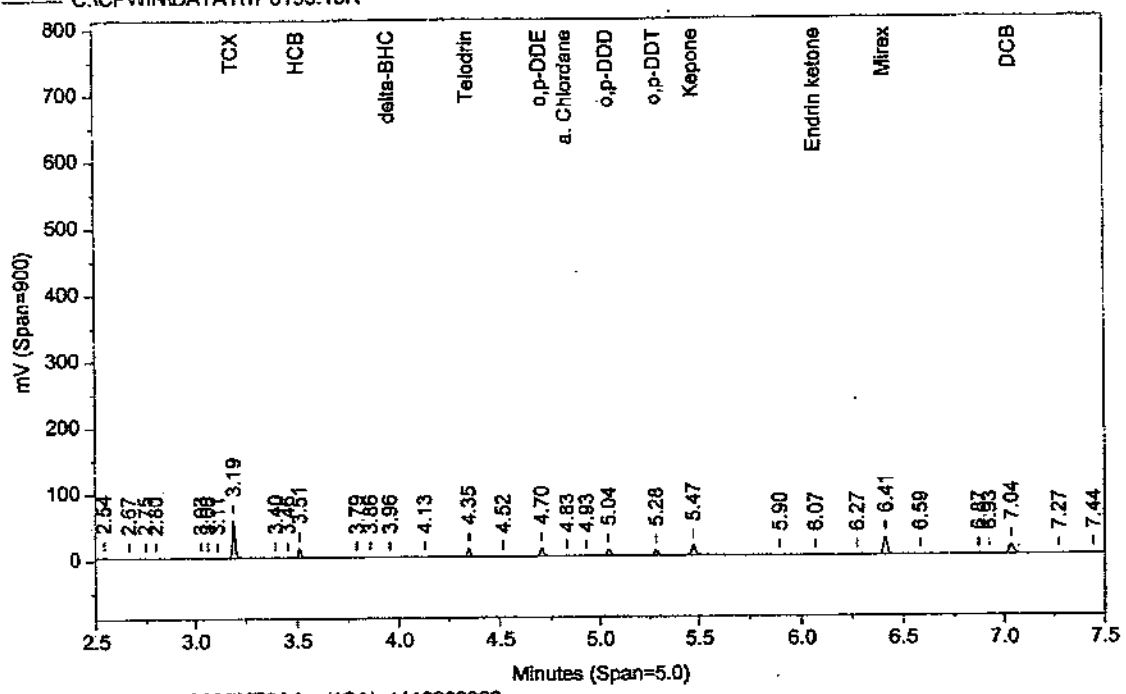
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.191	58562	11.1422	TCX	2.956	95088	10.8426	TCX
3.514	14720	251.4361	HCB	3.28	33806	.	HCB
.	0	.	beta-BHC	3.722	669	.12609	beta-BHC
3.957	155	.02302	delta-BHC	.	0	.	delta-BHC
.	0	.	Aldrin	3.963	391	.04509	Aldrin
4.35	12652	.	Telodrin	4.008	19424	.	Telodrin
4.704	12572	1124.197	o,p-DDE	4.389	26336	1664.583	o,p-DDE
.	0	.	g. Chlordane	4.455	893	.10797	g. Chlordane
.	0	.	Endosulfan I	4.55	220	.02929	Endosulfan I
5.044	9475	.	o,p-DDD	4.73	21864	13.63898	o,p-DDD
4.833	231	.04808	a. Chlordane	.	0	.	a. Chlordane
5.283	8252	.	o,p-DDT	4.923	22461	.	o,p-DDT
5.474	15525	.	Kepone	5.037	21161	.	Kepone
.	0	.	Endo. sulfate	5.476	232	.04756	Endo. sulfate
.	0	.	Methoxychlor	5.656	878	.44971	Methoxychlor
6.071	511	.16106	Endrin ketone	5.873	1605	.25962	Endrin ketone
6.415	26812	3878.564	Mirex	5.999	50380	.	Mirex
7.035	14103	10.48472	DCB	6.632	36806	10.48302	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.13A
Area File: C:\CPWIN\DATA1\1P6193B.13A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:40:14 PM
File Reported On: 7/12/2011 at 7:40:22 PM

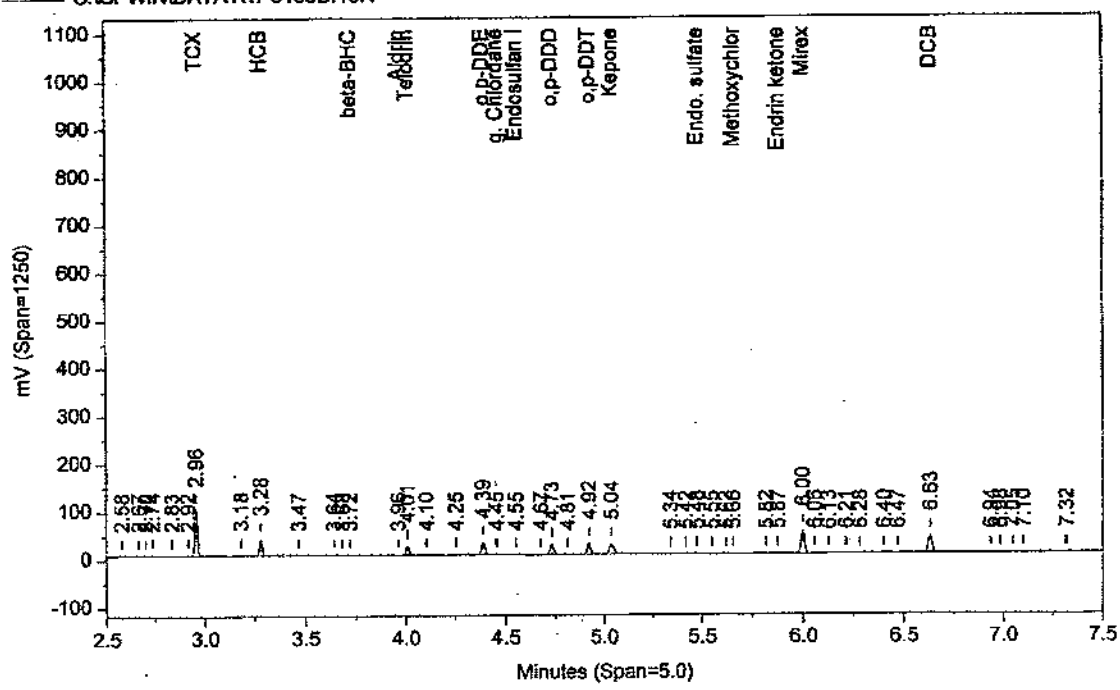
REPLOTS

USP83 1693

MIXE21124B AAMIXE2AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.13R

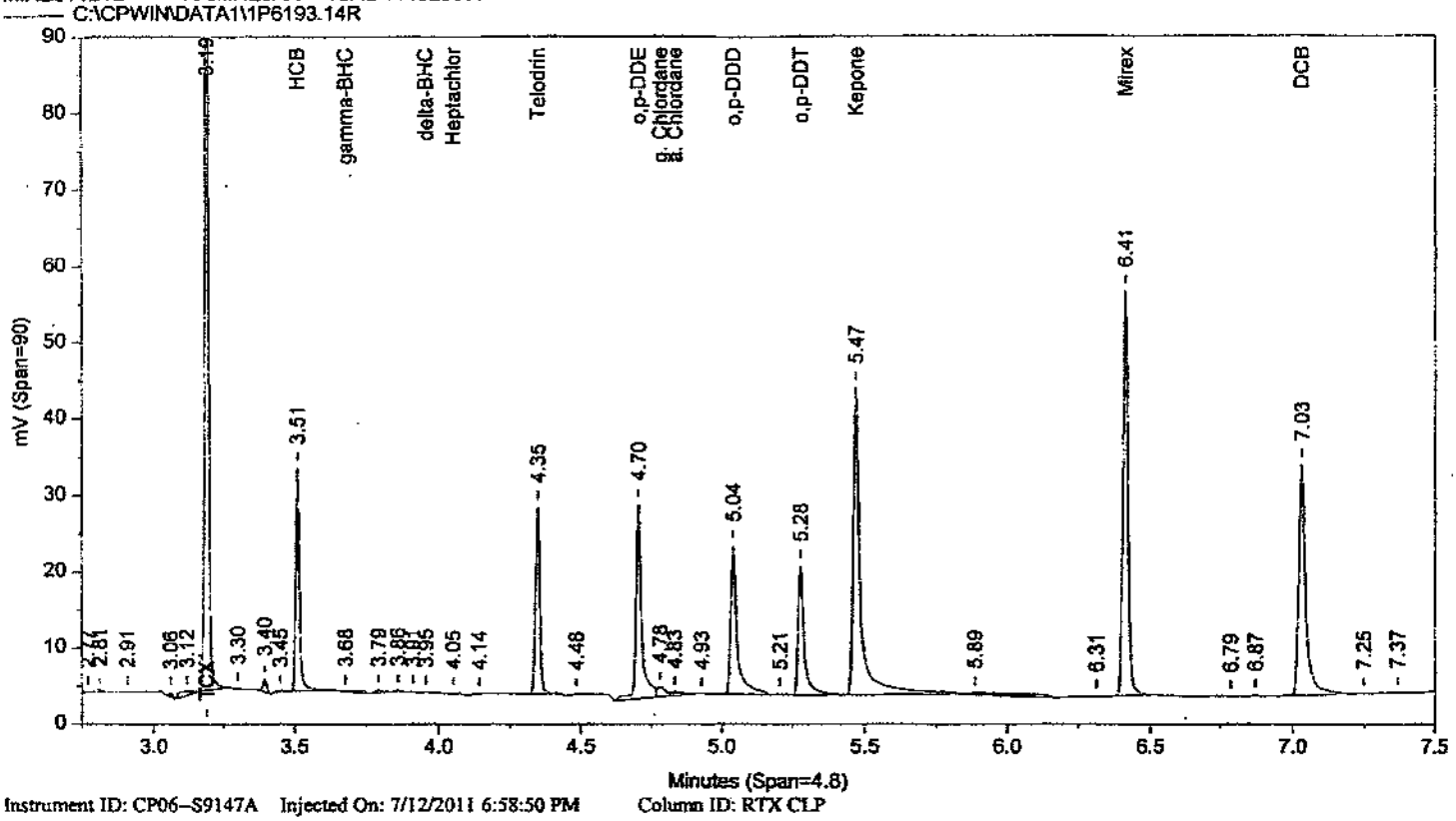


MIXE21124B AAMIXE2AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.13R



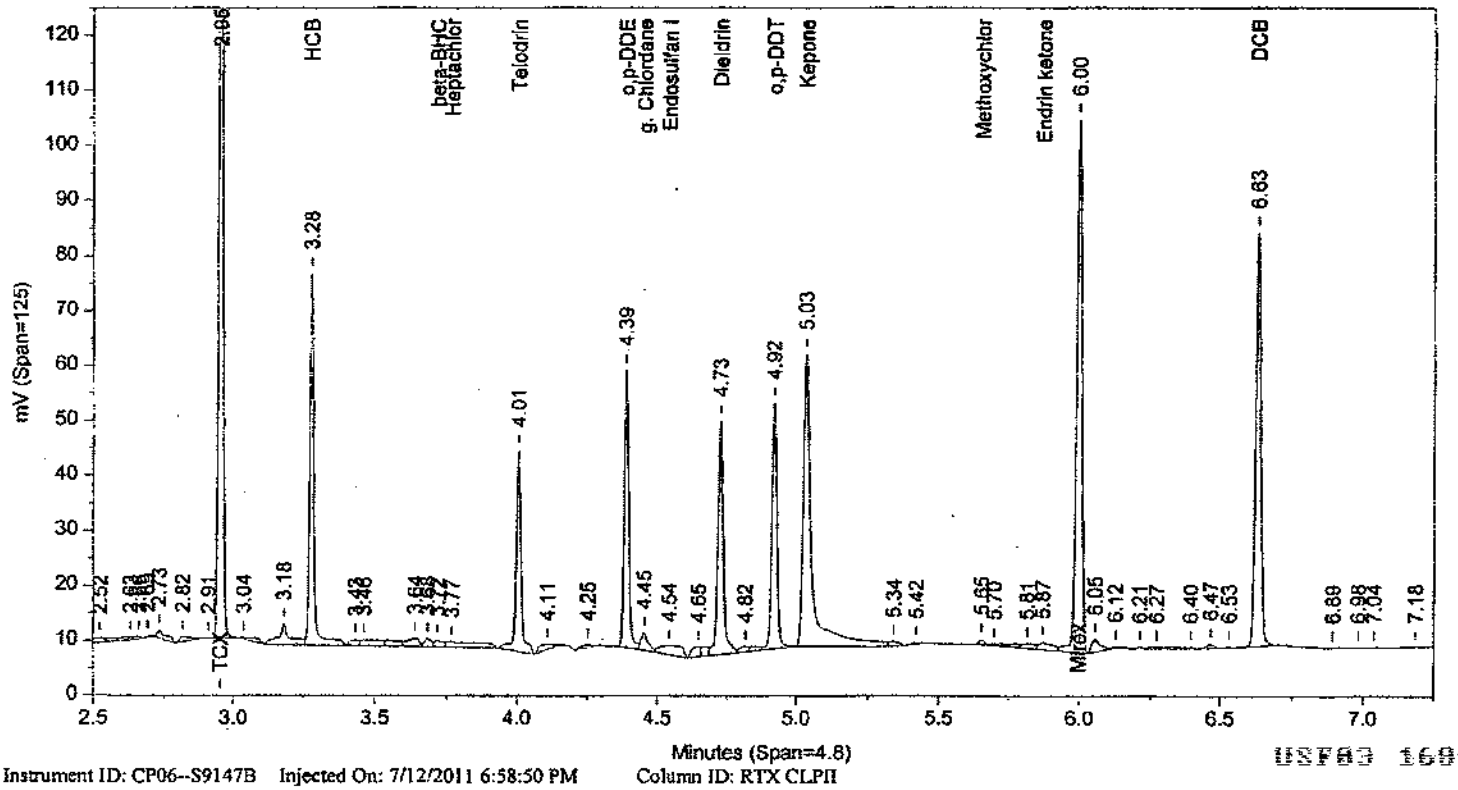
USP83 1684

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.14R
MIXE31124B AAMIXE3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.14R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 6:58:50 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.14R
MIXE31124B AAMIXE3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.14R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 6:58:50 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Multiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

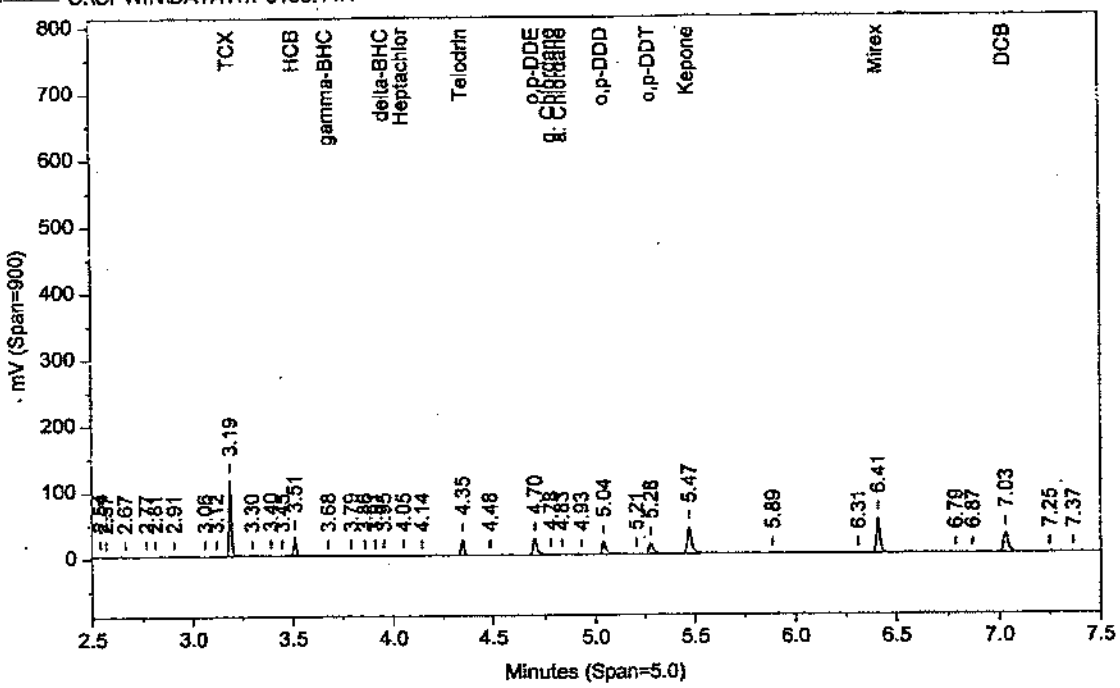
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.189	116964	22.25408	TCX	2.953	198732	22.66094	TCX
3.511	29597	505.5375	HCB	3.278	68262	.	HCB
3.677	152	.01819	gamma-BHC	.	0	.	gamma-BHC
.	0	.	beta-BHC	3.719	1169	.22028	beta-BHC
4.05	171	.02586	Heptachlor	3.769	949	.09912	Heptachlor
3.955	211	.03135	delta-BHC	.	0	.	delta-BHC
4.349	24992	.	Telodrin	4.006	36803	.	Telodrin
4.702	25800	2306.957	o,p-DDE	4.387	50516	3195.338	o,p-DDE
4.78	1278	.25202	g. Chlordane	4.452	3166	.38293	g. Chlordane
.	0	.	Endosulfan I	4.544	1666	.22218	Endosulfan I
.	0	.	Dieldrin	4.727	42507	6.68674	Dieldrin
4.833	439	.09132	a. Chlordane	.	0	.	a. Chlordane
5.281	17050	.	o,p-DDT	4.921	44719	.	o,p-DDT
5.471	40357	.	Kepone	5.035	53529	.	Kepone
5.041	19598	.	o,p-DDD	.	0	.	o,p-DDD
.	0	.	Methoxychlor	5.652	979	.50094	Methoxychlor
.	0	.	Endrin ketone	5.871	1279	.20692	Endrin ketone
6.411	53395	7723.961	Mirex	5.996	96912	.	Mirex
7.031	30420	22.61585	DCB	6.629	76155	21.69047	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.14A
Area File: C:\CPWIN\DATA1\1P6193B.14A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:40:34 PM
File Reported On: 7/12/2011 at 7:40:42 PM

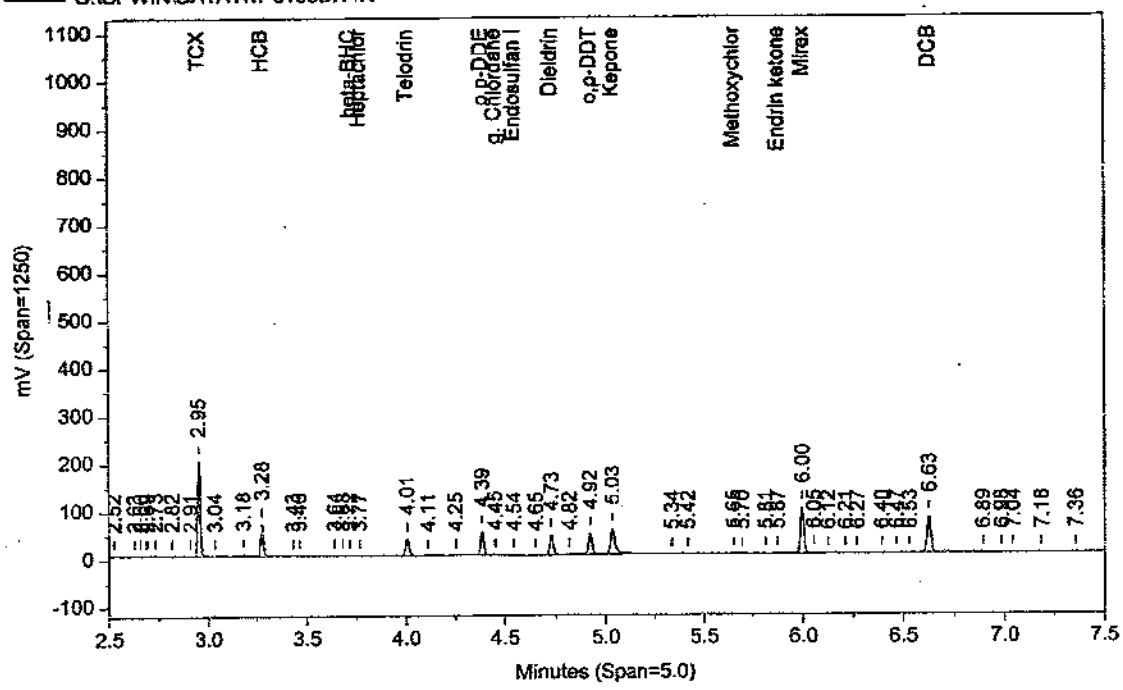
REPLOTS

USF83 1686

MIXE31124B AAMIXE3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.14R



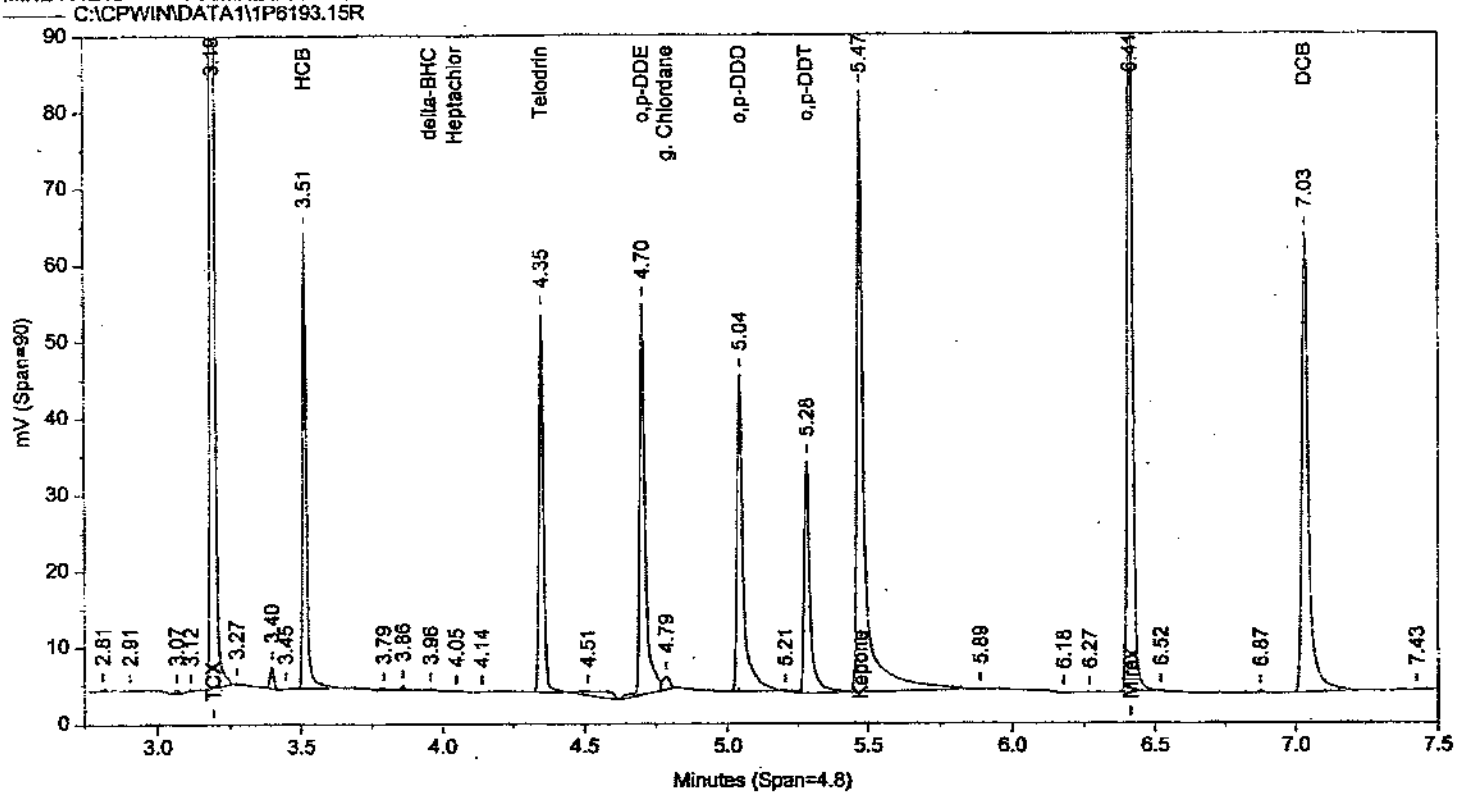
MIXE31124B AAMIXE3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.14R



LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.15R

MIXE41124B AAMIXE4AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.15R

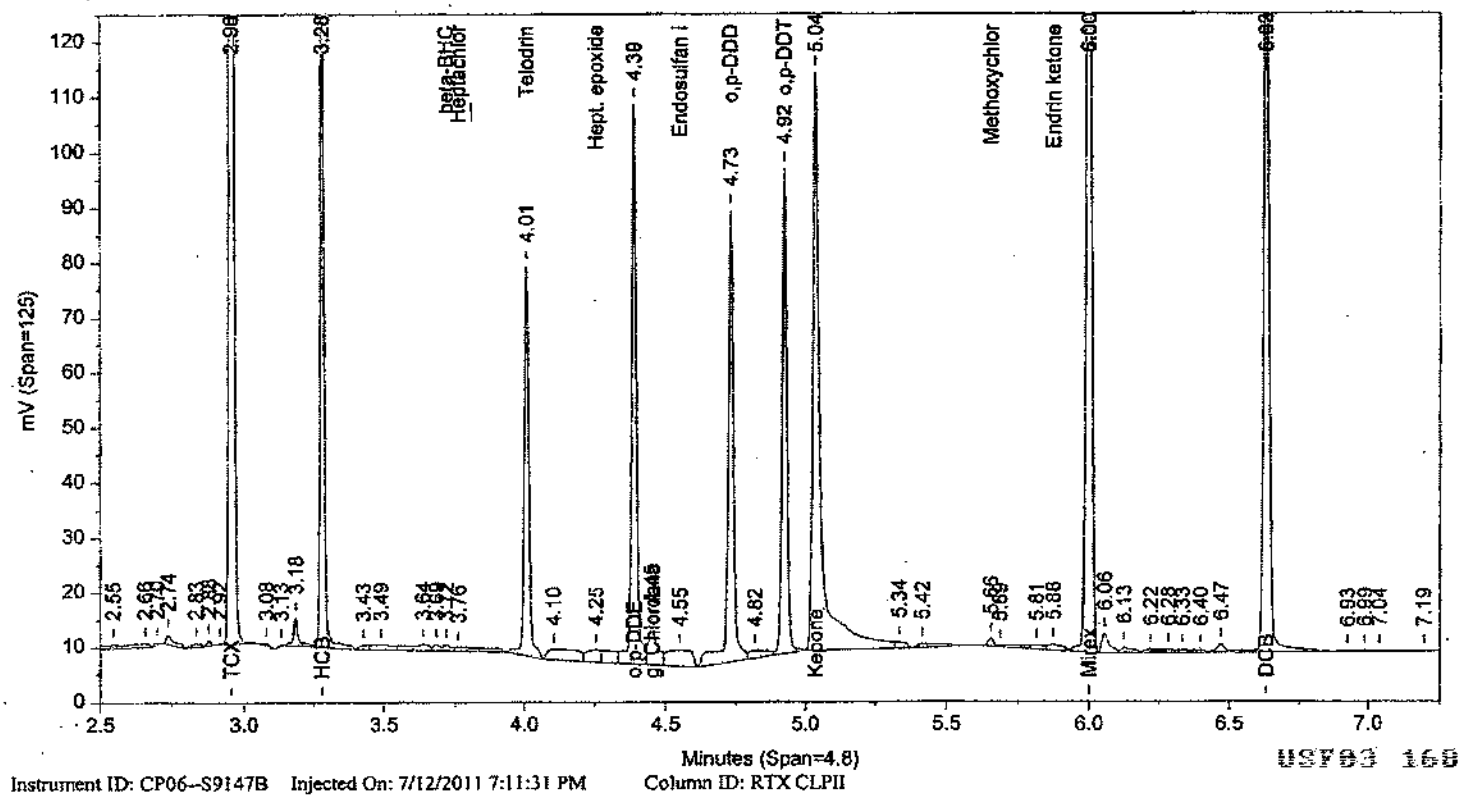


Instrument ID: CP06--S9147A Injected On: 7/12/2011 7:11:31 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.15R

MIXE41124B AAMIXE4AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.15R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 7:11:31 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMultiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

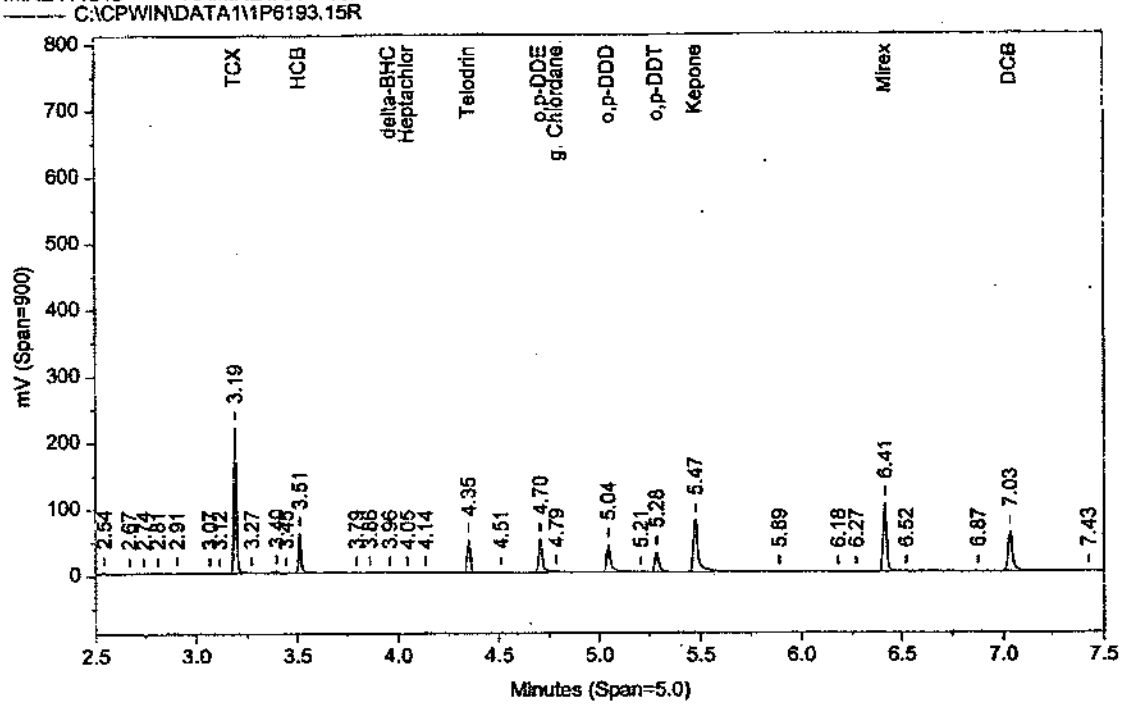
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.192	227593	43.30294	TCX	2.956	380006	43.3311	TCX
3.514	59806	1021.545	HCB	3.28	137947	.	HCB
.	0	.	beta-BHC	3.721	117!	.22061	beta-BHC
4.048	99	.01497	Heptachlor	3.764	766	.07999	Heptachlor
3.958	266	.03956	delta-BHC	.	0	.	delta-BHC
4.35	49782	.	Telodrin	4.008	71903	.	Telodrin
.	0	.	Hept. epoxide	4.254	2317	.27214	Hept. epoxide
4.704	51541	4608.723	o,p-DDE	4.39	101783	6440.923	o,p-DDE
4.785	1700	.33518	g. Chlordane	4.454	6869	.83068	g. Chlordane
.	0	.	Endosulfan I	4.55	2921	.38949	Endosulfan I
5.043	41468	.	o,p-DDD	4.73	82173	51.25975	o,p-DDD
5.284	30493	.	o,p-DDT	4.923	88411	.	o,p-DDT
5.474	78814	.	Kepone	5.037	104996	.	Kepone
.	0	.	Methoxychlor	5.655	1438	.73624	Methoxychlor
.	0	.	Endrin ketone	5.876	1155	.18687	Endrin ketone
6.414	104001	15044.45	Mirex	5.999	188474	.	Mirex
7.034	60307	44.83525	DCB	6.632	150758	42.93918	DCB

Files:
Area File: C:\CPWIN\DATA1\IP6193.15A
Area File: C:\CPWIN\DATA1\IP6193B.15A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\IP6193.CAL
Calibration File B: C:\CPWIN\DATA1\IP6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:40:54 PM
File Reported On: 7/12/2011 at 7:41:02 PM

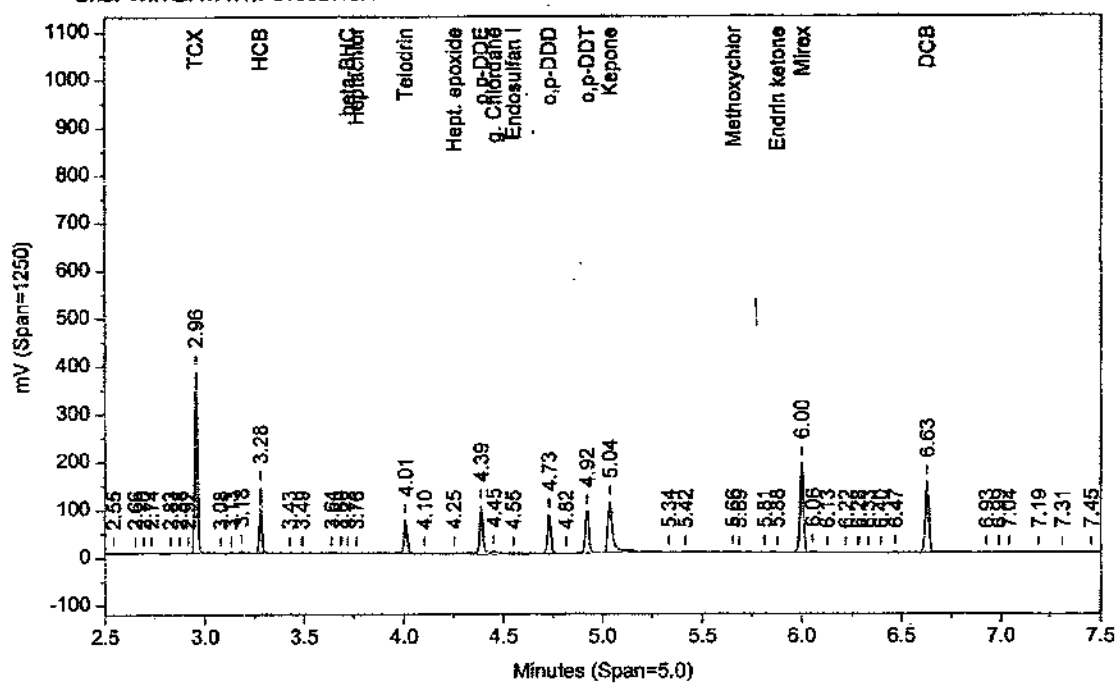
REPLOTS

US783 1689

MIXE41124B AAMIXE4AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.15R



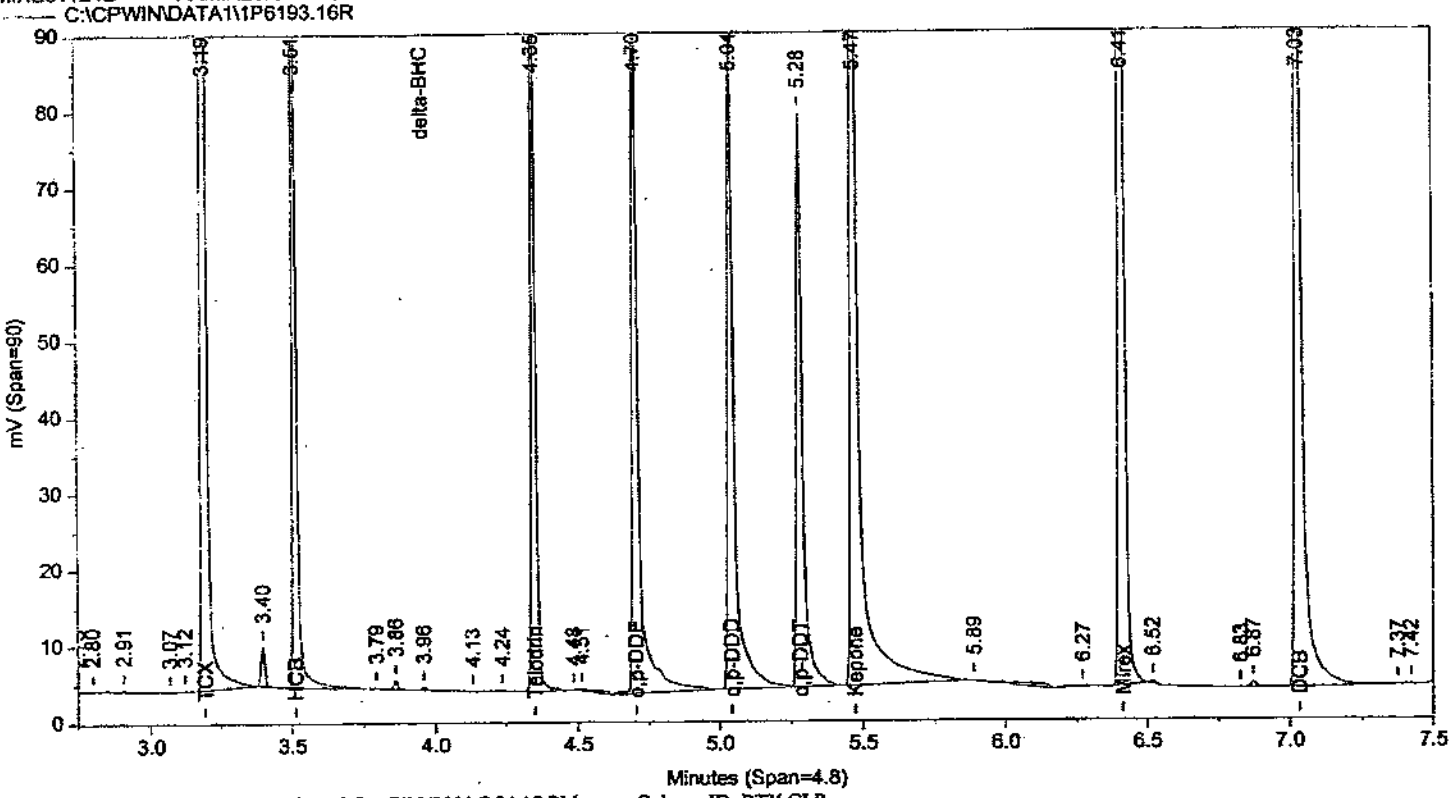
MIXE41124B AAMIXE4AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.15R



LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.16R

MIXE51124B AAMIXE5AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.16R

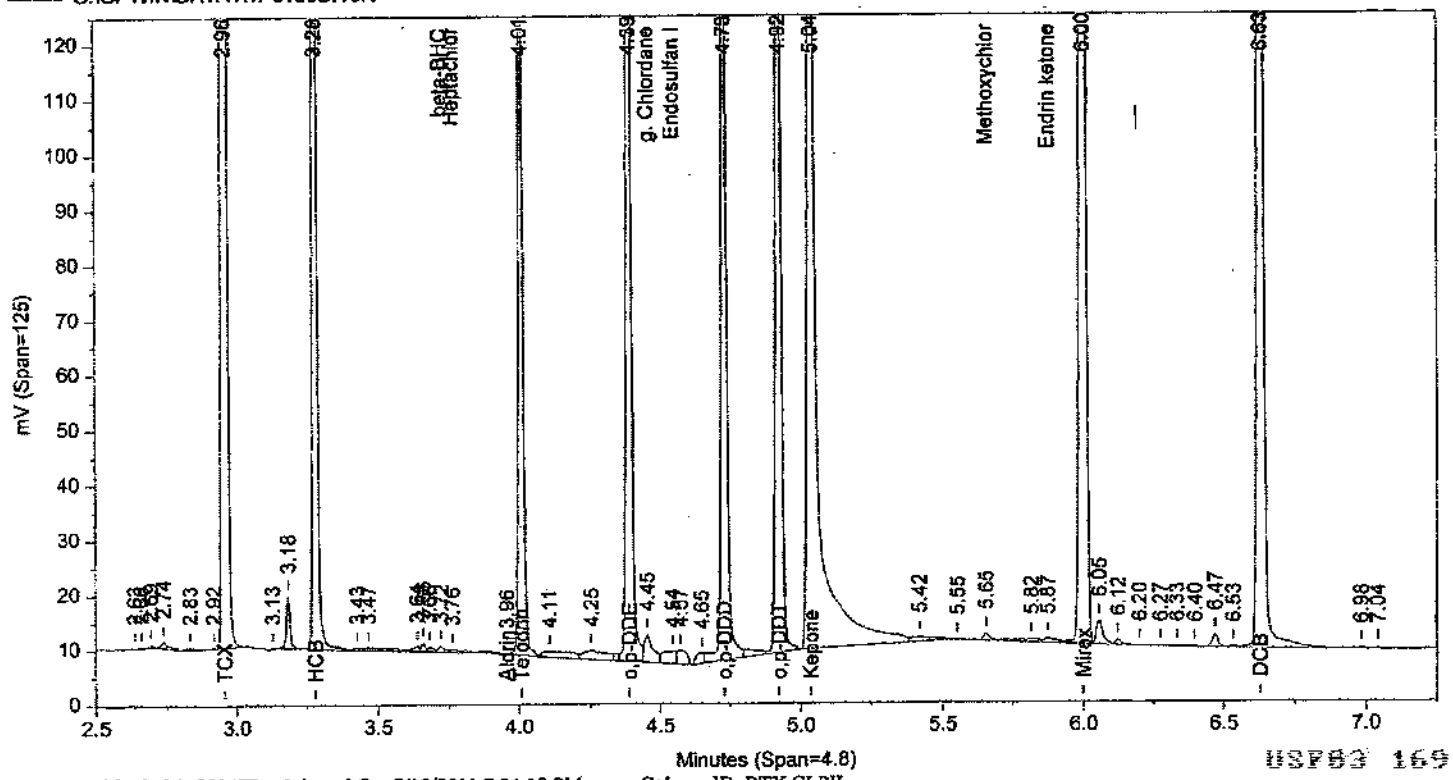


Instrument ID: CP06--S9147A Injected On: 7/12/2011 7:24:18 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.16R

MIXE51124B AAMIXE5AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.16R



USP89 1691

Instrument ID: CP06--S9147B Injected On: 7/12/2011 7:24:18 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMethdrin Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

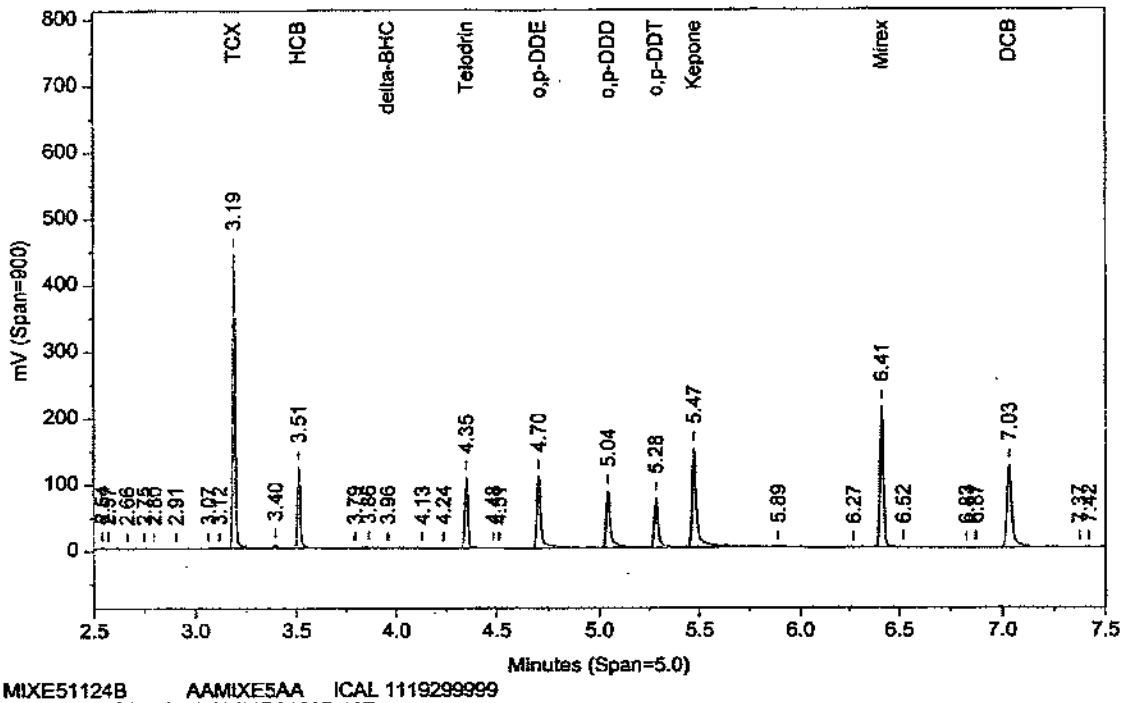
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.192	452561	86.10629	TCX	2.956	719030	81.9892	TCX
3.513	122837	2098.181	HCB	3.28	287983	.	HCB
.	0	.	beta-BHC	3.721	1063	.20027	beta-BHC
.	0	.	Heptachlor	3.761	520	.05426	Heptachlor
.	0	.	Aldrin	3.957	354	.0408	Aldrin
3.958	346	.05138	delta-BHC	.	0	.	delta-BHC
4.35	107518	.	Telodrin	4.008	151050	.	Telodrin
4.704	109892	9826.419	o,p-DDE	4.389	204770	12960.75	o,p-DDE
.	0	.	g. Chlordane	4.453	5002	.60491	g. Chlordane
.	0	.	Endosulfan I	4.544	2277	.30359	Endosulfan I
5.043	86482	.	o,p-DDD	4.729	173788	108.4087	o,p-DDD
5.282	75552	.	o,p-DDT	4.922	187022	.	o,p-DDT
5.473	150299	.	Kepone	5.036	201756	.	Kepone
.	0	.	Methoxychlor	5.655	1290	.6605	Methoxychlor
.	0	.	Endrin ketone	5.874	848	.13726	Endrin ketone
6.414	214441	31020.19	Mirex	5.999	386679	.	Mirex
7.033	124292	92.40487	DCB	6.631	330953	94.26248	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.16A
Area File: C:\CPWIN\DATA1\1P6193B.16A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:41:14 PM
File Reported On: 7/12/2011 at 7:41:22 PM

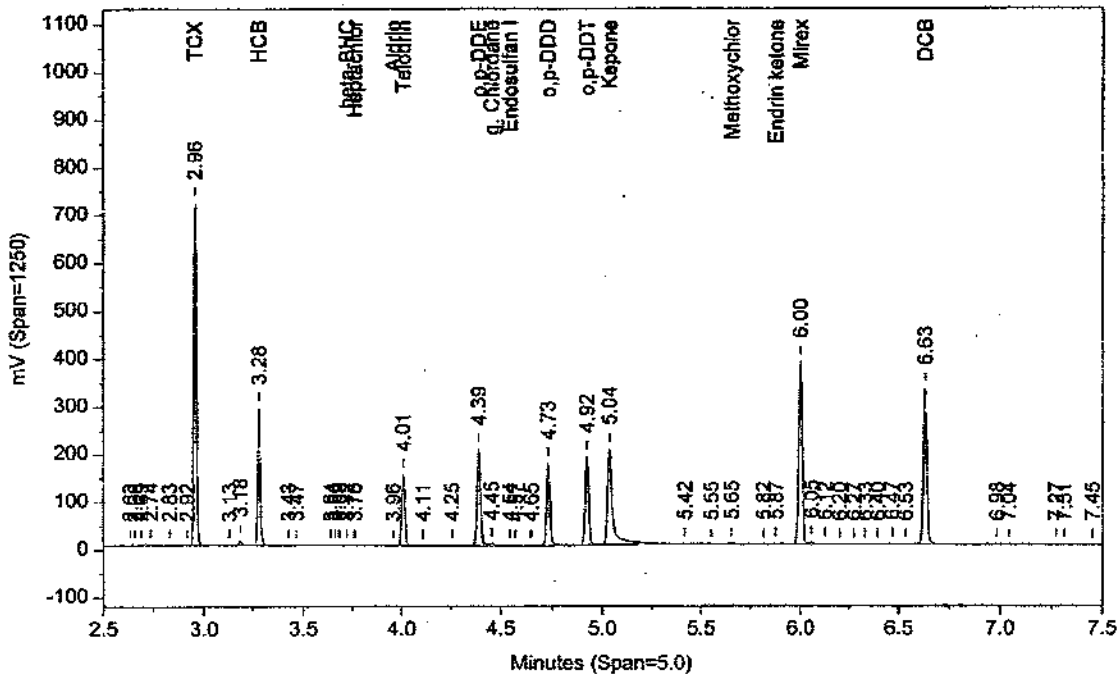
REPLOTS

USF83 1692

MIXE51124B AAMIXE5AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.16R

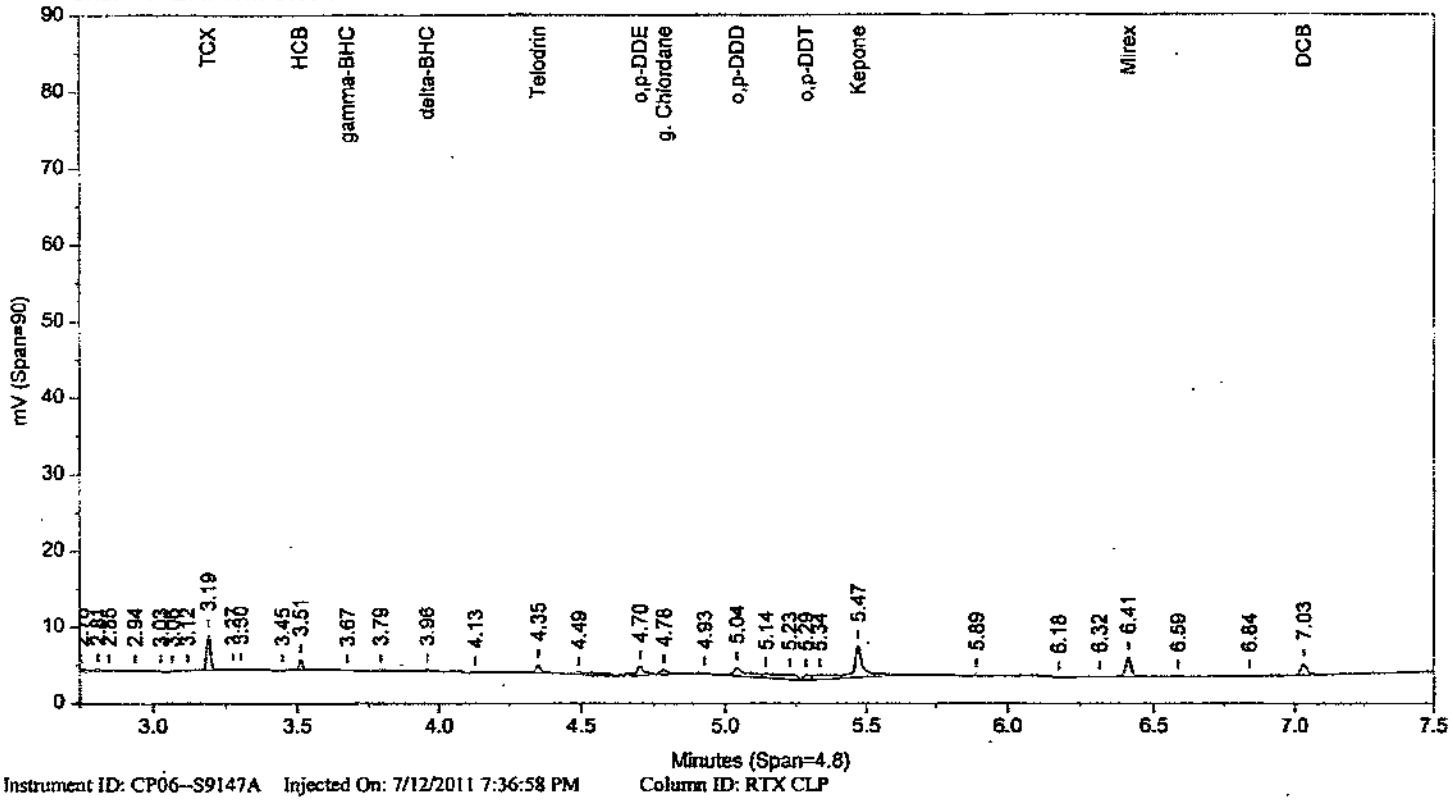


MIXE51124B AAMIXE5AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.16R



USF03 1693

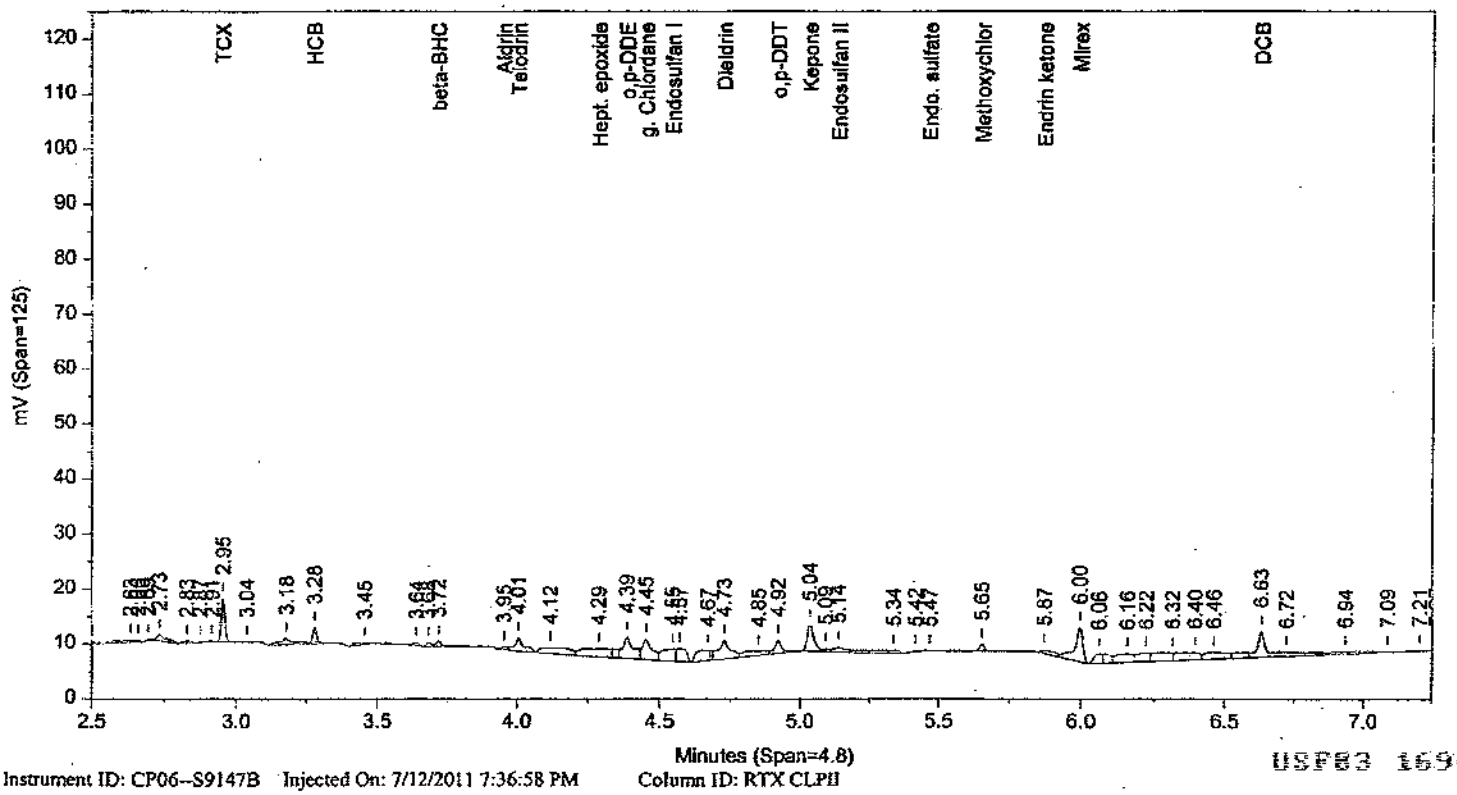
LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.17R
MDLEX1124B AAMDLEXAA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.17R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 7:36:58 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.17R

MDLEX1124B AAMDLEXAA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.17R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 7:36:58 PM Column ID: RTX CLPII

USP83 1694

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMuldrie Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.19	4625	.88	TCX	2.954	7841	.89411	TCX
3.512	1353	.22811	HCB	3.278	2965	.2152	HCB
3.675	65	.00774	gamma-BHC	.	0	.	gamma-BHC
.	0	.	beta-BHC	3.72	1011	.19047	beta-BHC
.	0	.	Aldrin	3.955	515	.0593	Aldrin
3.956	310	.04614	delta-BHC	.	0	.	delta-BHC
4.349	1082	.42527	Telodrin	4.006	2412	.31659	Telodrin
.	0	.	Hept. epoxide	4.29	1467	.1723	Hept. epoxide
4.703	1259	.48502	o,p-DDE	4.388	3947	.74739	o,p-DDE
4.785	598	.11796	g. Chlordane	4.453	3706	.44817	g. Chlordane
.	0	.	Endosulfan I	4.546	2156	.28749	Endosulfan I
.	0	.	Dieldrin	4.728	3370	.42337	Dieldrin
5.287	712	.42457	o,p-DDT	4.921	2343	.51937	o,p-DDT
5.473	4106	6.37442	Kepone	5.036	4759	5.91739	Kepone
5.042	1083	.53798	o,p-DDD	.	0	.	o,p-DDD
.	0	.	Endosulfan II	5.14	868	.1455	Endosulfan II
.	0	.	Endo. sulfate	5.468	57	.01161	Endo. sulfate
.	0	.	Methoxychlor	5.654	1244	.63666	Methoxychlor
.	0	.	Endrin ketone	5.873	660	.10682	Endrin ketone
6.412	2529	1.20003	Mirex	5.997	6219	1.58148	Mirex
7.033	1453	1.08003	DCB	6.63	4763	1.35664	DCB

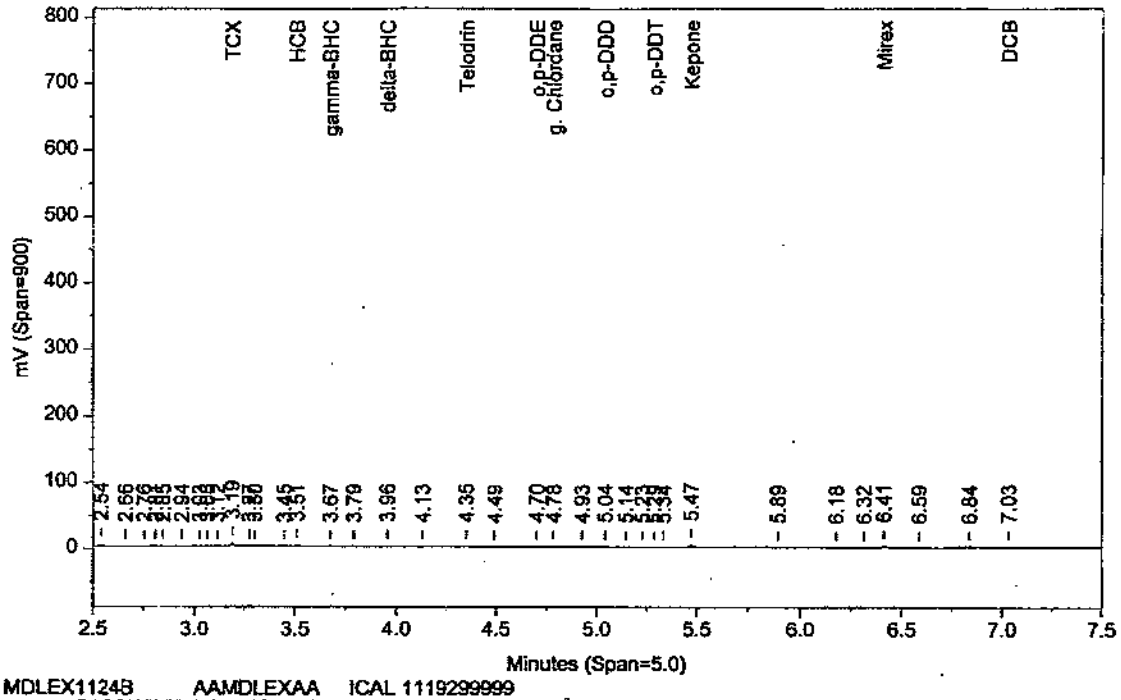
o,p DDD
7/12/11

Files:
Area File: C:\CPWIN\DATA1\1P6193.17A
Area File: C:\CPWIN\DATA1\1P6193B.17A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 7:59:18 PM
File Reported On: 7/12/2011 at 7:59:25 PM

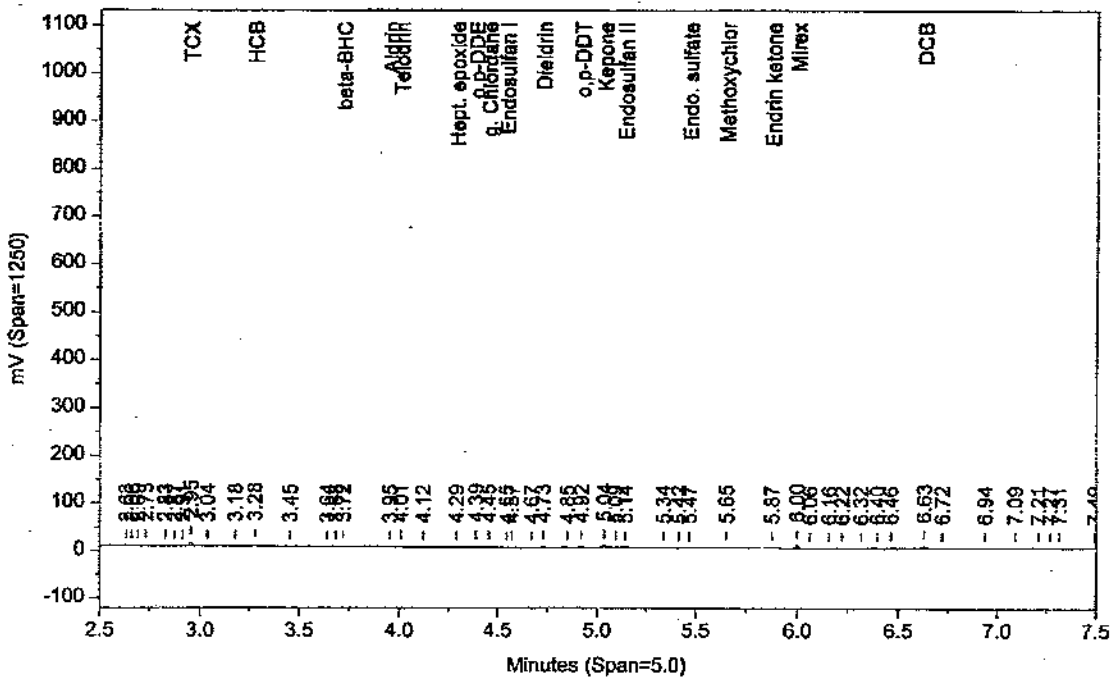
REPLOTS

USF83 1695

MDLEX1124B AAMDLEXAA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.17R



MDLEX1124B AAMDLEXAA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.17R



USF83 1696

Sample Name: **TOXA11124A AATOXA1AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 07:57:06pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.18R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.320		0.0000	0.000	669.6	0.258	BB	0.033	342.21	0.230
2	2.475		0.0000	0.000	2924.1	1.125	BV	0.135	362.18	0.243
3	2.542		0.0000	0.000	4421.6	1.701	VB	0.037	1983.88	1.332
4	2.660		0.0000	0.000	598.7	0.230	BV	0.053	189.37	0.127
5	2.749		0.0000	0.000	314.4	0.121	VB	0.051	103.10	0.069
6	2.808		0.0000	0.000	166.9	0.064	BB	0.024	114.32	0.077
7	2.868		0.0000	0.000	956.4	0.368	BB	0.051	311.82	0.209
8	3.029		0.0000	0.000	81.8	0.031	BB	0.011	118.66	0.080
9	3.064		0.0000	0.000	159.9	0.062	BB	0.013	199.85	0.134
10	3.108		0.0000	0.000	739.5	0.285	BB	0.048	259.20	0.174
11	3.276		0.0000	0.000	181.4	0.070	BB	0.031	97.24	0.065
12	3.304		0.0000	0.000	78.3	0.030	BB	0.012	107.01	0.072
13	3.337		0.0000	0.000	590.9	0.227	BB	0.069	142.64	0.096
14	3.471	alpha-BHC	0.0091	0.042	365.9	0.141	BB	0.068	89.69	0.060
15	3.568		0.0000	0.000	315.5	0.121	BB	0.051	103.40	0.069
16	3.692	gamma-BHC	0.0266	0.124	237.6	0.091	BB	0.018	222.66	0.149
17	3.766		0.0000	0.000	763.6	0.294	BB	0.015	855.30	0.574
18	3.861		0.0000	0.000	76.7	0.030	BB	0.024	53.42	0.036
19	3.917		0.0000	0.000	889.0	0.342	BB	0.015	983.23	0.660
20	3.957	delta-BHC	0.0455	0.212	277.0	0.107	BB	0.015	305.92	0.205
21	4.007		0.0000	0.000	124.8	0.048	BB	0.030	70.13	0.047
22	4.038		0.0000	0.000	452.6	0.174	BB	0.021	364.83	0.245
23	4.100		0.0000	0.000	1035.1	0.398	BB	0.016	1110.27	0.745
24	4.142		0.0000	0.000	416.8	0.160	BB	0.030	230.36	0.155
25	4.237		0.0000	0.000	1381.4	0.531	BB	0.025	926.31	0.622
26	4.293	Aldrin	0.0379	0.177	256.0	0.099	BB	0.017	256.29	0.172
27	4.322		0.0000	0.000	57.4	0.022	BB	0.013	75.26	0.051
28	4.345	Telodrin	0.0677	0.315	141.8	0.055	BB	0.014	172.19	0.116
29	4.372		0.0000	0.000	777.8	0.299	BB	0.021	611.88	0.411
30	4.436		0.0000	0.000	97.5	0.038	BB	0.017	95.77	0.064
31	4.471		0.0000	0.000	2805.2	1.079	BB	0.033	1435.37	0.964
32	4.529		0.0000	0.000	918.3	0.353	BB	0.018	853.65	0.573
33	4.589	Hept. epoxide	0.4853	2.260	3199.5	1.231	BB	0.020	2657.09	1.784
34	4.638		0.0000	0.000	132.0	0.051	BB	0.022	99.46	0.067
35	4.673		0.0000	0.000	462.9	0.178	BB	0.020	380.06	0.255
36	4.714	o,p-DDE	0.6819	3.175	2113.8	0.813	BV	0.020	1769.94	1.188
37	4.755		0.0000	0.000	2160.7	0.831	VV	0.022	1657.35	1.113
38	4.786	g. Chlordane	0.5134	2.391	4462.1	1.717	VV	0.029	2603.44	1.748
39	4.851	a. Chlordane	0.1567	0.730	743.0	0.286	VB	0.016	752.61	0.505
40	4.882	Endosulfan I	0.0445	0.207	195.8	0.075	BV	0.017	194.85	0.131
41	4.923		0.0000	0.000	3041.1	1.170	VB	0.043	1185.65	0.796
42	4.999		0.0000	0.000	6431.0	2.474	BV	0.037	2924.85	1.964
43	5.073		0.0000	0.000	2335.9	0.899	VV	0.030	1315.99	0.883
44	5.095	Dieldrin	0.3973	1.850	2079.6	0.800	VV	0.018	1948.39	1.308
45	5.155		0.0000	0.000	7591.5	2.921	VV	0.029	4313.42	2.896
46	5.185		0.0000	0.000	2790.4	1.074	VV	0.019	2420.63	1.625
47	5.215		0.0000	0.000	12434.0	4.784	VB	0.033	6196.24	4.160
48	5.305		0.0000	0.000	2704.6	1.041	BV	0.023	1933.76	1.298
49	5.335		0.0000	0.000	3917.6	1.507	VV	0.032	2014.24	1.352
50	5.400		0.0000	0.000	6299.4	2.424	VV	0.030	3446.86	2.314
51	5.437	Endosulfan II	2.3198	10.803	12108.3	4.659	VV	0.025	8158.18	5.477
52	5.474	Kepone	11.1629	51.982	13269.5	5.105	VB	0.028	7767.09	5.214
53	5.534	Endrin aldehyde	0.2533	1.179	495.8	0.191	BB	0.013	626.00	0.420
54	5.562		0.0000	0.000	2705.6	1.041	BB	0.018	2459.49	1.651
55	5.627		0.0000	0.000	16573.0	6.376	BV	0.031	8872.49	5.957
56	5.695	Endo. sulfate	3.9255	18.280	15156.8	5.832	VB	0.030	8405.36	5.643
57	5.762		0.0000	0.000	6606.9	2.542	BV	0.021	5211.87	3.499
58	5.810		0.0000	0.000	10843.7	4.172	VV	0.044	4070.45	2.733
59	5.852		0.0000	0.000	2582.6	0.994	VV	0.018	2417.81	1.623
60	5.882		0.0000	0.000	5840.2	2.247	VV	0.024	4118.70	2.765
61	5.911		0.0000	0.000	6151.4	2.367	VV	0.021	4769.05	3.202
62	5.927		0.0000	0.000	8515.0	3.276	VV	0.026	5403.43	3.628

USFW3 1697

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	6.011		0.0000	0.000	35534.6	13.672	VV	0.050	11849.82	7.955
64	6.095	Endrin ketone	1.2729	5.927	6120.8	2.355	VV	0.025	4035.35	2.709
65	6.123		0.0000	0.000	3203.8	1.233	VV	0.015	3466.25	2.327
66	6.136		0.0000	0.000	6548.3	2.519	VB	0.030	3651.45	2.451
67	6.202		0.0000	0.000	1111.6	0.428	BV	0.020	928.60	0.623
68	6.227		0.0000	0.000	2615.4	1.006	VB	0.027	1622.42	1.089
69	6.280		0.0000	0.000	5828.6	2.243	BB	0.021	4529.27	3.041
70	6.323		0.0000	0.000	401.0	0.154	BB	0.022	299.33	0.201
71	6.369		0.0000	0.000	5288.8	2.035	BB	0.040	2227.32	1.495
72	6.447		0.0000	0.000	3298.6	1.269	BB	0.036	1507.04	1.012
73	6.524		0.0000	0.000	531.9	0.205	BB	0.019	456.12	0.306
74	6.564		0.0000	0.000	209.0	0.080	BB	0.016	217.38	0.146
75	6.640		0.0000	0.000	214.9	0.083	BB	0.038	94.62	0.064
76	6.713		0.0000	0.000	1316.6	0.507	BB	0.034	636.34	0.427
77	6.899		0.0000	0.000	61.0	0.023	BB	0.023	45.06	0.030
78	7.038	DCB	0.0745	0.347	218.9	0.084	BB	0.036	100.18	0.067
79	7.249		0.0000	0.000	46.6	0.018	BB	0.032	24.58	0.017
80	7.430		0.0000	0.000	142.8	0.055	BB	0.111	21.48	0.014

Total Area = 259910.2, Total Amount = 21.475, Total Height = 148954.8, Sample Units = PPB

USF03 1698

Sample Name: **TOXA11124A AATOXA1AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 07:57:06pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.18R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.041		0.0000	0.000	1125.5	0.195	BV	0.028	678.37	0.221
2	2.115		0.0000	0.000	9736.8	1.686	VV	0.065	2489.13	0.811
3	2.202		0.0000	0.000	6482.4	1.122	VV	0.039	2751.21	0.897
4	2.287		0.0000	0.000	4211.4	0.729	VV	0.051	1375.90	0.448
5	2.327		0.0000	0.000	5857.2	1.014	VB	0.087	1126.64	0.367
6	2.475		0.0000	0.000	1835.5	0.318	BV	0.054	568.13	0.185
7	2.561		0.0000	0.000	532.7	0.092	VB	0.048	184.48	0.060
8	2.622		0.0000	0.000	201.9	0.035	BV	0.026	127.36	0.042
9	2.658		0.0000	0.000	404.7	0.070	VB	0.023	294.07	0.096
10	2.738		0.0000	0.000	3617.7	0.626	BB	0.034	1783.67	0.581
11	2.839		0.0000	0.000	1007.0	0.174	BB	0.030	565.10	0.184
12	2.914		0.0000	0.000	405.4	0.070	BB	0.054	124.55	0.041
13	2.953	TCX	0.0091	0.042	218.4	0.038	BB	0.046	79.71	0.026
14	3.045		0.0000	0.000	665.9	0.115	BB	0.056	199.84	0.065
15	3.129		0.0000	0.000	786.4	0.136	BV	0.024	553.87	0.181
16	3.175		0.0000	0.000	3916.9	0.678	VB	0.074	881.49	0.287
17	3.434		0.0000	0.000	1833.5	0.317	BV	0.034	894.47	0.292
18	3.473		0.0000	0.000	3554.1	0.615	VV	0.031	1909.40	0.622
19	3.564		0.0000	0.000	1688.1	0.292	VV	0.041	692.08	0.226
20	3.639		0.0000	0.000	1632.9	0.283	VV	0.037	730.04	0.238
21	3.680		0.0000	0.000	2550.8	0.442	VV	0.020	2085.14	0.680
22	3.724	beta-BHC	0.2205	1.012	1864.3	0.323	VV	0.027	1170.35	0.381
23	3.765	Heptachlor	0.0512	0.235	716.1	0.124	VV	0.024	490.73	0.160
24	3.794		0.0000	0.000	2214.1	0.383	VV	0.031	1188.21	0.387
25	3.837		0.0000	0.000	1269.7	0.220	VV	0.024	873.55	0.285
26	3.869	delta-BHC	0.1885	0.865	3652.3	0.632	VB	0.027	2245.20	0.732
27	3.960	Aldrin	0.1295	0.594	1412.5	0.245	BV	0.021	1123.48	0.366
28	3.991	Telodrin	0.1494	0.686	2942.9	0.510	VV	0.043	1138.43	0.371
29	4.057		0.0000	0.000	836.7	0.145	VV	0.019	719.82	0.235
30	4.079		0.0000	0.000	296.2	0.051	VV	0.014	352.62	0.115
31	4.115		0.0000	0.000	2368.5	0.410	VV	0.030	1326.51	0.432
32	4.139		0.0000	0.000	2616.0	0.453	VV	0.026	1676.56	0.546
33	4.190		0.0000	0.000	3274.2	0.567	VV	0.020	2753.25	0.897
34	4.238		0.0000	0.000	2251.6	0.390	VV	0.027	1386.46	0.452
35	4.268	Hept. epoxide	0.2764	1.268	5127.1	0.888	VV	0.036	2353.28	0.767
36	4.319		0.0000	0.000	7554.2	1.308	VV	0.025	5083.25	1.657
37	4.372	o,p-DDE	0.1155	0.530	665.9	0.115	VV	0.018	609.80	0.199
38	4.412		0.0000	0.000	3333.1	0.577	VV	0.030	1877.86	0.612
39	4.455	g. Chlordane	1.3811	6.336	18557.4	3.213	VV	0.027	11419.96	3.722
40	4.530	Endosulfan I	0.2115	0.970	4075.8	0.706	VV	0.043	1586.38	0.517
41	4.584		0.0000	0.000	4193.6	0.726	VB	0.035	1994.61	0.650
42	4.627	4,4'-DDE	1.7699	8.120	2826.1	0.489	BV	0.030	1563.96	0.510
43	4.691		0.0000	0.000	9276.1	1.606	VV	0.024	6437.04	2.098
44	4.717	Dieldrin	0.5387	2.472	6398.2	1.108	VV	0.025	4288.27	1.398
45	4.755		0.0000	0.000	4198.4	0.727	VB	0.023	3105.89	1.012
46	4.821		0.0000	0.000	8182.3	1.417	BV	0.023	5850.73	1.907
47	4.858		0.0000	0.000	9705.9	1.681	VB	0.029	5624.90	1.833
48	4.910	o,p-DDT	1.3906	6.380	10657.7	1.845	BV	0.028	6273.77	2.045
49	4.962	Endrin	0.4955	2.273	6156.8	1.066	VB	0.031	3276.63	1.068
50	5.015	4,4'-DDD	0.2570	1.179	1590.4	0.275	BB	0.019	1403.37	0.457
51	5.057		0.0000	0.000	4606.8	0.798	BV	0.022	3539.20	1.154
52	5.079		0.0000	0.000	3134.2	0.543	VV	0.018	2909.85	0.948
53	5.130		0.0000	0.000	9071.2	1.571	VV	0.030	5076.32	1.655
54	5.154	Endosulfan II	1.9926	9.142	15681.4	2.715	VV	0.022	11888.85	3.875
55	5.180		0.0000	0.000	6404.9	1.109	VV	0.018	5797.68	1.890
56	5.213	4,4'-DDT	1.4845	6.810	12249.3	2.121	VV	0.025	8063.41	2.628
57	5.241		0.0000	0.000	5764.6	0.998	VV	0.019	5011.87	1.634
58	5.270	Endrin aldehyde	1.2571	5.767	11645.5	2.016	VV	0.033	5822.46	1.898
59	5.315		0.0000	0.000	12292.3	2.128	VB	0.024	8673.69	2.827
60	5.378		0.0000	0.000	46084.0	7.979	BB	0.045	17005.61	5.543
61	5.465	Endo. sulfate	0.9171	4.207	5966.8	1.033	BV	0.022	4476.06	1.459
62	5.488		0.0000	0.000	5024.8	0.870	VV	0.021	4042.35	1.318

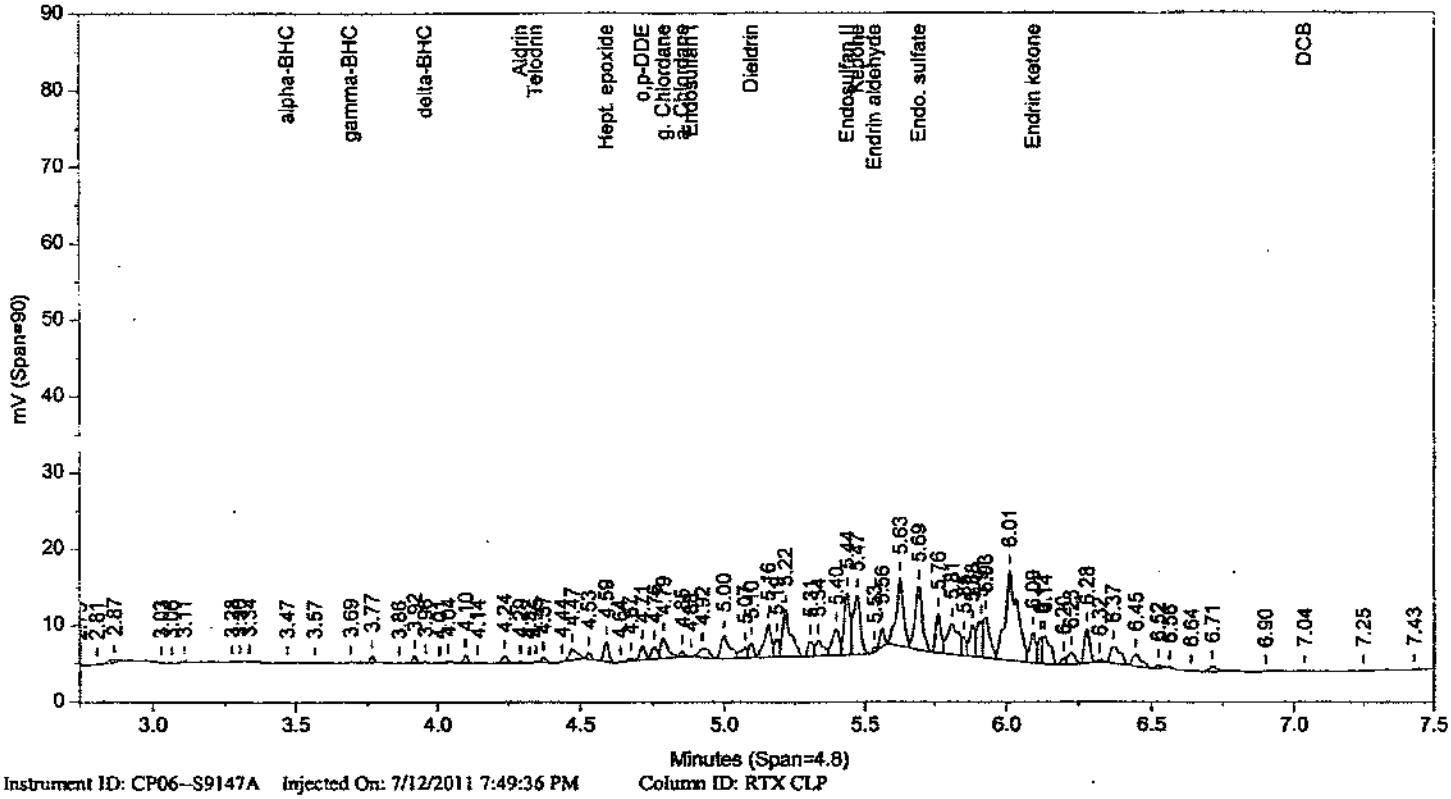
USP93 1699

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.517		0.0000	0.000	6463.0	1.119	VB	0.018	5907.85	1.926
64	5.585		0.0000	0.000	25434.6	4.404	BV	0.043	9789.67	3.191
65	5.622		0.0000	0.000	8536.5	1.478	VV	0.021	6663.36	2.172
66	5.667	Methoxychlor	5.7072	26.184	23716.1	4.106	VV	0.035	11148.13	3.634
67	5.713		0.0000	0.000	13542.6	2.345	VV	0.031	7313.51	2.384
68	5.767		0.0000	0.000	58591.9	10.145	VV	0.044	21967.38	7.160
69	5.818		0.0000	0.000	9650.6	1.671	VV	0.023	7101.69	2.315
70	5.853	Endrin ketone	0.3311	1.519	1972.9	0.342	VV	0.016	2046.68	0.667
71	5.893		0.0000	0.000	14531.2	2.516	VV	0.034	7074.40	2.306
72	5.956		0.0000	0.000	19720.5	3.414	VV	0.040	8161.00	2.660
73	5.998	Mirex	2.7904	12.802	17312.2	2.998	VB	0.026	10973.54	3.577
74	6.068		0.0000	0.000	5836.7	1.011	BV	0.034	2853.25	0.930
75	6.095		0.0000	0.000	11848.1	2.051	VV	0.030	6586.19	2.147
76	6.128		0.0000	0.000	6120.7	1.060	VV	0.024	4199.06	1.369
77	6.175		0.0000	0.000	14919.9	2.583	VV	0.063	3924.72	1.279
78	6.261		0.0000	0.000	3561.6	0.617	VV	0.037	1596.92	0.520
79	6.303		0.0000	0.000	5615.5	0.972	VV	0.034	2717.56	0.886
80	6.390		0.0000	0.000	1963.7	0.340	VV	0.031	1047.79	0.342
81	6.433		0.0000	0.000	4952.8	0.858	VV	0.048	1720.44	0.561
82	6.513		0.0000	0.000	859.3	0.149	VV	0.025	565.55	0.184
83	6.558		0.0000	0.000	1418.0	0.246	VV	0.049	484.74	0.158
84	6.626	DCB	0.1324	0.607	931.5	0.161	VV	0.033	464.88	0.152
85	6.662		0.0000	0.000	857.9	0.149	VV	0.027	521.38	0.170
86	6.709		0.0000	0.000	191.5	0.033	VB	0.026	122.95	0.040
87	6.904		0.0000	0.000	125.9	0.022	BB	0.036	57.76	0.019
88	7.147		0.0000	0.000	175.3	0.030	BB	0.034	85.06	0.028
89	7.294		0.0000	0.000	184.9	0.032	BV	0.118	26.19	0.009
90	7.313		0.0000	0.000	112.5	0.019	VB	0.021	89.04	0.029

Total Area = 577553.2, Total Amount = 21.797, Total Height = 306807.5, Sample Units = PPB

US763 1788

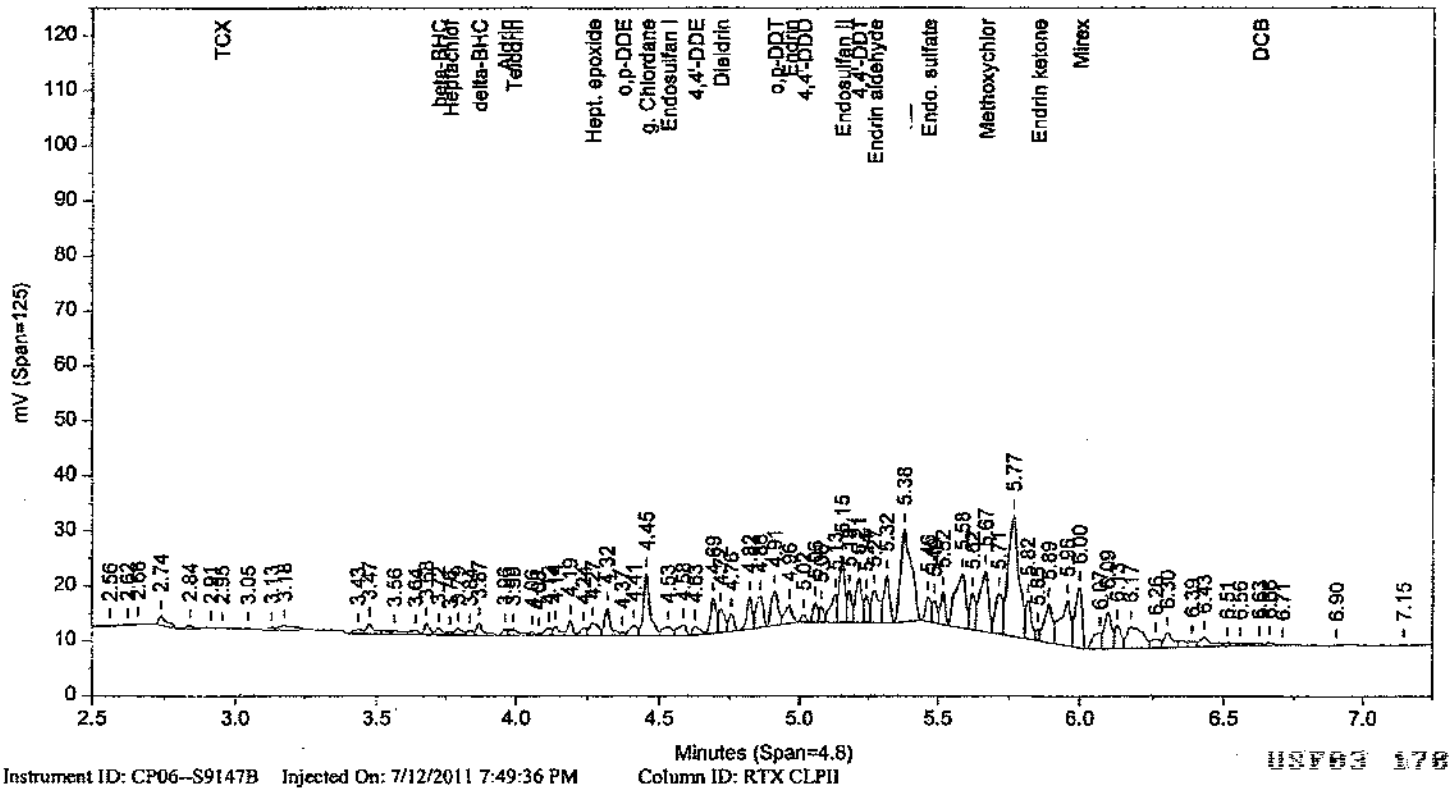
LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.18R
TOXA11124A AATOXA1AA ICAL 1119299999
—— C:\CPWIN\DATA1\1P6193.18R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 7:49:36 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.18R

TOXA11124A AATOXA1AA ICAL 1119299999
—— C:\CPWIN\DATA1\1P6193B.18R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 7:49:36 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Multiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
.	0	.	TCX	2.953	80	.00909	TCX
3.471	90	.00909	alpha-BHC	.	0	.	alpha-BHC
3.692	223	.02662	gamma-BHC	.	0	.	gamma-BHC
.	0	.	beta-BHC	3.724	1170	.2205	beta-BHC
.	0	.	Heptachlor	3.765	491	.05124	Heptachlor
3.957	306	.04546	delta-BHC	3.869	2245	.18852	delta-BHC
4.293	256	.03794	Aldrin	3.96	1123	.12946	Aldrin
4.345	172	.06765	Telodrin	3.991	1138	.14942	Telodrin
4.589	2657	.48534	Hept. epoxide	4.268	2353	.2764	Hept. epoxide
4.714	1770	.68189	o,p-DDE	4.372	610	.11546	o,p-DDE
4.786	2603	.51336	g. Chlordane	4.455	11420	1.38109	g. Chlordane
4.882	195	.04447	Endosulfan I	4.53	1586	.2115	Endosulfan I
.	0	.	4,4'-DDE	4.627	1564	1.76991	4,4'-DDE
5.095	1948	.39732	Dieldrin	4.717	4288	.53872	Dieldrin
4.851	753	.15667	a. Chlordane	.	0	.	a. Chlordane
.	0	.	o,p-DDT	4.91	6274	1.39064	o,p-DDT
.	0	.	Endrin	4.962	3277	.49551	Endrin
.	0	.	4,4'-DDD	5.015	1403	.25696	4,4'-DDD
5.437	8158	2.31984	Endosulfan II	5.154	11889	1.99259	Endosulfan II
.	0	.	4,4'-DDT	5.213	8063	1.48446	4,4'-DDT
5.534	626	.25327	Endrin aldehyde	5.27	5822	1.25709	Endrin aldehyde
5.695	8405	3.92549	Endo. sulfate	5.465	4476	.91707	Endo. sulfate
5.474	7767	11.1629	Kepone	.	0	.	Kepone
.	0	.	Methoxychlor	5.667	11148	5.70716	Methoxychlor
6.095	4035	1.27286	Endrin ketone	5.853	2047	.33114	Endrin ketone
.	0	.	Mirex	5.998	10974	2.79041	Mirex
7.038	100	.07448	DCB	6.626	465	.13241	DCB

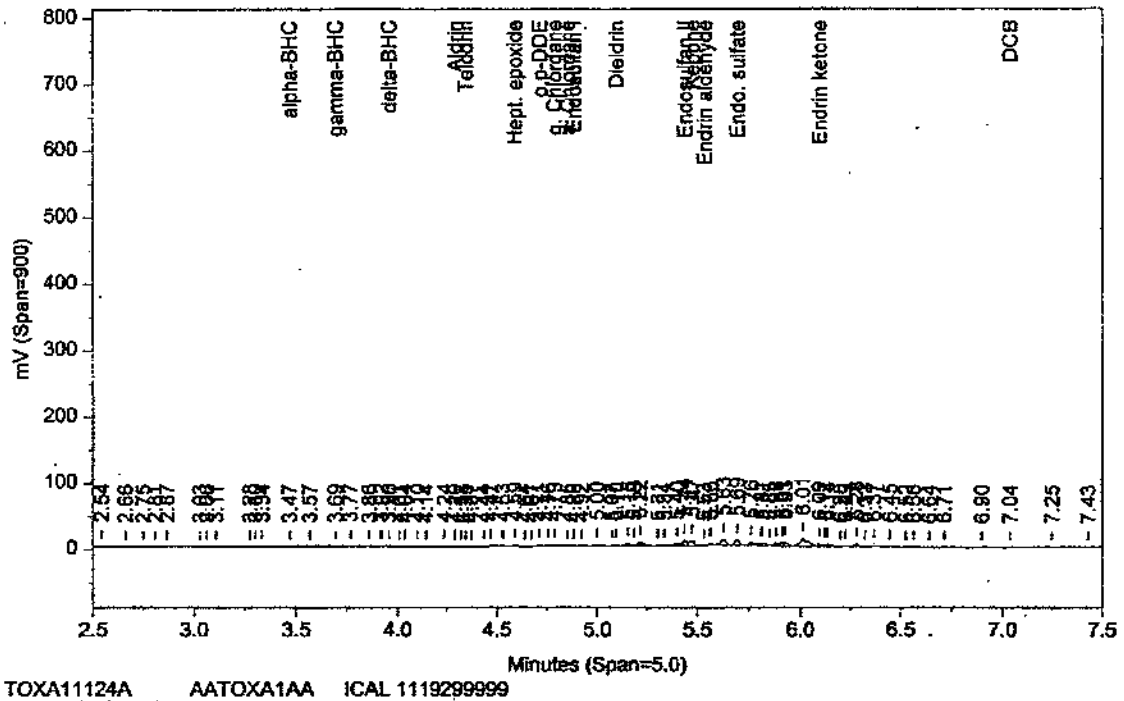
Files:
Area File: C:\CPWIN\DATA1\1P6193.18A
Area File: C:\CPWIN\DATA1\1P6193B.18A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 8:04:04 PM
File Reported On: 7/12/2011 at 8:04:13 PM

USF03 1782

Files:

REPLOTS

TOXA11124A AATOXA1AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.18R



TOXA11124A AATOXA1AA ICAL 1119299999
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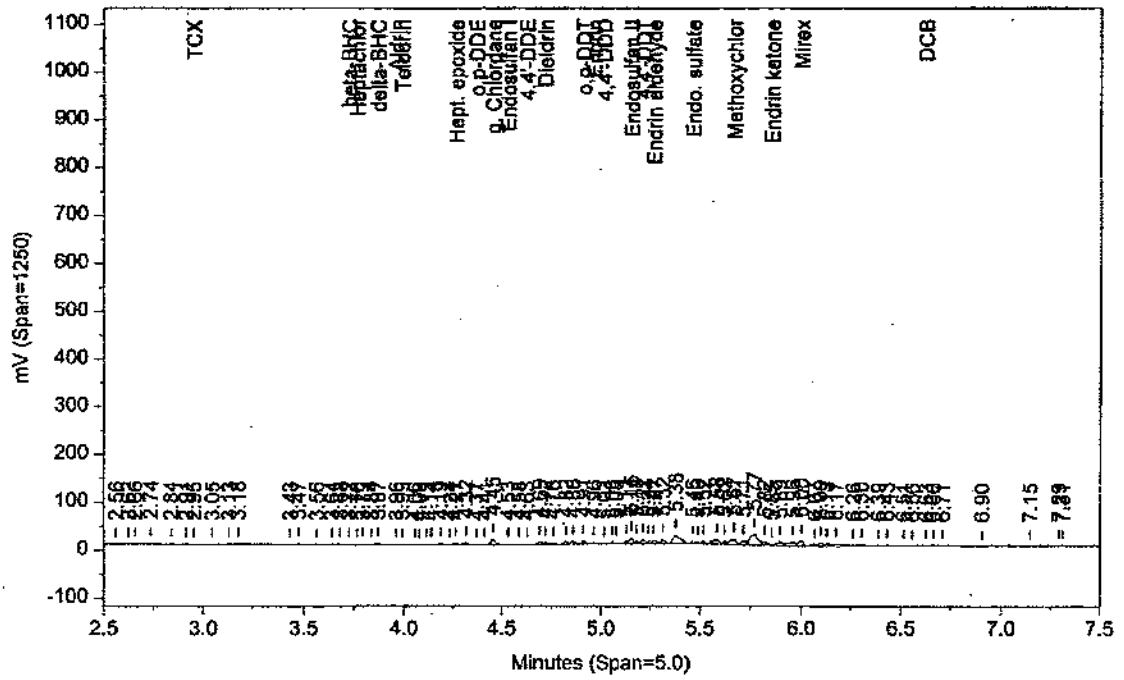


USF03 1783

Sample Name: **TOXA21124A AATOXA2AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 08:09:51pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.19R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.327		0.0000	0.000	687.3	0.137	BB	0.031	373.13	0.122
2	2.394		0.0000	0.000	2304.1	0.460	BV	0.078	492.05	0.161
3	2.543		0.0000	0.000	2652.1	0.530	VB	0.015	2894.74	0.949
4	2.670		0.0000	0.000	543.4	0.109	BV	0.037	241.85	0.079
5	2.753		0.0000	0.000	618.0	0.123	VV	0.067	154.39	0.051
6	2.802		0.0000	0.000	254.9	0.051	VB	0.031	136.48	0.045
7	2.939		0.0000	0.000	110.6	0.022	BB	0.042	44.28	0.015
8	3.031		0.0000	0.000	153.5	0.031	BB	0.014	176.57	0.058
9	3.065		0.0000	0.000	149.3	0.030	BB	0.014	174.16	0.057
10	3.116		0.0000	0.000	400.1	0.080	BB	0.046	146.10	0.048
11	3.275		0.0000	0.000	190.2	0.038	BB	0.031	100.87	0.033
12	3.304		0.0000	0.000	830.1	0.166	BB	0.102	135.57	0.044
13	3.469	alpha-BHC	0.0079	0.018	318.9	0.064	BB	0.068	77.80	0.025
14	3.566		0.0000	0.000	58.5	0.012	BB	0.019	52.22	0.017
15	3.694	gamma-BHC	0.0398	0.092	369.4	0.074	BB	0.018	333.03	0.109
16	3.727		0.0000	0.000	54.6	0.011	BB	0.015	58.97	0.019
17	3.768		0.0000	0.000	1664.2	0.332	BB	0.016	1726.06	0.566
18	3.830	beta-BHC	0.0272	0.063	52.2	0.010	BB	0.011	80.56	0.026
19	3.865		0.0000	0.000	33.8	0.007	BB	0.014	40.68	0.013
20	3.919		0.0000	0.000	1308.1	0.261	BB	0.015	1464.15	0.480
21	3.990	delta-BHC	0.0136	0.031	156.7	0.031	BB	0.029	91.25	0.030
22	4.039	Heptachlor	0.0728	0.169	616.5	0.123	BB	0.021	482.86	0.158
23	4.101		0.0000	0.000	1731.3	0.346	BB	0.016	1754.64	0.575
24	4.144		0.0000	0.000	542.1	0.108	BB	0.026	342.21	0.112
25	4.238		0.0000	0.000	2090.6	0.418	BB	0.023	1509.05	0.495
26	4.294	Aldrin	0.0443	0.103	287.6	0.057	BB	0.016	299.46	0.098
27	4.322		0.0000	0.000	79.7	0.016	BB	0.012	106.49	0.035
28	4.348	Telodrin	0.0823	0.191	167.5	0.033	BB	0.013	209.36	0.069
29	4.373		0.0000	0.000	1244.0	0.249	BB	0.021	1003.25	0.329
30	4.473		0.0000	0.000	5004.3	1.000	BB	0.037	2256.70	0.740
31	4.530		0.0000	0.000	1306.4	0.261	BB	0.017	1254.68	0.411
32	4.591	Hept. epoxide	0.7463	1.731	5265.7	1.052	BB	0.021	4085.66	1.339
33	4.676		0.0000	0.000	892.4	0.178	BV	0.022	671.88	0.220
34	4.716	o,p-DDE	1.2644	2.932	4330.4	0.865	VV	0.022	3281.98	1.076
35	4.756		0.0000	0.000	4069.3	0.813	VV	0.022	3106.16	1.018
36	4.795	g. Chlordane	0.2190	0.508	1359.5	0.272	VV	0.020	1110.76	0.364
37	4.825	a. Chlordane	0.0392	0.091	179.4	0.036	VV	0.016	188.09	0.062
38	4.853	Endosulfan I	0.3041	0.705	1221.8	0.244	VB	0.015	1332.52	0.437
39	4.924		0.0000	0.000	2758.4	0.551	BV	0.029	1569.57	0.514
40	4.943	4,4'-DDE	0.4510	1.046	1807.2	0.361	VB	0.020	1526.24	0.500
41	5.001		0.0000	0.000	11127.6	2.223	BV	0.036	5214.41	1.709
42	5.058	o,p-DDD	0.8717	2.022	1819.2	0.363	VV	0.017	1755.03	0.575
43	5.075	Dieldrin	0.4819	1.118	2529.9	0.505	VV	0.018	2363.36	0.774
44	5.097		0.0000	0.000	4159.8	0.831	VV	0.020	3463.08	1.135
45	5.157		0.0000	0.000	14064.3	2.810	VV	0.027	8560.61	2.805
46	5.187		0.0000	0.000	5085.9	1.016	VV	0.019	4461.54	1.462
47	5.217		0.0000	0.000	27283.7	5.451	VV	0.034	13238.18	4.338
48	5.307		0.0000	0.000	6024.3	1.204	VV	0.024	4117.16	1.349
49	5.338	4,4'-DDD	1.6618	3.854	7101.7	1.419	VV	0.031	3859.23	1.265
50	5.401		0.0000	0.000	12116.8	2.421	VV	0.029	6942.10	2.275
51	5.439	Endosulfan II	5.0433	11.696	24968.4	4.988	VV	0.023	17735.82	5.812
52	5.476	Kepone	21.8039	50.565	27523.5	5.499	VB	0.029	15903.72	5.212
53	5.536	Endrin aldehyde	0.4005	0.929	871.0	0.174	BB	0.015	989.81	0.324
54	5.564		0.0000	0.000	5580.4	1.115	BB	0.017	5510.31	1.806
55	5.628		0.0000	0.000	36547.3	7.302	BV	0.031	19595.33	6.421
56	5.696	Endo. sulfate	6.9029	16.008	32183.3	6.430	VB	0.029	18263.40	5.985
57	5.763		0.0000	0.000	14095.4	2.816	BV	0.021	10985.83	3.600
58	5.812		0.0000	0.000	27287.3	5.452	VV	0.050	9112.37	2.986
59	5.883		0.0000	0.000	11138.9	2.225	VV	0.020	9151.00	2.999
60	5.911		0.0000	0.000	12628.9	2.523	VV	0.021	10073.11	3.301
61	5.929		0.0000	0.000	17871.9	3.571	VV	0.025	11822.34	3.874
62	6.013		0.0000	0.000	47151.5	9.420	VV	0.030	26166.35	8.575

USF03 1784

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	6.035		0.0000	0.000	28752.5	5.744	VV	0.027	17636.08	5.779
64	6.097	Endrin ketone	2.5043	5.808	10914.2	2.181	VV	0.023	7939.54	2.602
65	6.137		0.0000	0.000	19135.1	3.823	VB	0.045	7137.09	2.339
66	6.203		0.0000	0.000	2120.1	0.424	BV	0.018	1916.25	0.628
67	6.227		0.0000	0.000	5405.3	1.080	VB	0.028	3236.48	1.061
68	6.281		0.0000	0.000	11709.2	2.339	BB	0.020	9858.66	3.231
69	6.326		0.0000	0.000	767.9	0.153	BB	0.021	618.40	0.203
70	6.370		0.0000	0.000	10409.6	2.080	BB	0.037	4652.00	1.524
71	6.450		0.0000	0.000	7532.1	1.505	BB	0.038	3308.26	1.084
72	6.525		0.0000	0.000	1681.4	0.336	BB	0.020	1369.01	0.449
73	6.566		0.0000	0.000	438.4	0.088	BB	0.013	543.97	0.178
74	6.607		0.0000	0.000	86.3	0.017	BB	0.013	109.82	0.036
75	6.639		0.0000	0.000	384.1	0.077	BB	0.034	186.87	0.061
76	6.715		0.0000	0.000	2951.0	0.590	BB	0.032	1530.35	0.502
77	6.803		0.0000	0.000	147.2	0.029	BB	0.016	152.90	0.050
78	6.899		0.0000	0.000	124.4	0.025	BB	0.021	98.49	0.032
79	6.929		0.0000	0.000	330.3	0.066	BB	0.026	211.97	0.069
80	7.042	DCB	0.1382	0.320	386.6	0.077	BB	0.035	185.87	0.061
81	7.237		0.0000	0.000	93.8	0.019	BB	0.030	52.95	0.017
82	7.393		0.0000	0.000	138.0	0.028	BB	0.059	38.82	0.013

Total Area = 500532.1, Total Amount = 43.12, Total Height = 305154.3, Sample Units = PPB

USF83 1795

Sample Name: **TOXA21124A AATOXA2AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 08:09:51pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.19R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.043		0.0000	0.000	1378.1	0.136	BV	0.026	886.92	0.156
2	2.145		0.0000	0.000	5080.1	0.501	VV	0.110	771.89	0.136
3	2.204		0.0000	0.000	4846.4	0.478	VV	0.025	3168.84	0.557
4	2.307		0.0000	0.000	854.0	0.084	VV	0.048	295.60	0.052
5	2.330		0.0000	0.000	445.8	0.044	VB	0.031	240.06	0.042
6	2.526		0.0000	0.000	1847.3	0.182	BV	0.115	267.89	0.047
7	2.619		0.0000	0.000	766.4	0.076	VV	0.053	240.38	0.042
8	2.666		0.0000	0.000	288.5	0.028	VV	0.047	101.55	0.018
9	2.698		0.0000	0.000	169.6	0.017	VB	0.022	131.15	0.023
10	2.737		0.0000	0.000	2158.6	0.213	BB	0.041	871.59	0.153
11	2.833		0.0000	0.000	1027.8	0.101	BB	0.041	419.40	0.074
12	2.877		0.0000	0.000	141.7	0.014	BB	0.017	139.30	0.024
13	3.040		0.0000	0.000	121.0	0.012	BB	0.024	84.87	0.015
14	3.179		0.0000	0.000	2936.6	0.289	BV	0.049	992.20	0.174
15	3.217		0.0000	0.000	4231.0	0.417	VV	0.107	661.77	0.116
16	3.373		0.0000	0.000	767.5	0.076	VB	0.025	517.80	0.091
17	3.434		0.0000	0.000	1865.5	0.184	BV	0.029	1073.52	0.189
18	3.474		0.0000	0.000	4793.9	0.472	VV	0.025	3257.96	0.573
19	3.527	gamma-BHC	0.0483	0.119	1261.1	0.124	VV	0.033	631.58	0.111
20	3.565		0.0000	0.000	1856.2	0.183	VV	0.037	828.60	0.146
21	3.643		0.0000	0.000	2008.5	0.198	VV	0.044	762.79	0.134
22	3.681		0.0000	0.000	3284.6	0.324	VV	0.020	2721.00	0.478
23	3.726	beta-BHC	0.1856	0.455	1690.2	0.167	VV	0.029	985.24	0.173
24	3.766	Heptachlor	0.0602	0.148	840.1	0.083	VV	0.024	576.58	0.101
25	3.795		0.0000	0.000	2979.7	0.294	VV	0.029	1701.41	0.299
26	3.837		0.0000	0.000	1767.4	0.174	VV	0.023	1263.20	0.222
27	3.869	delta-BHC	0.2779	0.682	5111.1	0.504	VB	0.026	3309.42	0.582
28	3.961	Aldrin	0.2144	0.526	3056.3	0.301	BV	0.027	1860.48	0.327
29	3.993	Telodrin	0.1680	0.412	1832.5	0.181	VV	0.024	1280.04	0.225
30	4.063		0.0000	0.000	2035.5	0.201	VV	0.026	1307.66	0.230
31	4.111		0.0000	0.000	2746.1	0.271	VV	0.028	1663.70	0.292
32	4.141		0.0000	0.000	3717.1	0.366	VV	0.022	2786.46	0.490
33	4.191		0.0000	0.000	4547.6	0.448	VV	0.018	4150.71	0.729
34	4.239		0.0000	0.000	2752.3	0.271	VV	0.026	1753.98	0.308
35	4.270	Hept. epoxide	0.3815	0.936	6436.7	0.634	VV	0.033	3248.08	0.571
36	4.320		0.0000	0.000	10348.6	1.020	VV	0.022	8010.42	1.408
37	4.374	o,p-DDE	0.0937	0.230	453.4	0.045	VV	0.015	494.91	0.087
38	4.413		0.0000	0.000	4002.8	0.395	VV	0.029	2268.36	0.399
39	4.460	g. Chlordane	0.9567	2.347	15346.0	1.513	VV	0.032	7910.79	1.390
40	4.531	Endosulfan I	0.2202	0.540	3427.4	0.338	VV	0.035	1651.98	0.290
41	4.586		0.0000	0.000	5358.2	0.528	VV	0.034	2626.93	0.462
42	4.620	4,4'-DDE	1.9682	4.829	5058.5	0.499	VB	0.027	3127.09	0.550
43	4.692		0.0000	0.000	15422.6	1.520	BV	0.022	11471.77	2.016
44	4.718	Dieldrin	0.9604	2.356	10867.0	1.071	VV	0.024	7644.99	1.343
45	4.758		0.0000	0.000	8009.4	0.789	VB	0.022	5947.97	1.045
46	4.822		0.0000	0.000	15207.3	1.499	BV	0.022	11338.53	1.992
47	4.855		0.0000	0.000	19218.0	1.894	VB	0.029	10901.82	1.916
48	4.910	o,p-DDT	2.8228	6.926	22169.2	2.185	BV	0.029	12735.01	2.238
49	4.964	Endrin	1.0536	2.585	12417.4	1.224	VB	0.030	6966.84	1.224
50	5.016	4,4'-DDD	0.6186	1.518	3907.2	0.385	BB	0.019	3378.33	0.594
51	5.059		0.0000	0.000	9783.4	0.964	BV	0.021	7635.93	1.342
52	5.079		0.0000	0.000	7822.6	0.771	VV	0.019	7022.79	1.234
53	5.131		0.0000	0.000	19056.4	1.878	VV	0.030	10585.96	1.860
54	5.155	Endosulfan II	4.3367	10.640	34118.0	3.363	VV	0.022	25875.03	4.547
55	5.181		0.0000	0.000	15255.2	1.504	VV	0.021	12195.33	2.143
56	5.214	4,4'-DDT	3.2076	7.870	24840.2	2.448	VV	0.024	17423.32	3.062
57	5.242		0.0000	0.000	14048.3	1.385	VV	0.021	10947.43	1.924
58	5.272	Endrin aldehyde	2.6623	6.532	24470.8	2.412	VV	0.033	12330.87	2.167
59	5.317		0.0000	0.000	24044.6	2.370	VB	0.023	17758.22	3.121
60	5.380		0.0000	0.000	100172.9	9.873	BB	0.043	38908.21	6.837
61	5.466	Endo. sulfate	2.0197	4.955	13437.2	1.324	BV	0.023	9857.77	1.732
62	5.489		0.0000	0.000	9393.8	0.926	VV	0.018	8608.34	1.513

USF03 1766

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.519		0.0000	0.000	14049.8	1.385	VB	0.018	12712.03	2.234
64	5.586		0.0000	0.000	53251.6	5.249	BV	0.041	21388.69	3.759
65	5.622		0.0000	0.000	18517.8	1.825	VV	0.023	13304.54	2.338
66	5.669	Methoxychlor	12.2442	30.041	47786.4	4.710	VV	0.033	23917.30	4.203
67	5.716		0.0000	0.000	27274.7	2.688	VV	0.031	14813.64	2.603
68	5.768		0.0000	0.000	121783.3	12.003	VV	0.044	46461.30	8.164
69	5.820		0.0000	0.000	15294.3	1.507	VV	0.019	13378.50	2.351
70	5.856	Endrin ketone	0.8433	2.069	6482.9	0.639	VV	0.021	5212.20	0.916
71	5.894		0.0000	0.000	23784.7	2.344	VV	0.030	13174.61	2.315
72	5.958		0.0000	0.000	35301.5	3.479	VV	0.037	15697.18	2.758
73	6.000	Mirex	5.2748	12.942	32324.5	3.186	VB	0.026	20743.79	3.645
74	6.056		0.0000	0.000	7781.9	0.767	BV	0.032	4075.97	0.716
75	6.098		0.0000	0.000	23322.3	2.299	VV	0.028	14073.94	2.473
76	6.129		0.0000	0.000	10230.9	1.008	VV	0.024	7239.52	1.272
77	6.176		0.0000	0.000	23266.0	2.293	VV	0.054	7147.64	1.256
78	6.263		0.0000	0.000	3010.5	0.297	VV	0.029	1732.44	0.304
79	6.304		0.0000	0.000	7227.5	0.712	VV	0.026	4671.45	0.821
80	6.353		0.0000	0.000	1435.3	0.141	VV	0.021	1144.78	0.201
81	6.391		0.0000	0.000	1212.8	0.120	VV	0.022	939.86	0.165
82	6.434		0.0000	0.000	5506.9	0.543	VV	0.032	2908.71	0.511
83	6.483		0.0000	0.000	373.3	0.037	VV	0.019	331.83	0.058
84	6.513		0.0000	0.000	505.5	0.050	VV	0.020	419.74	0.074
85	6.564		0.0000	0.000	929.6	0.092	VV	0.038	404.72	0.071
86	6.619	DCB	0.1399	0.343	1080.6	0.107	VV	0.037	491.21	0.086
87	6.663		0.0000	0.000	1686.7	0.166	VV	0.025	1123.45	0.197
88	6.709		0.0000	0.000	442.6	0.044	VV	0.027	272.79	0.048
89	6.753		0.0000	0.000	341.3	0.034	VB	0.027	207.64	0.036
90	6.904		0.0000	0.000	279.0	0.028	BV	0.044	106.81	0.019
91	6.953		0.0000	0.000	345.9	0.034	VV	0.033	173.49	0.030
92	7.041		0.0000	0.000	127.0	0.013	VB	0.033	63.64	0.011
93	7.171		0.0000	0.000	171.4	0.017	BB	0.056	50.74	0.009
94	7.313		0.0000	0.000	174.5	0.017	BB	0.027	107.14	0.019

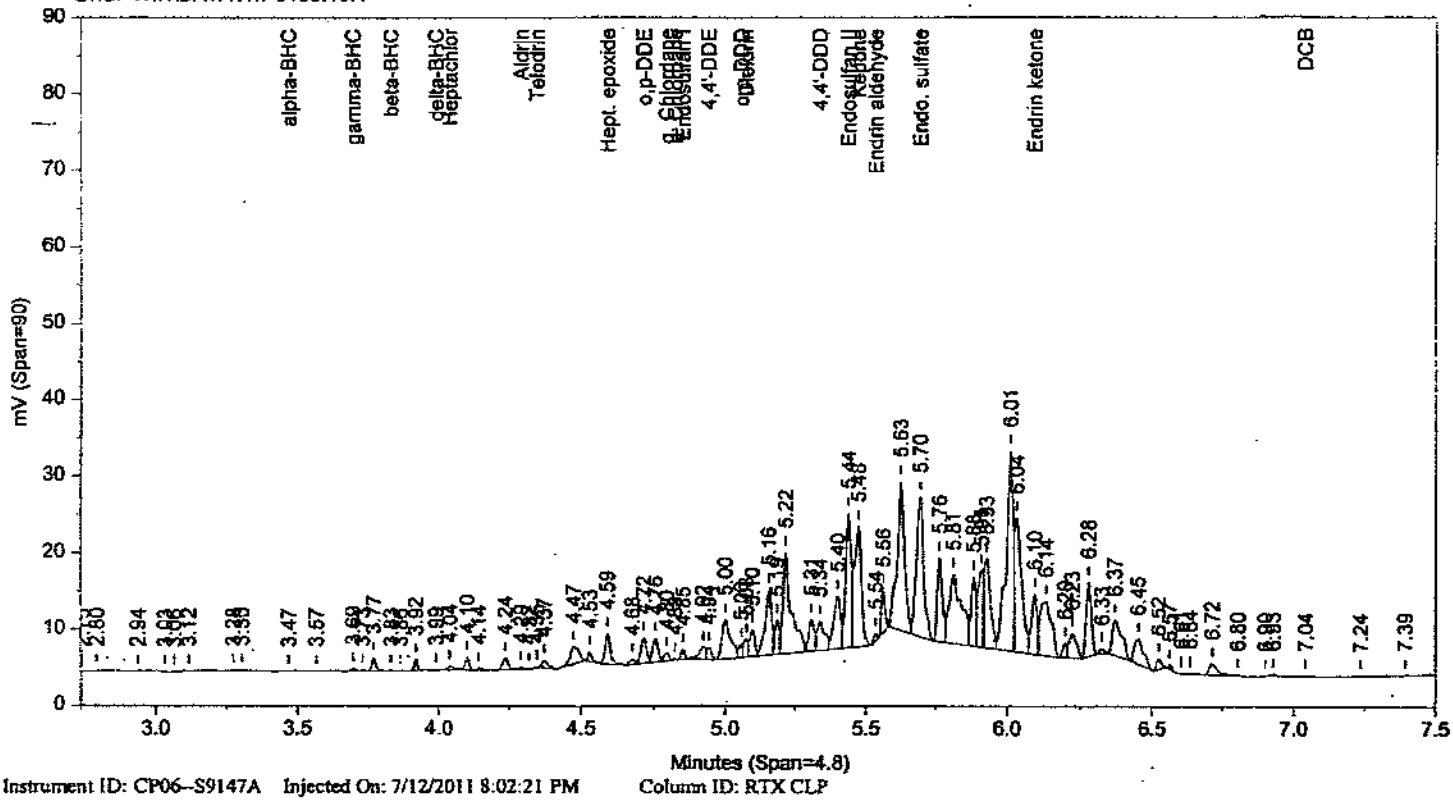
Total Area = 1014602.0, Total Amount = 40.759, Total Height = 569069.8, Sample Units = PPB

USF03 1787

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.19R

TOXA21124A AATOXA2AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.19R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 8:02:21 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.19R

TOXA21124A AATOXA2AA ICAL 1119299999

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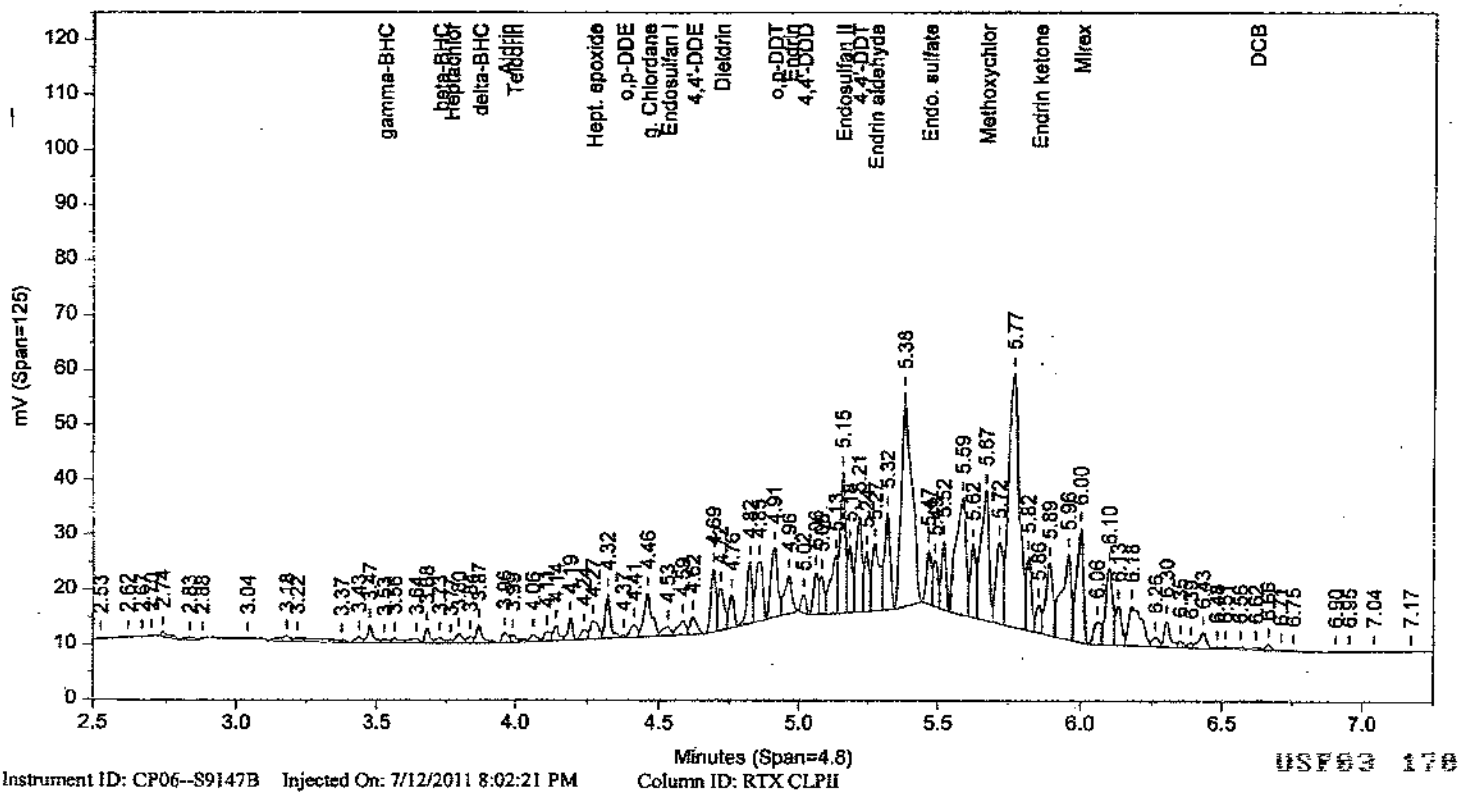

Instrument ID: CP06--S9147B Injected On: 7/12/2011 8:02:21 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Aldrin Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.469	78	.00788	alpha-BHC	.	0	.	alpha-BHC
3.694	333	.03982	gamma-BHC	3.527	632	.04832	gamma-BHC
3.83	81	.02721	beta-BHC	3.726	985	.18563	beta-BHC
4.039	483	.07282	Heptachlor	3.766	577	.0602	Heptachlor
3.99	91	.01356	delta-BHC	3.869	3309	.27788	delta-BHC
4.294	299	.04433	Aldrin	3.961	1860	.21439	Aldrin
4.348	209	.08225	Telodrin	3.993	1280	.16801	Telodrin
4.591	4086	.74628	Hept. epoxide	4.27	3248	.38149	Hept. epoxide
4.716	3282	1.26442	o,p-DDE	4.374	495	.09371	o,p-DDE
4.795	1111	.21903	g. Chlordane	4.46	7911	.9567	g. Chlordane
4.853	1333	.30414	Endosulfan I	4.531	1652	.22025	Endosulfan I
4.943	1526	.451	4,4'-DDE	4.62	3127	1.96816	4,4'-DDE
5.075	2363	.48194	Dieldrin	4.718	7645	.96042	Dieldrin
4.825	188	.03915	a. Chlordane	.	0	.	a. Chlordane
.	0	.	o,p-DDT	4.91	12735	2.82283	o,p-DDT
.	0	.	Endrin	4.964	6967	1.05356	Endrin
5.338	3859	1.66181	4,4'-DDD	5.016	3378	.61858	4,4'-DDD
5.058	1755	.87174	o,p-DDD	.	0	.	o,p-DDD
5.439	17736	5.04331	Endosulfan II	5.155	25875	4.33669	Endosulfan II
.	0	.	4,4'-DDT	5.214	17423	3.20761	4,4'-DDT
5.536	990	.40046	Endrin aldehyde	5.272	12331	2.66228	Endrin aldehyde
5.696	18263	6.90291	Endo. sulfate	5.466	9858	2.01969	Endo. sulfate
5.476	15904	21.80385	Kepone	.	0	.	Kepone
.	0	.	Methoxychlor	5.669	23917	12.24418	Methoxychlor
6.097	7940	2.50434	Endrin ketone	5.856	5212	.84329	Endrin ketone
.	0	.	Mirex	6.	20744	5.27484	Mirex
7.042	186	.13819	DCB	6.619	491	.13991	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.19A
Area File: C:\CPWIN\DATA1\1P6193B.19A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 8:09:58 PM
File Reported On: 7/12/2011 at 8:10:08 PM

USF03 1789

Files:

REPLOTS

TOXA21124A AATOXA2AA ICAL 1119299999
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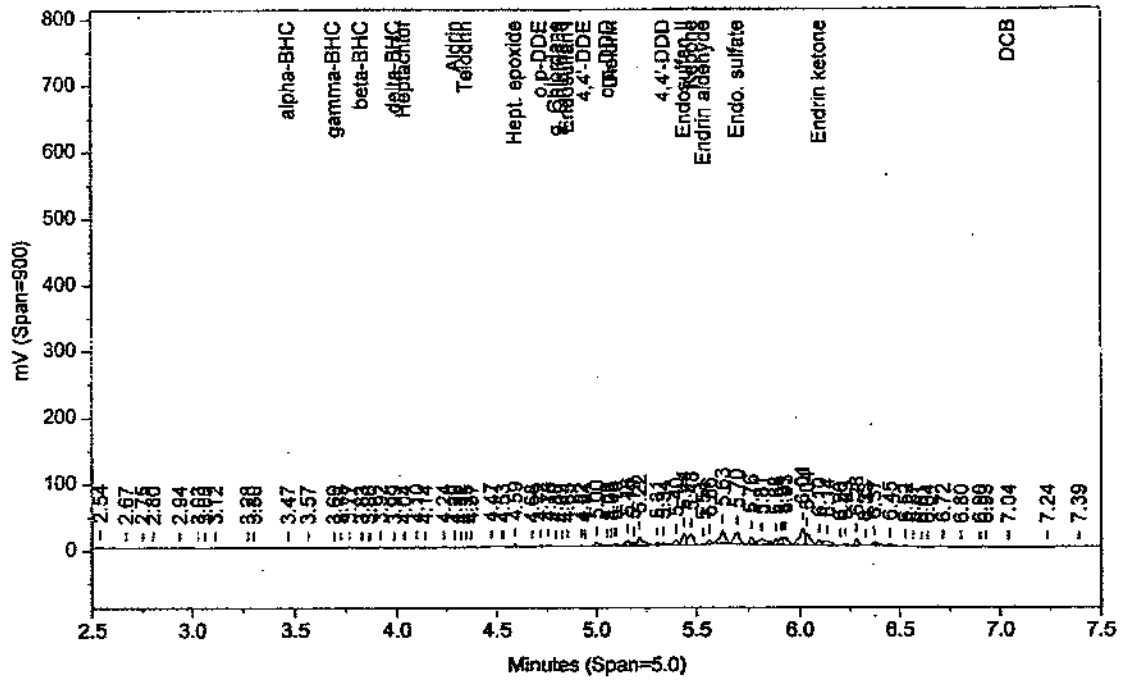

TOXA21124A AATOXA2AA ICAL 1119299999
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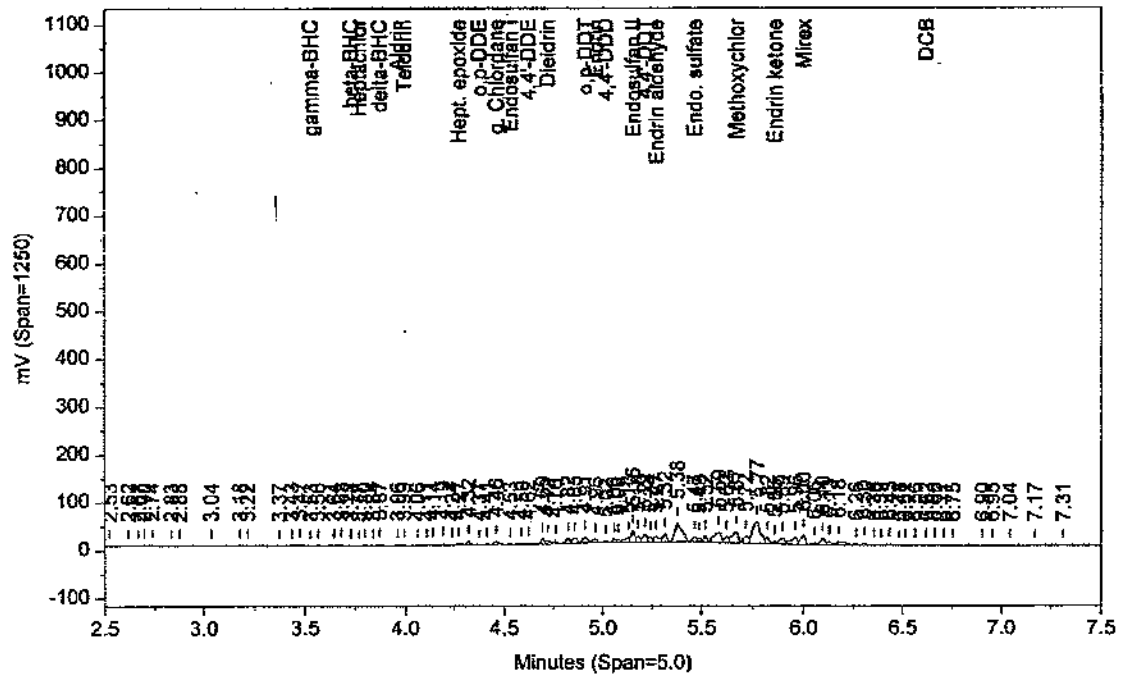


US983 1719

Sample Name: **TOXA31124B AATOXA3AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 08:22:30pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.20R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.326		0.0000	0.000	581.8	0.050	BB	0.030	319.32	0.048
2	2.386		0.0000	0.000	2737.9	0.237	BV	0.084	542.51	0.082
3	2.467		0.0000	0.000	1601.1	0.139	VV	0.059	452.74	0.068
4	2.543		0.0000	0.000	2822.9	0.245	VV	0.029	1619.45	0.244
5	2.795		0.0000	0.000	2340.6	0.203	VV	0.166	235.03	0.035
6	2.940		0.0000	0.000	181.4	0.016	VB	0.046	66.09	0.010
7	3.029		0.0000	0.000	102.8	0.009	BB	0.013	136.48	0.021
8	3.065		0.0000	0.000	138.7	0.012	BB	0.014	163.24	0.025
9	3.112		0.0000	0.000	359.7	0.031	BB	0.042	142.82	0.022
10	3.186	TCX	0.0097	0.010	105.8	0.009	BB	0.035	50.93	0.008
11	3.272		0.0000	0.000	277.1	0.024	BB	0.029	159.73	0.024
12	3.305		0.0000	0.000	37.1	0.003	BB	0.016	39.36	0.006
13	3.483	alpha-BHC	0.0145	0.015	686.5	0.059	BB	0.080	142.86	0.022
14	3.693	gamma-BHC	0.0804	0.082	723.7	0.063	BB	0.018	672.03	0.101
15	3.725		0.0000	0.000	119.4	0.010	BB	0.015	131.02	0.020
16	3.767		0.0000	0.000	3671.1	0.318	BB	0.016	3840.98	0.580
17	3.829	beta-BHC	0.0643	0.066	146.4	0.013	BB	0.013	190.25	0.029
18	3.865		0.0000	0.000	78.8	0.007	BB	0.014	91.18	0.014
19	3.918		0.0000	0.000	3094.7	0.268	BB	0.017	3025.74	0.457
20	3.989	delta-BHC	0.0157	0.016	108.7	0.009	BB	0.017	105.41	0.016
21	4.010		0.0000	0.000	61.3	0.005	BB	0.010	106.09	0.016
22	4.039		0.0000	0.000	1327.9	0.115	BB	0.021	1076.31	0.162
23	4.101		0.0000	0.000	3594.1	0.311	BB	0.017	3478.98	0.525
24	4.144		0.0000	0.000	1008.9	0.087	BB	0.025	683.68	0.103
25	4.237		0.0000	0.000	4487.3	0.389	BB	0.024	3177.46	0.480
26	4.293	Aldrin	0.0867	0.089	542.6	0.047	BB	0.015	585.49	0.088
27	4.321		0.0000	0.000	165.0	0.014	BB	0.012	226.37	0.034
28	4.347	Telodrin	0.1581	0.162	316.1	0.027	BB	0.013	402.30	0.061
29	4.372		0.0000	0.000	2632.2	0.228	BB	0.022	2014.82	0.304
30	4.474		0.0000	0.000	9965.6	0.863	BB	0.038	4377.69	0.661
31	4.529		0.0000	0.000	2598.1	0.225	BB	0.018	2346.95	0.354
32	4.591	Hept. epoxide	1.5636	1.602	9748.7	0.844	BB	0.019	8560.31	1.292
33	4.636		0.0000	0.000	183.0	0.016	BB	0.012	262.15	0.040
34	4.675		0.0000	0.000	1738.2	0.151	BV	0.021	1349.68	0.204
35	4.715	o,p-DDE	2.5596	2.622	8626.6	0.747	VV	0.022	6643.85	1.003
36	4.756		0.0000	0.000	7671.3	0.664	VV	0.021	6009.81	0.907
37	4.795	g. Chlordane	0.3591	0.368	1896.1	0.164	VV	0.017	1821.10	0.275
38	4.823	a. Chlordane	0.0394	0.040	168.8	0.015	VV	0.015	189.17	0.029
39	4.853	Endosulfan I	0.5675	0.581	2380.4	0.206	VB	0.016	2486.53	0.375
40	4.923		0.0000	0.000	5068.9	0.439	BV	0.030	2802.11	0.423
41	4.944	4,4'-DDE	0.9159	0.938	3492.0	0.302	VB	0.019	3099.57	0.468
42	5.001		0.0000	0.000	23903.1	2.070	BV	0.032	12396.03	1.871
43	5.057	o,p-DDD	1.7966	1.840	3684.8	0.319	VV	0.017	3616.94	0.546
44	5.074		0.0000	0.000	5277.3	0.457	VV	0.017	5118.00	0.772
45	5.097	Dieldrin	1.7214	1.763	9057.2	0.785	VV	0.018	8441.56	1.274
46	5.157		0.0000	0.000	31956.0	2.768	VV	0.027	19834.70	2.993
47	5.187		0.0000	0.000	10932.5	0.947	VV	0.019	9620.48	1.452
48	5.216	——	0.0000	0.000	62200.5	5.388	VV	0.034	30704.70	4.634
49	5.307		0.0000	0.000	13806.4	1.196	VV	0.025	9252.91	1.396
50	5.337	4,4'-DDD	4.0502	4.148	16914.5	1.465	VV	0.030	9405.72	1.420
51	5.400		0.0000	0.000	30066.2	2.604	VV	0.029	17321.85	2.614
52	5.439	Endosulfan II ——	11.8423	12.129	60575.0	5.247	VV	0.024	41645.73	6.285
53	5.475	Kepone	50.3630	51.584	64308.4	5.570	VB	0.028	37741.54	5.696
54	5.537	Endrin aldehyde	1.0073	1.032	2164.0	0.187	BB	0.014	2489.85	0.376
55	5.564		0.0000	0.000	13532.4	1.172	BB	0.017	13347.35	2.014
56	5.628	——	0.0000	0.000	88059.3	7.627	BV	0.031	47597.66	7.183
57	5.695	Endo. sulfate ——	14.3399	14.688	78687.6	6.816	VB	0.031	42886.84	6.472
58	5.763	——	0.0000	0.000	36283.4	3.143	BV	0.021	28459.27	4.295
59	5.812		0.0000	0.000	68164.3	5.904	VV	0.049	23078.71	3.483
60	5.884		0.0000	0.000	27017.5	2.340	VV	0.021	21558.10	3.254
61	5.909		0.0000	0.000	30178.5	2.614	VV	0.021	24027.25	3.626
62	5.928		0.0000	0.000	41559.4	3.600	VV	0.024	28865.67	4.356

USF83 1711

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	6.012		0.0000	0.000	176981.0	15.330	VV	0.048	61155.30	9.230
64	6.096	Endrin ketone	5.7308	5.870	24579.6	2.129	VV	0.023	18168.55	2.742
65	6.135		0.0000	0.000	42935.5	3.719	VV	0.045	15776.72	2.381
66	6.202		0.0000	0.000	4211.5	0.365	VV	0.019	3793.48	0.573
67	6.227		0.0000	0.000	11591.0	1.004	VB	0.026	7532.42	1.137
68	6.280		0.0000	0.000	28002.2	2.425	BB	0.020	23680.50	3.574
69	6.325		0.0000	0.000	2034.3	0.176	BB	0.022	1571.86	0.237
70	6.369		0.0000	0.000	25693.9	2.226	BB	0.036	11985.07	1.809
71	6.450		0.0000	0.000	16212.8	1.404	BB	0.036	7541.96	1.138
72	6.525		0.0000	0.000	3459.4	0.300	BB	0.022	2603.78	0.393
73	6.565		0.0000	0.000	1134.1	0.098	BB	0.014	1374.90	0.207
74	6.606		0.0000	0.000	197.7	0.017	BB	0.014	237.45	0.036
75	6.637		0.0000	0.000	932.1	0.081	BB	0.037	419.39	0.063
76	6.715		0.0000	0.000	7232.9	0.626	BB	0.033	3609.41	0.545
77	6.800		0.0000	0.000	418.9	0.036	BB	0.021	330.32	0.050
78	6.852		0.0000	0.000	100.5	0.009	BB	0.017	101.03	0.015
79	6.899		0.0000	0.000	274.2	0.024	BB	0.019	241.66	0.036
80	6.927		0.0000	0.000	753.4	0.065	BB	0.027	460.96	0.070
81	7.044	DCB	0.3473	0.356	1228.8	0.106	BB	0.044	467.18	0.071
82	7.122		0.0000	0.000	44.8	0.004	BB	0.015	50.38	0.008
83	7.242		0.0000	0.000	170.6	0.015	BB	0.030	95.47	0.014
84	7.316		0.0000	0.000	72.6	0.006	BB	0.033	36.95	0.006
85	7.386		0.0000	0.000	328.9	0.028	BB	0.041	132.93	0.020

Total Area = 1154509.0, Total Amount = 97.633, Total Height = 662606.1, Sample Units = PPB

USF03 1712

Sample Name: **TOXA31124B AATOXA3AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 08:22:30pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.20R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.043		0.0000	0.000	1093.8	0.047	BV	0.026	711.86	0.053
2	2.101		0.0000	0.000	1961.6	0.085	VV	0.047	691.45	0.052
3	2.204		0.0000	0.000	5501.8	0.238	VV	0.054	1707.07	0.127
4	2.308		0.0000	0.000	967.3	0.042	VV	0.056	289.97	0.022
5	2.330		0.0000	0.000	468.4	0.020	VB	0.024	322.39	0.024
6	2.489		0.0000	0.000	1300.3	0.056	BV	0.057	382.23	0.029
7	2.526		0.0000	0.000	793.7	0.034	VV	0.040	334.29	0.025
8	2.619		0.0000	0.000	743.9	0.032	VV	0.053	233.15	0.017
9	2.663		0.0000	0.000	135.9	0.006	VB	0.018	122.93	0.009
10	2.697		0.0000	0.000	131.6	0.006	BB	0.026	85.97	0.006
11	2.739		0.0000	0.000	2335.3	0.101	BB	0.043	912.38	0.068
12	2.831		0.0000	0.000	952.3	0.041	BB	0.042	380.52	0.028
13	2.916		0.0000	0.000	650.5	0.028	BB	0.069	157.35	0.012
14	2.957	TCX	0.0084	0.009	94.0	0.004	BB	0.021	73.80	0.006
15	3.039		0.0000	0.000	117.4	0.005	BB	0.018	106.44	0.008
16	3.175		0.0000	0.000	5554.0	0.240	BV	0.101	915.65	0.068
17	3.370		0.0000	0.000	936.4	0.040	VB	0.027	585.10	0.044
18	3.434		0.0000	0.000	2679.0	0.116	BV	0.027	1656.42	0.124
19	3.474		0.0000	0.000	8252.1	0.356	VV	0.020	6857.92	0.512
20	3.528	gamma-BHC	0.0562	0.060	1393.4	0.060	VV	0.032	735.26	0.055
21	3.565		0.0000	0.000	2509.9	0.108	VV	0.034	1221.50	0.091
22	3.641		0.0000	0.000	2091.4	0.090	VV	0.042	826.94	0.062
23	3.680		0.0000	0.000	6073.9	0.262	VV	0.019	5414.68	0.404
24	3.725	beta-BHC	0.3248	0.348	2578.4	0.111	VV	0.025	1724.18	0.129
25	3.767	Heptachlor	0.0875	0.094	1179.1	0.051	VV	0.023	837.79	0.063
26	3.795		0.0000	0.000	5431.2	0.235	VV	0.027	3363.56	0.251
27	3.838		0.0000	0.000	3204.8	0.138	VV	0.023	2346.20	0.175
28	3.869	delta-BHC	0.5764	0.617	9688.3	0.418	VB	0.024	6865.05	0.512
29	3.960	Aldrin	0.4513	0.483	6145.0	0.265	BV	0.026	3916.20	0.292
30	3.993	Telodrin	0.3249	0.348	3077.1	0.133	VV	0.021	2475.44	0.185
31	4.028		0.0000	0.000	1466.8	0.063	VV	0.026	952.66	0.071
32	4.061		0.0000	0.000	3334.8	0.144	VV	0.027	2088.85	0.156
33	4.110		0.0000	0.000	5667.1	0.245	VV	0.027	3513.05	0.262
34	4.141		0.0000	0.000	8265.7	0.357	VV	0.022	6378.92	0.476
35	4.191		0.0000	0.000	9840.0	0.425	VV	0.018	8909.34	0.665
36	4.240		0.0000	0.000	5868.7	0.253	VV	0.027	3625.40	0.271
37	4.270	Hept. epoxide	0.8320	0.891	14067.2	0.608	VV	0.033	7083.97	0.529
38	4.320		0.0000	0.000	23247.8	1.004	VV	0.022	17906.06	1.336
39	4.374	o,p-DDE	0.2192	0.235	1059.6	0.046	VV	0.015	1157.61	0.086
40	4.412		0.0000	0.000	8889.0	0.384	VV	0.029	5096.76	0.380
41	4.460	g. Chlordane	2.0053	2.147	32040.4	1.384	VV	0.032	16581.77	1.237
42	4.531	Endosulfan I	0.4962	0.531	7323.5	0.316	VV	0.033	3721.83	0.278
43	4.585		0.0000	0.000	11550.7	0.499	VV	0.033	5879.87	0.439
44	4.621	4,4'-DDE	2.2248	2.382	8626.8	0.373	VB	0.028	5150.64	0.384
45	4.692		0.0000	0.000	36709.9	1.586	BV	0.022	27712.68	2.068
46	4.717	Dieldrin	2.1953	2.351	24347.5	1.052	VV	0.023	17474.53	1.304
47	4.758		0.0000	0.000	18622.2	0.804	VB	0.022	13920.62	1.039
48	4.823		0.0000	0.000	36191.4	1.563	BV	0.022	26984.26	2.014
49	4.859		0.0000	0.000	47101.9	2.035	VB	0.029	27533.58	2.055
50	4.911	o,p-DDT	7.1530	7.659	54846.5	2.369	BV	0.028	32270.18	2.408
51	4.964		0.0000	0.000	30071.5	1.299	VB	0.030	16901.46	1.261
52	5.016	4,4'-DDD	1.4928	1.598	9382.9	0.405	BB	0.019	8152.80	0.608
53	5.059		0.0000	0.000	25507.9	1.102	BV	0.021	20432.76	1.525
54	5.079		0.0000	0.000	17608.1	0.761	VV	0.018	15985.09	1.193
55	5.134		0.0000	0.000	46927.2	2.027	VV	0.029	27151.14	2.026
56	5.156	Endosulfan II	10.9087	11.681	91671.0	3.960	VV	0.023	65087.23	4.857
57	5.182		0.0000	0.000	33894.6	1.464	VV	0.018	31292.00	2.335
58	5.215	4,4'-DDT	8.0898	8.662	62787.1	2.712	VV	0.024	43942.72	3.279
59	5.242		0.0000	0.000	34964.1	1.510	VV	0.022	26857.48	2.004
60	5.271	Endrin aldehyde	6.9559	7.448	49634.3	2.144	VV	0.026	32217.51	2.404
61	5.317		0.0000	0.000	71933.4	3.107	VB	0.027	44029.83	3.286
62	5.380		0.0000	0.000	245557.4	10.607	BB	0.043	95793.26	7.148

USF63 1713

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.466	Endo. sulfate	4.9105	5.258	33345.0	1.440	BV	0.023	23967.30	1.789
64	5.489		0.0000	0.000	23425.7	1.012	VV	0.018	21681.76	1.618
65	5.519		0.0000	0.000	35620.6	1.539	VB	0.018	32543.87	2.429
66	5.586		0.0000	0.000	131435.6	5.677	BV	0.040	54964.52	4.102
67	5.623		0.0000	0.000	44143.2	1.907	VV	0.023	32349.27	2.414
68	5.669	Methoxychlor	29.5987	31.694	114068.9	4.927	VV	0.033	57816.91	4.315
69	5.716		0.0000	0.000	64332.3	2.779	VV	0.029	36491.20	2.723
70	5.769		0.0000	0.000	299069.4	12.918	VV	0.043	117208.00	8.747
71	5.820		0.0000	0.000	33758.8	1.458	VV	0.018	31756.03	2.370
72	5.855	Endrin ketone	1.6276	1.743	11661.8	0.504	VV	0.019	10059.80	0.751
73	5.894		0.0000	0.000	50413.4	2.178	VV	0.028	30292.39	2.261
74	5.958		0.0000	0.000	74544.5	3.220	VV	0.036	34602.53	2.582
75	5.999	Mirex	12.5681	13.458	72450.7	3.130	VB	0.024	49425.24	3.688
76	6.055		0.0000	0.000	15279.2	0.660	BV	0.033	7727.38	0.577
77	6.097		0.0000	0.000	47796.7	2.065	VV	0.025	31950.96	2.384
78	6.129		0.0000	0.000	18861.6	0.815	VV	0.021	14694.54	1.097
79	6.176		0.0000	0.000	45028.2	1.945	VV	0.049	15267.69	1.139
80	6.263		0.0000	0.000	3491.9	0.151	VB	0.022	2664.12	0.199
81	6.304		0.0000	0.000	12053.7	0.521	BV	0.023	8900.62	0.664
82	6.353		0.0000	0.000	1468.3	0.063	VB	0.016	1550.93	0.116
83	6.390		0.0000	0.000	1495.5	0.065	BV	0.018	1366.20	0.102
84	6.434		0.0000	0.000	11653.8	0.503	VB	0.029	6621.79	0.494
85	6.483		0.0000	0.000	425.8	0.018	BB	0.014	524.49	0.039
86	6.513		0.0000	0.000	776.2	0.034	BV	0.018	714.90	0.053
87	6.533		0.0000	0.000	896.7	0.039	VV	0.019	769.49	0.057
88	6.566		0.0000	0.000	1671.6	0.072	VV	0.036	779.36	0.058
89	6.618	DCB	0.2819	0.302	1622.9	0.070	VV	0.027	989.65	0.074
90	6.662		0.0000	0.000	4559.8	0.197	VV	0.028	2693.13	0.201
91	6.709		0.0000	0.000	727.6	0.031	VV	0.022	543.13	0.041
92	6.755		0.0000	0.000	769.2	0.033	VB	0.027	477.56	0.036
93	6.826		0.0000	0.000	222.1	0.010	BV	0.039	95.92	0.007
94	6.911		0.0000	0.000	178.4	0.008	VV	0.027	108.87	0.008
95	6.953		0.0000	0.000	378.8	0.016	VB	0.029	219.17	0.016
96	7.136		0.0000	0.000	85.4	0.004	BB	0.021	66.68	0.005
97	7.280		0.0000	0.000	56.2	0.002	BB	0.032	29.05	0.002
98	7.315		0.0000	0.000	122.3	0.005	BB	0.021	97.56	0.007
99	7.497		0.0000	0.000	137.4	0.006	BB	62374.790	0.00	0.000

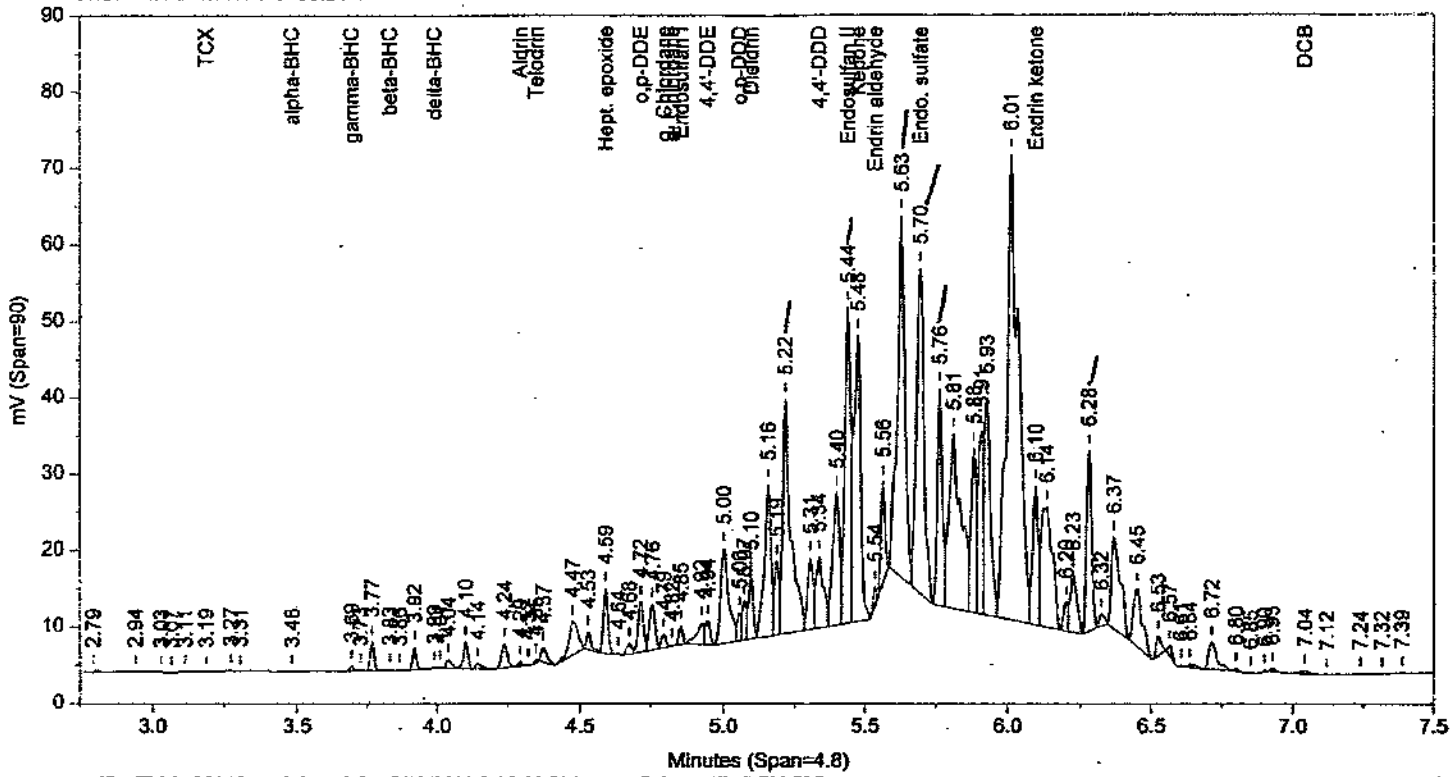
Total Area = 2315078.0, Total Amount = 93.389, Total Height = 1340051.0, Sample Units = PPB

USF93 1714

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.20R

TOXA31124B AATOXA3AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.20R

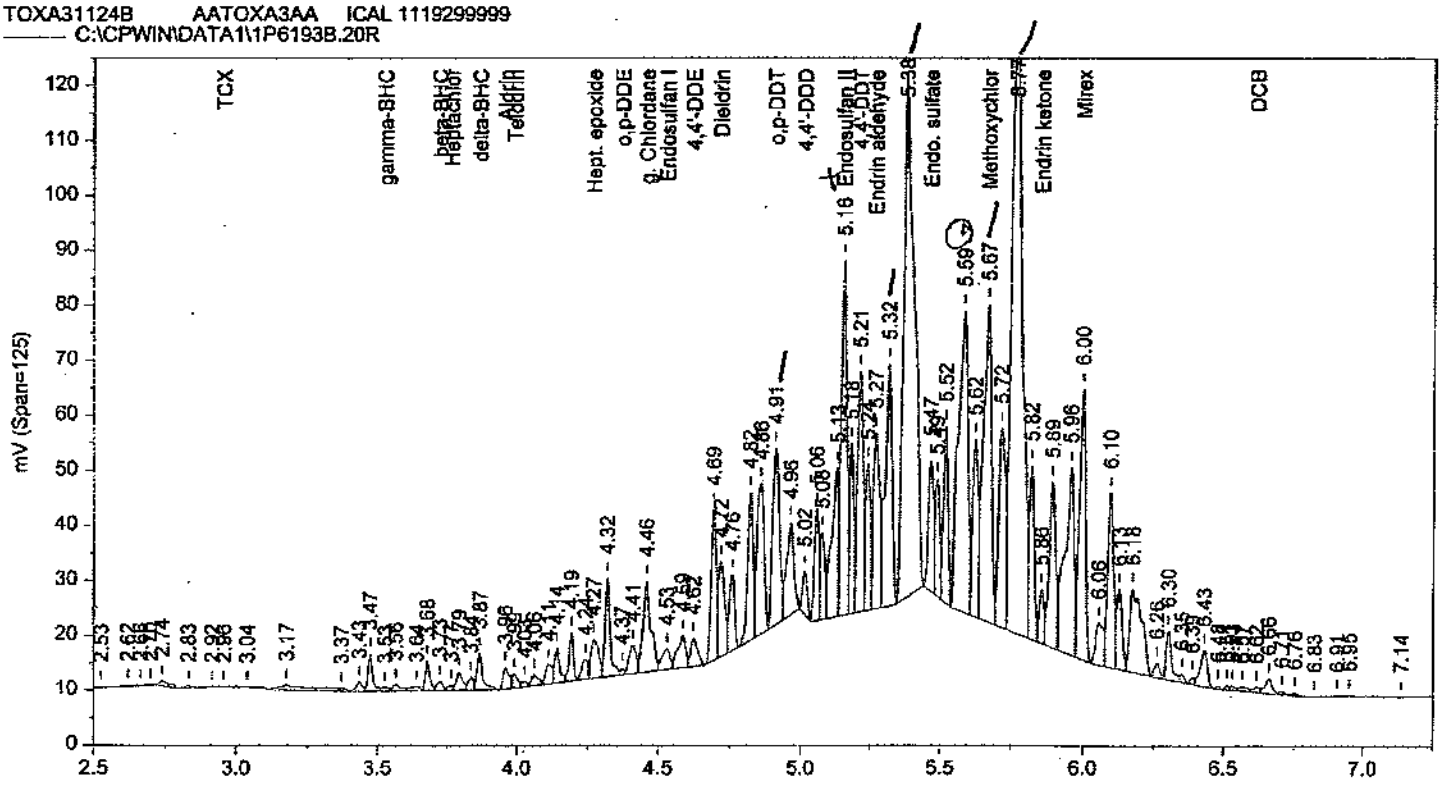


Instrument ID: CP06--S9147A Injected On: 7/12/2011 8:15:00 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.20R

TOXA31124B AATOXA3AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.20R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 8:15:00 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMultiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.186	51	.00969	TCX	2.957	74	.00842	TCX
3.483	143	.01447	alpha-BHC	.	0	.	alpha-BHC
3.693	672	.08035	gamma-BHC	3.528	735	.05625	gamma-BHC
3.829	190	.06426	beta-BHC	3.725	1724	.32485	beta-BHC
.	0	.	Heptachlor	3.767	838	.08747	Heptachlor
3.989	105	.01566	delta-BHC	3.869	6865	.57643	delta-BHC
4.293	585	.08667	Aldrin	3.96	3916	.45128	Aldrin
4.347	402	.15806	Telodrin	3.993	2475	.32491	Telodrin
4.591	8560	1.56362	Hept. epoxide	4.27	7084	.83202	Hept. epoxide
4.715	6644	2.55961	o,p-DDE	4.374	1158	.21919	o,p-DDE
4.795	1821	.3591	g. Chlordane	4.46	16582	2.00534	g. Chlordane
4.853	2487	.56755	Endosulfan I	4.531	3722	.4962	Endosulfan I
4.944	3100	.91591	4,4'-DDE	4.621	5151	2.22481	4,4'-DDE
5.097	8442	1.72143	Dieldrin	4.717	17475	2.19528	Dieldrin
4.823	189	.03938	a. Chlordane	.	0	.	a. Chlordane
.	0	.	o,p-DDT	4.911	32270	7.15297	o,p-DDT
5.337	9406	4.05016	4,4'-DDD	5.016	8153	1.49278	4,4'-DDD
5.057	3617	1.79657	o,p-DDD	.	0	.	o,p-DDD
5.439	41646	11.84226	Endosulfan II	5.156	65087	10.90872	Endosulfan II
.	0	.	4,4'-DDT	5.215	43943	8.0898	4,4'-DDT
5.537	2490	1.00735	Endrin aldehyde	5.271	32218	6.95587	Endrin aldehyde
5.695	42887	14.3399	Endo. sulfate	5.466	23967	4.91048	Endo. sulfate
5.475	37742	50.36299	Kepone	.	0	.	Kepone
.	0	.	Methoxychlor	5.669	57817	29.59868	Methoxychlor
6.096	18169	5.73083	Endrin ketone	5.855	10060	1.62759	Endrin ketone
.	0	.	Mirex	5.999	49425	12.56811	Mirex
7.044	467	.34732	DCB	6.618	990	.28187	DCB

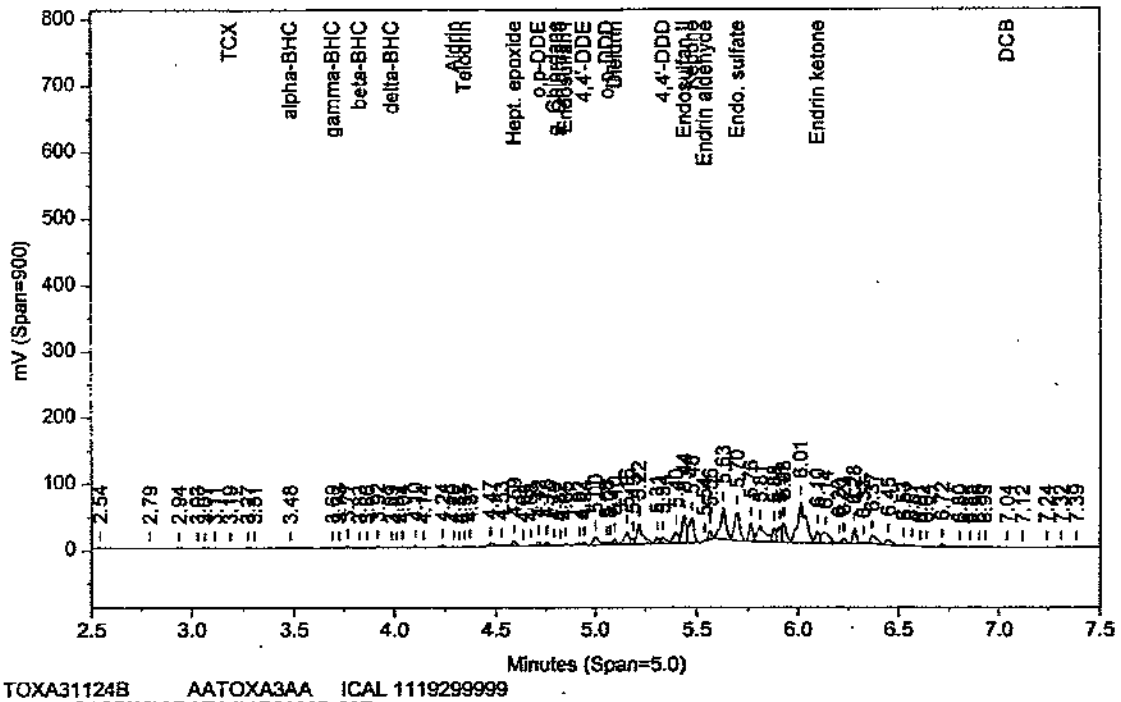
Files:
Area File: C:\CPWIN\DATA1\1P6193.20A
Area File: C:\CPWIN\DATA1\1P6193B.20A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 8:22:36 PM
File Reported On: 7/12/2011 at 8:22:46 PM

USW63 1716

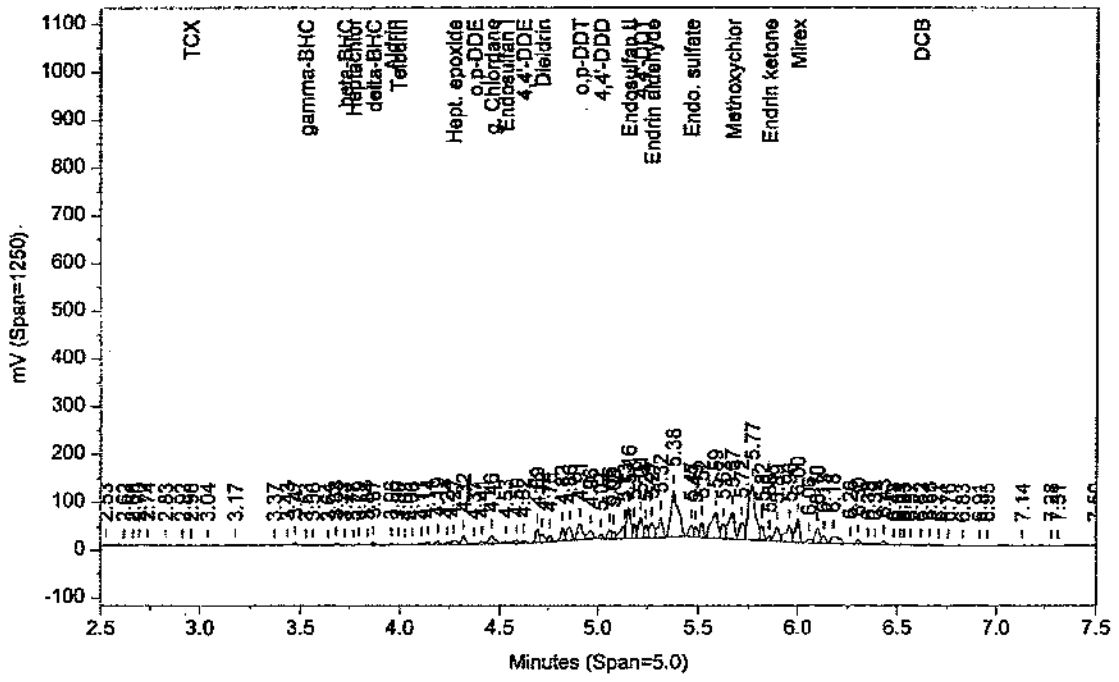
Files:

REPLOTS

TOXA31124B AATOXA3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.20R



TOXA31124B AATOXA3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.20R



USP03 1717

Sample Name: **TOXA41124A AATOXA4AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 08:35:17pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.21R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.326		0.0000	0.000	856.7	0.033	BB	0.032	452.30	0.028
2	2.388		0.0000	0.000	2168.5	0.082	BV	0.046	791.77	0.049
3	2.469		0.0000	0.000	1865.8	0.071	VV	0.046	674.72	0.042
4	2.544		0.0000	0.000	6442.8	0.245	VB	0.026	4112.38	0.254
5	2.655		0.0000	0.000	148.1	0.006	BB	0.015	162.66	0.010
6	2.750		0.0000	0.000	157.8	0.006	BV	0.042	62.23	0.004
7	2.811		0.0000	0.000	469.6	0.018	VB	0.039	200.68	0.012
8	3.010		0.0000	0.000	204.3	0.008	BB	0.036	95.76	0.006
9	3.067		0.0000	0.000	120.1	0.005	BB	0.015	135.50	0.008
10	3.113		0.0000	0.000	394.0	0.015	BB	0.048	136.28	0.008
11	3.182 TCX		0.0141	0.007	121.3	0.005	BB	0.027	73.88	0.005
12	3.247		0.0000	0.000	48.8	0.002	BB	0.013	60.67	0.004
13	3.270		0.0000	0.000	205.9	0.008	BB	0.015	221.74	0.014
14	3.305		0.0000	0.000	118.0	0.004	BB	0.017	116.11	0.007
15	3.386		0.0000	0.000	119.5	0.005	BB	0.021	96.33	0.006
16	3.476 alpha-BHC		0.0091	0.004	321.9	0.012	BB	0.060	89.62	0.006
17	3.566		0.0000	0.000	65.4	0.002	BB	0.019	57.46	0.004
18	3.694 gamma-BHC		0.1390	0.066	1166.4	0.044	BB	0.017	1162.83	0.072
19	3.726		0.0000	0.000	232.5	0.009	BB	0.013	288.13	0.018
20	3.768		0.0000	0.000	6792.3	0.258	BB	0.016	7166.37	0.443
21	3.831 beta-BHC		0.1008	0.048	278.3	0.011	BB	0.016	298.36	0.018
22	3.867		0.0000	0.000	101.9	0.004	BB	0.014	121.52	0.008
23	3.891		0.0000	0.000	47.3	0.002	BB	0.010	78.29	0.005
24	3.919		0.0000	0.000	5041.6	0.191	BB	0.017	4980.72	0.308
25	3.989 delta-BHC		0.0264	0.012	176.9	0.007	BB	0.017	177.38	0.011
26	4.011		0.0000	0.000	115.3	0.004	BB	0.012	164.93	0.010
27	4.039 Heptachlor		0.2871	0.136	2443.2	0.093	BB	0.021	1903.40	0.118
28	4.102		0.0000	0.000	6304.0	0.239	BB	0.018	5862.40	0.363
29	4.145		0.0000	0.000	1813.5	0.069	BB	0.023	1298.58	0.080
30	4.239		0.0000	0.000	7785.6	0.296	BB	0.024	5492.02	0.340
31	4.295 Aldrin		0.1382	0.065	921.2	0.035	BB	0.016	933.48	0.058
32	4.322		0.0000	0.000	433.5	0.016	BB	0.013	568.50	0.035
33	4.350 Telodrin		0.1377	0.065	363.2	0.014	BB	0.017	350.59	0.022
34	4.373		0.0000	0.000	4385.0	0.166	BB	0.023	3224.57	0.199
35	4.483		0.0000	0.000	18367.6	0.697	BB	0.037	8274.07	0.512
36	4.530		0.0000	0.000	4577.8	0.174	BB	0.017	4494.36	0.278
37	4.591 Hept. epoxide		3.1906	1.511	19069.3	0.724	BB	0.018	17467.67	1.080
38	4.637		0.0000	0.000	470.9	0.018	BB	0.015	532.81	0.033
39	4.677		0.0000	0.000	2565.3	0.097	BV	0.020	2101.65	0.130
40	4.716 o,p-DDE		5.2912	2.506	17344.4	0.658	VV	0.021	13734.22	0.849
41	4.756		0.0000	0.000	14995.3	0.569	VV	0.020	12669.56	0.783
42	4.796 g. Chlordane		0.7896	0.374	3984.8	0.151	VV	0.017	4004.36	0.248
43	4.853 a. Chlordane		1.1056	0.524	5546.0	0.211	VB	0.017	5310.90	0.328
44	4.884 Endosulfan I		0.2576	0.122	1004.7	0.038	BV	0.015	1128.79	0.070
45	4.922		0.0000	0.000	8078.1	0.307	VV	0.028	4873.38	0.301
46	4.946 4,4'-DDE		1.7455	0.827	6911.8	0.262	VB	0.020	5906.99	0.365
47	5.002		0.0000	0.000	50695.2	1.924	BV	0.031	26908.46	1.664
48	5.061 o,p-DDD		4.1099	1.946	8291.5	0.315	VV	0.017	8274.17	0.512
49	5.075 Dieldrin		2.5410	1.203	12836.1	0.487	VV	0.017	12460.73	0.771
50	5.097		0.0000	0.000	21298.8	0.808	VV	0.019	19024.00	1.176
51	5.157		0.0000	0.000	72238.4	2.742	VV	0.027	45103.41	2.789
52	5.187		0.0000	0.000	25124.3	0.954	VV	0.019	22260.26	1.377
53	5.217		0.0000	0.000	135378.6	5.139	VV	0.032	71383.91	4.414
54	5.308		0.0000	0.000	28734.4	1.091	VV	0.023	21040.37	1.301
55	5.339 4,4'-DDD		8.8459	4.189	36560.7	1.388	VV	0.030	20542.80	1.270
56	5.401		0.0000	0.000	67033.4	2.545	VV	0.028	39290.60	2.430
57	5.439 Endosulfan II		26.8773	12.729	142352.4	5.404	VV	0.025	94519.47	5.845
58	5.476 Kepone		106.9916	50.671	128207.4	4.867	VB	0.026	81042.73	5.012
59	5.537 Endrin aldehyde		2.6706	1.265	5404.4	0.205	BV	0.014	6601.03	0.408
60	5.565		0.0000	0.000	30191.0	1.146	VB	0.017	29871.29	1.847
61	5.629		0.0000	0.000	192205.4	7.296	BV	0.031	102239.90	6.322
62	5.696 Endo. sulfate		30.1583	14.283	172175.8	6.536	VB	0.030	95260.58	5.891

USF03 1718

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.764		0.0000	0.000	82706.5	3.139	BV	0.021	64188.33	3.969
64	5.813		0.0000	0.000	162537.0	6.170	VV	0.049	55271.30	3.418
65	5.884		0.0000	0.000	73895.7	2.805	VV	0.023	53341.69	3.299
66	5.911		0.0000	0.000	62758.5	2.382	VV	0.019	55562.78	3.436
67	5.929		0.0000	0.000	101386.8	3.849	VV	0.025	67298.75	4.162
68	6.014		0.0000	0.000	266489.1	10.116	VV	0.031	145567.30	9.002
69	6.036		0.0000	0.000	157776.2	5.989	VV	0.026	99242.34	6.137
70	6.097	Endrin ketone	14.6976	6.961	60961.0	2.314	VV	0.022	46595.93	2.881
71	6.137		0.0000	0.000	113718.2	4.317	VV	0.047	40615.64	2.512
72	6.203		0.0000	0.000	12607.7	0.479	VV	0.019	11003.49	0.680
73	6.227		0.0000	0.000	32340.7	1.228	VB	0.026	20354.38	1.259
74	6.281		0.0000	0.000	68067.5	2.584	BB	0.020	57572.98	3.560
75	6.325		0.0000	0.000	5232.1	0.199	BB	0.021	4168.97	0.258
76	6.370		0.0000	0.000	65599.7	2.490	BB	0.035	31331.61	1.937
77	6.452		0.0000	0.000	42537.8	1.615	BB	0.035	20509.42	1.268
78	6.526		0.0000	0.000	8644.2	0.328	BB	0.021	6775.69	0.419
79	6.566		0.0000	0.000	2778.2	0.105	BB	0.014	3281.99	0.203
80	6.608		0.0000	0.000	544.4	0.021	BB	0.014	647.91	0.040
81	6.639		0.0000	0.000	2658.4	0.101	BB	0.039	1148.07	0.071
82	6.717		0.0000	0.000	17462.6	0.663	BB	0.033	8819.94	0.545
83	6.804		0.0000	0.000	1277.4	0.048	BB	0.021	1022.73	0.063
84	6.855		0.0000	0.000	333.1	0.013	BB	0.019	294.76	0.018
85	6.901		0.0000	0.000	887.9	0.034	BB	0.019	786.69	0.049
86	6.930		0.0000	0.000	2291.7	0.087	BB	0.027	1412.52	0.087
87	7.045	DCB	1.0262	0.486	3258.0	0.124	BB	0.039	1380.35	0.085
88	7.121		0.0000	0.000	127.8	0.005	BB	0.018	115.90	0.007
89	7.158		0.0000	0.000	121.9	0.005	BB	0.019	106.49	0.007
90	7.239		0.0000	0.000	441.4	0.017	BB	0.026	279.25	0.017
91	7.313		0.0000	0.000	307.8	0.012	BB	0.035	146.76	0.009
92	7.390		0.0000	0.000	722.4	0.027	BB	0.042	287.51	0.018
93	7.455		0.0000	0.000	75.5	0.003	BB	0.020	64.49	0.004

Total Area = 2634420.0, Total Amount = 211.151, Total Height = 1617131.0, Sample Units = PPB

USF83 1719

Sample Name: **TOXA41124A AATOXA4AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 08:35:17pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.21R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.045		0.0000	0.000	1624.1	0.031	BV	0.026	1026.92	0.034
2	2.100		0.0000	0.000	3389.6	0.065	VV	0.056	1003.80	0.033
3	2.165		0.0000	0.000	3127.9	0.060	VV	0.060	875.28	0.029
4	2.204		0.0000	0.000	6986.1	0.135	VV	0.027	4371.02	0.146
5	2.309		0.0000	0.000	1653.7	0.032	VV	0.047	585.16	0.019
6	2.331		0.0000	0.000	1411.2	0.027	VB	0.036	654.13	0.022
7	2.480		0.0000	0.000	1054.2	0.020	BV	0.050	353.94	0.012
8	2.527		0.0000	0.000	610.0	0.012	VV	0.026	389.51	0.013
9	2.619		0.0000	0.000	317.4	0.006	VB	0.033	162.67	0.005
10	2.738		0.0000	0.000	4159.4	0.080	BB	0.057	1219.31	0.041
11	2.835		0.0000	0.000	1158.4	0.022	BB	0.047	410.18	0.014
12	2.899		0.0000	0.000	652.0	0.013	BB	0.052	207.12	0.007
13	2.958	TCX	0.0113	0.005	113.0	0.002	BB	0.019	99.50	0.003
14	3.040		0.0000	0.000	658.0	0.013	BB	0.072	152.28	0.005
15	3.129		0.0000	0.000	164.8	0.003	BB	0.021	132.52	0.004
16	3.180		0.0000	0.000	3649.0	0.070	BV	0.061	999.06	0.033
17	3.315	alpha-BHC	0.0416	0.020	2747.2	0.053	VV	0.076	603.75	0.020
18	3.372		0.0000	0.000	1050.3	0.020	VB	0.027	656.02	0.022
19	3.435		0.0000	0.000	3597.8	0.069	BV	0.024	2527.00	0.084
20	3.474		0.0000	0.000	14827.3	0.286	VV	0.019	13349.33	0.445
21	3.528	gamma-BHC	0.0705	0.033	1578.3	0.030	VV	0.029	921.47	0.031
22	3.565		0.0000	0.000	3049.9	0.059	VV	0.028	1815.76	0.061
23	3.643		0.0000	0.000	2279.3	0.044	VV	0.041	923.32	0.031
24	3.681		0.0000	0.000	9396.9	0.181	VV	0.017	8972.74	0.299
25	3.726	beta-BHC	0.3729	0.177	2937.0	0.057	VV	0.025	1979.24	0.066
26	3.768	Heptachlor	0.1117	0.053	1400.1	0.027	VV	0.022	1069.67	0.036
27	3.796		0.0000	0.000	8008.9	0.154	VV	0.026	5194.45	0.173
28	3.838		0.0000	0.000	5182.3	0.100	VV	0.023	3693.37	0.123
29	3.870	delta-BHC	0.9665	0.458	14804.7	0.285	VB	0.021	11510.78	0.384
30	3.960	Aldrin	0.8302	0.394	10431.6	0.201	BV	0.024	7204.73	0.240
31	3.993	Telodrin	0.5059	0.240	4562.4	0.088	VV	0.020	3854.16	0.128
32	4.030		0.0000	0.000	2234.0	0.043	VV	0.025	1477.03	0.049
33	4.061		0.0000	0.000	2111.6	0.041	VV	0.016	2152.16	0.072
34	4.079		0.0000	0.000	1434.3	0.028	VV	0.013	1781.98	0.059
35	4.110		0.0000	0.000	8359.3	0.161	VV	0.026	5438.79	0.181
36	4.142		0.0000	0.000	15450.2	0.298	VV	0.021	12404.81	0.413
37	4.192		0.0000	0.000	16491.7	0.318	VV	0.018	15071.65	0.502
38	4.239		0.0000	0.000	9244.0	0.178	VV	0.027	5806.25	0.193
39	4.271	Hept. epoxide	1.4885	0.706	24542.9	0.473	VV	0.032	12673.71	0.422
40	4.321		0.0000	0.000	41783.8	0.806	VV	0.021	33124.46	1.104
41	4.376	o,p-DDE	0.3933	0.187	2134.4	0.041	VV	0.017	2077.02	0.069
42	4.411		0.0000	0.000	14648.9	0.282	VV	0.028	8567.01	0.285
43	4.461	g. Chlordane	3.9878	1.891	63337.0	1.221	VV	0.032	32974.05	1.099
44	4.531	Endosulfan I	0.9117	0.432	12648.8	0.244	VV	0.031	6837.97	0.228
45	4.586		0.0000	0.000	21747.7	0.419	VV	0.032	11430.21	0.381
46	4.628	4,4'-DDE	2.2940	1.088	9638.9	0.186	VB	0.028	5696.02	0.190
47	4.693		0.0000	0.000	75887.6	1.463	BV	0.021	59551.00	1.984
48	4.718	Dieldrin	4.6228	2.192	51064.3	0.984	VV	0.023	36797.94	1.226
49	4.758		0.0000	0.000	40957.0	0.790	VV	0.023	29906.33	0.997
50	4.823		0.0000	0.000	78704.2	1.517	VV	0.022	60414.35	2.013
51	4.857		0.0000	0.000	104073.0	2.006	VB	0.028	61005.07	2.033
52	4.912	o,p-DDT	16.4318	7.793	124647.5	2.403	BV	0.028	74130.94	2.470
53	4.965		0.0000	0.000	68206.5	1.315	VB	0.029	39614.33	1.320
54	5.016	4,4'-DDD	3.4112	1.618	22084.4	0.426	BB	0.020	18630.35	0.621
55	5.060		0.0000	0.000	56684.9	1.093	BV	0.020	46623.70	1.554
56	5.079		0.0000	0.000	43062.5	0.830	VV	0.019	37907.93	1.263
57	5.135		0.0000	0.000	104783.9	2.020	VV	0.029	60848.10	2.028
58	5.156	Endosulfan II	25.6975	12.187	213420.5	4.114	VV	0.023	153325.10	5.109
59	5.182		0.0000	0.000	76906.8	1.483	VV	0.019	68988.59	2.299
60	5.215	4,4'-DDT	18.5542	8.800	142857.2	2.754	VV	0.024	100783.80	3.358
61	5.243		0.0000	0.000	79806.5	1.539	VV	0.022	61464.88	2.048
62	5.271	Endrin aldehyde	15.5680	7.383	139906.5	2.697	VV	0.032	72106.36	2.403

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PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.318		0.0000	0.000	137662.9	2.654	VB	0.023	101013.40	3.366
64	5.380		0.0000	0.000	566063.4	10.913	BB	0.044	216159.90	7.203
65	5.467	Endo. sulfate	11.4954	5.452	76395.3	1.473	BV	0.023	56107.18	1.870
66	5.489		0.0000	0.000	54981.2	1.060	VV	0.019	49460.99	1.648
67	5.519		0.0000	0.000	86296.9	1.664	VB	0.019	77588.22	2.585
68	5.587		0.0000	0.000	314488.1	6.063	BV	0.041	128788.90	4.291
69	5.623		0.0000	0.000	94520.0	1.822	VV	0.021	74226.33	2.473
70	5.670	Methoxychlor	70.4922	33.432	270174.6	5.209	VV	0.033	137696.80	4.588
71	5.717		0.0000	0.000	149695.5	2.886	VV	0.029	84867.33	2.828
72	5.771		0.0000	0.000	690456.6	13.311	VV	0.044	264098.40	8.800
73	5.821		0.0000	0.000	81129.8	1.564	VV	0.019	72488.85	2.415
74	5.856	Endrin ketone	3.5196	1.669	22371.0	0.431	VV	0.017	21754.06	0.725
75	5.895		0.0000	0.000	116290.8	2.242	VV	0.027	72355.81	2.411
76	5.959		0.0000	0.000	171065.1	3.298	VV	0.035	81451.77	2.714
77	6.001	Mirex	28.4333	13.485	169447.8	3.267	VB	0.025	111816.30	3.726
78	6.057		0.0000	0.000	34255.5	0.660	BV	0.031	18167.25	0.605
79	6.098		0.0000	0.000	120998.3	2.333	VV	0.025	79431.32	2.647
80	6.130		0.0000	0.000	38469.9	0.742	VV	0.019	33250.91	1.108
81	6.177		0.0000	0.000	103177.2	1.989	VV	0.050	34086.71	1.136
82	6.263		0.0000	0.000	8072.3	0.156	VB	0.022	6164.42	0.205
83	6.305		0.0000	0.000	29495.3	0.569	BV	0.022	22159.04	0.738
84	6.353		0.0000	0.000	3769.9	0.073	VB	0.016	3893.93	0.130
85	6.391		0.0000	0.000	3498.4	0.067	BV	0.018	3160.92	0.105
86	6.435		0.0000	0.000	27562.8	0.531	VB	0.029	15925.08	0.531
87	6.484		0.0000	0.000	1163.8	0.022	BV	0.014	1362.80	0.045
88	6.514		0.0000	0.000	4029.4	0.078	VV	0.037	1834.19	0.061
89	6.567		0.0000	0.000	4068.9	0.078	VV	0.037	1819.79	0.061
90	6.620	DCB	0.6428	0.305	3776.4	0.073	VV	0.028	2257.03	0.075
91	6.664		0.0000	0.000	10905.7	0.210	VV	0.028	6596.82	0.220
92	6.709		0.0000	0.000	1640.1	0.032	VV	0.023	1203.44	0.040
93	6.757		0.0000	0.000	2026.9	0.039	VB	0.028	1222.45	0.041
94	6.823		0.0000	0.000	303.4	0.006	BV	0.021	239.96	0.008
95	6.874		0.0000	0.000	494.2	0.010	VV	0.038	216.73	0.007
96	6.911		0.0000	0.000	564.4	0.011	VV	0.027	343.57	0.011
97	6.953		0.0000	0.000	1271.5	0.025	VV	0.032	668.90	0.022
98	7.046		0.0000	0.000	583.8	0.011	VB	0.032	307.92	0.010
99	7.137		0.0000	0.000	203.7	0.004	BB	0.023	146.48	0.005
100	7.271		0.0000	0.000	70.6	0.001	BV	0.022	52.54	0.002
101	7.319		0.0000	0.000	216.1	0.004	VB	0.032	111.82	0.004
102	7.436		0.0000	0.000	53.9	0.001	BB	0.025	36.48	0.001

Total Area = 5187157.0, Total Amount = 210.855, Total Height = 3001065.0, Sample Units = PPB

USF03 1721

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.21R

TOXA41124A AATOXA4AA ICAL 1119299999

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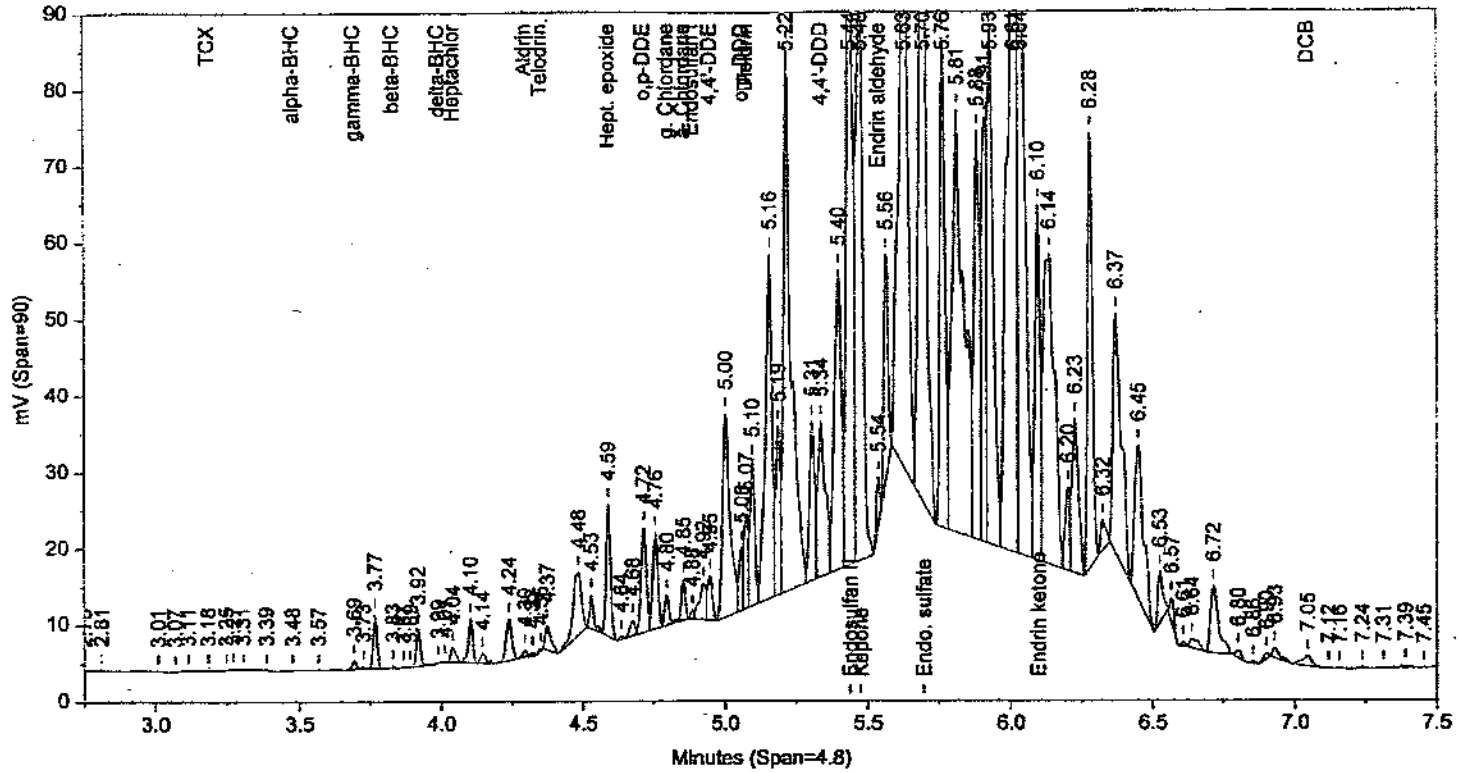

Instrument ID: CP06--S9147A Injected On: 7/12/2011 8:27:47 PM Column ID: RTX CLP

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TOXA41124A AATOXA4AA ICAL 1119299999

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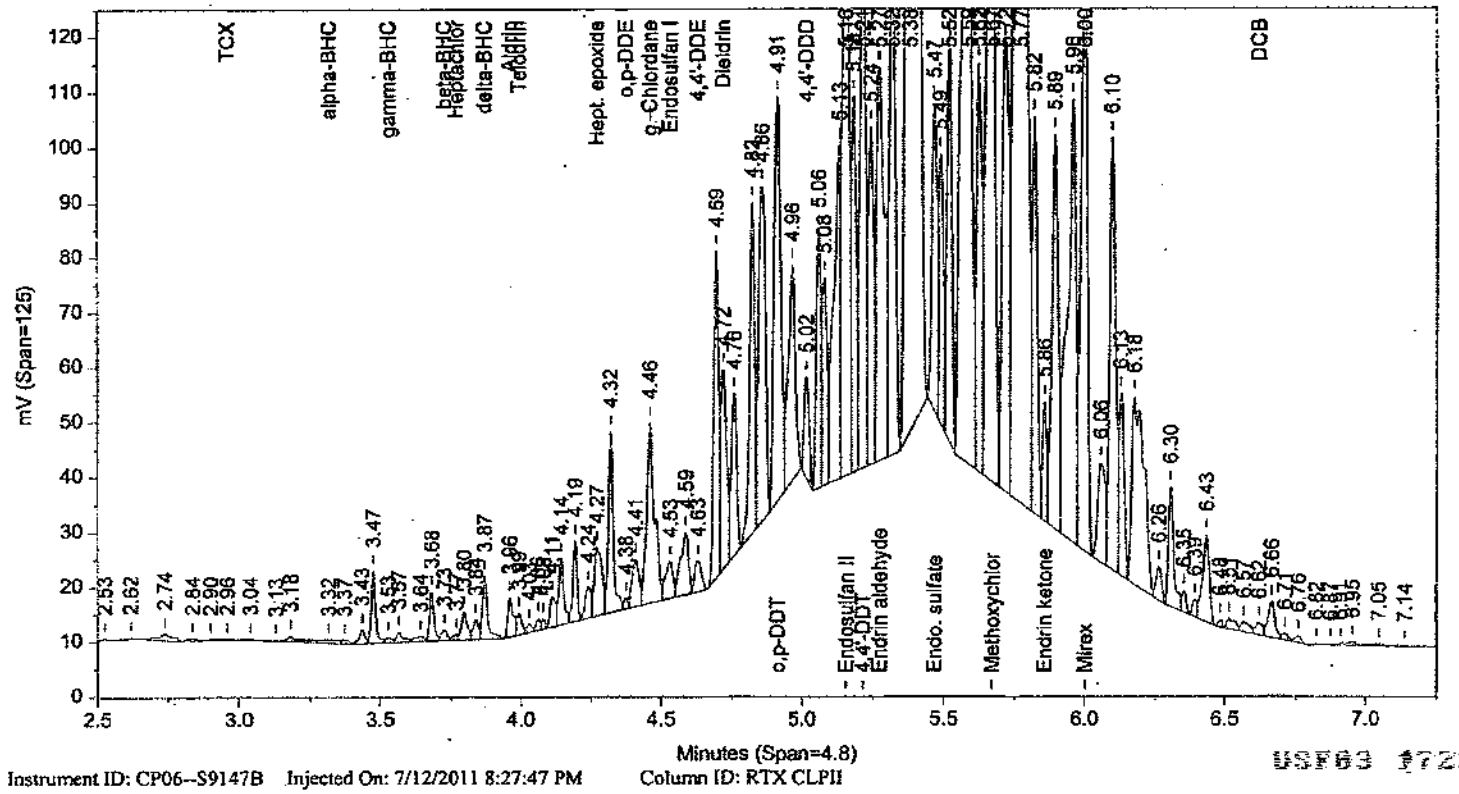

Instrument ID: CP06--S9147B Injected On: 7/12/2011 8:27:47 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMalldrie Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.182	74	.01406	TCX	2.958	100	.01135	TCX
3.476	90	.00908	alpha-BHC	3.315	604	.0416	alpha-BHC
3.694	1163	.13903	gamma-BHC	3.528	921	.07049	gamma-BHC
3.831	298	.10077	beta-BHC	3.726	1979	.3729	beta-BHC
4.039	1903	.28707	Heptachlor	3.768	1070	.11169	Heptachlor
3.989	177	.02636	delta-BHC	3.87	11511	.96651	delta-BHC
4.295	933	.13819	Aldrin	3.96	7205	.83023	Aldrin
4.35	351	.13774	Telodrin	3.993	3854	.50587	Telodrin
4.591	17468	3.19063	Hept. epoxide	4.271	12674	1.48854	Hept. epoxide
4.716	13734	5.29124	o,p-DDE	4.376	2077	.39328	o,p-DDE
4.796	4004	.78961	g. Chlordane	4.461	32974	3.98776	g. Chlordane
4.884	1129	.25764	Endosulfan I	4.531	6838	.91165	Endosulfan I
4.946	5907	1.7455	4,4'-DDE	4.628	5696	2.29398	4,4'-DDE
5.075	12461	2.54103	Dieldrin	4.718	36798	4.62283	Dieldrin
4.853	5311	1.10555	a. Chlordane	.	0	.	a. Chlordane
.	0	.	o,p-DDT	4.912	74131	16.43177	o,p-DDT
5.339	20543	8.84585	4,4'-DDD	5.016	18630	3.41123	4,4'-DDD
5.061	8274	4.10986	o,p-DDD	.	0	.	o,p-DDD
5.439	94519	26.87729	Endosulfan II	5.156	153325	25.69751	Endosulfan II
.	0	.	4,4'-DDT	5.215	100784	18.55417	4,4'-DDT
5.537	6601	2.67065	Endrin aldehyde	5.271	72106	15.56802	Endrin aldehyde
5.696	95261	30.1583	Endo. sulfate	5.467	56107	11.49538	Endo. sulfate
5.476	81043	106.9916	Kepone	.	0	.	Kepone
.	0	.	Methoxychlor	5.67	137697	70.49223	Methoxychlor
6.097	46596	14.69756	Endrin ketone	5.856	21754	3.51963	Endrin ketone
.	0	.	Mirex	6.001	111816	28.43325	Mirex
7.045	1380	1.02622	DCB	6.62	2257	.64285	DCB

Files:
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Area File: C:\CPWIN\DATA1\1P6193B.21A
Method A: C:\CPWIN\DATA1\PESTD1.MET
Method B: C:\CPWIN\DATA1\PESTD1B.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 8:35:24 PM
File Reported On: 7/12/2011 at 8:35:34 PM

USP83 1723

Files:

REPLOTS

TOXA41124A AATOXA4AA ICAL 1119299999
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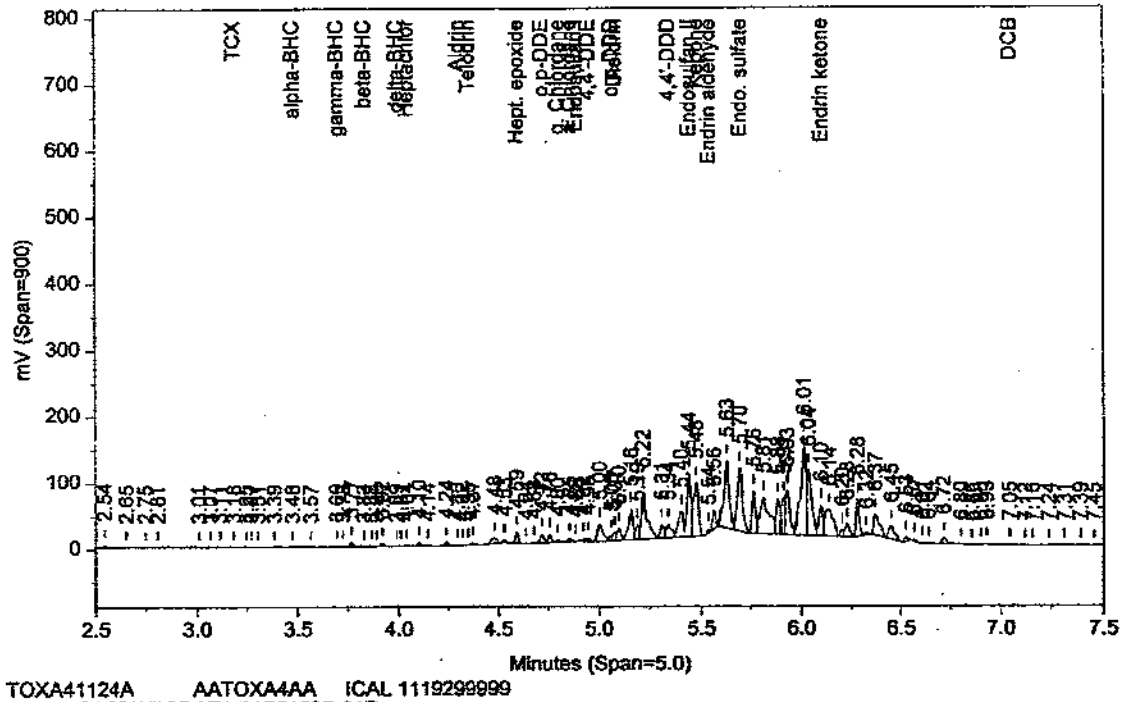

TOXA41124A AATOXA4AA ICAL 1119299999
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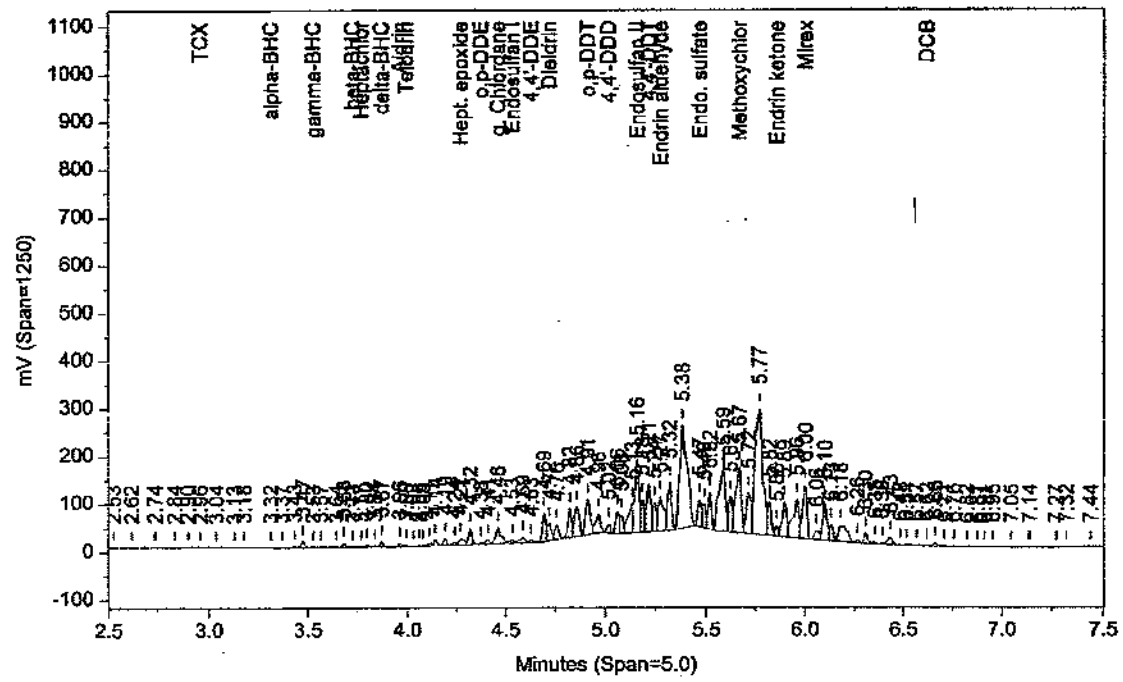


USF03 1724

Sample Name: **TOXA51124A AATOXA5AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 08:47:58pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.22R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.332		0.0000	0.000	734.2	0.013	BB	0.026	466.01	0.013
2	2.385		0.0000	0.000	2418.8	0.043	BV	0.052	775.16	0.022
3	2.468		0.0000	0.000	2122.7	0.037	VV	0.047	745.82	0.021
4	2.544		0.0000	0.000	4774.1	0.084	VV	0.028	2816.68	0.079
5	2.654		0.0000	0.000	624.2	0.011	VV	0.020	532.15	0.015
6	2.676		0.0000	0.000	907.9	0.016	VV	0.031	495.00	0.014
7	2.751		0.0000	0.000	1162.8	0.021	VV	0.067	290.10	0.008
8	2.810		0.0000	0.000	1028.1	0.018	VB	0.044	391.63	0.011
9	2.929		0.0000	0.000	840.2	0.015	BB	0.157	89.11	0.003
10	3.033		0.0000	0.000	175.9	0.003	BB	0.014	208.70	0.006
11	3.065		0.0000	0.000	113.2	0.002	BB	0.015	126.80	0.004
12	3.109		0.0000	0.000	329.3	0.006	BB	0.038	145.41	0.004
13	3.183	TCX	0.0202	0.004	157.8	0.003	BB	0.025	106.09	0.003
14	3.248		0.0000	0.000	109.2	0.002	BB	0.014	132.19	0.004
15	3.270		0.0000	0.000	327.4	0.006	BB	0.014	397.99	0.011
16	3.354		0.0000	0.000	96.1	0.002	BB	0.020	80.29	0.002
17	3.390		0.0000	0.000	167.4	0.003	BB	0.023	120.56	0.003
18	3.478	alpha-BHC	0.0124	0.003	291.6	0.005	BB	0.040	122.18	0.003
19	3.565		0.0000	0.000	113.6	0.002	BB	0.021	89.72	0.003
20	3.630		0.0000	0.000	284.5	0.005	BB	0.031	152.27	0.004
21	3.694	gamma-BHC	0.2851	0.063	2352.0	0.042	BB	0.016	2384.06	0.067
22	3.726		0.0000	0.000	497.7	0.009	BB	0.013	634.67	0.018
23	3.768		0.0000	0.000	14977.0	0.264	BB	0.016	16015.36	0.452
24	3.831	beta-BHC	0.2139	0.047	612.9	0.011	BB	0.016	633.24	0.018
25	3.866		0.0000	0.000	240.1	0.004	BB	0.015	272.38	0.008
26	3.892		0.0000	0.000	81.9	0.001	BB	0.013	108.80	0.003
27	3.919		0.0000	0.000	9804.2	0.173	BB	0.017	9724.16	0.274
28	3.989	delta-BHC	0.0550	0.012	409.2	0.007	BB	0.018	369.93	0.010
29	4.011		0.0000	0.000	230.2	0.004	BB	0.011	339.92	0.010
30	4.039	Heptachlor	0.4781	0.105	4221.8	0.075	BB	0.022	3170.08	0.089
31	4.102		0.0000	0.000	12306.1	0.217	BB	0.018	11646.01	0.328
32	4.145		0.0000	0.000	3103.6	0.055	BB	0.023	2214.17	0.062
33	4.238		0.0000	0.000	15060.4	0.266	BB	0.022	11478.02	0.324
34	4.294	Aldrin	0.2182	0.048	1373.9	0.024	BB	0.016	1473.73	0.042
35	4.322		0.0000	0.000	828.1	0.015	BB	0.013	1048.67	0.030
36	4.350	Telodrin	0.1359	0.030	443.4	0.008	BB	0.021	345.88	0.010
37	4.373		0.0000	0.000	8369.8	0.148	BB	0.021	6575.45	0.185
38	4.483		0.0000	0.000	38165.9	0.674	BB	0.035	17979.78	0.507
39	4.529		0.0000	0.000	10588.1	0.187	BB	0.019	9443.58	0.266
40	4.591	Hept. epoxide	6.6136	1.454	40133.6	0.709	BB	0.018	36207.20	1.021
41	4.636		0.0000	0.000	662.7	0.012	BB	0.011	965.09	0.027
42	4.677		0.0000	0.000	6228.4	0.110	BV	0.021	5054.71	0.143
43	4.716	o,p-DDE	12.2040	2.683	40028.2	0.707	VV	0.021	31677.26	0.893
44	4.756		0.0000	0.000	33220.6	0.587	VB	0.020	28273.84	0.797
45	4.795	g. Chlordane	1.8196	0.400	9302.8	0.164	BV	0.017	9227.64	0.260
46	4.829	a. Chlordane	0.1934	0.043	1137.1	0.020	VV	0.020	929.24	0.026
47	4.853		0.0000	0.000	11974.3	0.211	VB	0.016	12588.35	0.355
48	4.884	Endosulfan I	0.5482	0.121	2237.1	0.039	BV	0.016	2401.78	0.068
49	4.923		0.0000	0.000	16675.9	0.294	VV	0.028	9825.44	0.277
50	4.947	4,4'-DDE	4.0123	0.882	15556.2	0.275	VB	0.019	13578.22	0.383
51	5.001		0.0000	0.000	118480.7	2.092	BV	0.031	62835.30	1.772
52	5.061	o,p-DDD	9.4279	2.072	19277.6	0.340	VV	0.017	18980.63	0.535
53	5.075	Dieldrin	5.8304	1.282	29653.0	0.524	VV	0.017	28591.39	0.806
54	5.097		0.0000	0.000	50701.6	0.895	VV	0.019	45053.61	1.270
55	5.157		0.0000	0.000	168234.5	2.970	VV	0.028	100726.50	2.840
56	5.187		0.0000	0.000	60528.5	1.069	VV	0.019	54059.92	1.524
57	5.217		0.0000	0.000	327401.5	5.781	VV	0.034	160246.40	4.518
58	5.308		0.0000	0.000	75175.5	1.327	VV	0.024	51276.16	1.446
59	5.339	4,4'-DDD	21.8718	4.808	91414.4	1.614	VV	0.030	50793.02	1.432
60	5.401		0.0000	0.000	157638.0	2.783	VV	0.030	88253.70	2.488
61	5.439	Endosulfan II	59.4456	13.067	319759.9	5.646	VV	0.025	209052.40	5.894
62	5.476	Kepone	230.7028	50.711	276839.2	4.888	VB	0.026	175638.90	4.952

USF03 1725

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.537	Endrin aldehyde	6.5310	1.436	13425.1	0.237	BB	0.014	16142.68	0.455
64	5.564		0.0000	0.000	64839.6	1.145	BB	0.017	64839.43	1.828
65	5.629		0.0000	0.000	415423.5	7.335	BV	0.032	219712.30	6.195
66	5.697	Endo. sulfate	62.9111	13.829	362855.8	6.407	VB	0.030	203703.00	5.744
67	5.764		0.0000	0.000	175790.7	3.104	BV	0.022	133552.80	3.766
68	5.813		0.0000	0.000	346494.5	6.118	VV	0.051	113190.20	3.192
69	5.884		0.0000	0.000	154486.5	2.728	VV	0.023	111898.10	3.155
70	5.910		0.0000	0.000	131955.4	2.330	VV	0.019	117658.50	3.317
71	5.929		0.0000	0.000	204025.6	3.602	VV	0.025	135736.90	3.827
72	5.992		0.0000	0.000	122305.5	2.160	VV	0.019	106001.50	2.989
73	6.014		0.0000	0.000	415497.2	7.336	VV	0.024	294608.30	8.307
74	6.037		0.0000	0.000	320281.7	5.655	VV	0.027	199833.10	5.634
75	6.097	Endrin ketone	29.4250	6.468	123780.6	2.186	VV	0.022	93286.71	2.630
76	6.138		0.0000	0.000	237732.2	4.198	VV	0.047	83465.04	2.353
77	6.203		0.0000	0.000	26528.6	0.468	VV	0.019	23373.69	0.659
78	6.228		0.0000	0.000	70376.9	1.243	VB	0.026	44496.02	1.255
79	6.282		0.0000	0.000	139244.2	2.459	BB	0.021	113074.30	3.188
80	6.326		0.0000	0.000	11548.7	0.204	BB	0.021	9068.13	0.256
81	6.370		0.0000	0.000	135580.4	2.394	BB	0.035	64276.96	1.812
82	6.453		0.0000	0.000	91911.6	1.623	BB	0.035	43416.73	1.224
83	6.525		0.0000	0.000	18724.3	0.331	BB	0.022	13967.06	0.394
84	6.566		0.0000	0.000	5861.6	0.103	BB	0.013	7311.32	0.206
85	6.607		0.0000	0.000	1037.4	0.018	BB	0.014	1248.73	0.035
86	6.638		0.0000	0.000	5086.6	0.090	BB	0.035	2399.69	0.068
87	6.714		0.0000	0.000	35972.4	0.635	BB	0.032	18935.32	0.534
88	6.801		0.0000	0.000	2476.6	0.044	BB	0.023	1801.90	0.051
89	6.855		0.0000	0.000	639.8	0.011	BB	0.017	644.95	0.018
90	6.899		0.0000	0.000	1605.3	0.028	BB	0.020	1319.40	0.037
91	6.928		0.0000	0.000	4757.7	0.084	BB	0.030	2612.55	0.074
92	7.044	DCB	1.9797	0.435	6904.7	0.122	BB	0.043	2662.87	0.075
93	7.117		0.0000	0.000	256.1	0.005	BB	0.018	231.74	0.007
94	7.156		0.0000	0.000	213.6	0.004	BB	0.019	192.24	0.005
95	7.235		0.0000	0.000	1164.6	0.021	BB	0.033	591.90	0.017
96	7.311		0.0000	0.000	686.8	0.012	BB	0.037	310.17	0.009
97	7.389		0.0000	0.000	1275.4	0.023	BB	0.039	543.82	0.015
98	7.452		0.0000	0.000	139.8	0.002	BB	0.019	124.87	0.004

Total Area = 5663593.0, Total Amount = 454.935, Total Height = 3546611.0, Sample Units = PPB

USF03 1726

Sample Name: **TOXA51124A AATOXA5AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 08:47:58pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.22R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.002		0.0000	0.000	97.3	0.001	BB	0.007	227.40	0.004
2	2.046		0.0000	0.000	1337.1	0.013	BV	0.028	809.20	0.013
3	2.100		0.0000	0.000	2722.4	0.026	VV	0.054	843.93	0.014
4	2.142		0.0000	0.000	3032.4	0.029	VV	0.058	877.31	0.015
5	2.204		0.0000	0.000	5980.4	0.058	VV	0.035	2857.14	0.048
6	2.309		0.0000	0.000	2176.6	0.021	VV	0.040	906.22	0.015
7	2.331		0.0000	0.000	3704.9	0.036	VV	0.054	1152.87	0.019
8	2.472		0.0000	0.000	568.6	0.006	VV	0.044	217.08	0.004
9	2.527		0.0000	0.000	578.1	0.006	VB	0.020	489.87	0.008
10	2.618		0.0000	0.000	373.2	0.004	BB	0.022	277.57	0.005
11	2.707		0.0000	0.000	138.9	0.001	BB	0.032	73.47	0.001
12	2.738		0.0000	0.000	1744.7	0.017	BB	0.042	698.48	0.012
13	2.842		0.0000	0.000	1197.1	0.012	BB	0.042	476.92	0.008
14	2.899		0.0000	0.000	1418.1	0.014	BB	0.061	390.30	0.006
15	2.959	TCX	0.0211	0.006	198.9	0.002	BB	0.018	185.33	0.003
16	3.053		0.0000	0.000	169.7	0.002	BB	0.017	168.98	0.003
17	3.117		0.0000	0.000	335.2	0.003	BB	0.013	417.26	0.007
18	3.178		0.0000	0.000	2381.3	0.023	BV	0.054	731.54	0.012
19	3.316	alpha-BHC	0.0320	0.009	1547.8	0.015	VV	0.056	463.78	0.008
20	3.371		0.0000	0.000	884.6	0.009	VB	0.026	557.46	0.009
21	3.435		0.0000	0.000	4701.3	0.046	BV	0.020	3851.05	0.064
22	3.475		0.0000	0.000	26045.6	0.253	VV	0.017	25313.57	0.421
23	3.529	gamma-BHC	0.0653	0.019	1150.9	0.011	VV	0.022	854.17	0.014
24	3.566		0.0000	0.000	3208.1	0.031	VV	0.021	2503.83	0.042
25	3.646		0.0000	0.000	1566.3	0.015	VV	0.037	712.85	0.012
26	3.681		0.0000	0.000	15331.7	0.149	VV	0.017	15103.82	0.251
27	3.726	beta-BHC	0.4581	0.131	3105.9	0.030	VV	0.021	2431.46	0.040
28	3.769	Heptachlor	0.1228	0.035	1357.3	0.013	VV	0.019	1176.14	0.020
29	3.796		0.0000	0.000	12178.4	0.118	VV	0.024	8380.04	0.139
30	3.839		0.0000	0.000	7885.5	0.076	VV	0.022	5856.08	0.097
31	3.870	delta-BHC	1.6659	0.477	23908.7	0.232	VB	0.020	19840.76	0.330
32	3.961	Aldrin	1.5326	0.439	17962.9	0.174	BV	0.023	13299.47	0.221
33	3.993	Telodrin	0.7928	0.227	7520.9	0.073	VV	0.021	6040.12	0.100
34	4.030		0.0000	0.000	2784.5	0.027	VV	0.021	2189.49	0.036
35	4.064		0.0000	0.000	7163.7	0.069	VV	0.026	4522.17	0.075
36	4.110		0.0000	0.000	11988.9	0.116	VV	0.022	9097.81	0.151
37	4.142		0.0000	0.000	29924.7	0.290	VV	0.021	23604.10	0.393
38	4.192		0.0000	0.000	28873.4	0.280	VV	0.018	26513.34	0.441
39	4.239		0.0000	0.000	15912.1	0.154	VV	0.026	10088.11	0.168
40	4.271	Hept. epoxide	2.7335	0.783	44663.5	0.433	VV	0.032	23273.59	0.387
41	4.321		0.0000	0.000	76867.7	0.745	VV	0.021	62281.88	1.036
42	4.375	o,p-DDE	0.5954	0.170	3038.2	0.029	VV	0.016	3144.59	0.052
43	4.411		0.0000	0.000	26056.0	0.253	VV	0.028	15312.97	0.255
44	4.461	g. Chlordane	7.6953	2.203	125727.7	1.219	VV	0.033	63630.93	1.058
45	4.531	Endosulfan I	1.6845	0.482	22523.8	0.218	VV	0.030	12635.12	0.210
46	4.586		0.0000	0.000	43281.5	0.420	VV	0.032	22265.09	0.370
47	4.620	4,4'-DDE	3.7846	1.084	29222.8	0.283	VB	0.028	17449.17	0.290
48	4.693		0.0000	0.000	156159.4	1.514	BV	0.021	121984.70	2.029
49	4.718	Dieldrin	9.3810	2.686	102056.3	0.990	VV	0.023	74673.45	1.242
50	4.758		0.0000	0.000	85255.5	0.827	VV	0.023	61828.32	1.028
51	4.822		0.0000	0.000	165451.6	1.604	VV	0.023	121581.20	2.022
52	4.855		0.0000	0.000	211137.2	2.047	VB	0.028	127852.30	2.126
53	4.912	o,p-DDT	32.5518	9.320	253348.8	2.457	BV	0.029	146855.40	2.442
54	4.965		0.0000	0.000	140461.4	1.362	VB	0.029	80060.86	1.331
55	5.017	4,4'-DDD	6.9445	1.988	45346.2	0.440	BB	0.020	37926.96	0.631
56	5.060		0.0000	0.000	120655.5	1.170	BV	0.021	97610.54	1.623
57	5.079		0.0000	0.000	96480.9	0.935	VV	0.019	84094.82	1.398
58	5.134		0.0000	0.000	213581.8	2.071	VV	0.030	119929.80	1.994
59	5.156	Endosulfan II	49.9899	14.313	422739.3	4.099	VV	0.024	298266.70	4.960
60	5.183		0.0000	0.000	156868.4	1.521	VV	0.018	141340.80	2.350
61	5.215	4,4'-DDT	36.2518	10.380	301655.7	2.925	VV	0.026	196915.10	3.275
62	5.243		0.0000	0.000	143037.7	1.387	VV	0.019	123227.90	2.049

USF03 1727

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.271	Endrin aldehyde	31.2048	8.935	227139.1	2.202	VV	0.026	144531.30	2.403
64	5.318		0.0000	0.000	325033.6	3.152	VB	0.028	194343.30	3.232
65	5.381		0.0000	0.000	1146570.0	11.117	BB	0.043	442996.80	7.367
66	5.467	Endo. sulfate	22.9417	6.569	155996.8	1.513	BV	0.023	111974.60	1.862
67	5.490		0.0000	0.000	110783.4	1.074	VV	0.018	102621.30	1.707
68	5.520		0.0000	0.000	171634.0	1.664	VB	0.019	151918.10	2.526
69	5.587		0.0000	0.000	618588.1	5.998	BV	0.041	252038.20	4.191
70	5.625	Methoxychlor	75.5238	21.624	186968.8	1.813	VV	0.021	147525.20	2.453
71	5.670		0.0000	0.000	562070.0	5.450	VV	0.033	281676.90	4.684
72	5.717		0.0000	0.000	296016.8	2.870	VV	0.029	167821.10	2.791
73	5.770		0.0000	0.000	1321029.0	12.809	VV	0.044	494922.80	8.230
74	5.821		0.0000	0.000	158829.8	1.540	VV	0.018	143257.90	2.382
75	5.856	Endrin ketone	7.0454	2.017	49536.5	0.480	VV	0.019	43545.82	0.724
76	5.894		0.0000	0.000	226534.1	2.197	VV	0.026	143567.70	2.387
77	5.959		0.0000	0.000	362575.3	3.516	VV	0.037	162426.60	2.701
78	6.001	Mirex	55.0231	15.754	320531.4	3.108	VV	0.025	216383.30	3.598
79	6.057		0.0000	0.000	68722.2	0.666	VV	0.031	36593.69	0.609
80	6.099		0.0000	0.000	252103.5	2.444	VV	0.026	163705.30	2.722
81	6.130		0.0000	0.000	79159.8	0.768	VV	0.019	70186.65	1.167
82	6.177		0.0000	0.000	94424.6	0.916	VV	0.021	75753.89	1.260
83	6.195		0.0000	0.000	125134.3	1.213	VV	0.030	69274.04	1.152
84	6.264		0.0000	0.000	16393.1	0.159	VB	0.022	12680.70	0.211
85	6.305		0.0000	0.000	60554.0	0.587	BV	0.022	45554.74	0.758
86	6.353		0.0000	0.000	7274.9	0.071	VB	0.017	7280.23	0.121
87	6.391		0.0000	0.000	6977.8	0.068	BV	0.018	6307.23	0.105
88	6.434		0.0000	0.000	59114.0	0.573	VB	0.029	34217.01	0.569
89	6.484		0.0000	0.000	2567.7	0.025	BV	0.015	2810.63	0.047
90	6.514		0.0000	0.000	4243.5	0.041	VV	0.019	3799.08	0.063
91	6.533		0.0000	0.000	4285.1	0.042	VV	0.020	3588.74	0.060
92	6.567		0.0000	0.000	8013.8	0.078	VV	0.039	3425.96	0.057
93	6.618	DCB	1.2138	0.348	6584.0	0.064	VV	0.026	4261.61	0.071
94	6.662		0.0000	0.000	22732.8	0.220	VV	0.028	13432.95	0.223
95	6.707		0.0000	0.000	2758.6	0.027	VV	0.021	2238.39	0.037
96	6.755		0.0000	0.000	3920.3	0.038	VB	0.027	2378.81	0.040
97	6.821		0.0000	0.000	643.4	0.006	BV	0.023	464.05	0.008
98	6.852		0.0000	0.000	460.1	0.004	VV	0.018	421.10	0.007
99	6.875		0.0000	0.000	862.5	0.008	VV	0.023	618.40	0.010
100	6.911		0.0000	0.000	1143.4	0.011	VV	0.027	697.52	0.012
101	6.952		0.0000	0.000	2783.3	0.027	VV	0.033	1387.40	0.023
102	6.987		0.0000	0.000	606.6	0.006	VV	0.021	483.59	0.008
103	7.013		0.0000	0.000	586.6	0.006	VV	0.021	461.58	0.008
104	7.043		0.0000	0.000	1433.1	0.014	VV	0.035	688.11	0.011
105	7.099		0.0000	0.000	203.5	0.002	VV	0.020	167.87	0.003
106	7.134		0.0000	0.000	344.8	0.003	VB	0.022	257.46	0.004
107	7.179		0.0000	0.000	122.4	0.001	BB	0.027	75.04	0.001
108	7.267		0.0000	0.000	204.2	0.002	BV	0.032	107.72	0.002
109	7.313		0.0000	0.000	394.7	0.004	VB	0.038	173.53	0.003

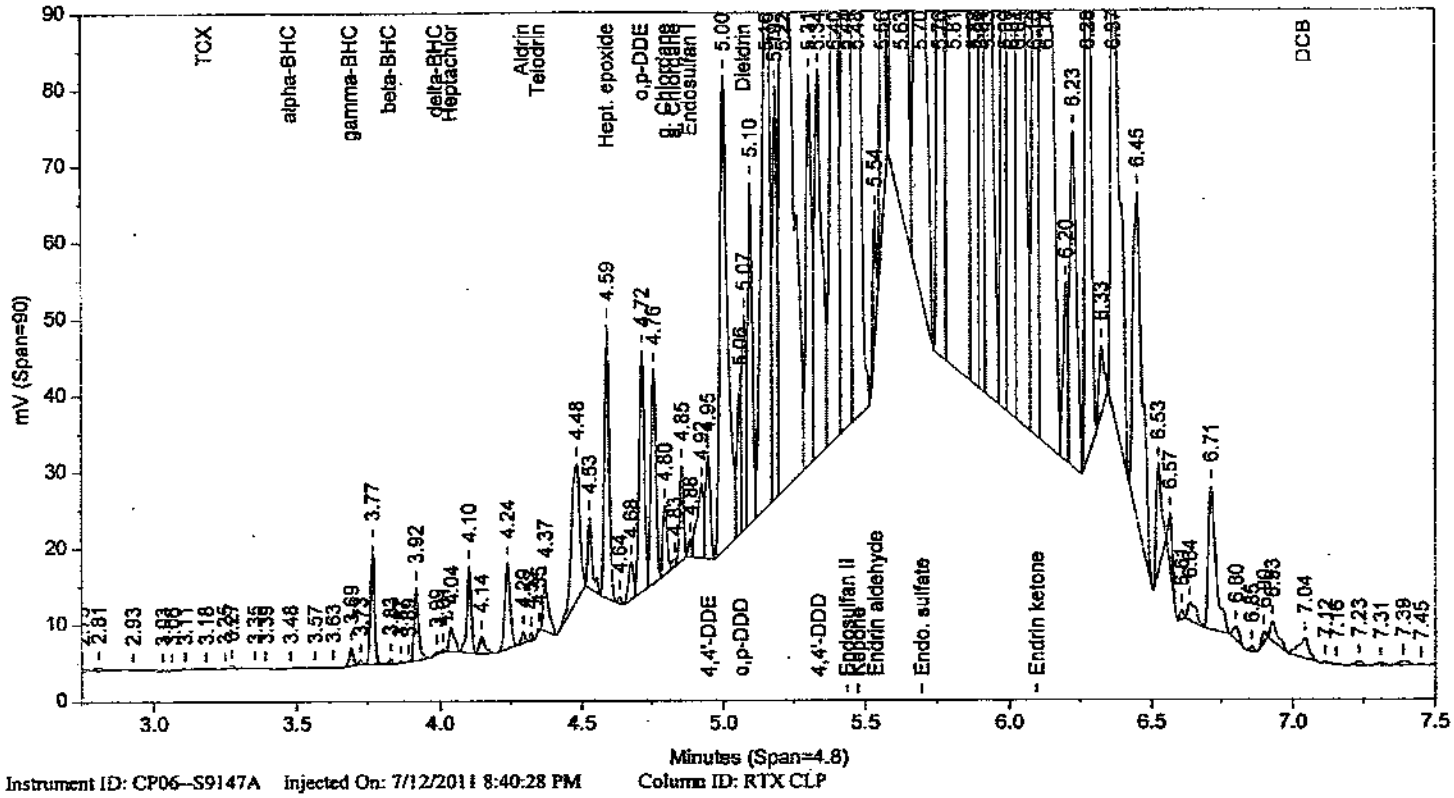
Total Area = 10313360.0, Total Amount = 349.256, Total Height = 6013386.0, Sample Units = PPB

USF03 1720

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.22R

TOXA51124A AATOXA5AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.22R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 8:40:28 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.22R

TOXA51124A AATOXA5AA ICAL 1119299999

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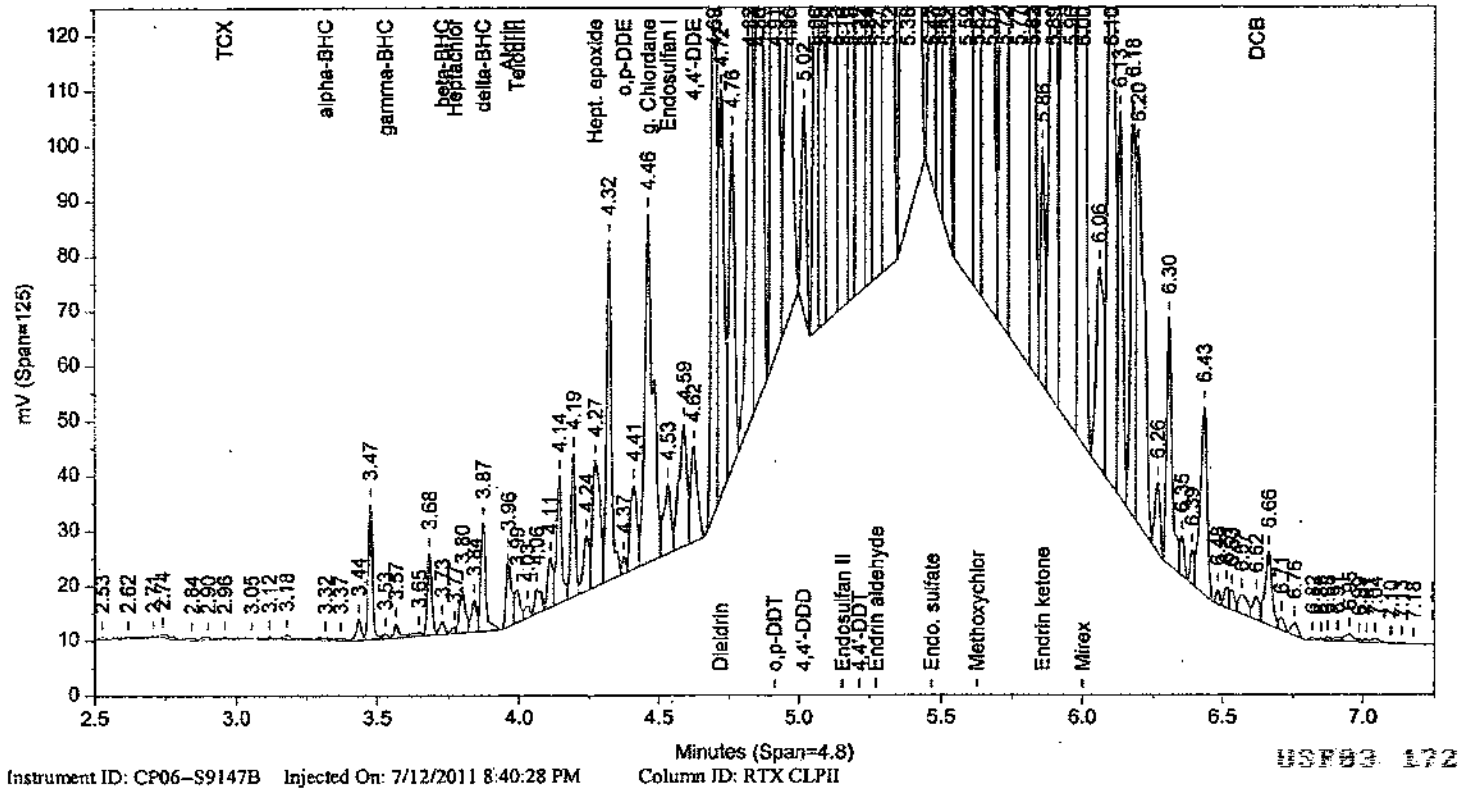

Instrument ID: CP06--S9147B Injected On: 7/12/2011 8:40:28 PM Column ID: RTX CLPII

USF03 1729

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min; Middle Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.183	106	.02019	TCX	2.959	185	.02113	TCX
3.478	122	.01238	alpha-BHC	3.316	464	.03195	alpha-BHC
3.694	2384	.28505	gamma-BHC	3.529	854	.06535	gamma-BHC
3.831	633	.21388	beta-BHC	3.726	2431	.45811	beta-BHC
4.039	3170	.47811	Heptachlor	3.769	1176	.1228	Heptachlor
3.989	370	.05497	delta-BHC	3.87	19841	1.66594	delta-BHC
4.294	1474	.21816	Aldrin	3.961	13299	1.53256	Aldrin
4.35	346	.13589	Telodrin	3.993	6040	.79279	Telodrin
4.591	36207	6.61358	Hept. epoxide	4.271	23274	2.7335	Hept. epoxide
4.716	31677	12.20398	o,p-DDE	4.375	3145	.59543	o,p-DDE
4.795	9228	1.81957	g. Chlordane	4.461	63631	7.69528	g. Chlordane
4.884	2402	.5482	Endosulfan I	4.531	12635	1.68454	Endosulfan I
4.947	13578	4.01233	4,4'-DDE	4.62	17449	3.78463	4,4'-DDE
5.075	28591	5.83045	Dieldrin	4.718	74673	9.38103	Dieldrin
4.829	929	.19344	a. Chlordane	.	0	.	a. Chlordane
.	0	.	o,p-DDT	4.912	146855	32.55177	o,p-DDT
5.339	50793	21.87177	4,4'-DDD	5.017	37927	6.94446	4,4'-DDD
5.061	18981	9.42785	o,p-DDD	.	0	.	o,p-DDD
5.439	209052	59.44556	Endosulfan II	5.156	298267	49.98994	Endosulfan II
.	0	.	4,4'-DDT	5.215	196915	36.25182	4,4'-DDT
5.537	16143	6.53102	Endrin aldehyde	5.271	144531	31.20481	Endrin aldehyde
5.697	203703	62.91108	Endo. sulfate	5.467	111975	22.94165	Endo. sulfate
5.476	175639	230.7028	Kepone	.	0	.	Kepone
.	0	.	Methoxychlor	5.625	147525	75.52377	Methoxychlor
6.097	93287	29.42505	Endrin ketone	5.856	43546	7.04536	Endrin ketone
.	0	.	Mirex	6.001	216383	55.02309	Mirex
7.044	2663	1.9797	DCB	6.618	4262	1.2138	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.22A
Area File: C:\CPWIN\DATA1\1P6193B.22A
Method A: C:\CPWIN\DATA1\PESTD1.MET
Method B: C:\CPWIN\DATA1\PESTD1B.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 8:48:04 PM
File Reported On: 7/12/2011 at 8:48:15 PM

USF03 1738

Files:

REPLOTS

TOXA51124A AATOXA5AA ICAL 1119299999
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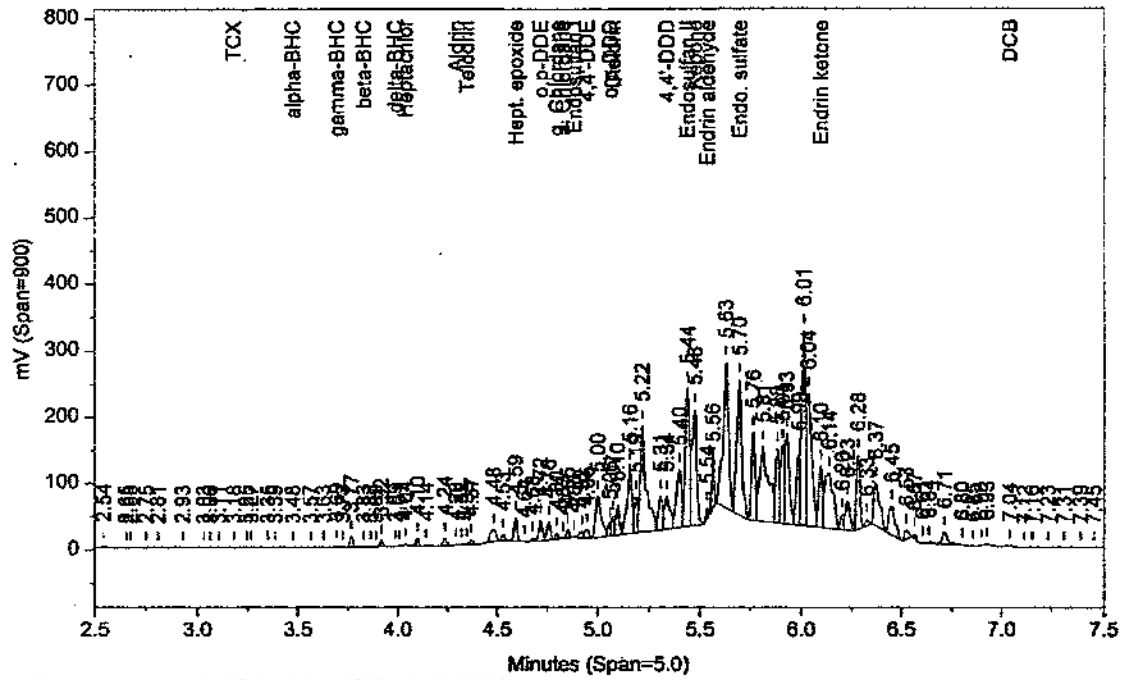

TOXA51124A AATOXA5AA ICAL 1119299999
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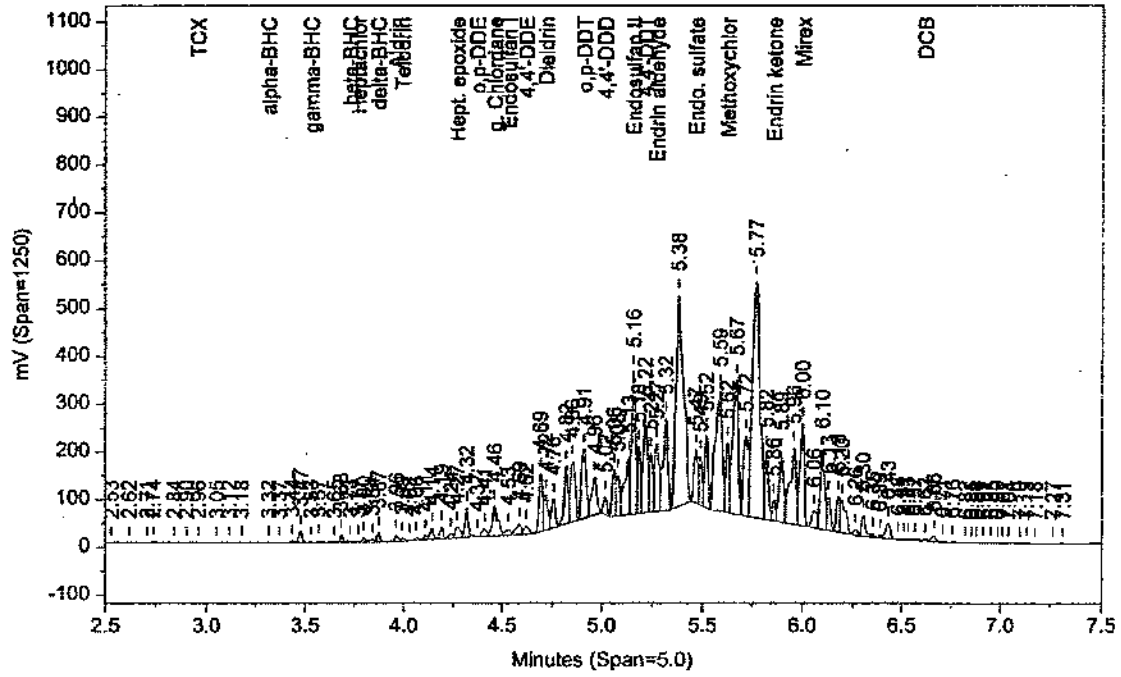


USF83 1731

Sample Name: **ICTXX1124A AAICTXXAA CCAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 09:00:39pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.23R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.326		0.0000	0.000	904.9	0.070	BB	0.030	497.18	0.061
2	2.396		0.0000	0.000	1321.7	0.102	BB	0.072	304.73	0.038
3	2.543		0.0000	0.000	2547.2	0.197	BB	0.021	1993.76	0.246
4	2.674		0.0000	0.000	941.2	0.073	BV	0.066	238.85	0.029
5	2.753		0.0000	0.000	687.5	0.053	VV	0.057	201.47	0.025
6	2.812		0.0000	0.000	818.7	0.063	VB	0.060	225.98	0.028
7	2.916		0.0000	0.000	34.8	0.003	BB	0.021	27.24	0.003
8	3.062		0.0000	0.000	335.0	0.026	BB	0.015	367.34	0.045
9	3.115		0.0000	0.000	836.4	0.065	BB	0.047	296.29	0.037
10	3.182	TCX	0.0134	0.013	139.1	0.011	BB	0.033	70.59	0.009
11	3.270		0.0000	0.000	253.0	0.020	BB	0.026	161.33	0.020
12	3.477	alpha-BHC	0.0078	0.007	294.4	0.023	BB	0.064	77.15	0.010
13	3.564		0.0000	0.000	144.1	0.011	BB	0.037	65.42	0.008
14	3.626		0.0000	0.000	125.8	0.010	BB	0.031	67.78	0.008
15	3.693	gamma-BHC	0.0678	0.064	662.0	0.051	BB	0.019	566.85	0.070
16	3.767		0.0000	0.000	4044.2	0.312	BB	0.016	4217.02	0.520
17	3.830	beta-BHC	0.0647	0.061	173.8	0.013	BB	0.015	191.46	0.024
18	3.867		0.0000	0.000	81.8	0.006	BB	0.017	79.91	0.010
19	3.918		0.0000	0.000	2782.3	0.215	BB	0.017	2796.63	0.345
20	3.989	delta-BHC	0.0169	0.016	114.3	0.009	BB	0.017	113.42	0.014
21	4.039		0.0000	0.000	1253.2	0.097	BB	0.021	983.92	0.121
22	4.101		0.0000	0.000	3063.3	0.237	BB	0.017	2948.44	0.363
23	4.144		0.0000	0.000	1010.0	0.078	BB	0.023	723.80	0.089
24	4.238		0.0000	0.000	4502.8	0.348	BB	0.023	3273.99	0.404
25	4.294	Aldrin	0.0894	0.084	544.2	0.042	BB	0.015	603.81	0.074
26	4.322		0.0000	0.000	203.9	0.016	BB	0.012	278.71	0.034
27	4.348	Telodrin	0.1258	0.118	229.8	0.018	BB	0.012	320.07	0.039
28	4.373		0.0000	0.000	2970.1	0.229	BB	0.023	2130.94	0.263
29	4.483		0.0000	0.000	9203.6	0.711	BB	0.039	3918.37	0.483
30	4.529		0.0000	0.000	2400.8	0.185	BB	0.019	2143.94	0.264
31	4.591	Hept. epoxide	1.2209	1.147	7648.6	0.591	BB	0.019	6684.12	0.824
32	4.635		0.0000	0.000	135.1	0.010	BB	0.010	227.73	0.028
33	4.676		0.0000	0.000	1831.0	0.141	BV	0.022	1395.11	0.172
34	4.716	o,p-DDE	2.7824	2.613	9138.6	0.706	VV	0.021	7222.10	0.890
35	4.756		0.0000	0.000	9015.5	0.697	VV	0.021	7046.35	0.868
36	4.795	g. Chlordane	0.4385	0.412	2430.6	0.188	VV	0.018	2223.95	0.274
37	4.825	a. Chlordane	0.0693	0.065	446.3	0.034	VV	0.022	332.93	0.041
38	4.853		0.0000	0.000	2635.5	0.204	VB	0.016	2799.00	0.345
39	4.883	Endosulfan I	0.1241	0.117	417.2	0.032	BV	0.013	543.78	0.067
40	4.923		0.0000	0.000	4349.5	0.336	VV	0.027	2655.35	0.327
41	4.946	4,4'-DDE	0.9043	0.849	3584.4	0.277	VB	0.020	3060.18	0.377
42	5.001		0.0000	0.000	26012.3	2.010	BV	0.033	13274.07	1.636
43	5.075	Dieldrin	1.1884	1.116	10081.8	0.779	VV	0.029	5827.45	0.718
44	5.097		0.0000	0.000	10456.6	0.808	VV	0.019	9406.60	1.159
45	5.157		0.0000	0.000	37149.2	2.870	VV	0.027	22758.99	2.805
46	5.187		0.0000	0.000	13047.2	1.008	VV	0.019	11543.94	1.423
47	5.217		0.0000	0.000	73685.2	5.693	VV	0.033	36709.41	4.524
48	5.307		0.0000	0.000	15547.9	1.201	VV	0.024	10830.22	1.335
49	5.338	4,4'-DDD	4.5552	4.278	19112.6	1.477	VV	0.030	10578.47	1.304
50	5.401		0.0000	0.000	33775.0	2.609	VV	0.029	19603.61	2.416
51	5.439	Endosulfan II	13.8759	13.032	73460.7	5.676	VV	0.025	48797.46	6.014
52	5.476	Kepone	56.6271	53.183	67711.0	5.231	VB	0.027	42531.38	5.242
53	5.537	Endrin aldehyde	1.0632	0.999	2371.0	0.183	BB	0.015	2627.98	0.324
54	5.565		0.0000	0.000	15295.3	1.182	BB	0.016	15653.83	1.929
55	5.629		0.0000	0.000	99644.3	7.698	BV	0.031	54050.28	6.662
56	5.695	Endo. sulfate	16.1975	15.212	87571.8	6.766	VB	0.030	49037.38	6.044
57	5.764		0.0000	0.000	39585.4	3.058	BV	0.021	31036.61	3.825
58	5.812		0.0000	0.000	76618.4	5.919	VV	0.050	25601.86	3.155
59	5.883		0.0000	0.000	30870.0	2.385	VV	0.020	25263.54	3.114
60	5.909		0.0000	0.000	34148.7	2.638	VV	0.021	27017.51	3.330
61	5.929		0.0000	0.000	47617.6	3.679	VV	0.025	31699.92	3.907
62	5.991		0.0000	0.000	26806.0	2.071	VV	0.019	24139.69	2.975

USP63 1732

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	6.013		0.0000	0.000	98428.8	7.605	VV	0.024	68750.83	8.474
64	6.036		0.0000	0.000	75998.5	5.872	VV	0.027	47780.25	5.889
65	6.097	Endrin ketone	6.6739	6.268	27989.5	2.162	VV	0.022	21158.43	2.608
66	6.125		0.0000	0.000	51162.1	3.953	VV	0.046	18397.72	2.268
67	6.202		0.0000	0.000	5051.0	0.390	VV	0.019	4414.69	0.544
68	6.227		0.0000	0.000	13733.0	1.061	VB	0.026	8684.92	1.070
69	6.281		0.0000	0.000	31435.2	2.429	BB	0.020	25953.37	3.199
70	6.324		0.0000	0.000	2293.4	0.177	BB	0.021	1810.21	0.223
71	6.370		0.0000	0.000	28360.0	2.191	BB	0.036	13174.05	1.624
72	6.450		0.0000	0.000	17932.9	1.385	BB	0.037	8157.46	1.005
73	6.524		0.0000	0.000	3665.4	0.283	BB	0.021	2867.47	0.353
74	6.565		0.0000	0.000	1266.7	0.098	BB	0.014	1494.37	0.184
75	6.607		0.0000	0.000	212.0	0.016	BB	0.012	290.04	0.036
76	6.638		0.0000	0.000	231.4	0.018	BB	0.014	279.35	0.034
77	6.715		0.0000	0.000	7982.9	0.617	BB	0.034	3900.70	0.481
78	6.802		0.0000	0.000	487.6	0.038	BB	0.021	395.79	0.049
79	6.855		0.0000	0.000	141.3	0.011	BB	0.017	135.00	0.017
80	6.900		0.0000	0.000	287.5	0.022	BB	0.019	249.22	0.031
81	6.928		0.0000	0.000	931.1	0.072	BB	0.028	559.58	0.069
82	7.043	DCB	0.3691	0.347	1244.8	0.096	BB	0.042	496.53	0.061
83	7.156		0.0000	0.000	61.5	0.005	BB	0.023	45.48	0.006
84	7.235		0.0000	0.000	194.1	0.015	BB	0.029	113.12	0.014
85	7.310		0.0000	0.000	155.9	0.012	BB	0.036	71.84	0.009
86	7.393		0.0000	0.000	274.6	0.021	BB	0.042	110.12	0.014

Total Area = 1294345.0, Total Amount = 106.476, Total Height = 811357.9, Sample Units = PPB

USF03 1733

Sample Name: **ICTXX1124A AAICTXXAA CCAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 09:00:39pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.23R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.046		0.0000	0.000	1709.3	0.071	BV	0.027	1048.12	0.076
2	2.109		0.0000	0.000	3426.2	0.143	VV	0.062	925.26	0.067
3	2.165		0.0000	0.000	2899.0	0.121	VV	0.060	809.42	0.058
4	2.204		0.0000	0.000	4520.2	0.188	VV	0.031	2426.15	0.175
5	2.298		0.0000	0.000	950.5	0.040	VV	0.040	393.48	0.028
6	2.332		0.0000	0.000	555.8	0.023	VB	0.029	321.03	0.023
7	2.481		0.0000	0.000	924.7	0.038	BV	0.040	387.14	0.028
8	2.526		0.0000	0.000	1192.4	0.050	VV	0.050	397.33	0.029
9	2.662		0.0000	0.000	1942.5	0.081	VB	0.096	337.71	0.024
10	2.737		0.0000	0.000	3924.3	0.163	BB	0.052	1252.96	0.091
11	2.834		0.0000	0.000	794.7	0.033	BB	0.038	349.02	0.025
12	2.915		0.0000	0.000	527.0	0.022	BB	0.058	151.15	0.011
13	3.039		0.0000	0.000	477.0	0.020	BB	0.091	87.76	0.006
14	3.179		0.0000	0.000	2881.5	0.120	BV	0.065	734.64	0.053
15	3.301	alpha-BHC	0.0095	0.010	407.7	0.017	VB	0.049	138.59	0.010
16	3.435		0.0000	0.000	2318.6	0.096	BV	0.026	1460.59	0.106
17	3.474		0.0000	0.000	8344.7	0.347	VV	0.019	7142.38	0.516
18	3.527	gamma-BHC	0.0522	0.053	1113.0	0.046	VV	0.027	682.37	0.049
19	3.565		0.0000	0.000	2003.1	0.083	VV	0.031	1088.49	0.079
20	3.643		0.0000	0.000	1879.1	0.078	VV	0.044	718.50	0.052
21	3.681		0.0000	0.000	5336.4	0.222	VV	0.018	4876.21	0.352
22	3.726	beta-BHC	0.2511	0.255	2005.1	0.083	VV	0.025	1332.73	0.096
23	3.766	Heptachlor	0.0742	0.075	930.4	0.039	VV	0.022	710.39	0.051
24	3.796		0.0000	0.000	4594.2	0.191	VV	0.027	2884.32	0.208
25	3.838		0.0000	0.000	3087.2	0.128	VV	0.023	2205.58	0.159
26	3.870	delta-BHC	0.4615	0.469	7440.0	0.310	VB	0.023	5495.72	0.397
27	3.961	Aldrin	0.4349	0.442	5599.0	0.233	BV	0.025	3773.68	0.273
28	3.993	Telodrin	0.2779	0.282	2730.0	0.114	VV	0.021	2117.08	0.153
29	4.030		0.0000	0.000	1043.6	0.043	VV	0.024	734.57	0.053
30	4.063		0.0000	0.000	3170.4	0.132	VV	0.028	1882.94	0.136
31	4.109		0.0000	0.000	5078.4	0.211	VV	0.027	3170.02	0.229
32	4.142		0.0000	0.000	8132.5	0.338	VV	0.021	6318.91	0.457
33	4.192		0.0000	0.000	7897.1	0.329	VV	0.018	7136.36	0.516
34	4.241		0.0000	0.000	5052.6	0.210	VV	0.027	3158.11	0.228
35	4.270	Hept. epoxide	0.7303	0.742	12740.5	0.530	VV	0.034	6217.96	0.449
36	4.321		0.0000	0.000	18204.5	0.758	VV	0.022	13862.67	1.002
37	4.374	o,p-DDE	0.1695	0.172	772.1	0.032	VV	0.014	895.16	0.065
38	4.413		0.0000	0.000	8057.9	0.335	VV	0.028	4739.48	0.342
39	4.461	g. Chlordane	2.1151	2.149	35105.4	1.461	VV	0.033	17489.03	1.264
40	4.531	Endosulfan I	0.4923	0.500	7250.5	0.302	VV	0.033	3692.75	0.267
41	4.586		0.0000	0.000	11234.4	0.468	VV	0.032	5843.19	0.422
42	4.620	4,4'-DDE	2.3057	2.342	9655.1	0.402	VB	0.028	5788.15	0.418
43	4.693		0.0000	0.000	36657.2	1.526	BV	0.022	27921.74	2.018
44	4.718	Dieldrin	2.1467	2.181	24665.9	1.027	VV	0.024	17088.19	1.235
45	4.758		0.0000	0.000	19364.7	0.806	VV	0.023	13945.49	1.008
46	4.823		0.0000	0.000	37580.4	1.564	VV	0.023	27540.61	1.990
47	4.857		0.0000	0.000	48139.5	2.004	VV	0.029	27834.78	2.011
48	4.911	o,p-DDT	7.7277	7.851	57143.5	2.378	VV	0.027	34862.92	2.519
49	4.965		0.0000	0.000	31596.2	1.315	VB	0.030	17734.41	1.281
50	5.017	4,4'-DDD	1.5392	1.564	9953.0	0.414	BB	0.020	8406.31	0.607
51	5.060		0.0000	0.000	25576.3	1.064	BV	0.020	20831.04	1.505
52	5.080		0.0000	0.000	21244.2	0.884	VV	0.019	18319.60	1.324
53	5.134		0.0000	0.000	54550.8	2.270	VV	0.032	28377.65	2.051
54	5.156	Endosulfan II	11.6425	11.828	90305.6	3.758	VV	0.022	69465.35	5.020
55	5.182		0.0000	0.000	35191.1	1.465	VV	0.018	32042.73	2.315
56	5.215	4,4'-DDT	8.3858	8.519	69452.9	2.891	VV	0.025	45550.54	3.291
57	5.243		0.0000	0.000	32065.6	1.335	VV	0.019	27644.65	1.998
58	5.271	Endrin aldehyde	7.0647	7.177	50999.7	2.123	VV	0.026	32721.65	2.364
59	5.318		0.0000	0.000	74515.0	3.101	VB	0.027	46128.16	3.333
60	5.380		0.0000	0.000	263343.7	10.960	BB	0.041	105797.70	7.645
61	5.467	Endo. sulfate	5.0481	5.128	33552.2	1.396	BV	0.023	24639.21	1.780
62	5.488		0.0000	0.000	23956.7	0.997	VV	0.019	21445.21	1.550

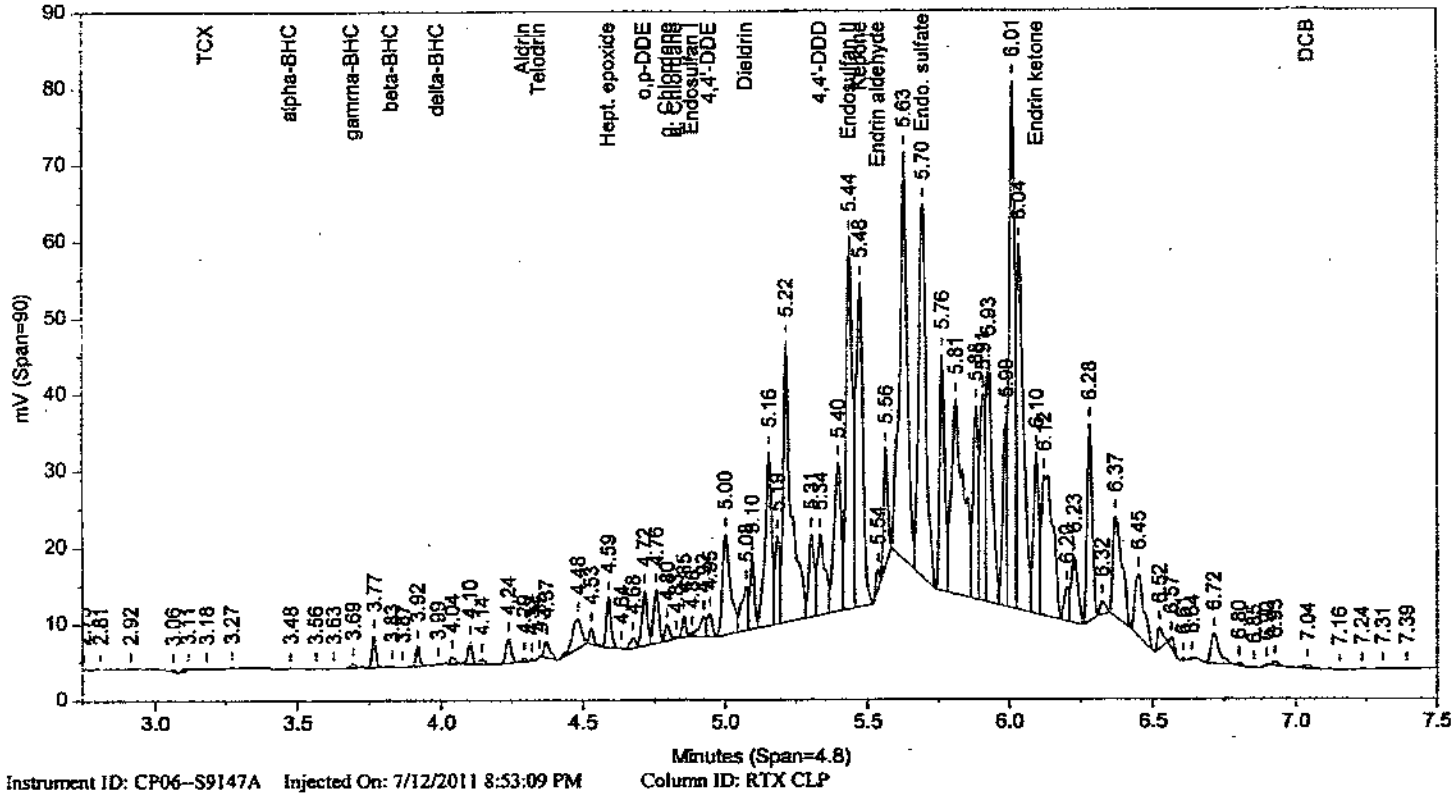
USF03 1734

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.519		0.0000	0.000	36976.4	1.539	VB	0.019	33035.91	2.387
64	5.587		0.0000	0.000	138823.8	5.778	BV	0.040	57694.80	4.169
65	5.624		0.0000	0.000	42391.5	1.764	VV	0.021	33523.09	2.422
66	5.670	Methoxychlor	32.7089	33.229	124498.6	5.182	VV	0.032	63892.32	4.617
67	5.716		0.0000	0.000	65659.6	2.733	VV	0.030	36439.68	2.633
68	5.769		0.0000	0.000	312240.4	12.995	VV	0.043	121054.00	8.747
69	5.821		0.0000	0.000	36912.9	1.536	VV	0.019	32278.83	2.332
70	5.857	Endrin ketone	1.5063	1.530	9976.5	0.415	VV	0.018	9309.83	0.673
71	5.895		0.0000	0.000	51652.6	2.150	VV	0.028	31255.70	2.259
72	5.959		0.0000	0.000	78657.7	3.274	VV	0.036	36339.06	2.626
73	6.000	Mirex	13.0063	13.213	76743.4	3.194	VB	0.025	51148.38	3.696
74	6.056		0.0000	0.000	15650.8	0.651	BV	0.033	7881.02	0.569
75	6.099		0.0000	0.000	54145.9	2.253	VV	0.026	34243.32	2.474
76	6.129		0.0000	0.000	17926.5	0.746	VV	0.019	15603.63	1.128
77	6.177		0.0000	0.000	47021.8	1.957	VV	0.050	15766.13	1.139
78	6.264		0.0000	0.000	3718.6	0.155	VB	0.022	2771.56	0.200
79	6.304		0.0000	0.000	12727.3	0.530	BV	0.022	9559.29	0.691
80	6.353		0.0000	0.000	1608.9	0.067	VB	0.016	1689.61	0.122
81	6.391		0.0000	0.000	1574.2	0.066	BV	0.019	1405.91	0.102
82	6.433		0.0000	0.000	12270.8	0.511	VB	0.029	7061.95	0.510
83	6.483		0.0000	0.000	452.3	0.019	BV	0.014	546.84	0.040
84	6.513		0.0000	0.000	810.5	0.034	VV	0.018	754.15	0.054
85	6.533		0.0000	0.000	885.1	0.037	VV	0.020	727.83	0.053
86	6.566		0.0000	0.000	1760.7	0.073	VV	0.037	801.45	0.058
87	6.620	DCB	0.2836	0.288	1877.4	0.078	VV	0.031	995.83	0.072
88	6.663		0.0000	0.000	4266.1	0.178	VV	0.026	2780.09	0.201
89	6.708		0.0000	0.000	689.7	0.029	VV	0.024	477.25	0.034
90	6.755		0.0000	0.000	794.6	0.033	VB	0.026	515.90	0.037
91	6.823		0.0000	0.000	188.2	0.008	BV	0.032	99.57	0.007
92	6.910		0.0000	0.000	269.0	0.011	VV	0.033	136.73	0.010
93	6.950		0.0000	0.000	620.0	0.026	VV	0.034	300.42	0.022
94	7.042		0.0000	0.000	368.6	0.015	VB	0.046	133.66	0.010
95	7.238		0.0000	0.000	223.6	0.009	BV	0.120	30.93	0.002
96	7.312		0.0000	0.000	438.1	0.018	VB	0.057	128.27	0.009
97	7.480		0.0000	0.000	163.2	0.007	BB	0.082	33.25	0.002

Total Area = 2402749.0, Total Amount = 98.434, Total Height = 1383891.0, Sample Units = PPB

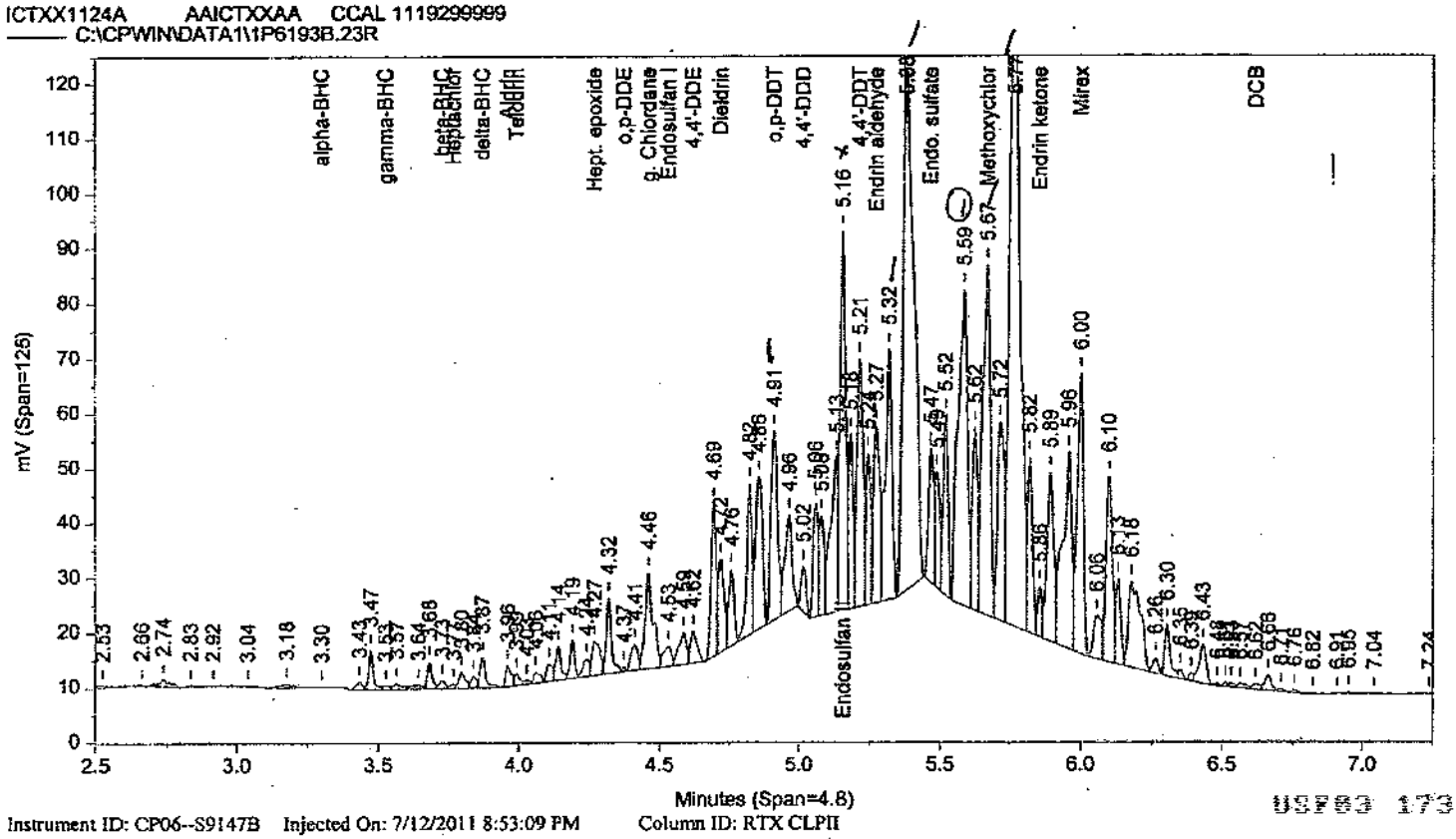
USP83 1735

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.23R
ICTXX1124A AAICTXXAA CCAL 1119299999
C:\CPWIN\DATA1\1P6193.23R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 8:53:09 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.23R
ICTXX1124A AAICTXXAA CCAL 1119299999
C:\CPWIN\DATA1\1P6193B.23R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 8:53:09 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMalldrie Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.182	71	.01343	TCX	.	0	.	TCX
3.477	77	.00781	alpha-BHC	3.301	139	.00955	alpha-BHC
3.693	567	.06778	gamma-BHC	3.527	682	.0522	gamma-BHC
3.83	191	.06467	beta-BHC	3.726	1333	.2511	beta-BHC
.	0	.	Heptachlor	3.766	710	.07417	Heptachlor
3.989	113	.01685	delta-BHC	3.87	5496	.46145	delta-BHC
4.294	604	.08938	Aldrin	3.961	3774	.43486	Aldrin
4.348	320	.12575	Telodrin	3.993	2117	.27788	Telodrin
4.591	6684	1.22092	Hept. epoxide	4.27	6218	.7303	Hept. epoxide
4.716	7222	2.78239	o,p-DDE	4.374	895	.1695	o,p-DDE
4.795	2224	.43853	g. Chlordane	4.461	17489	2.11506	g. Chlordane
4.883	544	.12412	Endosulfan I	4.531	3693	.49233	Endosulfan I
4.946	3060	.90427	4,4'-DDE	4.62	5788	2.30567	4,4'-DDE
5.075	5827	1.18835	Dieldrin	4.718	17088	2.14675	Dieldrin
4.825	333	.0693	a. Chlordane	.	0	.	a. Chlordane
.	0	.	o,p-DDT	4.911	34863	7.72767	o,p-DDT
5.338	10578	4.55515	4,4'-DDD	5.017	8406	1.5392	4,4'-DDD
5.439	48797	13.87591	Endosulfan II	5.156	69465	11.6425	Endosulfan II
.	0	.	4,4'-DDT	5.215	45551	8.38579	4,4'-DDT
5.537	2628	1.06323	Endrin aldehyde	5.271	32722	7.06472	Endrin aldehyde
5.695	49037	16.19755	Endo. sulfate	5.467	24639	5.04814	Endo. sulfate
5.476	42531	56.62706	Kepone	.	0	.	Kepone
.	0	.	Methoxychlor	5.67	63892	32.70892	Methoxychlor
6.097	21158	6.67392	Endrin ketone	5.857	9310	1.50626	Endrin ketone
.	0	.	Mirex	6.	51148	13.00628	Mirex
7.043	497	.36915	DCB	6.62	996	.28363	DCB

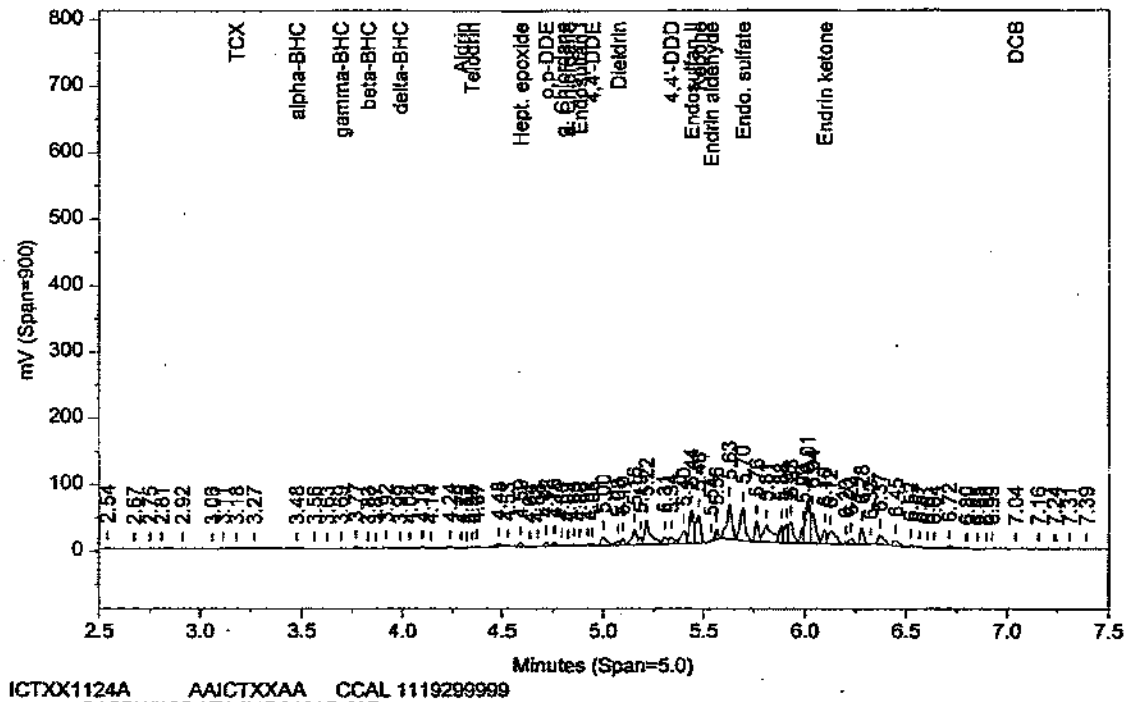
Files:
Area File: C:\CPWIN\DATA1\1P6193.23A
Area File: C:\CPWIN\DATA1\1P6193B.23A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/13/2011 3:13:06 PM
File Reported On: 7/13/2011 at 3:13:15 PM

USP83 1737

Files:

REPLOTS

ICTXX1124A AAICTXXAA CCAL 1119299999
C:\CPWIN\DATA1\1P6193.23R



ICTXX1124A AAICTXXAA CCAL 1119299999
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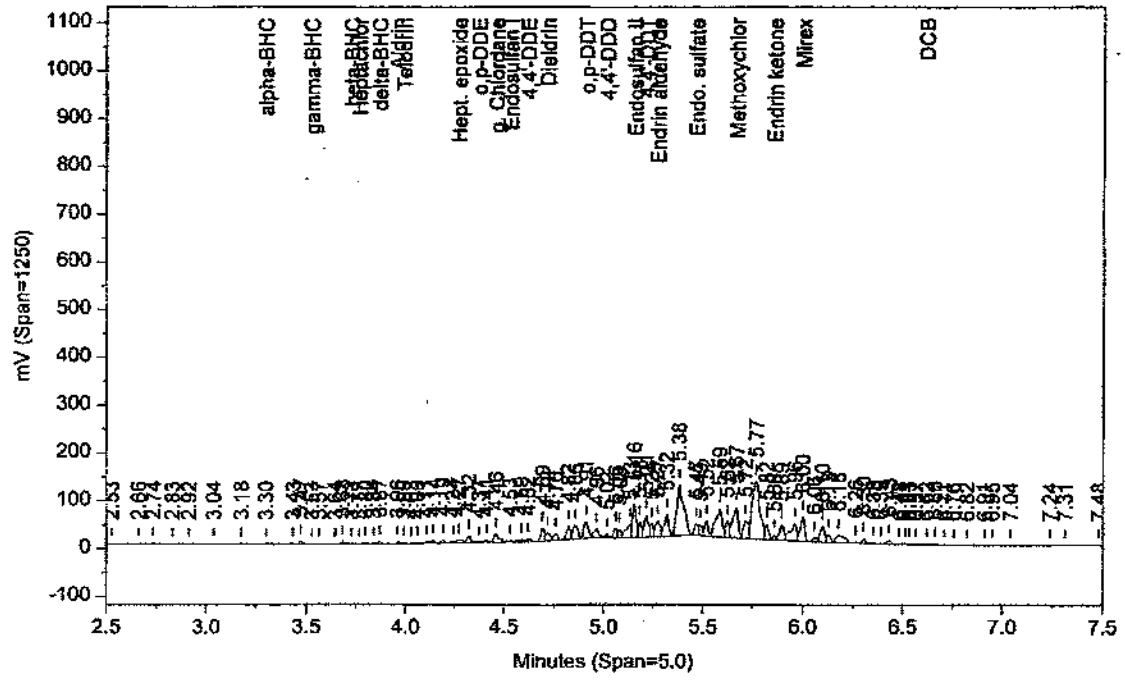

USF03 1738

Sample Name: **CHLD11124A AACHLD1AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 09:13:14pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.24R**
Method File: C:\CPWIN\DATA1\PESTDLMET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.330		0.0000	0.000	641.5	0.399	BB	0.029	372.98	0.322
2	2.434		0.0000	0.000	2429.8	1.511	BV	0.079	513.43	0.443
3	2.454		0.0000	0.000	1540.1	0.958	VV	0.045	574.11	0.496
4	2.543		0.0000	0.000	3526.3	2.193	VV	0.027	2158.12	1.863
5	2.603		0.0000	0.000	1076.6	0.670	VB	0.038	467.41	0.403
6	2.666		0.0000	0.000	1350.5	0.840	BV	0.057	394.69	0.341
7	2.753		0.0000	0.000	943.7	0.587	VV	0.069	227.22	0.196
8	2.812		0.0000	0.000	371.2	0.231	VB	0.034	179.66	0.155
9	2.936		0.0000	0.000	450.4	0.280	BB	0.088	85.17	0.074
10	3.029		0.0000	0.000	185.3	0.115	BB	0.014	215.50	0.186
11	3.060		0.0000	0.000	396.8	0.247	BB	0.011	585.09	0.505
12	3.136		0.0000	0.000	2574.1	1.601	BB	0.105	409.59	0.354
13	3.190 TCX		4.4111	16.190	19667.5	12.233	BB	0.014	23184.13	20.014
14	3.249		0.0000	0.000	1197.7	0.745	BB	0.013	1546.81	1.335
15	3.397		0.0000	0.000	564.3	0.351	BB	0.020	466.65	0.403
16	3.490 alpha-BHC		0.0678	0.249	989.1	0.615	BB	0.025	669.38	0.578
17	3.516 HCB		0.0519	0.190	206.0	0.128	BB	0.011	307.82	0.266
18	3.667		0.0000	0.000	336.5	0.209	BB	0.014	407.61	0.352
19	3.706 gamma-BHC		0.0185	0.068	123.1	0.077	BB	0.013	154.71	0.134
20	3.740		0.0000	0.000	190.8	0.119	BB	0.016	200.29	0.173
21	3.768		0.0000	0.000	209.1	0.130	BB	0.012	287.56	0.248
22	3.792		0.0000	0.000	171.5	0.107	BB	0.013	222.34	0.192
23	3.833 beta-BHC		0.1268	0.466	310.9	0.193	BB	0.014	375.55	0.324
24	3.864		0.0000	0.000	72.3	0.045	BB	0.012	96.65	0.083
25	3.885		0.0000	0.000	62.6	0.039	BB	0.011	98.68	0.085
26	3.924		0.0000	0.000	6021.1	3.745	BB	0.017	5941.37	5.129
27	4.064 Heptachlor		1.0739	3.941	8810.6	5.480	BB	0.021	7120.59	6.147
28	4.124		0.0000	0.000	277.5	0.173	BB	0.025	185.93	0.160
29	4.237		0.0000	0.000	362.6	0.226	BB	0.016	374.95	0.324
30	4.274 Aldrin		0.5583	2.049	4675.1	2.908	BB	0.021	3771.45	3.256
31	4.315		0.0000	0.000	102.1	0.064	BB	0.012	142.92	0.123
32	4.363 Telodrin		0.1183	0.434	376.6	0.234	BB	0.021	301.18	0.260
33	4.412		0.0000	0.000	596.2	0.371	BB	0.022	459.12	0.396
34	4.450		0.0000	0.000	1502.3	0.934	BB	0.018	1387.88	1.198
35	4.499		0.0000	0.000	179.1	0.111	BB	0.014	220.22	0.190
36	4.536		0.0000	0.000	99.6	0.062	BB	0.016	102.60	0.089
37	4.581 Hept. epoxide		0.5842	2.144	4607.6	2.866	BB	0.024	3198.48	2.761
38	4.634		0.0000	0.000	1844.7	1.147	BB	0.024	1273.10	1.099
39	4.687 o,p-DDE		0.1140	0.419	293.2	0.182	BV	0.017	296.00	0.256
40	4.743		0.0000	0.000	2585.9	1.608	VV	0.020	2178.83	1.881
41	4.776 g. Chlordane		3.0312	11.125	17961.8	11.172	VV	0.019	15372.26	13.270
42	4.834 a. Chlordane		3.5668	13.091	21196.6	13.184	VB	0.021	17134.56	14.791
43	4.905		0.0000	0.000	650.8	0.405	BV	0.056	195.11	0.168
44	5.016 o,p-DDD		0.6191	2.272	3026.4	1.882	VV	0.040	1246.38	1.076
45	5.081 Dieldrin		0.2674	0.982	3000.1	1.866	VV	0.038	1311.45	1.132
46	5.138		0.0000	0.000	3455.7	2.149	VV	0.063	907.51	0.783
47	5.212		0.0000	0.000	5534.3	3.442	VB	0.053	1748.74	1.510
48	5.335		0.0000	0.000	5708.9	3.551	BV	0.038	2505.90	2.163
49	5.372 4,4'-DDD		0.6080	2.231	2590.9	1.611	VV	0.031	1411.96	1.219
50	5.409		0.0000	0.000	1524.6	0.948	VV	0.025	1009.07	0.871
51	5.439 Endosulfan II		0.3297	1.210	2023.1	1.258	VV	0.029	1159.42	1.001
52	5.485 Kepone		5.5733	20.455	9362.1	5.823	VB	0.045	3493.01	3.015
53	5.703 Endo. sulfate		1.4170	5.201	119.4	0.074	BV	0.020	100.02	0.086
54	5.742		0.0000	0.000	495.6	0.308	VB	0.022	370.14	0.320
55	5.895		0.0000	0.000	451.2	0.281	BV	0.039	193.00	0.167
56	6.087 Endrin ketone		0.0181	0.066	97.2	0.060	VB	0.028	57.40	0.050
57	6.251		0.0000	0.000	493.3	0.307	BB	0.364	22.56	0.019
58	6.269		0.0000	0.000	39.9	0.025	BB	0.014	46.82	0.040
59	6.584		0.0000	0.000	165.5	0.103	BB	0.046	60.52	0.052
60	6.876		0.0000	0.000	37.3	0.023	BB	0.020	30.62	0.026
61	7.033 DCB		4.6911	17.217	10923.0	6.794	BB	0.029	6309.91	5.447

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Total Area = 160779.9, Total Amount = 27.247, Total Height = 115842.2, Sample Units = PPB

Sample Name: **CHLD11124A AACHLD1AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 09:13:14pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.24R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.042		0.0000	0.000	1097.2	0.246	BB	0.022	832.06	0.357
2	2.101		0.0000	0.000	2281.2	0.511	BV	0.051	744.43	0.319
3	2.165		0.0000	0.000	2175.4	0.488	VV	0.057	630.76	0.271
4	2.204		0.0000	0.000	3311.1	0.742	VV	0.027	2011.86	0.863
5	2.290		0.0000	0.000	375.2	0.084	VV	0.034	183.95	0.079
6	2.318		0.0000	0.000	114.7	0.026	VB	0.014	135.76	0.058
7	2.371		0.0000	0.000	706.3	0.158	BV	0.081	145.46	0.062
8	2.428		0.0000	0.000	1125.9	0.252	VB	0.023	804.74	0.345
9	2.485		0.0000	0.000	1911.7	0.428	BV	0.046	687.77	0.295
10	2.574		0.0000	0.000	775.0	0.174	VV	0.040	323.82	0.139
11	2.664		0.0000	0.000	897.2	0.201	VV	0.098	152.38	0.065
12	2.694		0.0000	0.000	145.8	0.033	VB	0.024	101.80	0.044
13	2.736		0.0000	0.000	2692.7	0.603	BB	0.041	1102.57	0.473
14	2.818		0.0000	0.000	2424.3	0.543	BB	0.024	1703.07	0.730
15	2.876		0.0000	0.000	200.9	0.045	BB	0.022	153.34	0.066
16	2.955	TCX	4.6304	20.470	36015.5	8.071	BB	0.015	40607.40	17.415
17	3.039		0.0000	0.000	1838.6	0.412	BB	0.093	328.35	0.141
18	3.183		0.0000	0.000	2489.3	0.558	BB	0.050	838.01	0.359
19	3.227		0.0000	0.000	863.0	0.193	BV	0.015	938.73	0.403
20	3.266	HCB	0.0387	0.171	471.5	0.106	VB	0.015	533.77	0.229
21	3.306	alpha-BHC	0.0076	0.033	107.8	0.024	BB	0.016	109.95	0.047
22	3.441		0.0000	0.000	2037.4	0.457	BV	0.037	909.19	0.390
23	3.471		0.0000	0.000	3748.4	0.840	VV	0.028	2199.24	0.943
24	3.561		0.0000	0.000	2781.0	0.623	VV	0.031	1490.50	0.639
25	3.603		0.0000	0.000	1649.3	0.370	VV	0.029	956.87	0.410
26	3.641		0.0000	0.000	9986.4	2.238	VV	0.018	9496.61	4.073
27	3.680		0.0000	0.000	2007.5	0.450	VV	0.024	1421.51	0.610
28	3.719	beta-BHC	0.2179	0.963	1521.8	0.341	VV	0.022	1156.47	0.496
29	3.753	Heptachlor	1.1268	4.982	11714.5	2.625	VV	0.018	10792.31	4.628
30	3.790		0.0000	0.000	1017.8	0.228	VV	0.017	978.07	0.419
31	3.815		0.0000	0.000	2952.3	0.662	VV	0.025	2000.26	0.858
32	3.872	delta-BHC	0.1025	0.453	2262.3	0.507	VB	0.031	1220.87	0.524
33	3.946	Aldrin	0.0876	0.387	959.8	0.215	BV	0.021	759.99	0.326
34	3.989		0.0000	0.000	2080.7	0.466	VV	0.020	1727.99	0.741
35	4.013	Telodrin	1.0683	4.723	13945.7	3.125	VB	0.029	8138.88	3.490
36	4.091		0.0000	0.000	2986.2	0.669	BV	0.021	2403.23	1.031
37	4.114		0.0000	0.000	7108.4	1.593	VV	0.028	4177.73	1.792
38	4.146		0.0000	0.000	4836.4	1.084	VV	0.027	2961.45	1.270
39	4.176		0.0000	0.000	6239.4	1.398	VV	0.042	2490.72	1.068
40	4.243		0.0000	0.000	8345.2	1.870	VV	0.040	3517.25	1.508
41	4.305		0.0000	0.000	25475.3	5.709	VV	0.052	8179.94	3.508
42	4.372	o,p-DDE	0.8958	3.960	7892.4	1.769	VV	0.028	4730.89	2.029
43	4.446	g. Chlordane	3.0760	13.598	59506.8	13.335	VV	0.039	25434.63	10.908
44	4.489	a. Chlordane	2.4216	10.706	31613.9	7.085	VV	0.030	17351.84	7.442
45	4.575		0.0000	0.000	8352.1	1.872	VB	0.039	3558.55	1.526
46	4.650		0.0000	0.000	6301.3	1.412	BV	0.036	2952.74	1.266
47	4.678		0.0000	0.000	6638.0	1.488	VV	0.029	3818.91	1.638
48	4.711	Dieldrin	0.4742	2.096	9260.8	2.075	VV	0.041	3774.76	1.619
49	4.767		0.0000	0.000	3946.9	0.884	VV	0.031	2130.72	0.914
50	4.832		0.0000	0.000	6215.7	1.393	VV	0.065	1583.19	0.679
51	4.888		0.0000	0.000	2652.8	0.594	VV	0.033	1320.62	0.566
52	4.933	Endrin	0.1859	0.822	2803.5	0.628	VV	0.038	1229.54	0.527
53	4.975		0.0000	0.000	5721.6	1.282	VB	0.028	3349.83	1.437
54	5.035	Kepone	1.6202	7.163	421.5	0.094	BB	0.020	348.39	0.149
55	5.102		0.0000	0.000	804.4	0.180	BV	0.026	523.94	0.225
56	5.163	Endosulfan II	0.9516	4.207	8587.2	1.924	VV	0.025	5677.47	2.435
57	5.233	4,4'-DDT	0.0209	0.093	237.4	0.053	VB	0.035	113.79	0.049
58	5.407		0.0000	0.000	1709.9	0.383	BB	0.030	934.80	0.401
59	5.502		0.0000	0.000	801.9	0.180	BV	0.045	295.06	0.127
60	5.571		0.0000	0.000	685.0	0.154	VV	0.030	381.39	0.164
61	5.654	Methoxychlor	0.5053	2.234	5612.1	1.258	VV	0.095	986.97	0.423
62	5.788		0.0000	0.000	3470.0	0.778	VV	0.045	1290.42	0.553

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PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.873	Endrin ketone	0.3134	1.385	7545.5	1.691	VV	0.065	1936.82	0.831
64	5.941		0.0000	0.000	9250.5	2.073	VB	0.079	1947.28	0.835
65	6.098		0.0000	0.000	7778.0	1.743	BV	0.073	1776.96	0.762
66	6.156		0.0000	0.000	6484.6	1.453	VV	0.064	1676.23	0.719
67	6.218		0.0000	0.000	5030.5	1.127	VV	0.052	1599.21	0.686
68	6.327		0.0000	0.000	8532.0	1.912	VV	0.096	1485.88	0.637
69	6.400		0.0000	0.000	3188.1	0.714	VV	0.038	1407.21	0.604
70	6.467		0.0000	0.000	10134.5	2.271	VV	0.123	1377.68	0.591
71	6.631	DCB	4.8757	21.554	32338.3	7.247	VV	0.031	17118.28	7.341
72	6.932		0.0000	0.000	2870.3	0.643	VV	0.092	522.68	0.224
73	7.083		0.0000	0.000	1570.9	0.352	VV	0.082	319.92	0.137
74	7.323		0.0000	0.000	2605.9	0.584	VB	0.259	167.61	0.072

Total Area = 446240.1, Total Amount = 22.62, Total Height = 233173.3, Sample Units = PPB

USF03 1742

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.24R
CHLD11124A AACHLD1AA ICAL 1119299999
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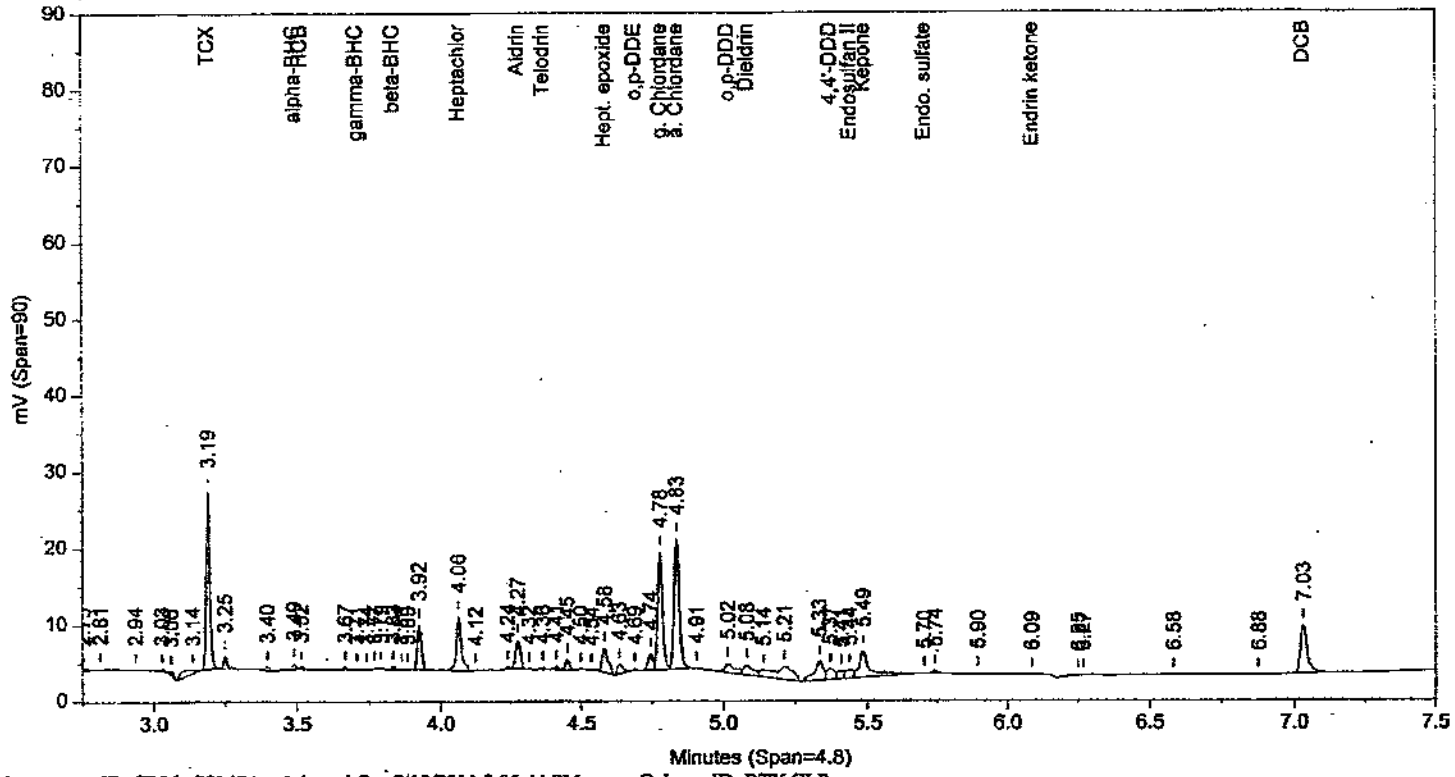
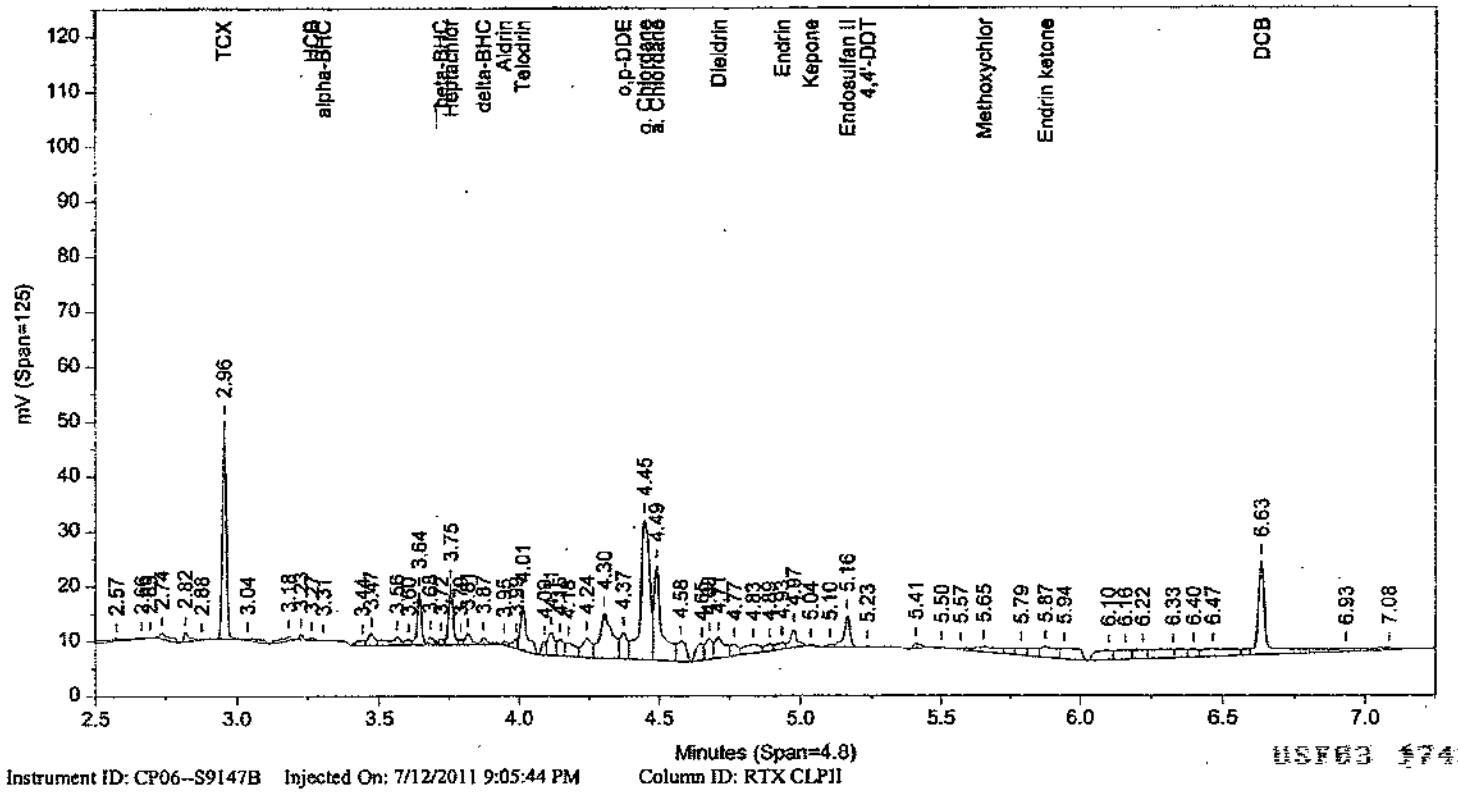


Instrument ID: CP06--S9147A Injected On: 7/12/2011 9:05:44 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.24R

CHLD11124A AACHLD1AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.24R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 9:05:44 PM Column ID: RTX CLPII

USF63 4743

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Initial Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

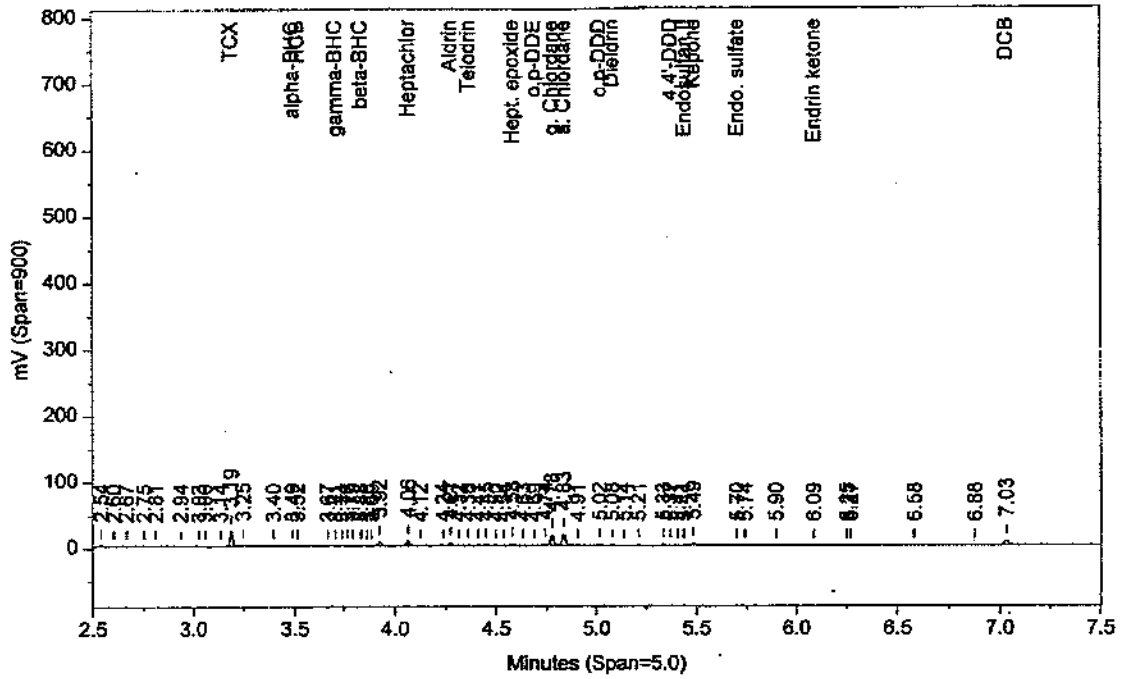
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.19	23184	4.41112	TCX	2.955	40607	4.63036	TCX
3.516	308	.05189	HCB	3.266	534	.03875	HCB
3.49	669	.06781	alpha-BHC	3.306	110	.00758	alpha-BHC
3.706	155	.0185	gamma-BHC	.	0	.	gamma-BHC
3.833	376	.12684	beta-BHC	3.719	1156	.21789	beta-BHC
4.064	7121	1.07392	Heptachlor	3.753	10792	1.12684	Heptachlor
.	0	.	delta-BHC	3.872	1221	.10251	delta-BHC
4.274	3771	.5583	Aldrin	3.946	760	.08758	Aldrin
4.363	301	.11833	Telodrin	4.013	8139	1.06826	Telodrin
4.687	296	.11404	o,p-DDE	4.372	4731	.89579	o,p-DDE
4.776	15372	3.03121	g. Chlordane	4.446	25435	3.07597	g. Chlordane
4.834	17135	3.56685	a. Chlordane	4.489	17352	2.42164	a. Chlordane
4.581	3198	.58423	Hept. epoxide	.	0	.	Hept. epoxide
5.081	1311	.26743	Dieldrin	4.711	3775	.47421	Dieldrin
.	0	.	Endrin	4.933	1230	.18594	Endrin
5.016	1246	.61909	o,p-DDD	.	0	.	o,p-DDD
5.485	3493	5.57332	Kepone	5.035	348	1.62019	Kepone
5.439	1159	.32969	Endosulfan II	5.163	5677	.95155	Endosulfan II
.	0	.	4,4'-DDT	5.233	114	.02095	4,4'-DDT
5.372	1412	.608	4,4'-DDD	.	0	.	4,4'-DDD
.	0	.	Methoxychlor	5.654	987	.50527	Methoxychlor
5.703	100	1.41704	Endo. sulfate	.	0	.	Endo. sulfate
6.087	57	.01811	Endrin ketone	5.873	1937	.31336	Endrin ketone
7.033	6310	4.69109	DCB	6.631	17118	4.87565	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.24A
Area File: C:\CPWIN\DATA1\1P6193B.24A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 9:13:20 PM
File Reported On: 7/12/2011 at 9:13:31 PM

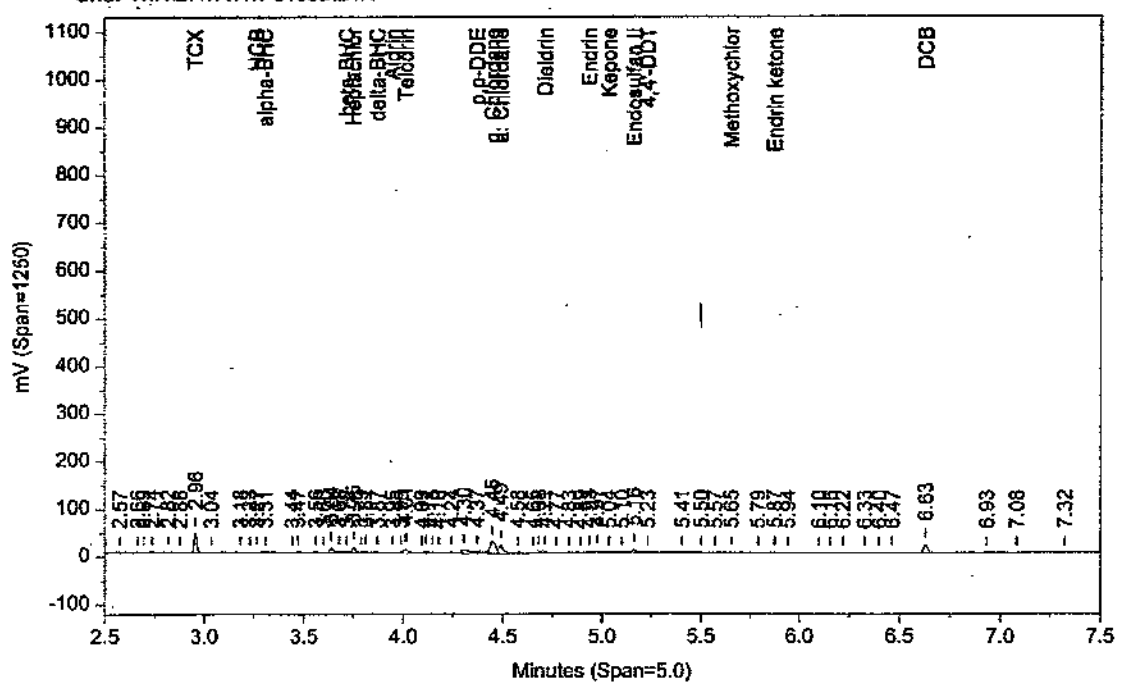
USF03 1744

REPLOTS

CHLD11124A AACHLD1AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.24R



CHLD11124A AACHLD1AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.24R



USTB3 1745

Sample Name: **CHLD21124A AACHLD2AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 09:25:52pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.25R**
Method File: C:\CPWIN\DATA1\PESTDLMET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.323		0.0000	0.000	1004.5	0.284	BB	0.030	567.43	0.187
2	2.400		0.0000	0.000	2916.3	0.825	BV	0.058	844.19	0.278
3	2.452		0.0000	0.000	3757.0	1.063	VV	0.060	1037.79	0.341
4	2.541		0.0000	0.000	848.6	0.240	VV	0.026	554.40	0.182
5	2.568		0.0000	0.000	314.9	0.089	VB	0.020	267.64	0.088
6	2.660		0.0000	0.000	646.1	0.183	BV	0.042	254.60	0.084
7	2.758		0.0000	0.000	600.6	0.170	VV	0.067	149.71	0.049
8	2.797		0.0000	0.000	323.5	0.092	VV	0.031	176.00	0.058
9	2.849		0.0000	0.000	301.4	0.085	VB	0.042	118.66	0.039
10	3.060		0.0000	0.000	590.1	0.167	BB	0.021	467.21	0.154
11	3.112		0.0000	0.000	908.6	0.257	BB	0.045	334.75	0.110
12	3.189	TCX	22.2966	30.392	99454.3	28.147	BB	0.014	117187.50	38.549
13	3.247		0.0000	0.000	2286.5	0.647	BB	0.013	3001.45	0.987
14	3.301		0.0000	0.000	128.8	0.036	BB	0.015	146.68	0.048
15	3.396		0.0000	0.000	1236.4	0.350	BB	0.014	1430.59	0.471
16	3.488	alpha-BHC	0.1336	0.182	1045.8	0.296	BB	0.013	1318.58	0.434
17	3.514	HCB	0.1034	0.141	568.2	0.161	BB	0.015	613.24	0.202
18	3.665		0.0000	0.000	873.2	0.247	BB	0.016	882.73	0.290
19	3.704	gamma-BHC	0.0359	0.049	263.2	0.075	BB	0.015	299.99	0.099
20	3.739		0.0000	0.000	203.0	0.057	BB	0.014	245.71	0.081
21	3.766		0.0000	0.000	652.3	0.185	BB	0.013	835.02	0.275
22	3.789		0.0000	0.000	210.6	0.060	BB	0.011	311.19	0.102
23	3.831	beta-BHC	0.2646	0.361	652.4	0.185	BB	0.014	783.45	0.258
24	3.861		0.0000	0.000	224.8	0.064	BB	0.013	298.24	0.098
25	3.883		0.0000	0.000	130.7	0.037	BB	0.010	215.16	0.071
26	3.923		0.0000	0.000	11775.6	3.333	BB	0.017	11733.03	3.860
27	4.006	delta-BHC	0.0227	0.031	185.4	0.052	BB	0.020	152.67	0.050
28	4.062	Heptachlor	2.1294	2.903	17000.6	4.812	BB	0.020	14119.11	4.644
29	4.121		0.0000	0.000	223.3	0.063	BB	0.015	254.46	0.084
30	4.175		0.0000	0.000	120.0	0.034	BB	0.017	120.27	0.040
31	4.236		0.0000	0.000	719.1	0.204	BB	0.016	749.79	0.247
32	4.273		0.0000	0.000	8794.2	2.489	BB	0.021	7100.63	2.336
33	4.314	Aldrin	0.0429	0.058	209.7	0.059	BB	0.012	289.63	0.095
34	4.362	Telodrin	0.2364	0.322	756.9	0.214	BB	0.021	601.70	0.198
35	4.410		0.0000	0.000	1197.9	0.339	BB	0.022	894.62	0.294
36	4.448		0.0000	0.000	3726.6	1.055	BB	0.018	3365.23	1.107
37	4.497		0.0000	0.000	364.7	0.103	BB	0.014	427.61	0.141
38	4.537		0.0000	0.000	150.6	0.043	BB	0.013	186.39	0.061
39	4.580	Hept. epoxide	0.9676	1.319	7382.8	2.089	BB	0.023	5297.28	1.743
40	4.631		0.0000	0.000	3313.0	0.938	BB	0.021	2671.68	0.879
41	4.686	o,p-DDE	0.2290	0.312	549.0	0.155	BB	0.015	594.37	0.196
42	4.741		0.0000	0.000	4837.4	1.369	BV	0.020	4091.99	1.346
43	4.775	g. Chlordane	6.1965	8.446	36051.7	10.203	VV	0.019	31424.66	10.337
44	4.833	a. Chlordane	7.3543	10.025	42904.2	12.143	VB	0.020	35329.01	11.621
45	4.904		0.0000	0.000	382.2	0.108	BB	0.022	290.44	0.096
46	4.952	4,4'-DDE	0.0446	0.061	141.2	0.040	BB	0.016	151.10	0.050
47	5.015		0.0000	0.000	3169.7	0.897	BV	0.024	2201.91	0.724
48	5.080	Dieldrin	0.3990	0.544	3233.8	0.915	VV	0.028	1956.77	0.644
49	5.137		0.0000	0.000	2575.7	0.729	VV	0.056	771.48	0.254
50	5.211		0.0000	0.000	4889.7	1.384	VB	0.040	2014.39	0.663
51	5.333		0.0000	0.000	6579.4	1.862	BV	0.027	4050.40	1.332
52	5.371	4,4'-DDD	0.7012	0.956	2605.9	0.738	VV	0.027	1628.39	0.536
53	5.407		0.0000	0.000	1474.0	0.417	VV	0.028	890.25	0.293
54	5.437	Endosulfan II	0.2575	0.351	1348.0	0.382	VV	0.025	905.56	0.298
55	5.485	Kepone	8.7355	11.907	10121.0	2.864	VB	0.029	5910.97	1.944
56	5.702	Endo. sulfate	1.4400	1.963	218.1	0.062	BV	0.021	176.09	0.058
57	5.741		0.0000	0.000	1001.9	0.284	VB	0.022	747.88	0.246
58	5.892		0.0000	0.000	497.4	0.141	BB	0.028	301.32	0.099
59	6.086	Endrin ketone	0.0651	0.089	1396.2	0.395	BB	0.113	206.29	0.068
60	6.217		0.0000	0.000	561.1	0.159	BB	0.041	230.09	0.076
61	6.268		0.0000	0.000	103.1	0.029	BB	0.018	94.94	0.031
62	6.299		0.0000	0.000	139.1	0.039	BB	0.020	115.50	0.038

USF83 1746

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	6.430	Mirex	0.0825	0.112	233.1	0.066	BB	0.022	173.88	0.057
64	6.581		0.0000	0.000	183.4	0.052	BB	0.037	83.07	0.027
65	6.743		0.0000	0.000	50.3	0.014	BB	0.021	39.09	0.013
66	6.871		0.0000	0.000	251.6	0.071	BB	0.023	184.80	0.061
67	7.033	DCB	21.6245	29.476	51672.5	14.624	BB	0.030	29086.78	9.568
68	7.421		0.0000	0.000	100.3	0.028	BB	0.042	40.08	0.013

Total Area = 353332.7, Total Amount = 73.363, Total Height = 303997.4, Sample Units = PPB

USF03 1747

Sample Name: **CHLD21124A AACHLD2AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 09:25:52pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.25R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.045		0.0000	0.000	2339.9	0.288	BV	0.030	1309.88	0.232
2	2.095		0.0000	0.000	4850.6	0.597	VV	0.059	1378.43	0.244
3	2.162		0.0000	0.000	5392.5	0.664	VV	0.065	1383.47	0.245
4	2.218		0.0000	0.000	7006.3	0.862	VV	0.057	2031.83	0.360
5	2.285		0.0000	0.000	2260.2	0.278	VV	0.029	1317.11	0.233
6	2.313		0.0000	0.000	3134.8	0.386	VV	0.042	1248.80	0.221
7	2.355		0.0000	0.000	5251.5	0.646	VV	0.064	1378.33	0.244
8	2.427		0.0000	0.000	1471.7	0.181	VV	0.022	1095.51	0.194
9	2.486		0.0000	0.000	4512.4	0.555	VV	0.081	932.87	0.165
10	2.559		0.0000	0.000	1837.3	0.226	VV	0.032	944.63	0.167
11	2.613		0.0000	0.000	996.9	0.123	VV	0.019	863.41	0.153
12	2.659		0.0000	0.000	2674.8	0.329	VB	0.049	906.16	0.160
13	2.736		0.0000	0.000	5397.3	0.664	BB	0.061	1473.32	0.261
14	2.827		0.0000	0.000	488.4	0.060	BB	0.030	275.85	0.049
15	2.873		0.0000	0.000	73.8	0.009	BB	0.014	86.08	0.015
16	2.913		0.0000	0.000	50.4	0.006	BB	0.013	64.25	0.011
17	2.954 TCX		23.6339	35.004	180061.9	22.161	BB	0.014	207264.80	36.687
18	3.038		0.0000	0.000	684.7	0.084	BB	0.081	141.13	0.025
19	3.128		0.0000	0.000	185.7	0.023	BB	0.016	192.88	0.034
20	3.181		0.0000	0.000	3124.4	0.385	BB	0.018	2970.36	0.526
21	3.225		0.0000	0.000	1725.0	0.212	BV	0.015	1897.12	0.336
22	3.264 HCB		0.0780	0.115	976.9	0.120	VV	0.015	1073.96	0.190
23	3.304 alpha-BHC		0.0338	0.050	434.9	0.054	VV	0.015	490.23	0.087
24	3.342		0.0000	0.000	131.1	0.016	VB	0.016	138.73	0.025
25	3.438		0.0000	0.000	1422.2	0.175	BV	0.035	669.07	0.118
26	3.469		0.0000	0.000	4399.0	0.541	VV	0.023	3193.57	0.565
27	3.502		0.0000	0.000	1705.2	0.210	VV	0.037	767.23	0.136
28	3.560		0.0000	0.000	2262.3	0.278	VV	0.019	1969.31	0.349
29	3.602		0.0000	0.000	1512.4	0.186	VV	0.027	930.07	0.165
30	3.639		0.0000	0.000	17347.9	2.135	VV	0.017	17494.24	3.097
31	3.676		0.0000	0.000	1952.4	0.240	VV	0.018	1798.43	0.318
32	3.717 beta-BHC		0.2264	0.335	1279.0	0.157	VV	0.018	1201.78	0.213
33	3.752 Heptachlor		2.1398	3.169	21133.2	2.601	VV	0.017	20494.25	3.628
34	3.789		0.0000	0.000	1222.8	0.151	VV	0.016	1282.13	0.227
35	3.813		0.0000	0.000	3801.7	0.468	VV	0.019	3274.11	0.580
36	3.870 delta-BHC		0.1566	0.232	1989.7	0.245	VB	0.018	1865.46	0.330
37	3.923		0.0000	0.000	544.6	0.067	BV	0.018	513.26	0.091
38	3.942 Aldrin		0.1645	0.244	1561.5	0.192	VV	0.018	1427.74	0.253
39	3.988		0.0000	0.000	1830.8	0.225	VV	0.015	2015.77	0.357
40	4.011 Telodrin		1.8268	2.706	20213.4	2.488	VB	0.024	13918.11	2.464
41	4.087		0.0000	0.000	2289.2	0.282	BV	0.018	2080.77	0.368
42	4.112		0.0000	0.000	7637.9	0.940	VV	0.024	5314.44	0.941
43	4.145		0.0000	0.000	4596.9	0.566	VV	0.027	2865.66	0.507
44	4.176		0.0000	0.000	3806.5	0.468	VV	0.032	1981.68	0.351
45	4.241		0.0000	0.000	7121.7	0.877	VV	0.031	3856.72	0.683
46	4.303		0.0000	0.000	33515.8	4.125	VV	0.043	13050.95	2.310
47	4.370 o,p-DDE		1.1620	1.721	9157.7	1.127	VV	0.025	6137.04	1.086
48	4.445 g. Chlordane		5.8760	8.703	100292.9	12.344	VV	0.034	48587.19	8.600
49	4.487 a. Chlordane		4.4728	6.625	48854.7	6.013	VV	0.025	32048.85	5.673
50	4.574		0.0000	0.000	8603.5	1.059	VB	0.040	3589.81	0.635
51	4.646		0.0000	0.000	5763.7	0.709	BV	0.034	2848.73	0.504
52	4.677		0.0000	0.000	8033.3	0.989	VV	0.029	4689.08	0.830
53	4.709 Dieldrin		0.6271	0.929	9559.8	1.177	VV	0.032	4992.10	0.884
54	4.765		0.0000	0.000	3893.0	0.479	VV	0.029	2229.36	0.395
55	4.832		0.0000	0.000	5142.1	0.633	VV	0.055	1561.97	0.276
56	4.887		0.0000	0.000	2818.6	0.347	VV	0.031	1524.93	0.270
57	4.933 Endrin		0.2639	0.391	3999.1	0.492	VV	0.038	1745.16	0.309
58	4.973		0.0000	0.000	9407.3	1.158	VB	0.025	6167.47	1.092
59	5.034 Kepone		1.8842	2.791	1005.8	0.124	BB	0.027	619.40	0.110
60	5.105		0.0000	0.000	1578.1	0.194	BV	0.023	1134.13	0.201
61	5.161 Endosulfan II		1.9248	2.851	16972.7	2.089	VV	0.025	11484.12	2.033
62	5.229 4,4'-DDT		0.1114	0.165	2699.0	0.332	VV	0.074	604.87	0.107

USP83 1749

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.312	Endrin aldehyde	0.1358	0.201	1933.2	0.238	VB	0.051	629.03	0.111
64	5.406		0.0000	0.000	4188.1	0.515	BB	0.037	1882.26	0.333
65	5.501		0.0000	0.000	833.2	0.103	BV	0.032	437.64	0.077
66	5.570		0.0000	0.000	752.3	0.093	VV	0.029	439.30	0.078
67	5.628	Methoxychlor	0.3557	0.527	1993.5	0.245	VV	0.048	694.84	0.123
68	5.687		0.0000	0.000	2764.4	0.340	VV	0.055	836.28	0.148
69	5.785		0.0000	0.000	3583.9	0.441	VV	0.043	1375.04	0.243
70	5.873	Endrin ketone	0.3114	0.461	7622.4	0.938	VV	0.066	1924.99	0.341
71	5.942		0.0000	0.000	9790.5	1.205	VB	0.077	2119.49	0.375
72	6.054		0.0000	0.000	3732.5	0.459	BV	0.031	1993.18	0.353
73	6.089		0.0000	0.000	3584.4	0.441	VV	0.034	1743.69	0.309
74	6.155		0.0000	0.000	6853.9	0.844	VV	0.068	1684.05	0.298
75	6.220		0.0000	0.000	5315.6	0.654	VV	0.055	1624.21	0.287
76	6.277		0.0000	0.000	7863.1	0.968	VV	0.081	1609.90	0.285
77	6.397		0.0000	0.000	2914.0	0.359	VV	0.033	1450.30	0.257
78	6.469		0.0000	0.000	7554.4	0.930	VV	0.066	1913.22	0.339
79	6.630	DCB	22.1320	32.780	115358.9	14.198	VV	0.025	77704.88	13.754
80	6.938		0.0000	0.000	3377.2	0.416	VV	0.096	585.23	0.104
81	6.981		0.0000	0.000	1529.5	0.188	VV	0.045	561.69	0.099
82	7.039		0.0000	0.000	2208.2	0.272	VV	0.080	460.07	0.081
83	7.244		0.0000	0.000	1914.9	0.236	VV	0.185	172.69	0.031
84	7.277		0.0000	0.000	277.7	0.034	VV	0.031	151.60	0.027
85	7.317		0.0000	0.000	569.5	0.070	VB	0.053	179.41	0.032

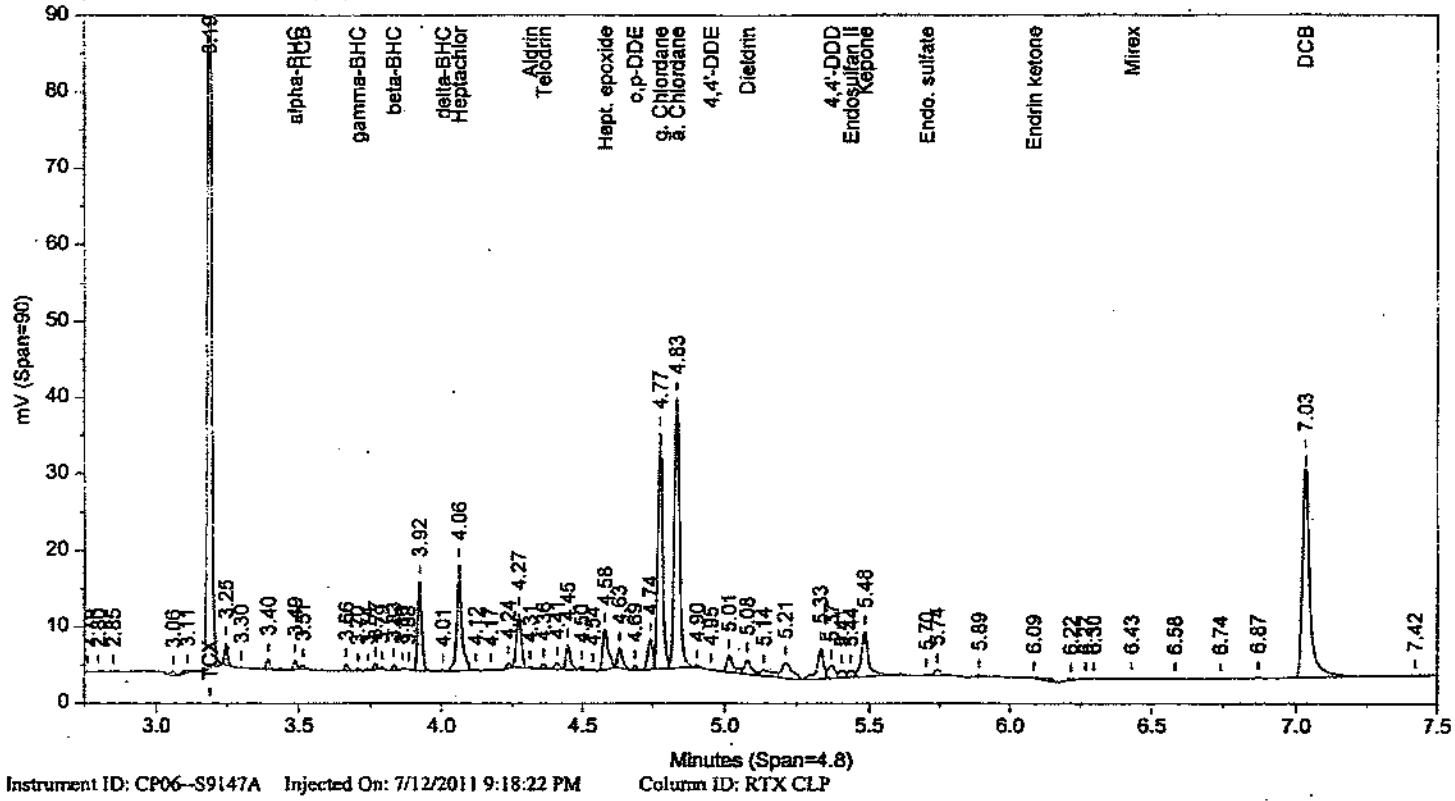
Total Area = 812505.7, Total Amount = 67.517, Total Height = 564961.1, Sample Units = PPB

USF03 1749

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.25R

CHLD21124A AACHLD2AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.25R

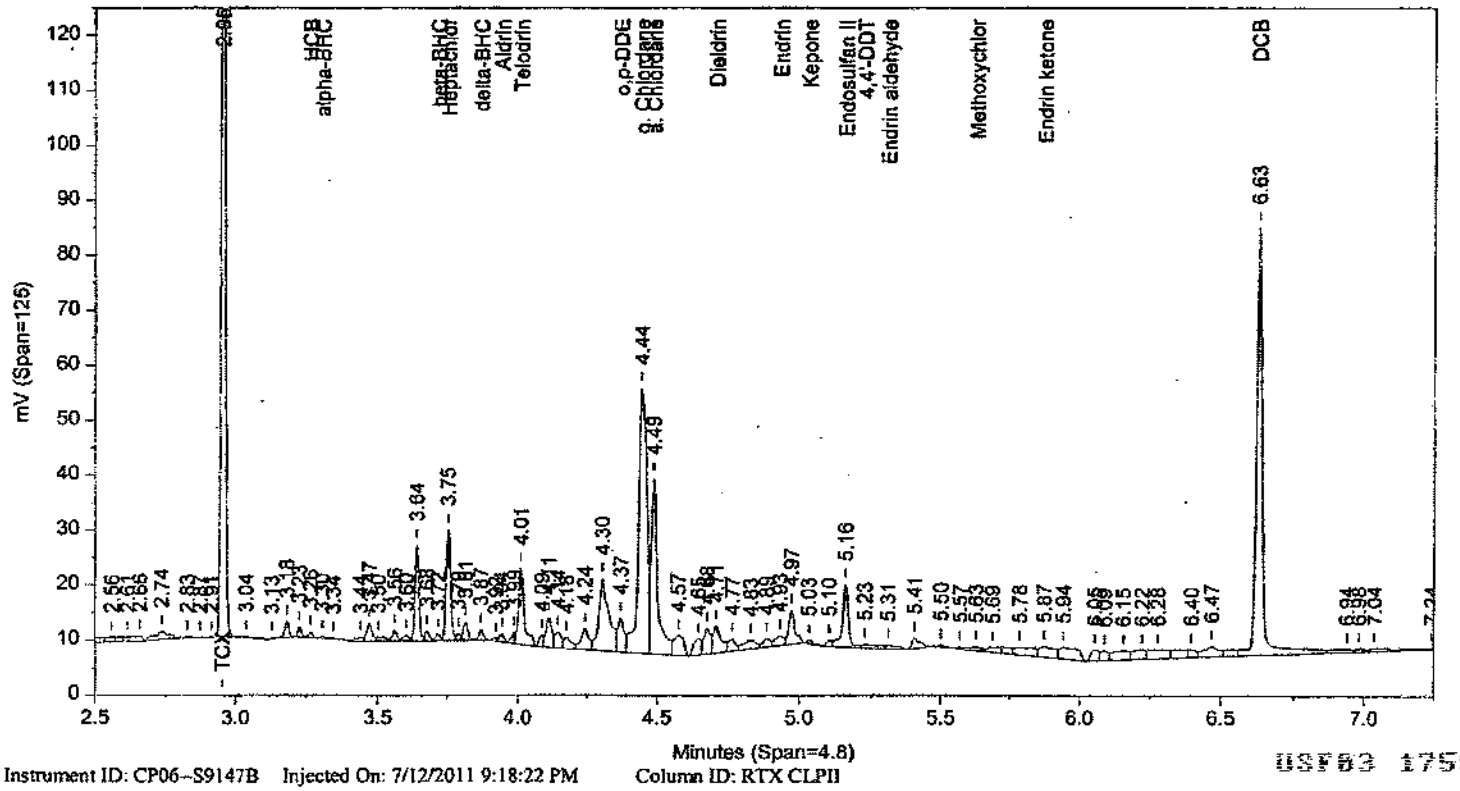


Instrument ID: CP06--S9147A Injected On: 7/12/2011 9:18:22 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.25R

CHLD21124A AACHLD2AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193B.25R



Instrument ID: CP06--S9147B Injected On: 7/12/2011 9:18:22 PM Column ID: RTX CLPII

USF83 1759

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.189	117187	22.29663	TCX	2.954	207265	23.63387	TCX
3.514	613	.10337	HCB	3.264	1074	.07796	HCB
3.488	1319	.13357	alpha-BHC	3.304	490	.03378	alpha-BHC
3.704	300	.03587	gamma-BHC	.	0	.	gamma-BHC
3.831	783	.26461	beta-BHC	3.717	1202	.22643	beta-BHC
4.062	14119	2.12943	Heptachlor	3.752	20494	2.13984	Heptachlor
4.006	153	.02269	delta-BHC	3.87	1865	.15663	delta-BHC
4.314	290	.04287	Aldrin	3.942	1428	.16453	Aldrin
4.362	602	.2364	Telodrin	4.011	13918	1.82681	Telodrin
4.686	594	.22899	o,p-DDE	4.37	6137	1.16205	o,p-DDE
4.775	31425	6.19653	g. Chlordane	4.445	48587	5.87595	g. Chlordane
4.833	35329	7.35433	a. Chlordane	4.487	32049	4.47278	a. Chlordane
4.58	5297	.9676	Hept. epoxide	.	0	.	Hept. epoxide
5.08	1957	.39903	Dieldrin	4.709	4992	.62714	Dieldrin
.	0	.	Endrin	4.933	1745	.26391	Endrin
4.952	151	.04465	4,4'-DDE	.	0	.	4,4'-DDE
5.485	5911	8.7355	Kepone	5.034	619	1.88421	Kepone
5.437	906	.2575	Endosulfan II	5.161	11484	1.92476	Endosulfan II
.	0	.	4,4'-DDT	5.229	605	.11136	4,4'-DDT
.	0	.	Endrin aldehyde	5.312	629	.13581	Endrin aldehyde
5.371	1628	.7012	4,4'-DDD	.	0	.	4,4'-DDD
.	0	.	Methoxychlor	5.628	695	.35571	Methoxychlor
5.702	176	1.44001	Endo. sulfate	.	0	.	Endo. sulfate
6.086	206	.06507	Endrin ketone	5.873	1925	.31145	Endrin ketone
6.43	174	.08249	Mirex	.	0	.	Mirex
7.033	29087	21.62448	DCB	6.63	77705	22.13201	DCB

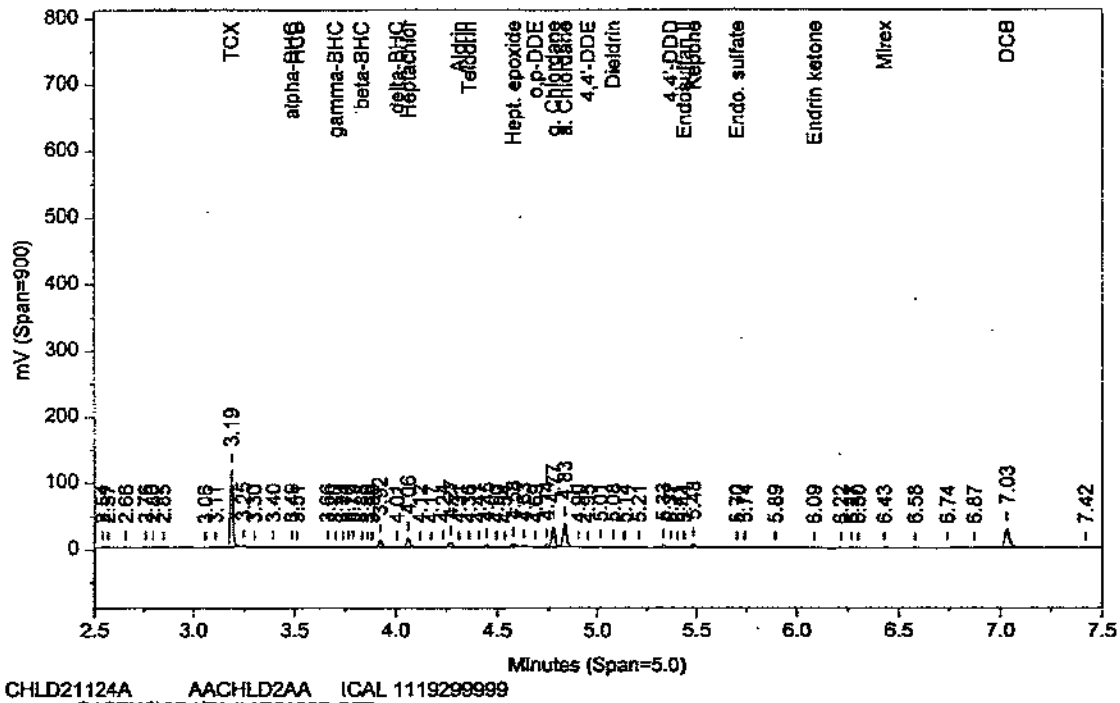
Files:
Area File: C:\CPWIN\DATA1\1P6193.25A
Area File: C:\CPWIN\DATA1\1P6193B.25A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 9:25:58 PM
File Reported On: 7/12/2011 at 9:26:08 PM

USF03 1751

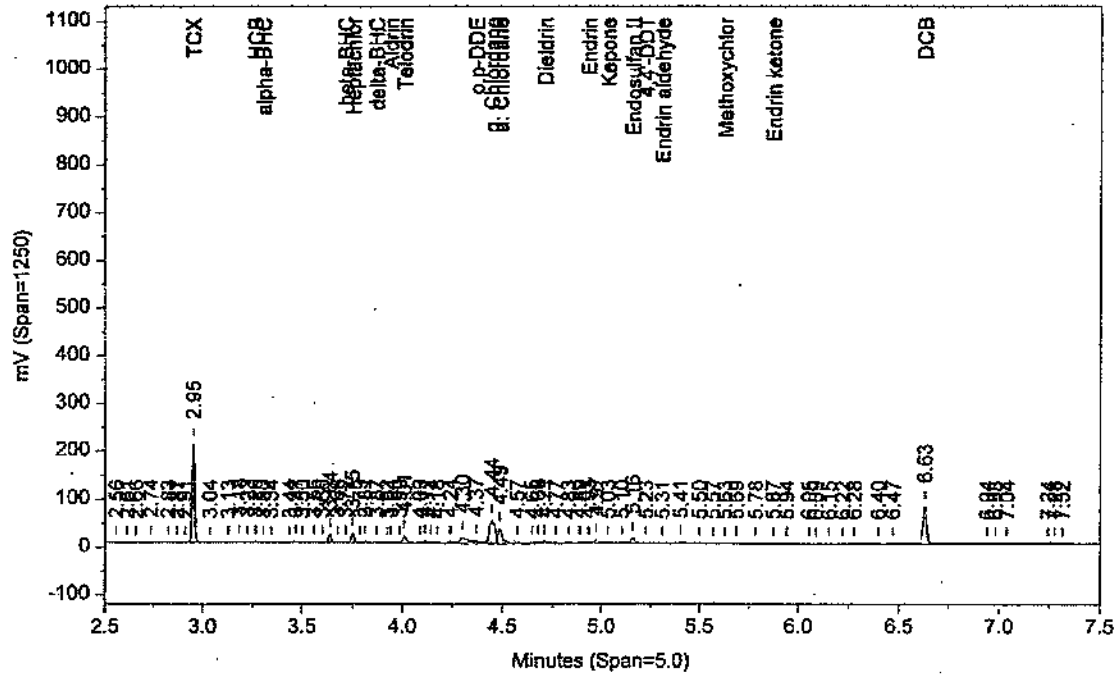
Files:

REPLOTS

CHLD21124A AACHLD2AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.25R



CHLD21124A AACHLD2AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.25R



USF83 1752

Sample Name: **CHLD31124A AACHLD3AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 09:38:40pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.26R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.326		0.0000	0.000	695.8	0.105	BB	0.029	394.42	0.068
2	2.399		0.0000	0.000	2210.3	0.332	BV	0.053	691.56	0.120
3	2.453		0.0000	0.000	4266.5	0.641	VV	0.054	1309.85	0.227
4	2.543		0.0000	0.000	1655.6	0.249	VV	0.022	1280.27	0.222
5	2.570		0.0000	0.000	1240.4	0.186	VV	0.026	809.38	0.140
6	2.603		0.0000	0.000	1033.7	0.155	VV	0.032	535.52	0.093
7	2.666		0.0000	0.000	1472.5	0.221	VV	0.059	417.95	0.072
8	2.756		0.0000	0.000	1438.9	0.216	VV	0.065	366.57	0.064
9	2.813		0.0000	0.000	768.9	0.116	VV	0.036	357.39	0.062
10	2.849		0.0000	0.000	598.3	0.090	VV	0.042	239.91	0.042
11	2.911		0.0000	0.000	227.6	0.034	VV	0.026	148.20	0.026
12	2.971		0.0000	0.000	43.5	0.007	VB	0.014	53.47	0.009
13	3.028		0.0000	0.000	114.6	0.017	BB	0.012	158.26	0.027
14	3.062		0.0000	0.000	441.1	0.066	BB	0.012	612.09	0.106
15	3.116		0.0000	0.000	1878.8	0.282	BB	0.053	585.50	0.101
16	3.191	TCX	39.0564	26.768	180146.8	27.071	BB	0.015	205274.00	35.568
17	3.249		0.0000	0.000	4322.9	0.650	BB	0.013	5425.38	0.940
18	3.300		0.0000	0.000	97.5	0.015	BB	0.012	132.02	0.023
19	3.397		0.0000	0.000	2373.5	0.357	BB	0.014	2739.21	0.475
20	3.439		0.0000	0.000	207.1	0.031	BB	0.032	107.80	0.019
21	3.490	alpha-BHC	0.2602	0.178	2037.0	0.306	BB	0.013	2569.11	0.445
22	3.516	HCB	0.2284	0.157	1200.0	0.180	BB	0.015	1355.15	0.235
23	3.581		0.0000	0.000	113.6	0.017	BB	0.016	117.26	0.020
24	3.634		0.0000	0.000	54.0	0.008	BB	0.011	79.73	0.014
25	3.667		0.0000	0.000	1409.9	0.212	BB	0.014	1664.87	0.288
26	3.706	gamma-BHC	0.0696	0.048	495.8	0.074	BB	0.014	582.25	0.101
27	3.741		0.0000	0.000	436.1	0.066	BB	0.014	507.02	0.088
28	3.767		0.0000	0.000	1268.9	0.191	BB	0.013	1630.93	0.283
29	3.791		0.0000	0.000	375.7	0.056	BB	0.012	534.87	0.093
30	3.834	beta-BHC	0.5564	0.381	1349.7	0.203	BB	0.014	1647.41	0.285
31	3.864		0.0000	0.000	386.9	0.058	BB	0.012	523.58	0.091
32	3.884		0.0000	0.000	222.0	0.033	BB	0.011	341.42	0.059
33	3.924		0.0000	0.000	23322.5	3.505	BB	0.017	23312.28	4.039
34	4.007		0.0000	0.000	257.1	0.039	BB	0.017	252.39	0.044
35	4.064	Heptachlor	4.3258	2.965	33840.0	5.085	BB	0.020	28682.32	4.970
36	4.123		0.0000	0.000	407.8	0.061	BB	0.014	490.92	0.085
37	4.153		0.0000	0.000	85.0	0.013	BB	0.014	104.17	0.018
38	4.176		0.0000	0.000	220.1	0.033	BB	0.019	197.65	0.034
39	4.238		0.0000	0.000	1575.9	0.237	BB	0.016	1693.06	0.293
40	4.274	Aldrin	2.0028	1.373	16731.6	2.514	BB	0.021	13529.22	2.344
41	4.315		0.0000	0.000	472.3	0.071	BB	0.012	640.95	0.111
42	4.363	Telodrin	0.5308	0.364	1702.2	0.256	BB	0.021	1350.96	0.234
43	4.411		0.0000	0.000	2624.2	0.394	BB	0.023	1914.50	0.332
44	4.450		0.0000	0.000	7143.9	1.074	BB	0.020	6059.67	1.050
45	4.499		0.0000	0.000	817.0	0.123	BB	0.014	977.06	0.169
46	4.538		0.0000	0.000	312.5	0.047	BB	0.016	328.90	0.057
47	4.581	Hept. epoxide	1.7782	1.219	12460.8	1.873	BB	0.021	9734.98	1.687
48	4.631		0.0000	0.000	6088.4	0.915	BB	0.020	5108.42	0.885
49	4.687	o,p-DDE	0.4953	0.339	1139.6	0.171	BB	0.015	1285.70	0.223
50	4.743		0.0000	0.000	9646.6	1.450	BV	0.020	8192.28	1.420
51	4.777	g. Chlordane	12.9490	8.875	74990.1	11.269	VV	0.019	65668.70	11.379
52	4.835	a. Chlordane	15.2991	10.486	88345.9	13.276	VB	0.020	73494.34	12.735
53	4.905		0.0000	0.000	993.8	0.149	BB	0.022	751.57	0.130
54	4.957	4,4'-DDE	0.1405	0.096	453.3	0.068	BB	0.016	475.58	0.082
55	5.016	o,p-DDD	2.0161	1.382	7158.5	1.076	BV	0.029	4058.85	0.703
56	5.082	Dieldrin	0.7239	0.496	4746.9	0.713	VB	0.022	3550.10	0.615
57	5.138		0.0000	0.000	1374.0	0.206	BV	0.033	686.27	0.119
58	5.212		0.0000	0.000	4801.2	0.721	VB	0.027	2934.89	0.509
59	5.280	o,p-DDT	0.4469	0.306	887.6	0.133	BV	0.020	748.93	0.130
60	5.335		0.0000	0.000	9092.9	1.366	VV	0.022	6753.39	1.170
61	5.372	4,4'-DDD	1.1199	0.768	3439.7	0.517	VV	0.022	2600.73	0.451
62	5.409		0.0000	0.000	1300.3	0.195	VV	0.022	993.89	0.172

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PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.439	Endosulfan II	0.2752	0.189	1230.8	0.185	VV	0.021	967.83	0.168
64	5.486	Kepone	16.3548	11.209	17881.9	2.687	VB	0.025	11737.08	2.034
65	5.612	4,4'-DDT	1.5942	1.093	273.9	0.041	BB	0.030	153.33	0.027
66	5.703	Endo. sulfate	1.5318	1.050	635.5	0.095	BV	0.022	479.95	0.083
67	5.742		0.0000	0.000	2952.4	0.444	VV	0.026	1907.79	0.331
68	5.777		0.0000	0.000	1244.1	0.187	VV	0.041	511.92	0.089
69	5.894		0.0000	0.000	1478.6	0.222	VV	0.036	687.46	0.119
70	5.953	Methoxychlor	0.3647	0.250	1650.7	0.248	VV	0.080	344.01	0.060
71	6.090	Endrin ketone	0.1342	0.092	2087.7	0.314	VB	0.082	425.59	0.074
72	6.217		0.0000	0.000	614.0	0.092	BB	0.031	330.93	0.057
73	6.270		0.0000	0.000	182.5	0.027	BB	0.018	168.50	0.029
74	6.299		0.0000	0.000	186.8	0.028	BB	0.017	178.62	0.031
75	6.430	Mirex	0.1975	0.135	559.2	0.084	BB	0.022	416.28	0.072
76	6.582		0.0000	0.000	155.3	0.023	BB	0.035	74.73	0.013
77	6.664		0.0000	0.000	55.7	0.008	BB	0.020	45.45	0.008
78	6.745		0.0000	0.000	66.1	0.010	BB	0.024	45.53	0.008
79	6.873		0.0000	0.000	511.1	0.077	BB	0.023	371.39	0.064
80	7.034	DCB	43.4542	29.782	102581.1	15.415	BB	0.029	58449.63	10.128
81	7.419		0.0000	0.000	95.0	0.014	BB	0.026	62.08	0.011

Total Area = 665458.1, Total Amount = 145.906, Total Height = 577123.1, Sample Units = PPB

USF03 1754

Sample Name: **CHLD31124A AACHLD3AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 09:38:40pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.26R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.043		0.0000	0.000	1288.5	0.097	BV	0.027	801.25	0.078
2	2.174		0.0000	0.000	5994.6	0.449	VV	0.109	917.08	0.089
3	2.203		0.0000	0.000	1570.4	0.118	VV	0.016	1613.36	0.157
4	2.219		0.0000	0.000	4014.7	0.301	VV	0.030	2198.14	0.213
5	2.283		0.0000	0.000	1678.5	0.126	VV	0.034	826.31	0.080
6	2.318		0.0000	0.000	1593.4	0.119	VV	0.030	871.31	0.085
7	2.356		0.0000	0.000	2437.0	0.183	VV	0.036	1138.37	0.110
8	2.428		0.0000	0.000	925.9	0.069	VB	0.023	679.96	0.066
9	2.461		0.0000	0.000	448.1	0.034	BV	0.016	478.53	0.046
10	2.486		0.0000	0.000	1161.3	0.087	VV	0.044	440.96	0.043
11	2.545		0.0000	0.000	682.5	0.051	VV	0.034	336.94	0.033
12	2.638		0.0000	0.000	1374.8	0.103	VB	0.068	338.24	0.033
13	2.701		0.0000	0.000	171.1	0.013	BB	0.024	116.93	0.011
14	2.736		0.0000	0.000	2387.9	0.179	BB	0.034	1170.79	0.114
15	2.821		0.0000	0.000	1425.8	0.107	BB	0.034	707.18	0.069
16	2.876		0.0000	0.000	495.8	0.037	BB	0.015	538.84	0.052
17	2.916		0.0000	0.000	187.1	0.014	BB	0.017	178.24	0.017
18	2.956	TCX	44.1513	34.176	350746.9	26.297	BB	0.015	387199.30	37.564
19	3.089		0.0000	0.000	455.1	0.034	BB	0.020	387.29	0.038
20	3.131		0.0000	0.000	203.2	0.015	BB	0.018	187.85	0.018
21	3.184		0.0000	0.000	5027.0	0.377	BB	0.017	5003.52	0.485
22	3.227		0.0000	0.000	3559.6	0.267	BV	0.015	3846.90	0.373
23	3.266	HCB	0.1700	0.132	2420.9	0.182	VV	0.017	2341.83	0.227
24	3.306	alpha-BHC	0.0773	0.060	1355.9	0.102	VV	0.020	1121.88	0.109
25	3.343		0.0000	0.000	1133.2	0.085	VV	0.030	632.86	0.061
26	3.380		0.0000	0.000	669.0	0.050	VB	0.019	579.34	0.056
27	3.441		0.0000	0.000	1895.7	0.142	BV	0.030	1053.99	0.102
28	3.471		0.0000	0.000	7884.1	0.591	VV	0.022	5985.51	0.581
29	3.517	gamma-BHC	0.0978	0.076	2771.9	0.208	VV	0.036	1277.85	0.124
30	3.561		0.0000	0.000	4035.9	0.303	VV	0.018	3672.38	0.356
31	3.603		0.0000	0.000	2539.7	0.190	VV	0.025	1681.37	0.163
32	3.641	——	0.0000	0.000	34416.9	2.580	VV	0.016	35103.09	3.406
33	3.677		0.0000	0.000	3668.9	0.275	VV	0.018	3470.76	0.337
34	3.719	beta-BHC	0.5933	0.459	3184.4	0.239	VV	0.017	3148.81	0.305
35	3.754	Heptachlor ——	4.4125	3.416	42887.9	3.215	VV	0.017	42260.89	4.100
36	3.790		0.0000	0.000	2257.8	0.169	VV	0.016	2357.68	0.229
37	3.815		0.0000	0.000	6993.0	0.524	VB	0.019	6013.37	0.583
38	3.872	delta-BHC	0.2979	0.231	3630.2	0.272	BB	0.017	3547.81	0.344
39	3.944	Aldrin	0.2991	0.232	3369.0	0.253	BB	0.022	2595.83	0.252
40	3.990		0.0000	0.000	2820.6	0.211	BV	0.015	3161.66	0.307
41	4.013	Telodrin ——	3.4650	2.682	35420.7	2.656	VV	0.022	26399.42	2.561
42	4.088		0.0000	0.000	3084.2	0.231	VV	0.020	2607.27	0.253
43	4.114		0.0000	0.000	11369.9	0.852	VV	0.022	8731.33	0.847
44	4.146		0.0000	0.000	5459.0	0.409	VV	0.022	4059.00	0.394
45	4.178		0.0000	0.000	2547.7	0.191	VB	0.021	1979.89	0.192
46	4.243		0.0000	0.000	7134.9	0.535	BV	0.021	5535.01	0.537
47	4.305		0.0000	0.000	54051.8	4.053	VV	0.038	23831.57	2.312
48	4.372	o,p-DDE	1.7976	1.391	13896.0	1.042	VV	0.024	9493.33	0.921
49	4.447	g. Chlordane ——	11.6793	9.041	197456.1	14.804	VV	0.034	96574.16	9.369
50	4.490	a. Chlordane ——	9.4303	7.300	88077.4	6.604	VV	0.022	67571.20	6.555
51	4.576		0.0000	0.000	7782.7	0.584	VB	0.037	3532.21	0.343
52	4.648		0.0000	0.000	5030.5	0.377	BV	0.033	2540.51	0.246
53	4.678		0.0000	0.000	9094.8	0.682	VV	0.023	6510.22	0.632
54	4.711	Dieldrin	0.9656	0.747	12728.6	0.954	VV	0.028	7686.51	0.746
55	4.768		0.0000	0.000	4147.8	0.311	VV	0.026	2660.08	0.258
56	4.834		0.0000	0.000	3624.4	0.272	VB	0.034	1766.68	0.171
57	4.889		0.0000	0.000	3096.1	0.232	BV	0.025	2061.25	0.200
58	4.934	Endrin	0.4474	0.346	5385.4	0.404	VV	0.030	2958.62	0.287
59	4.975		0.0000	0.000	19071.7	1.430	VB	0.027	11739.89	1.139
60	5.036	Kepone	2.3255	1.800	1136.4	0.085	BB	0.018	1072.33	0.104
61	5.070		0.0000	0.000	202.3	0.015	BB	0.011	310.83	0.030
62	5.105		0.0000	0.000	2088.2	0.157	BV	0.021	1663.69	0.161

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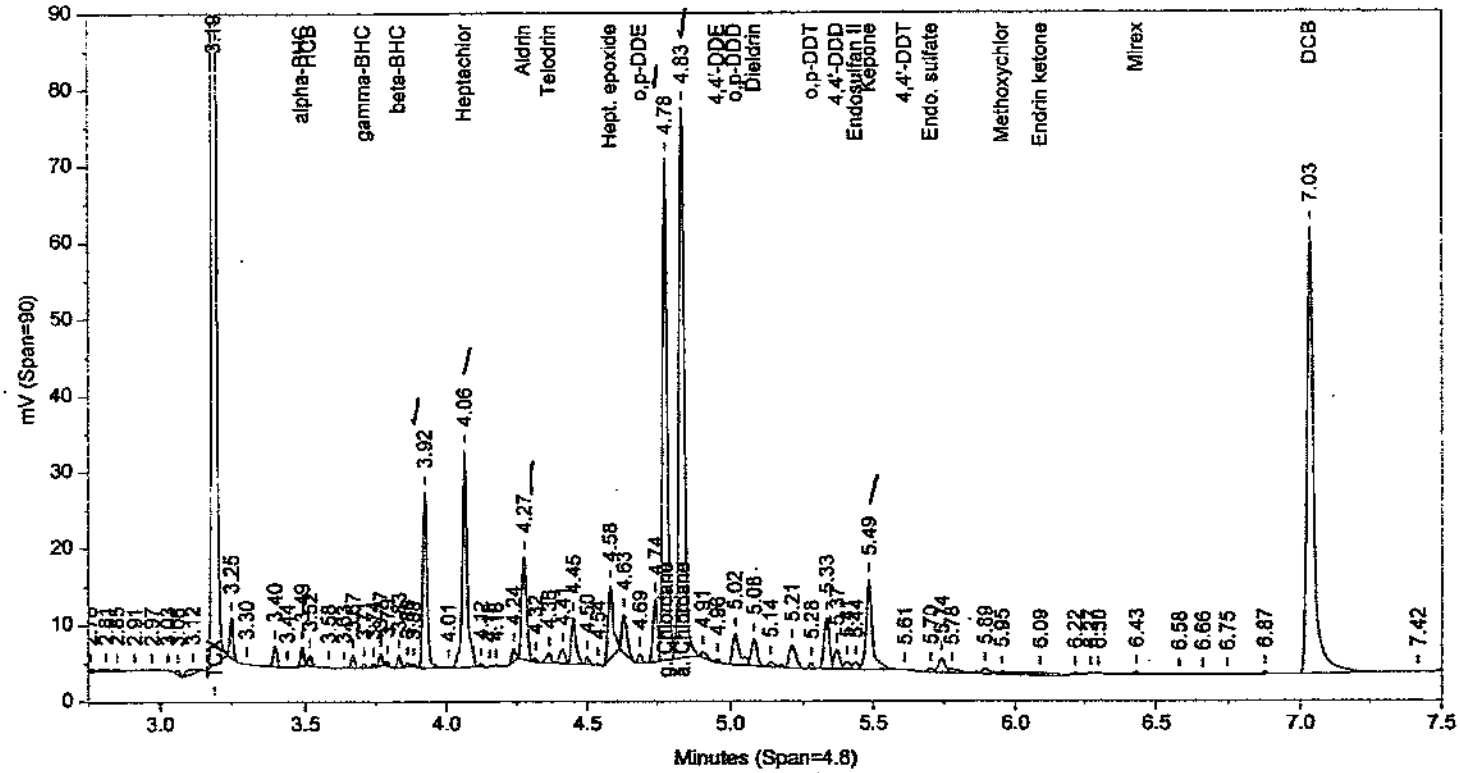
PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.131		0.0000	0.000	2125.7	0.159	VV	0.020	1764.47	0.171
64	5.164	Endosulfan II	3.7044	2.867	28195.3	2.114	VV	0.021	22102.14	2.144
65	5.233	4,4'-DDT	0.0645	0.050	598.4	0.045	VV	0.028	350.29	0.034
66	5.314	Endrin aldehyde	0.0688	0.053	349.1	0.026	VB	0.018	318.55	0.031
67	5.408		0.0000	0.000	5732.6	0.430	BB	0.029	3311.98	0.321
68	5.460	Endo. sulfate	0.0458	0.035	141.3	0.011	BB	0.011	223.54	0.022
69	5.503		0.0000	0.000	1095.2	0.082	BV	0.025	721.99	0.070
70	5.572		0.0000	0.000	671.7	0.050	VV	0.022	504.99	0.049
71	5.597		0.0000	0.000	702.8	0.053	VV	0.023	503.26	0.049
72	5.631		0.0000	0.000	1210.0	0.091	VV	0.023	874.86	0.085
73	5.656	Methoxychlor	0.8766	0.679	4811.3	0.361	VV	0.047	1712.24	0.166
74	5.787		0.0000	0.000	3467.4	0.260	VV	0.038	1538.77	0.149
75	5.823		0.0000	0.000	3924.6	0.294	VV	0.044	1485.13	0.144
76	5.875	Endrin ketone	0.3054	0.236	4018.6	0.301	VV	0.035	1887.75	0.183
77	5.940		0.0000	0.000	14689.4	1.101	VB	0.086	2849.30	0.276
78	6.054		0.0000	0.000	4537.3	0.340	BV	0.031	2463.96	0.239
79	6.099		0.0000	0.000	5263.9	0.395	VV	0.041	2165.45	0.210
80	6.157		0.0000	0.000	6034.0	0.452	VV	0.058	1738.23	0.169
81	6.209		0.0000	0.000	5487.5	0.411	VV	0.055	1675.13	0.163
82	6.277		0.0000	0.000	5078.6	0.381	VV	0.053	1611.59	0.156
83	6.350		0.0000	0.000	6042.1	0.453	VV	0.064	1573.56	0.153
84	6.471		0.0000	0.000	8580.8	0.643	VV	0.059	2425.85	0.235
85	6.632	DCB	43.9126	33.991	207681.0	15.571	VV	0.022	154176.00	14.957
86	6.921		0.0000	0.000	2384.7	0.179	VV	0.076	520.05	0.050
87	6.982		0.0000	0.000	1497.0	0.112	VV	0.051	493.33	0.048
88	7.047		0.0000	0.000	1314.5	0.099	VV	0.065	338.24	0.033
89	7.157		0.0000	0.000	186.0	0.014	VB	0.047	66.50	0.006
90	7.326		0.0000	0.000	317.5	0.024	BB	0.050	106.88	0.010

Total Area = 1333789.0, Total Amount = 129.188, Total Height = 1030773.0, Sample Units = PPB

USF03 1756

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.26R
CHLD31124A AACHLD3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.26R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 9:31:10 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.26R
CHLD31124A AACHLD3AA ICAL 1119299999
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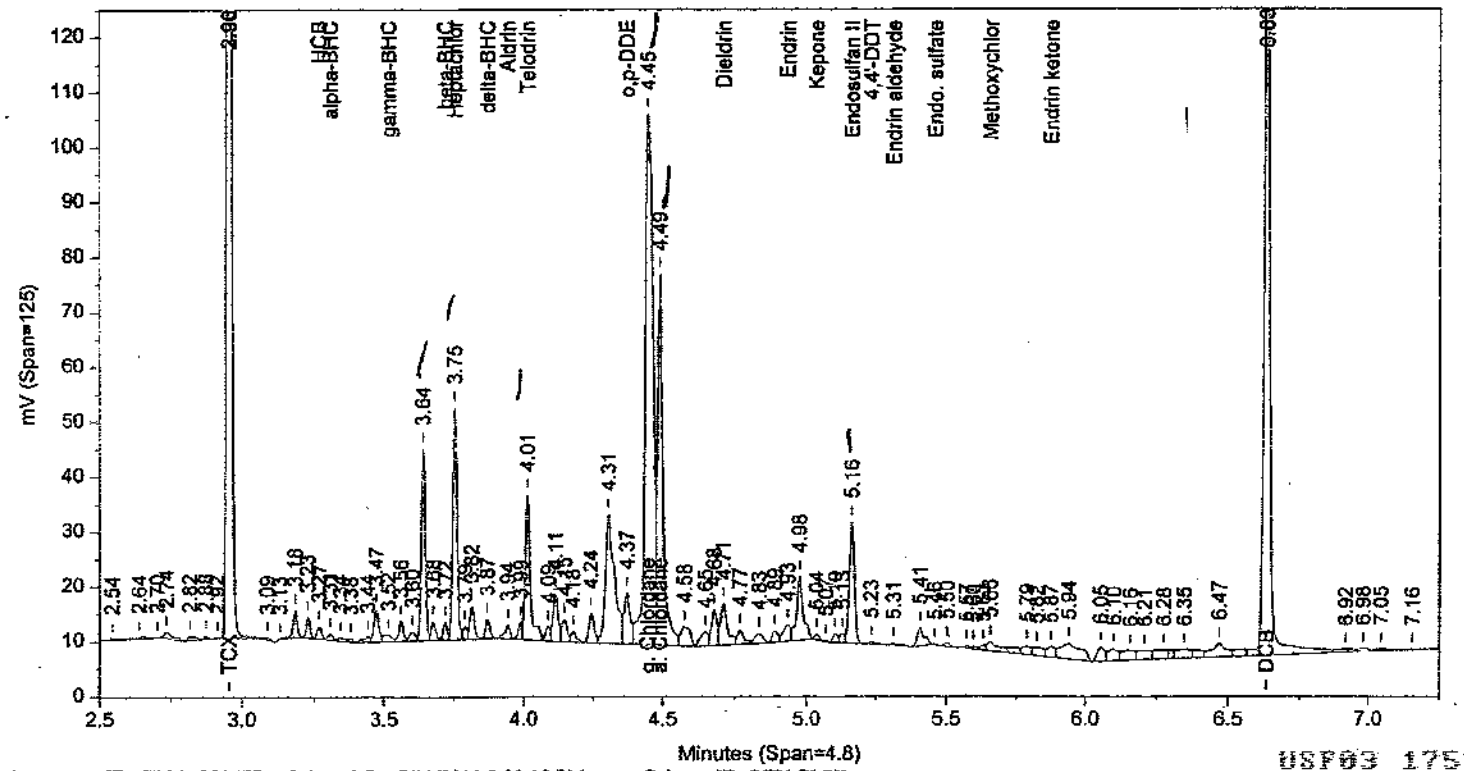


Instrument ID: CP06--S9147B Injected On: 7/12/2011 9:31:10 PM Column ID: RTX CLPH

USP03 1757

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Multiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.191	205274	39.05639	TCX	2.956	387199	44.15134	TCX
3.516	1355	.22843	HCB	3.266	2342	.16999	HCB
3.49	2569	.26024	alpha-BHC	3.306	1122	.0773	alpha-BHC
3.706	582	.06962	gamma-BHC	3.517	1278	.09776	gamma-BHC
3.834	1647	.55641	beta-BHC	3.719	3149	.59326	beta-BHC
4.064	28682	4.32584	Heptachlor	3.754	42261	4.41253	Heptachlor
.	0	.	delta-BHC	3.872	3548	.29789	delta-BHC
4.274	13529	2.00279	Aldrin	3.944	2596	.29913	Aldrin
4.363	1351	.53078	Telodrin	4.013	26399	3.46504	Telodrin
4.687	1286	.49533	o,p-DDE	4.372	9493	1.79756	o,p-DDE
4.777	65669	12.94901	g. Chlordane	4.447	96574	11.67931	g. Chlordane
4.835	73494	15.29908	a. Chlordane	4.49	67571	9.43032	a. Chlordane
4.581	9735	1.77818	Hept. epoxide	.	0	.	Hept. epoxide
5.082	3550	.72395	Dieldrin	4.711	7687	.96564	Dieldrin
.	0	.	Endrin	4.934	2959	.44742	Endrin
4.957	476	.14053	4,4'-DDE	.	0	.	4,4'-DDE
5.016	4059	2.01607	o,p-DDD	.	0	.	o,p-DDD
5.486	11737	16.35479	Kepone	5.036	1072	2.32545	Kepone
5.439	968	.27521	Endosulfan II	5.164	22102	3.70435	Endosulfan II
5.612	153	1.59424	4,4'-DDT	5.233	350	.06449	4,4'-DDT
5.28	749	.44689	o,p-DDT	.	0	.	o,p-DDT
.	0	.	Endrin aldehyde	5.314	319	.06878	Endrin aldehyde
5.372	2601	1.11989	4,4'-DDD	.	0	.	4,4'-DDD
5.703	480	1.53179	Endo. sulfate	5.46	224	.0458	Endo. sulfate
5.953	344	.36468	Methoxychlor	5.656	1712	.87656	Methoxychlor
6.09	426	.13424	Endrin ketone	5.875	1888	.30542	Endrin ketone
6.43	416	.19749	Mirex	.	0	.	Mirex
7.034	58450	43.4542	DCB	6.632	154176	43.91262	DCB

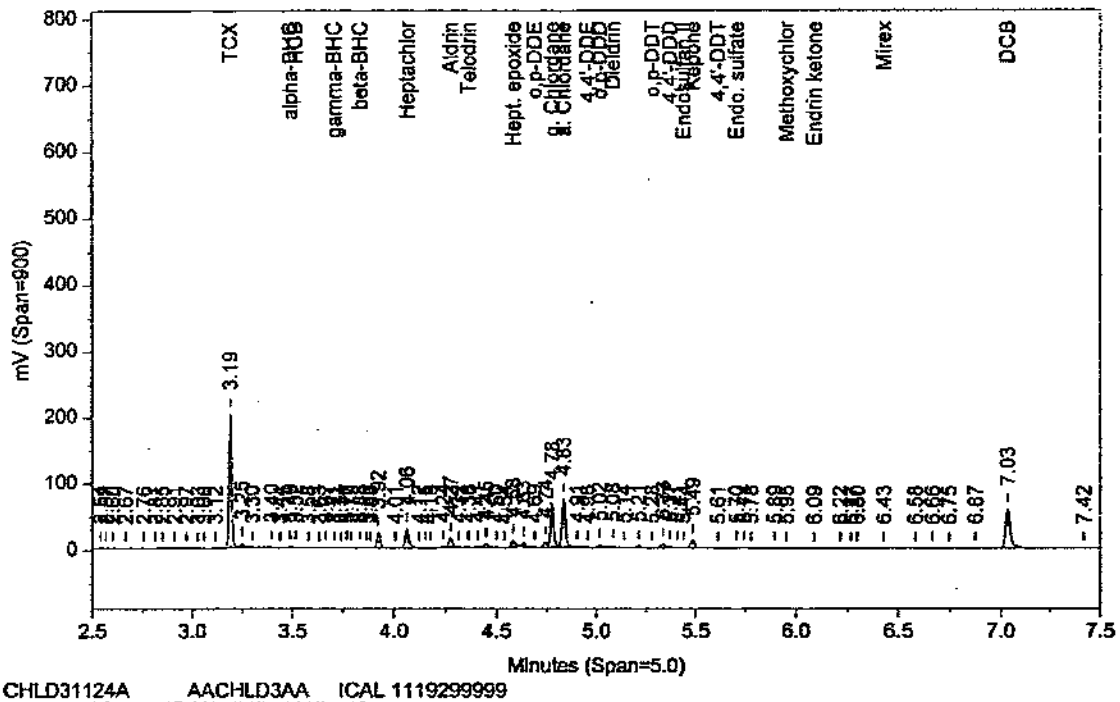
Files:
Area File: C:\CPWIN\DATA1\1P6193.26A
Area File: C:\CPWIN\DATA1\1P6193B.26A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 9:38:48 PM
File Reported On: 7/12/2011 at 9:38:57 PM

USF03 1759

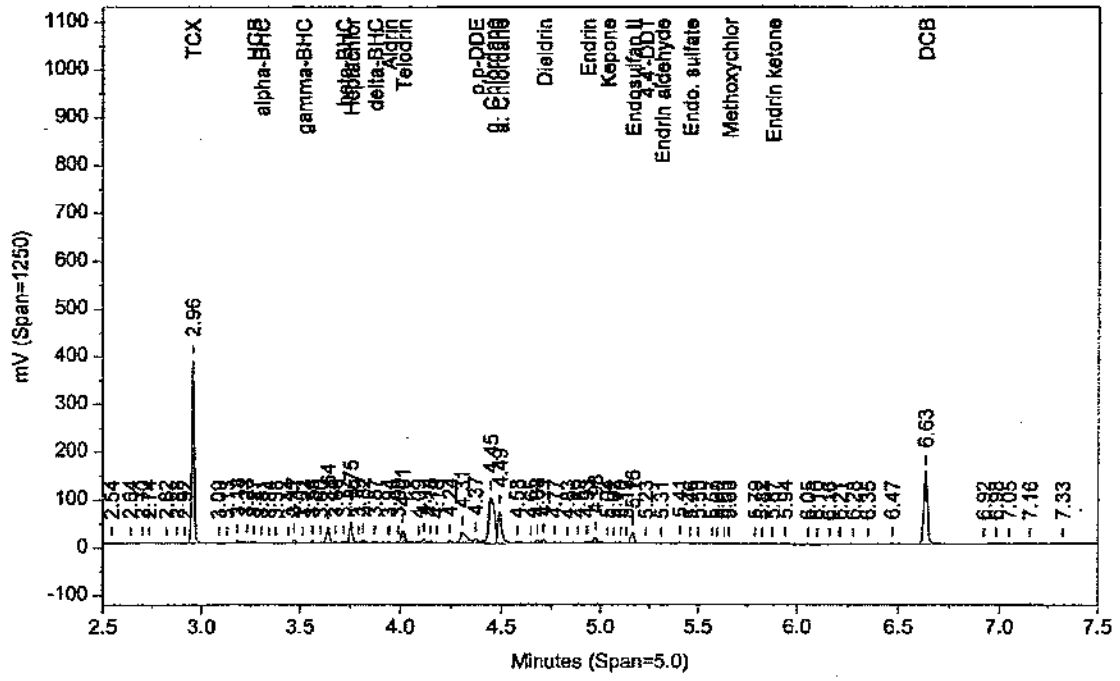
Files:

REPLOTS

CHLD31124A AACHLD3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193.26R



CHLD31124A AACHLD3AA ICAL 1119299999
C:\CPWIN\DATA1\1P6193B.26R



USFW3 1759

Sample Name: **CHLD41124A AACHLD4AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 09:51:22pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.27R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.321		0.0000	0.000	546.7	0.045	BB	0.029	316.73	0.029
2	2.396		0.0000	0.000	1769.0	0.145	BV	0.050	591.01	0.055
3	2.450		0.0000	0.000	2964.0	0.243	VV	0.031	1618.08	0.150
4	2.493		0.0000	0.000	1272.1	0.104	VV	0.039	549.02	0.051
5	2.540		0.0000	0.000	1696.8	0.139	VV	0.021	1333.34	0.123
6	2.567		0.0000	0.000	1096.1	0.090	VV	0.020	907.27	0.084
7	2.600		0.0000	0.000	1272.0	0.104	VB	0.031	677.47	0.063
8	2.660		0.0000	0.000	773.0	0.063	BB	0.040	320.78	0.030
9	2.796		0.0000	0.000	201.3	0.016	BV	0.030	111.85	0.010
10	2.845		0.0000	0.000	234.3	0.019	VB	0.028	137.00	0.013
11	2.951		0.0000	0.000	159.0	0.013	BV	0.050	52.97	0.005
12	2.969		0.0000	0.000	78.5	0.006	VB	0.015	88.46	0.008
13	3.025		0.0000	0.000	244.4	0.020	BB	0.015	263.66	0.024
14	3.061		0.0000	0.000	289.9	0.024	BB	0.013	368.57	0.034
15	3.113		0.0000	0.000	1515.4	0.124	BB	0.049	518.29	0.048
16	3.188 TCX		62.7057	24.690	285137.9	23.337	BB	0.014	329571.00	30.518
17	3.246		0.0000	0.000	9781.5	0.801	BB	0.013	12479.21	1.156
18	3.394		0.0000	0.000	3949.5	0.323	BB	0.015	4280.69	0.396
19	3.434		0.0000	0.000	351.0	0.029	BB	0.030	193.82	0.018
20	3.487 alpha-BHC		0.5108	0.201	4107.9	0.336	BB	0.014	5042.70	0.467
21	3.513 HCB		0.4663	0.184	2454.4	0.201	BB	0.015	2766.59	0.256
22	3.579		0.0000	0.000	109.5	0.009	BB	0.012	155.97	0.014
23	3.631		0.0000	0.000	79.0	0.006	BB	0.012	113.62	0.011
24	3.663		0.0000	0.000	2659.2	0.218	BB	0.014	3061.41	0.283
25	3.703 gamma-BHC		0.1609	0.063	1107.6	0.091	BB	0.014	1345.62	0.125
26	3.738		0.0000	0.000	941.3	0.077	BB	0.014	1138.71	0.105
27	3.764		0.0000	0.000	2503.6	0.205	BB	0.013	3157.44	0.292
28	3.787		0.0000	0.000	720.8	0.059	BB	0.011	1054.91	0.098
29	3.830 beta-BHC		1.2053	0.475	3064.0	0.251	BB	0.014	3568.09	0.330
30	3.861		0.0000	0.000	2157.6	0.177	BB	0.026	1363.13	0.126
31	3.921		0.0000	0.000	50936.8	4.169	BB	0.016	51493.30	4.768
32	4.004 delta-BHC		0.0785	0.031	610.8	0.050	BB	0.019	528.56	0.049
33	4.061 Heptachlor		9.7778	3.850	74433.4	6.092	BB	0.019	64831.47	6.003
34	4.120		0.0000	0.000	979.1	0.080	BB	0.014	1168.57	0.108
35	4.150		0.0000	0.000	214.8	0.018	BB	0.012	293.85	0.027
36	4.173		0.0000	0.000	600.5	0.049	BB	0.018	556.83	0.052
37	4.235		0.0000	0.000	3106.1	0.254	BB	0.016	3163.65	0.293
38	4.271		0.0000	0.000	35236.3	2.884	BB	0.020	28995.65	2.685
39	4.313 Aldrin		0.1770	0.070	880.3	0.072	BB	0.012	1195.66	0.111
40	4.360 Telodrin		0.9862	0.388	3265.1	0.267	BB	0.022	2510.04	0.232
41	4.408		0.0000	0.000	5008.5	0.410	BB	0.024	3463.36	0.321
42	4.447		0.0000	0.000	14139.5	1.157	BB	0.019	12441.62	1.152
43	4.496		0.0000	0.000	1592.9	0.130	BB	0.014	1850.10	0.171
44	4.535		0.0000	0.000	689.0	0.056	BB	0.015	770.81	0.071
45	4.579 Hept. epoxide		4.0353	1.589	28102.4	2.300	BB	0.021	22092.16	2.046
46	4.628		0.0000	0.000	12958.8	1.061	BB	0.020	10934.41	1.013
47	4.684 o,p-DDE		0.9514	0.375	2265.7	0.185	BB	0.015	2469.58	0.229
48	4.740		0.0000	0.000	20567.5	1.683	BV	0.019	18047.00	1.671
49	4.774 g. Chlordane		27.7078	10.910	162379.6	13.290	VV	0.019	140515.40	13.011
50	4.832 a. Chlordane		32.0767	12.630	184184.0	15.075	VB	0.020	154091.30	14.269
51	4.903 Endosulfan I		0.3511	0.138	2079.3	0.170	BB	0.023	1538.21	0.142
52	4.953 4,4'-DDE		0.2798	0.110	987.6	0.081	BB	0.017	946.73	0.088
53	5.013		0.0000	0.000	12289.5	1.006	BV	0.024	8574.11	0.794
54	5.046 o,p-DDD		1.2049	0.474	2983.7	0.244	VV	0.021	2425.71	0.225
55	5.079 Dieldrin		1.6142	0.636	10852.0	0.888	VV	0.023	7915.88	0.733
56	5.134		0.0000	0.000	4256.1	0.348	VV	0.038	1880.56	0.174
57	5.210		0.0000	0.000	10778.6	0.882	VB	0.030	6082.94	0.563
58	5.278 o,p-DDT		0.7024	0.277	1629.0	0.133	BV	0.023	1177.09	0.109
59	5.332		0.0000	0.000	18789.7	1.538	VV	0.022	14347.67	1.329
60	5.369 4,4'-DDD		2.2096	0.870	7194.5	0.589	VV	0.023	5131.29	0.475
61	5.405		0.0000	0.000	3142.9	0.257	VV	0.021	2450.91	0.227
62	5.435 Endosulfan II		0.5963	0.235	2742.9	0.224	VV	0.022	2096.87	0.194

USF03 1768

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.483	Kepone	35.1511	13.840	38069.1	3.116	VB	0.024	26109.77	2.418
64	5.610	4,4'-DDT	1.6462	0.648	545.3	0.045	BB	0.030	305.56	0.028
65	5.700	Endo. sulfate	1.6435	0.647	1090.3	0.089	BV	0.021	849.84	0.079
66	5.740		0.0000	0.000	5552.7	0.454	VV	0.024	3864.40	0.358
67	5.776		0.0000	0.000	512.2	0.042	VB	0.016	533.60	0.049
68	5.853		0.0000	0.000	197.2	0.016	BV	0.020	165.79	0.015
69	5.892		0.0000	0.000	1381.9	0.113	VV	0.023	1021.76	0.095
70	5.949	Methoxychlor	0.3334	0.131	561.0	0.046	VB	0.030	314.53	0.029
71	6.086	Endrin ketone	0.1064	0.042	738.0	0.060	BB	0.036	337.39	0.031
72	6.215		0.0000	0.000	1409.1	0.115	BB	0.033	721.27	0.067
73	6.266		0.0000	0.000	368.6	0.030	BB	0.017	360.38	0.033
74	6.296		0.0000	0.000	385.1	0.032	BB	0.016	404.24	0.037
75	6.428	Mirex	0.3172	0.125	948.9	0.078	BB	0.024	668.53	0.062
76	6.493		0.0000	0.000	67.6	0.006	BB	0.018	61.57	0.006
77	6.592		0.0000	0.000	162.6	0.013	BB	0.038	71.00	0.007
78	6.666		0.0000	0.000	107.7	0.009	BB	0.021	87.31	0.008
79	6.747		0.0000	0.000	216.1	0.018	BB	0.035	103.17	0.010
80	6.872		0.0000	0.000	1001.9	0.082	BB	0.028	604.81	0.056
81	7.033	DCB	66.9785	26.372	155179.9	12.701	BB	0.029	90091.85	8.342
82	7.376		0.0000	0.000	59.4	0.005	BB	0.027	37.18	0.003
83	7.416		0.0000	0.000	141.4	0.012	BB	0.026	92.05	0.009

Total Area = 1221810.0, Total Amount = 253.974, Total Height = 1079935.0, Sample Units = PPB

USF03 1761

Sample Name: **CHLD41124A AACHLD4AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 09:51:22pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.27R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.039		0.0000	0.000	826.9	0.037	BB	0.021	646.45	0.038
2	2.164		0.0000	0.000	5240.5	0.233	BV	0.089	979.10	0.057
3	2.216		0.0000	0.000	7423.0	0.330	VV	0.040	3086.64	0.180
4	2.280		0.0000	0.000	1523.2	0.068	VV	0.025	1023.36	0.060
5	2.311		0.0000	0.000	2711.1	0.120	VV	0.039	1157.05	0.068
6	2.353		0.0000	0.000	4658.6	0.207	VV	0.047	1653.07	0.096
7	2.425		0.0000	0.000	1906.3	0.085	VB	0.025	1273.59	0.074
8	2.486		0.0000	0.000	3618.4	0.161	BV	0.080	750.74	0.044
9	2.577		0.0000	0.000	954.0	0.042	VV	0.044	357.35	0.021
10	2.612		0.0000	0.000	497.8	0.022	VV	0.025	335.21	0.020
11	2.657		0.0000	0.000	598.0	0.027	VV	0.053	186.52	0.011
12	2.706		0.0000	0.000	124.1	0.006	VB	0.049	41.84	0.002
13	2.733		0.0000	0.000	3269.1	0.145	BB	0.040	1362.14	0.079
14	2.828		0.0000	0.000	1933.6	0.086	BB	0.037	860.79	0.050
15	2.873		0.0000	0.000	187.4	0.008	BB	0.018	171.51	0.010
16	2.914		0.0000	0.000	136.0	0.006	BB	0.019	121.45	0.007
17	2.953 TCX		62.8519	30.507	511370.7	22.724	BB	0.015	551200.10	32.162
18	3.035		0.0000	0.000	1511.6	0.067	BB	0.091	275.72	0.016
19	3.152		0.0000	0.000	884.1	0.039	BB	0.034	434.84	0.025
20	3.181		0.0000	0.000	5726.5	0.254	BB	0.014	6722.99	0.392
21	3.224		0.0000	0.000	7207.3	0.320	BV	0.016	7692.66	0.449
22	3.263 HCB		0.3368	0.163	4867.4	0.216	VV	0.017	4639.59	0.271
23	3.303 alpha-BHC		0.1207	0.059	2170.0	0.096	VV	0.021	1751.28	0.102
24	3.340		0.0000	0.000	1423.9	0.063	VV	0.028	837.78	0.049
25	3.377		0.0000	0.000	1060.8	0.047	VB	0.020	898.20	0.052
26	3.438		0.0000	0.000	2690.3	0.120	BV	0.026	1718.84	0.100
27	3.469		0.0000	0.000	13802.8	0.613	VV	0.021	10827.72	0.632
28	3.514 gamma-BHC		0.1711	0.083	4560.7	0.203	VV	0.034	2237.09	0.131
29	3.559		0.0000	0.000	7368.0	0.327	VV	0.018	6987.59	0.408
30	3.600		0.0000	0.000	4276.8	0.190	VV	0.023	3103.94	0.181
31	3.638		0.0000	0.000	67694.2	3.008	VV	0.016	71539.84	4.174
32	3.674		0.0000	0.000	6230.0	0.277	VV	0.017	6200.96	0.362
33	3.715 beta-BHC		0.7274	0.353	3739.3	0.166	VV	0.016	3860.73	0.225
34	3.751 Heptachlor		9.1305	4.432	87237.5	3.877	VV	0.017	87447.11	5.102
35	3.787		0.0000	0.000	4305.5	0.191	VV	0.016	4524.23	0.264
36	3.812		0.0000	0.000	13234.7	0.588	VB	0.020	11270.91	0.658
37	3.869 delta-BHC		0.5665	0.275	7126.0	0.317	BB	0.018	6746.69	0.394
38	3.941 Aldrin		0.5725	0.278	6588.3	0.293	BB	0.022	4968.49	0.290
39	3.986		0.0000	0.000	5564.2	0.247	BV	0.015	6164.61	0.360
40	4.010 Telodrin		6.8051	3.303	70236.2	3.121	VV	0.023	51846.49	3.025
41	4.085		0.0000	0.000	6099.4	0.271	VV	0.020	5184.44	0.303
42	4.111		0.0000	0.000	22395.7	0.995	VV	0.021	17426.30	1.017
43	4.143		0.0000	0.000	10717.7	0.476	VV	0.023	7904.20	0.461
44	4.174		0.0000	0.000	5084.4	0.226	VB	0.021	3984.34	0.232
45	4.240		0.0000	0.000	13801.6	0.613	BV	0.022	10615.71	0.619
46	4.302		0.0000	0.000	109056.1	4.846	VV	0.038	47872.11	2.793
47	4.369 o,p-DDE		3.5522	1.724	27527.0	1.223	VV	0.024	18759.77	1.095
48	4.444 g. Chlordane		24.2633	11.777	396885.8	17.637	VV	0.033	200628.70	11.706
49	4.486 a. Chlordane		16.9101	8.208	161656.7	7.184	VV	0.022	121165.90	7.070
50	4.573		0.0000	0.000	15369.9	0.683	VB	0.036	7214.88	0.421
51	4.646		0.0000	0.000	9817.9	0.436	BV	0.032	5151.42	0.301
52	4.676		0.0000	0.000	18079.7	0.803	VV	0.023	12874.06	0.751
53	4.708 Dieldrin		2.0224	0.982	26169.5	1.163	VV	0.027	16098.42	0.939
54	4.765		0.0000	0.000	8339.7	0.371	VV	0.027	5166.13	0.301
55	4.831		0.0000	0.000	6988.5	0.311	VB	0.032	3597.83	0.210
56	4.885		0.0000	0.000	6173.7	0.274	BV	0.025	4173.35	0.244
57	4.931 Endrin		0.8918	0.433	9868.0	0.439	VV	0.028	5897.04	0.344
58	4.973		0.0000	0.000	39083.1	1.737	VB	0.028	23641.70	1.379
59	5.032 Kepone		3.0957	1.503	2107.3	0.094	BB	0.019	1862.99	0.109
60	5.067		0.0000	0.000	463.5	0.021	BB	0.011	697.75	0.041
61	5.103		0.0000	0.000	4341.8	0.193	BV	0.020	3566.53	0.208
62	5.127		0.0000	0.000	4584.3	0.204	VV	0.020	3832.86	0.224

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PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.160	Endosulfan II	7.7598	3.766	58438.8	2.597	VV	0.021	46299.13	2.701
64	5.231	4,4'-DDT	0.2269	0.110	3291.7	0.146	VV	0.045	1232.29	0.072
65	5.310	Endrin aldehyde	0.2545	0.124	1746.6	0.078	VV	0.025	1178.62	0.069
66	5.348		0.0000	0.000	590.6	0.026	VB	0.021	465.26	0.027
67	5.404		0.0000	0.000	11349.9	0.504	BB	0.029	6600.33	0.385
68	5.456	Endo. sulfate	0.0895	0.043	312.1	0.014	BB	0.012	436.82	0.025
69	5.500		0.0000	0.000	1589.7	0.071	BV	0.019	1380.94	0.081
70	5.569		0.0000	0.000	826.3	0.037	VV	0.021	669.54	0.039
71	5.593		0.0000	0.000	665.7	0.030	VV	0.019	598.71	0.035
72	5.626	Methoxychlor	0.5646	0.274	1932.2	0.086	VV	0.029	1102.87	0.064
73	5.677		0.0000	0.000	2229.2	0.099	VV	0.052	712.20	0.042
74	5.734		0.0000	0.000	2365.5	0.105	VV	0.042	948.05	0.055
75	5.786		0.0000	0.000	3612.6	0.161	VV	0.034	1784.64	0.104
76	5.820		0.0000	0.000	4410.2	0.196	VV	0.048	1524.99	0.089
77	5.871	Endrin ketone	0.2947	0.143	3383.8	0.150	VV	0.031	1821.31	0.106
78	5.937		0.0000	0.000	17025.6	0.757	VB	0.075	3801.44	0.222
79	6.051		0.0000	0.000	5609.1	0.249	BV	0.031	3035.29	0.177
80	6.097		0.0000	0.000	7030.2	0.312	VV	0.039	2970.78	0.173
81	6.156		0.0000	0.000	5262.5	0.234	VV	0.051	1704.15	0.099
82	6.216		0.0000	0.000	5354.6	0.238	VV	0.055	1617.47	0.094
83	6.273		0.0000	0.000	4680.8	0.208	VV	0.049	1591.34	0.093
84	6.302		0.0000	0.000	2459.8	0.109	VV	0.026	1550.07	0.090
85	6.348		0.0000	0.000	5146.9	0.229	VV	0.054	1599.46	0.093
86	6.390		0.0000	0.000	3465.0	0.154	VV	0.043	1349.92	0.079
87	6.468		0.0000	0.000	8481.3	0.377	VV	0.049	2910.86	0.170
88	6.541		0.0000	0.000	3278.7	0.146	VV	0.049	1121.13	0.065
89	6.630	DCB	64.8190	31.461	301739.0	13.409	VV	0.022	227577.80	13.279
90	6.924		0.0000	0.000	1417.4	0.063	VV	0.069	343.07	0.020
91	6.983		0.0000	0.000	664.2	0.030	VB	0.032	344.93	0.020
92	7.040		0.0000	0.000	93.5	0.004	BB	0.016	96.96	0.006
93	7.160		0.0000	0.000	383.3	0.017	BV	0.061	103.93	0.006
94	7.250		0.0000	0.000	126.7	0.006	VB	0.045	46.84	0.003
95	7.319		0.0000	0.000	82.9	0.004	BB	0.025	55.30	0.003
96	7.446		0.0000	0.000	201.1	0.009	BB	0.076	44.38	0.003

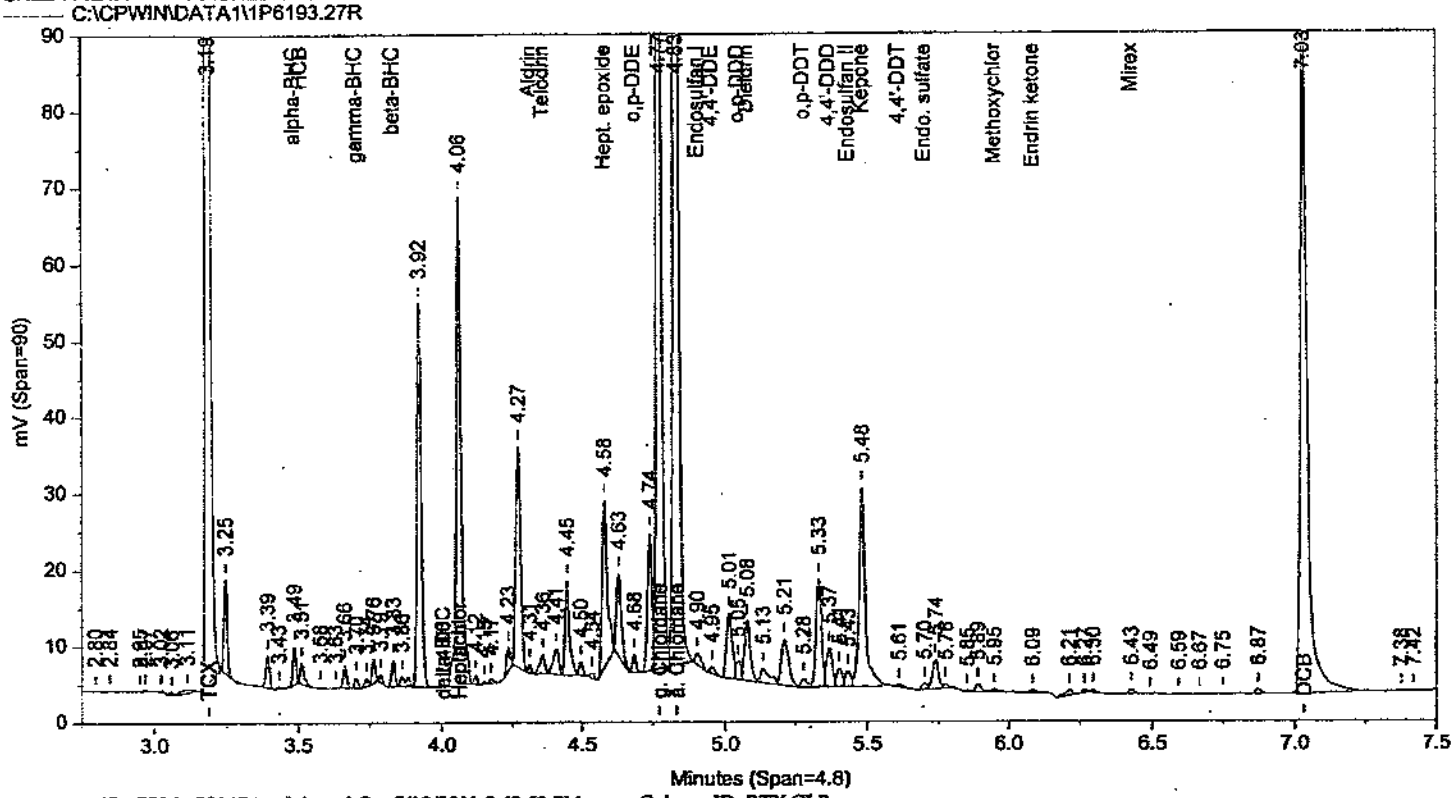
Total Area = 2250344.0, Total Amount = 206.027, Total Height = 1713842.0, Sample Units = PPB

USF03 1763

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.27R

CHLD41124A AACHLD4AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.27R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 9:43:52 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.27R

CHLD41124A AACHLD4AA ICAL 1119299999

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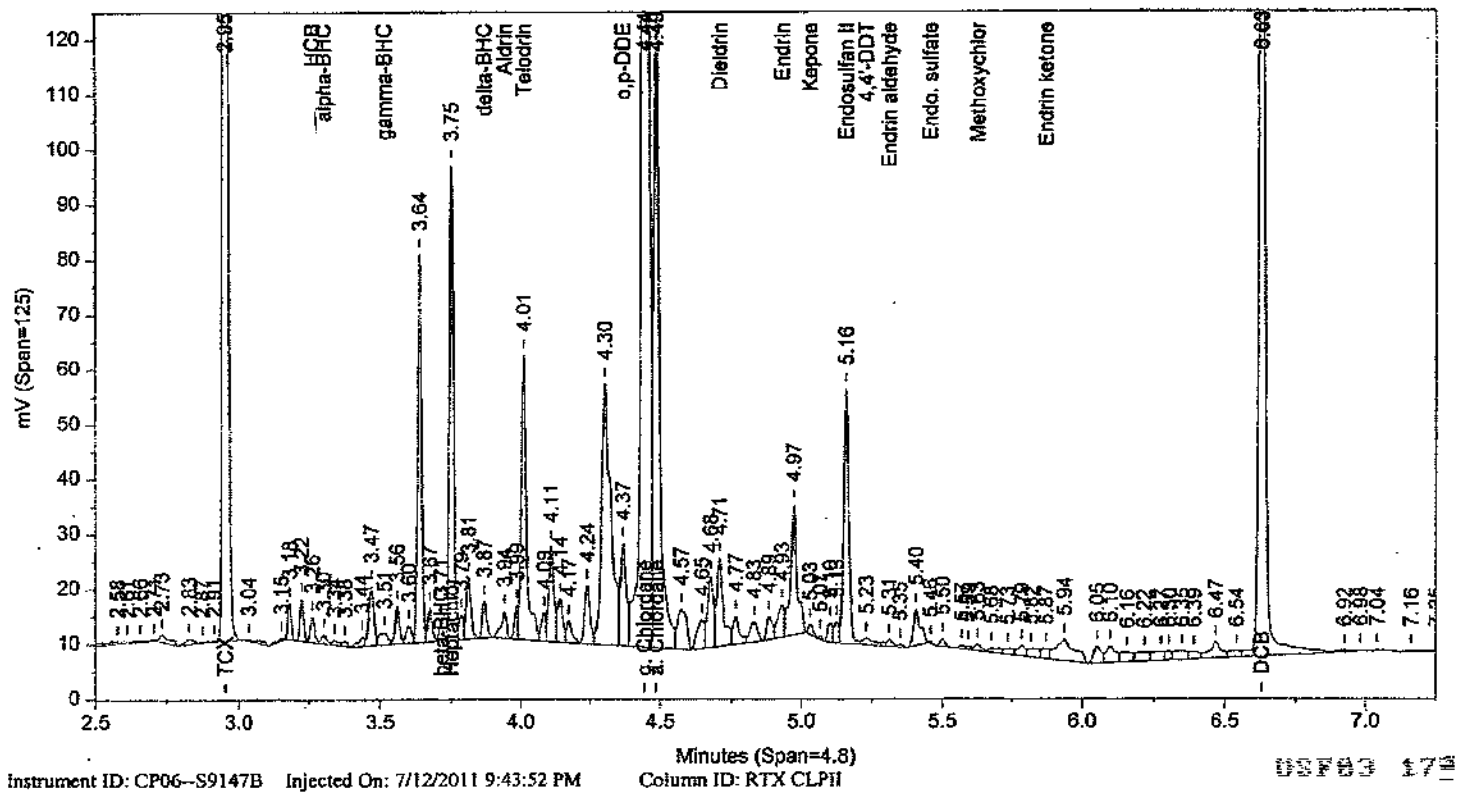

Instrument ID: CP06--S9147B Injected On: 7/12/2011 9:43:52 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Aldrin Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.188	329571	62.70573	TCX	2.953	551200	62.85192	TCX
3.513	2767	.46634	HCB	3.263	4640	.33678	HCB
3.487	5043	.51081	alpha-BHC	3.303	1751	.12066	alpha-BHC
3.703	1346	.16089	gamma-BHC	3.514	2237	.17114	gamma-BHC
3.83	3568	1.20512	beta-BHC	3.715	3861	.72739	beta-BHC
4.061	64831	9.77781	Heptachlor	3.751	87447	9.1305	Heptachlor
4.004	529	.07854	delta-BHC	3.869	6747	.56649	delta-BHC
4.313	1196	.177	Aldrin	3.941	4968	.57254	Aldrin
4.36	2510	.98617	Telodrin	4.01	51846	6.80507	Telodrin
4.684	2470	.95143	o,p-DDE	4.369	18760	3.55215	o,p-DDE
4.774	140515	27.7078	g. Chlordane	4.444	200629	24.26327	g. Chlordane
4.832	154091	32.07669	a. Chlordane	4.486	121166	16.91006	a. Chlordane
4.579	22092	4.03533	Hept. epoxide	.	0	.	Hept. epoxide
5.079	7916	1.61423	Dieldrin	4.708	16098	2.0224	Dieldrin
4.903	1538	.35109	Endosulfan I	.	0	.	Endosulfan I
.	0	.	Endrin	4.931	5897	.89178	Endrin
4.953	947	.27976	4,4'-DDE	.	0	.	4,4'-DDE
5.483	26110	35.15115	Kepone	5.032	1863	3.09573	Kepone
5.046	2426	1.20487	o,p-DDD	.	0	.	o,p-DDD
5.435	2097	.59626	Endosulfan II	5.16	46299	7.7598	Endosulfan II
5.61	306	1.64618	4,4'-DDT	5.231	1232	.22686	4,4'-DDT
5.278	1177	.70238	o,p-DDT	.	0	.	o,p-DDT
.	0	.	Endrin aldehyde	5.31	1179	.25447	Endrin aldehyde
5.369	5131	2.20956	4,4'-DDD	.	0	.	4,4'-DDD
5.7	850	1.6435	Endo. sulfate	5.456	437	.0895	Endo. sulfate
5.949	315	.33342	Methoxychlor	5.626	1103	.5646	Methoxychlor
6.086	337	.10642	Endrin ketone	5.871	1821	.29467	Endrin ketone
6.428	669	.31716	Mirex	.	0	.	Mirex
7.033	90092	66.97852	DCB	6.63	227578	64.81902	DCB

Files:
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Area File: C:\CPWIN\DATA1\1P6193B.27A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 9:51:28 PM
File Reported On: 7/12/2011 at 9:51:38 PM

USF83 1765

Files:

REPLOTS

CHLD41124A AACHLD4AA ICAL 1119299999
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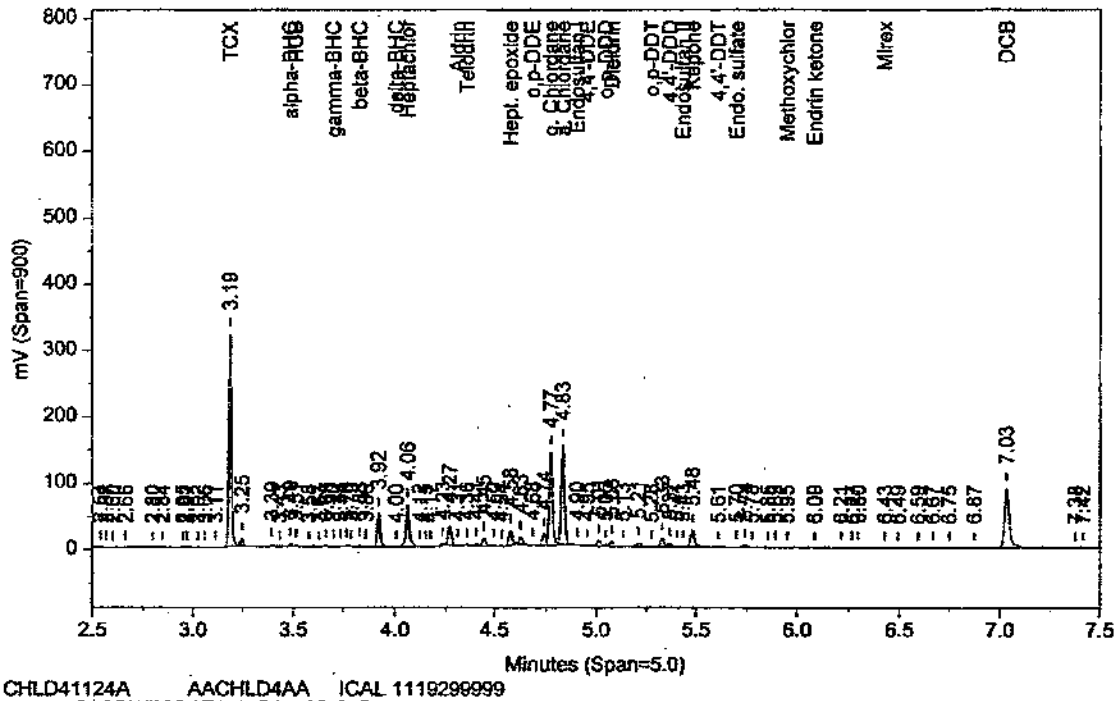

CHLD41124A AACHLD4AA ICAL 1119299999
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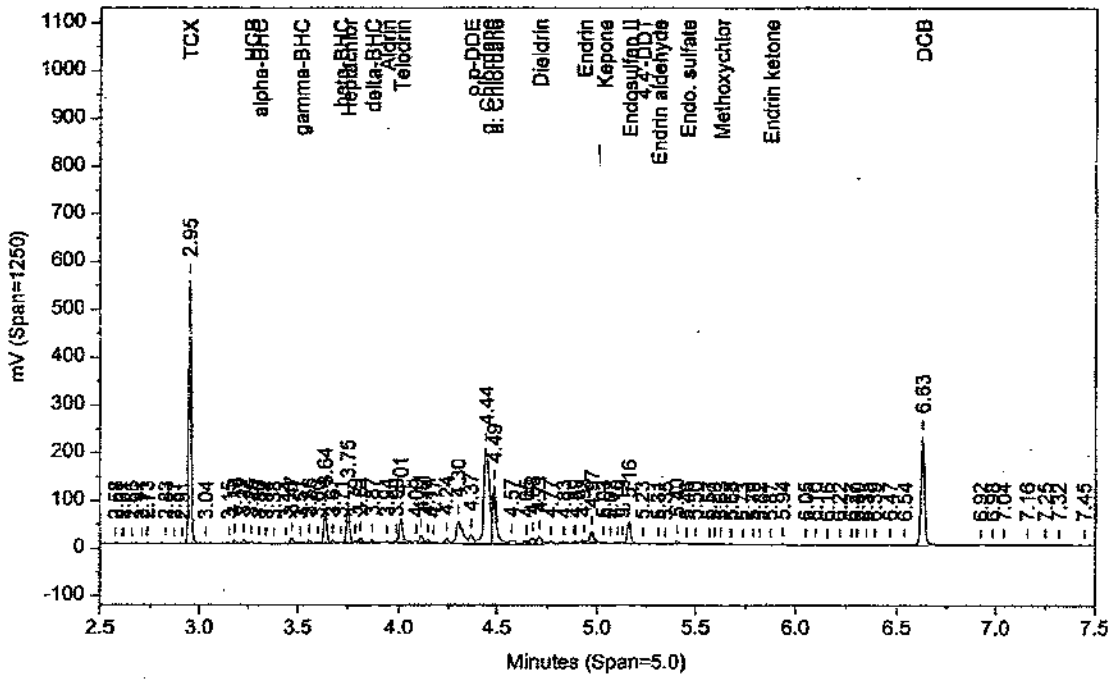

USF93 1765

Sample Name: **CHLD51124A AACHLD5AA ICAL 1119299999**
Acquired from CP06--S9147A via port 1 on 7/12/11 10:04:02pm by 120
RTX CLP
110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min hold 1
Data File: **C:\CPWIN\DATA1\1P6193.28R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P6193.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.329		0.0000	0.000	885.5	0.035	BB	0.025	591.66	0.027
2	2.399		0.0000	0.000	3209.4	0.126	BV	0.049	1086.77	0.049
3	2.431		0.0000	0.000	1058.3	0.042	VV	0.019	924.34	0.042
4	2.453		0.0000	0.000	3395.1	0.133	VV	0.023	2416.57	0.109
5	2.495		0.0000	0.000	1992.7	0.078	VV	0.035	937.99	0.042
6	2.541		0.0000	0.000	2061.7	0.081	VV	0.022	1566.52	0.071
7	2.569		0.0000	0.000	1576.6	0.062	VV	0.022	1178.51	0.053
8	2.602		0.0000	0.000	2016.0	0.079	VV	0.028	1192.28	0.054
9	2.663		0.0000	0.000	1598.6	0.063	VV	0.054	495.03	0.022
10	2.726		0.0000	0.000	928.3	0.036	VV	0.037	414.65	0.019
11	2.761		0.0000	0.000	812.4	0.032	VV	0.035	386.24	0.017
12	2.798		0.0000	0.000	803.9	0.032	VV	0.034	398.97	0.018
13	2.847		0.0000	0.000	825.2	0.032	VV	0.041	332.56	0.015
14	2.927		0.0000	0.000	124.9	0.005	VB	0.046	45.52	0.002
15	2.971		0.0000	0.000	443.7	0.017	BB	0.028	261.90	0.012
16	3.024		0.0000	0.000	231.2	0.009	BB	0.011	356.28	0.016
17	3.057		0.0000	0.000	950.0	0.037	BB	0.019	844.50	0.038
18	3.116		0.0000	0.000	3435.1	0.135	BB	0.049	1157.45	0.052
19	3.190	TCX	80.4184	16.587	370229.8	14.540	BB	0.015	422665.80	19.123
20	3.248		0.0000	0.000	27045.5	1.062	BB	0.013	33622.67	1.521
21	3.300		0.0000	0.000	119.8	0.005	BB	0.009	222.69	0.010
22	3.396		0.0000	0.000	5084.0	0.200	BB	0.016	5189.99	0.235
23	3.427		0.0000	0.000	108.9	0.004	BB	0.011	163.60	0.007
24	3.489	alpha-BHC	1.2797	0.264	10001.4	0.393	BB	0.013	12632.75	0.572
25	3.515	HCB	1.0534	0.217	5297.4	0.208	BB	0.014	6249.60	0.283
26	3.560		0.0000	0.000	78.5	0.003	BB	0.010	130.79	0.006
27	3.582		0.0000	0.000	275.3	0.011	BB	0.012	386.67	0.017
28	3.633		0.0000	0.000	219.1	0.009	BB	0.013	282.25	0.013
29	3.666		0.0000	0.000	5507.3	0.216	BB	0.015	6134.88	0.278
30	3.705	gamma-BHC	0.3966	0.082	2830.4	0.111	BB	0.014	3317.23	0.150
31	3.740		0.0000	0.000	1950.5	0.077	BB	0.014	2290.37	0.104
32	3.766		0.0000	0.000	6648.3	0.261	BB	0.013	8242.20	0.373
33	3.790		0.0000	0.000	1583.5	0.062	BB	0.011	2366.11	0.107
34	3.833	beta-BHC	2.8125	0.580	7231.5	0.284	BB	0.014	8327.16	0.377
35	3.863		0.0000	0.000	1553.1	0.061	BB	0.013	1979.66	0.090
36	3.884		0.0000	0.000	1430.9	0.056	BB	0.011	2132.44	0.096
37	3.924		0.0000	0.000	130027.0	5.107	BB	0.016	133163.60	6.025
38	4.006		0.0000	0.000	1723.2	0.068	BB	0.021	1393.95	0.063
39	4.063	Heptachlor	24.6636	5.087	187614.2	7.368	BB	0.019	163530.90	7.399
40	4.122		0.0000	0.000	1987.1	0.078	BB	0.013	2534.02	0.115
41	4.153		0.0000	0.000	499.6	0.020	BB	0.014	601.43	0.027
42	4.176		0.0000	0.000	1275.3	0.050	BB	0.017	1224.81	0.055
43	4.237		0.0000	0.000	7600.0	0.298	BB	0.015	8238.61	0.373
44	4.274	Aldrin	10.9668	2.262	90429.7	3.552	BB	0.020	74082.67	3.352
45	4.315		0.0000	0.000	2060.8	0.081	BB	0.012	2761.66	0.125
46	4.363	Telodrin	2.4471	0.505	7531.9	0.296	BB	0.020	6228.42	0.282
47	4.410		0.0000	0.000	12466.8	0.490	BB	0.023	9067.14	0.410
48	4.449		0.0000	0.000	40397.1	1.587	BB	0.019	35910.33	1.625
49	4.498		0.0000	0.000	3611.9	0.142	BB	0.014	4405.94	0.199
50	4.537		0.0000	0.000	1256.1	0.049	BB	0.015	1404.58	0.064
51	4.581	Hept. epoxide	10.6518	2.197	68090.6	2.674	BB	0.019	58315.34	2.638
52	4.630		0.0000	0.000	40092.6	1.575	BB	0.019	36106.84	1.634
53	4.686	o,p-DDE	2.4852	0.513	5863.1	0.230	BB	0.015	6450.61	0.292
54	4.742		0.0000	0.000	54230.3	2.130	BV	0.019	48228.62	2.182
55	4.776	g. Chlordane	69.0399	14.240	409811.3	16.095	VV	0.020	350123.90	15.841
56	4.834	a. Chlordane	77.7783	16.043	462800.8	18.176	VB	0.021	373634.80	16.905
57	4.905		0.0000	0.000	5507.2	0.216	BB	0.022	4149.77	0.188
58	4.956	4,4'-DDE	0.6977	0.144	2409.6	0.095	BB	0.017	2361.02	0.107
59	5.016		0.0000	0.000	32092.6	1.260	BV	0.023	23244.46	1.052
60	5.049	o,p-DDD	2.5963	0.536	5608.1	0.220	VV	0.018	5226.98	0.236
61	5.080	Dieldrin	4.5780	0.944	28753.1	1.129	VV	0.021	22449.52	1.016
62	5.137		0.0000	0.000	5431.4	0.213	VV	0.026	3494.60	0.158

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PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.174		0.0000	0.000	2063.3	0.081	VV	0.017	2026.54	0.092
64	5.211		0.0000	0.000	22952.0	0.901	VB	0.026	14834.46	0.671
65	5.277	o,p-DDT	4.2389	0.874	9667.6	0.380	BV	0.023	7103.88	0.321
66	5.334		0.0000	0.000	49707.7	1.952	VV	0.021	39943.42	1.807
67	5.371	4,4'-DDD	5.4844	1.131	16184.8	0.636	VV	0.021	12736.44	0.576
68	5.407		0.0000	0.000	6500.4	0.255	VV	0.020	5304.53	0.240
69	5.437	Endosulfan II	1.2210	0.252	5394.2	0.212	VV	0.021	4293.79	0.194
70	5.485	Kepone	89.1228	18.383	95251.0	3.741	VB	0.024	67379.33	3.049
71	5.612	4,4'-DDT	1.8653	0.385	1512.7	0.059	BB	0.027	947.92	0.043
72	5.702	Endo. sulfate	2.1830	0.450	3702.5	0.145	BV	0.023	2635.99	0.119
73	5.741		0.0000	0.000	15882.0	0.624	VV	0.026	10115.92	0.458
74	5.777		0.0000	0.000	5779.0	0.227	VV	0.036	2681.28	0.121
75	5.854		0.0000	0.000	1375.5	0.054	VV	0.027	842.23	0.038
76	5.894		0.0000	0.000	4253.4	0.167	VV	0.025	2884.57	0.131
77	5.951	Methoxychlor	1.2067	0.249	3322.0	0.130	VV	0.049	1138.29	0.052
78	6.015		0.0000	0.000	1107.1	0.043	VV	0.029	637.62	0.029
79	6.086	Endrin ketone	0.4291	0.089	4071.9	0.160	VV	0.050	1360.48	0.062
80	6.139		0.0000	0.000	1645.8	0.065	VB	0.032	857.99	0.039
81	6.216		0.0000	0.000	2834.4	0.111	BB	0.028	1685.32	0.076
82	6.269		0.0000	0.000	942.0	0.037	BB	0.018	893.74	0.040
83	6.298		0.0000	0.000	982.0	0.039	BB	0.016	1001.94	0.045
84	6.376		0.0000	0.000	62.1	0.002	BB	0.014	73.04	0.003
85	6.429	Mirex	0.4985	0.103	1435.2	0.056	BB	0.023	1050.87	0.048
86	6.498		0.0000	0.000	135.6	0.005	BB	0.020	113.45	0.005
87	6.593		0.0000	0.000	239.9	0.009	BB	0.032	123.95	0.006
88	6.668		0.0000	0.000	362.2	0.014	BB	0.024	253.25	0.011
89	6.746		0.0000	0.000	337.7	0.013	BB	0.025	223.86	0.010
90	6.797		0.0000	0.000	172.7	0.007	BB	0.023	123.16	0.006
91	6.873		0.0000	0.000	1333.9	0.052	BB	0.027	832.81	0.038
92	7.033	DCB	86.7048	17.884	203959.5	8.010	BB	0.029	116625.40	5.277
93	7.323		0.0000	0.000	54.1	0.002	BB	0.019	47.21	0.002
94	7.374		0.0000	0.000	71.2	0.003	BB	0.020	60.21	0.003
95	7.417		0.0000	0.000	205.2	0.008	BB	0.024	144.11	0.007

Total Area = 2546217.0, Total Amount = 484.82, Total Height = 2210236.0, Sample Units = PPB

USF93 1760

Sample Name: **CHLD51124A AACHLD5AA ICAL 1119299999**
Acquired from CP06--S9147B via port 2 on 7/12/11 10:04:02pm by 120
RTX CLPII
110 to 250 @40/min; to 280 @20/min; to 330 @30/min hold 1.5
Data File: **C:\CPWIN\DATA1\1P6193B.28R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P6193B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.050		0.0000	0.000	1796.4	0.041	BV	0.029	1043.80	0.031
2	2.078		0.0000	0.000	2390.2	0.055	VV	0.041	970.52	0.029
3	2.167		0.0000	0.000	3867.4	0.089	VV	0.052	1236.55	0.037
4	2.218		0.0000	0.000	7593.8	0.174	VV	0.032	3919.73	0.118
5	2.313		0.0000	0.000	4499.4	0.103	VV	0.057	1318.68	0.040
6	2.356		0.0000	0.000	3081.9	0.071	VV	0.029	1744.68	0.052
7	2.428		0.0000	0.000	3612.3	0.083	VV	0.035	1715.84	0.051
8	2.477		0.0000	0.000	1464.5	0.034	VV	0.036	685.64	0.021
9	2.528		0.0000	0.000	1086.3	0.025	VV	0.028	650.57	0.020
10	2.559		0.0000	0.000	1559.3	0.036	VV	0.038	681.95	0.020
11	2.613		0.0000	0.000	1655.0	0.038	VV	0.035	780.45	0.023
12	2.659		0.0000	0.000	2030.5	0.047	VB	0.042	813.66	0.024
13	2.707		0.0000	0.000	502.7	0.012	BB	0.037	228.53	0.007
14	2.734		0.0000	0.000	2332.9	0.054	BB	0.025	1552.93	0.047
15	2.817		0.0000	0.000	2886.2	0.066	BB	0.026	1818.97	0.055
16	2.875		0.0000	0.000	75.6	0.002	BB	0.014	90.59	0.003
17	2.916		0.0000	0.000	198.0	0.005	BB	0.020	163.59	0.005
18	2.955	TCX	84.5556	23.434	678166.9	15.564	BB	0.015	741537.60	22.246
19	3.127		0.0000	0.000	202.1	0.005	BB	0.014	233.86	0.007
20	3.154		0.0000	0.000	874.7	0.020	BB	0.014	1059.76	0.032
21	3.183		0.0000	0.000	7655.9	0.176	BB	0.014	8884.19	0.267
22	3.226		0.0000	0.000	16996.1	0.390	BV	0.016	18218.67	0.547
23	3.265	HCB	0.7545	0.209	10373.7	0.238	VV	0.017	10394.08	0.312
24	3.306	alpha-BHC	0.1359	0.038	2037.6	0.047	VV	0.017	1972.88	0.059
25	3.342		0.0000	0.000	1064.7	0.024	VV	0.019	918.19	0.028
26	3.381		0.0000	0.000	825.0	0.019	VB	0.017	805.56	0.024
27	3.440		0.0000	0.000	3039.7	0.070	BV	0.019	2657.69	0.080
28	3.471		0.0000	0.000	27649.3	0.635	VV	0.020	23143.91	0.694
29	3.517	gamma-BHC	0.3213	0.089	7186.8	0.165	VV	0.029	4200.15	0.126
30	3.561		0.0000	0.000	14748.8	0.338	VV	0.016	15580.94	0.467
31	3.603		0.0000	0.000	8410.0	0.193	VV	0.021	6530.08	0.196
32	3.640		0.0000	0.000	169152.1	3.882	VV	0.016	181740.60	5.452
33	3.676		0.0000	0.000	14795.7	0.340	VV	0.016	15539.22	0.466
34	3.717	beta-BHC	1.5649	0.434	7363.6	0.169	VV	0.015	8305.88	0.249
35	3.753	Heptachlor	23.0363	6.384	220428.0	5.059	VV	0.017	220629.10	6.619
36	3.789		0.0000	0.000	9710.7	0.223	VV	0.016	10277.35	0.308
37	3.815		0.0000	0.000	29883.3	0.686	VB	0.019	26112.03	0.783
38	3.871	delta-BHC	1.3354	0.370	16864.1	0.387	BB	0.018	15903.54	0.477
39	3.943	Aldrin	1.5963	0.442	19352.3	0.444	BB	0.023	13852.99	0.416
40	3.989		0.0000	0.000	13739.8	0.315	BV	0.016	14447.81	0.433
41	4.013	Telodrin	16.9300	4.692	157410.6	3.613	VV	0.020	128986.40	3.870
42	4.054		0.0000	0.000	16075.0	0.369	VV	0.021	12565.29	0.377
43	4.087		0.0000	0.000	16023.6	0.368	VV	0.021	12445.97	0.373
44	4.113		0.0000	0.000	51106.3	1.173	VV	0.020	42030.71	1.261
45	4.146		0.0000	0.000	25623.3	0.588	VV	0.023	18530.60	0.556
46	4.176		0.0000	0.000	12027.9	0.276	VB	0.024	8522.97	0.256
47	4.243		0.0000	0.000	30208.5	0.693	BV	0.021	24543.18	0.736
48	4.305		0.0000	0.000	269654.3	6.189	VV	0.037	120173.90	3.605
49	4.371	o,p-DDE	8.3878	2.325	59109.9	1.357	VV	0.022	44298.17	1.329
50	4.404		0.0000	0.000	17081.2	0.392	VV	0.016	17744.70	0.532
51	4.447	g. Chlordane	59.9386	16.612	969145.9	22.243	VV	0.033	495621.30	14.868
52	4.489	a. Chlordane	46.9757	13.019	416299.3	9.554	VV	0.021	336595.60	10.098
53	4.576		0.0000	0.000	31573.2	0.725	VV	0.039	13438.34	0.403
54	4.648		0.0000	0.000	18945.7	0.435	VV	0.035	9133.49	0.274
55	4.678		0.0000	0.000	39165.8	0.899	VV	0.023	28962.47	0.869
56	4.711		0.0000	0.000	50636.6	1.162	VV	0.021	39520.08	1.186
57	4.739	Dieldrin	0.8838	0.245	7403.3	0.170	VV	0.018	7034.93	0.211
58	4.769		0.0000	0.000	20888.2	0.479	VV	0.029	12113.60	0.363
59	4.834		0.0000	0.000	15524.4	0.356	VB	0.031	8342.40	0.250
60	4.888		0.0000	0.000	15326.1	0.352	BV	0.025	10166.02	0.305
61	4.934	Endrin	2.1935	0.608	24446.6	0.561	VV	0.028	14505.05	0.435
62	4.975		0.0000	0.000	96417.4	2.213	VB	0.028	58013.48	1.740

USP03 1769

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
63	5.034	Kepone	4.1502	1.150	3191.8	0.073	BB	0.018	2945.37	0.088
64	5.072		0.0000	0.000	1635.4	0.038	BV	0.013	2056.23	0.062
65	5.105		0.0000	0.000	10007.3	0.230	VV	0.021	7957.88	0.239
66	5.129		0.0000	0.000	9699.6	0.223	VV	0.020	8168.23	0.245
67	5.163	Endosulfan II	20.2424	5.610	144854.5	3.325	VV	0.020	120777.10	3.623
68	5.234	4,4'-DDT	0.3411	0.095	3998.7	0.092	VV	0.036	1852.88	0.056
69	5.291	Endrin aldehyde	0.1831	0.051	998.6	0.023	VV	0.020	848.12	0.025
70	5.313		0.0000	0.000	2347.0	0.054	VB	0.019	2043.69	0.061
71	5.351		0.0000	0.000	311.9	0.007	BB	0.014	380.94	0.011
72	5.407		0.0000	0.000	26715.0	0.613	BB	0.029	15323.52	0.460
73	5.459	Endo. sulfate	0.2406	0.067	770.5	0.018	BB	0.011	1174.48	0.035
74	5.502		0.0000	0.000	4086.9	0.094	BB	0.020	3330.12	0.100
75	5.571		0.0000	0.000	1861.0	0.043	BV	0.020	1577.75	0.047
76	5.596		0.0000	0.000	1524.0	0.035	VV	0.019	1319.52	0.040
77	5.629	Methoxychlor	1.2360	0.343	3874.2	0.089	VV	0.027	2414.29	0.072
78	5.675		0.0000	0.000	2945.5	0.068	VV	0.038	1281.05	0.038
79	5.738		0.0000	0.000	2566.4	0.059	VV	0.037	1153.07	0.035
80	5.788		0.0000	0.000	5248.5	0.120	VV	0.030	2876.27	0.086
81	5.820		0.0000	0.000	5547.7	0.127	VV	0.048	1937.67	0.058
82	5.876		0.0000	0.000	3113.5	0.071	VV	0.028	1867.86	0.056
83	5.938		0.0000	0.000	25006.9	0.574	VB	0.054	7666.30	0.230
84	6.052		0.0000	0.000	5928.9	0.136	BV	0.029	3432.67	0.103
85	6.098		0.0000	0.000	8204.0	0.188	VV	0.036	3784.69	0.114
86	6.175		0.0000	0.000	8207.7	0.188	VV	0.084	1635.69	0.049
87	6.276		0.0000	0.000	4009.6	0.092	VV	0.059	1130.14	0.034
88	6.305		0.0000	0.000	1761.9	0.040	VV	0.026	1136.56	0.034
89	6.350		0.0000	0.000	3648.2	0.084	VV	0.048	1267.27	0.038
90	6.384		0.0000	0.000	1461.7	0.034	VV	0.032	760.74	0.023
91	6.470		0.0000	0.000	4266.5	0.098	VV	0.028	2512.73	0.075
92	6.537		0.0000	0.000	251.5	0.006	VV	0.027	153.89	0.005
93	6.583		0.0000	0.000	108.7	0.002	VB	0.027	68.10	0.002
94	6.632	DCB	85.8222	23.785	373826.1	8.580	BB	0.021	301319.40	9.039
95	6.927		0.0000	0.000	1136.6	0.026	BV	0.046	409.94	0.012
96	6.986		0.0000	0.000	1113.2	0.026	VV	0.036	522.23	0.016
97	7.039		0.0000	0.000	894.1	0.021	VB	0.052	286.67	0.009
98	7.258		0.0000	0.000	127.2	0.003	BV	0.041	51.10	0.002
99	7.313		0.0000	0.000	262.8	0.006	VV	0.036	122.29	0.004
100	7.354		0.0000	0.000	207.9	0.005	VB	0.026	133.91	0.004
101	7.422		0.0000	0.000	178.2	0.004	BB	0.051	58.41	0.002

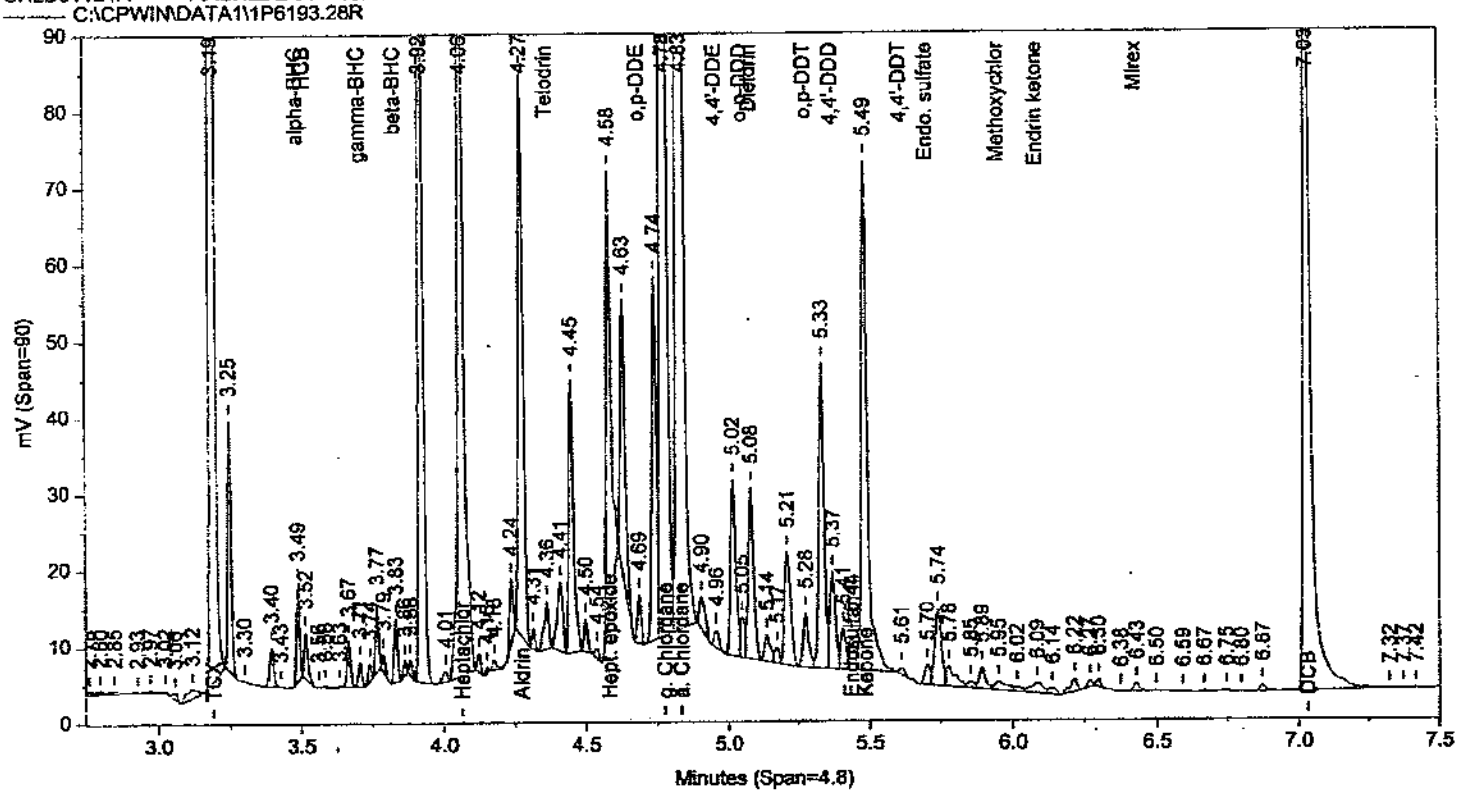
Total Area = 4357146.0, Total Amount = 360.825, Total Height = 3333390.0, Sample Units = PPB

USF03 1778

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.28R

CHLD51124A AACHLD5AA ICAL 1119299999

C:\CPWIN\DATA1\1P6193.28R



Instrument ID: CP06--S9147A Injected On: 7/12/2011 9:56:32 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.28R

CHLD51124A AACHLD5AA ICAL 1119299999

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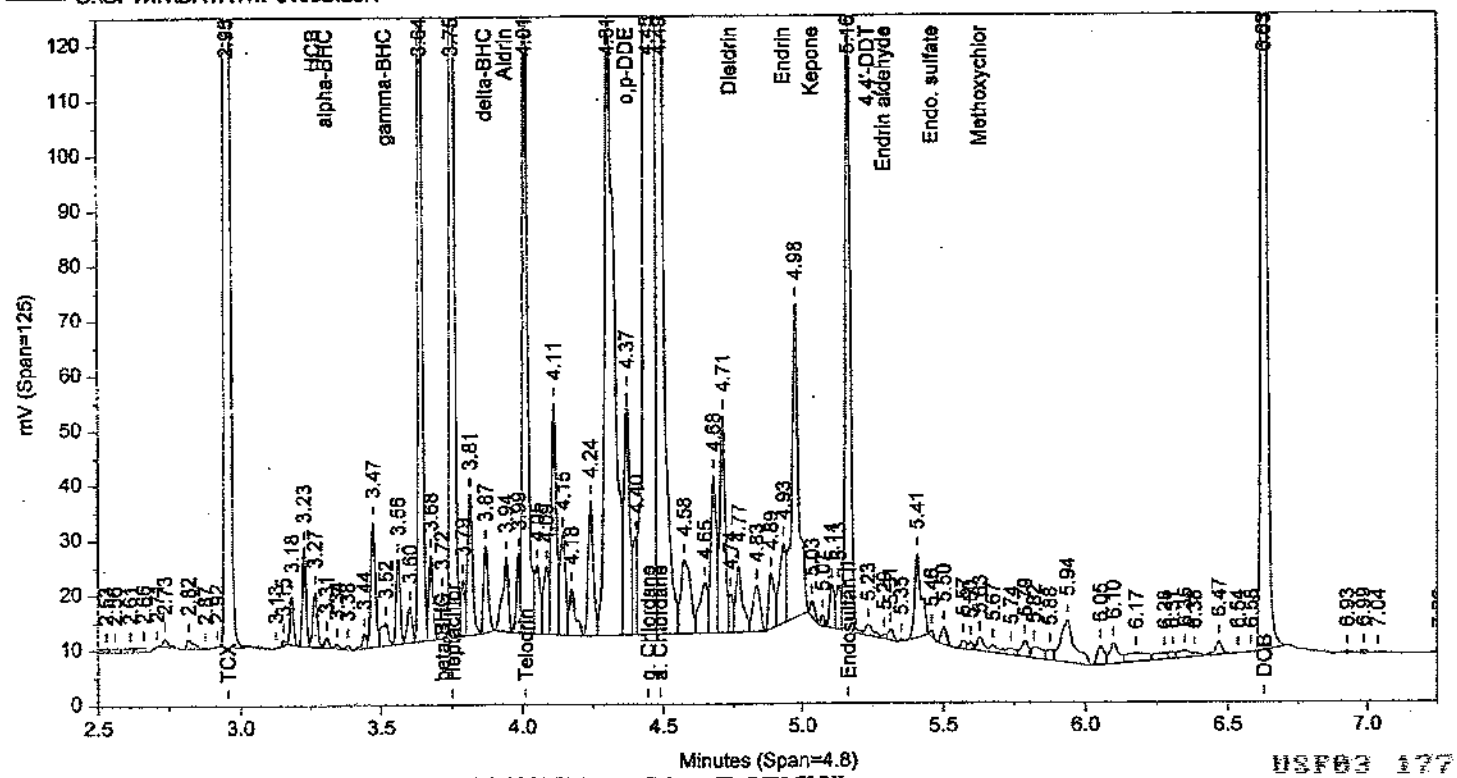

Instrument ID: CP06--S9147B Injected On: 7/12/2011 9:56:32 PM Column ID: RTX CLPII

USF03 1771

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Valid Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.19	422666	80.41837	TCX	2.955	741538	84.55562	TCX
3.515	6250	1.05344	HCB	3.265	10394	.7545	HCB
3.489	12633	1.27966	alpha-BHC	3.306	1973	.13593	alpha-BHC
3.705	3317	.39663	gamma-BHC	3.517	4200	.32132	gamma-BHC
3.833	8327	2.8125	beta-BHC	3.717	8306	1.56489	beta-BHC
4.063	163531	24.66356	Heptachlor	3.753	220629	23.03626	Heptachlor
.	0	.	delta-BHC	3.871	15904	1.33535	delta-BHC
4.274	74083	10.96679	Aldrin	3.943	13853	1.59634	Aldrin
4.363	6228	2.4471	Telodrin	4.013	128986	16.93001	Telodrin
4.686	6451	2.48516	o,p-DDE	4.371	44298	8.38783	o,p-DDE
4.776	350124	69.03988	g. Chlordane	4.447	495621	59.93856	g. Chlordane
4.834	373635	77.77834	a. Chlordane	4.489	336596	46.97567	a. Chlordane
4.581	58315	10.65183	Hept. epoxide	.	0	.	Hept. epoxide
5.08	22450	4.57798	Dieldrin	4.739	7035	.88378	Dieldrin
.	0	.	Endrin	4.934	14505	2.19352	Endrin
4.956	2361	.69767	4,4'-DDE	.	0	.	4,4'-DDE
5.485	67379	89.1228	Kepone	5.034	2945	4.15018	Kepone
5.049	5227	2.59629	o,p-DDD	.	0	.	o,p-DDD
5.437	4294	1.22097	Endosulfan II	5.163	120777	20.24241	Endosulfan II
5.612	948	1.86534	4,4'-DDT	5.234	1853	.34111	4,4'-DDT
5.277	7104	4.23892	o,p-DDT	.	0	.	o,p-DDT
.	0	.	Endrin aldehyde	5.291	848	.18311	Endrin aldehyde
5.371	12736	5.48438	4,4'-DDD	.	0	.	4,4'-DDD
5.702	2636	2.18297	Endo. sulfate	5.459	1174	.24063	Endo. sulfate
5.951	1138	1.20667	Methoxychlor	5.629	2414	1.23597	Methoxychlor
6.086	1360	.42913	Endrin ketone	.	0	.	Endrin ketone
6.429	1051	.49855	Mirex	.	0	.	Mirex
7.033	116625	86.70478	DCB	6.632	301319	85.82218	DCB

Files:
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Area File: C:\CPWIN\DATA1\1P6193B.28A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/12/2011 10:04:08 PM
File Reported On: 7/12/2011 at 10:04:19 PM

USF83 1722

Files:

REPLOTS

CHLD51124A AACHLD5AA ICAL 1119299999
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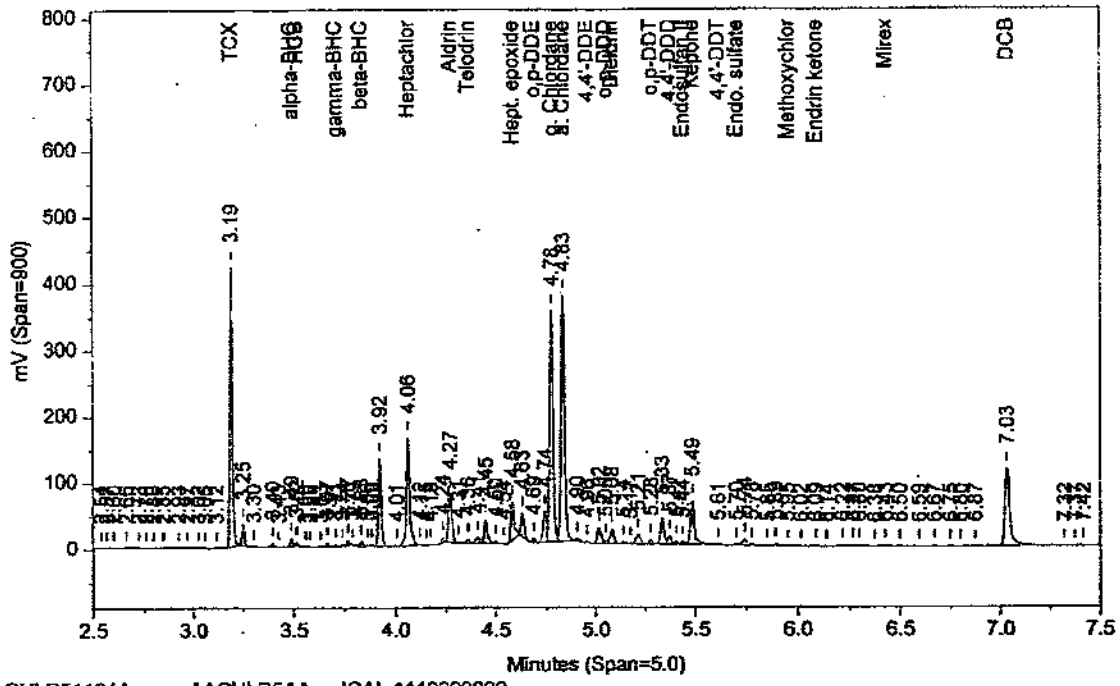

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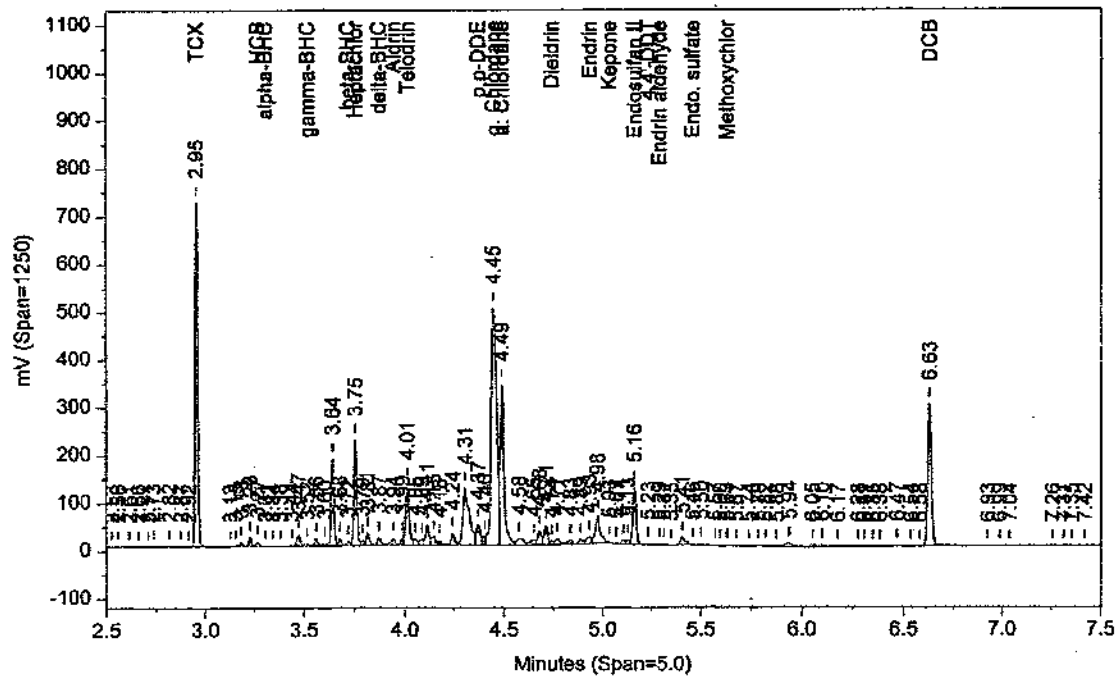

USP63 1773

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.41R

MDTXX1124A AAMDTXXAA ICAL 1119299999

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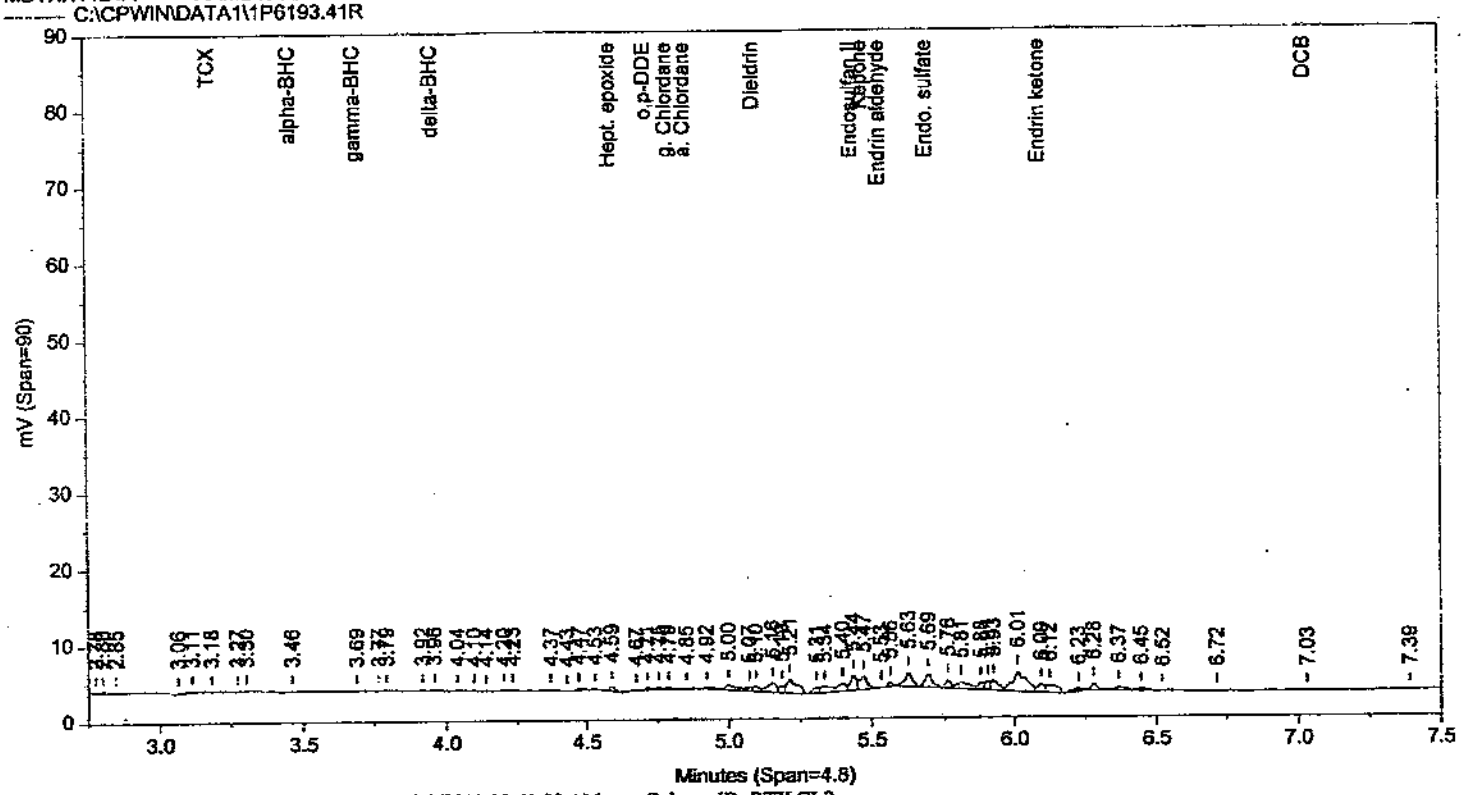

Instrument ID: CP06--S9147A Injected On: 7/13/2011 12:41:28 AM Column ID: RTX CLP

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MDTXX1124A AAMDTXXAA ICAL 1119299999

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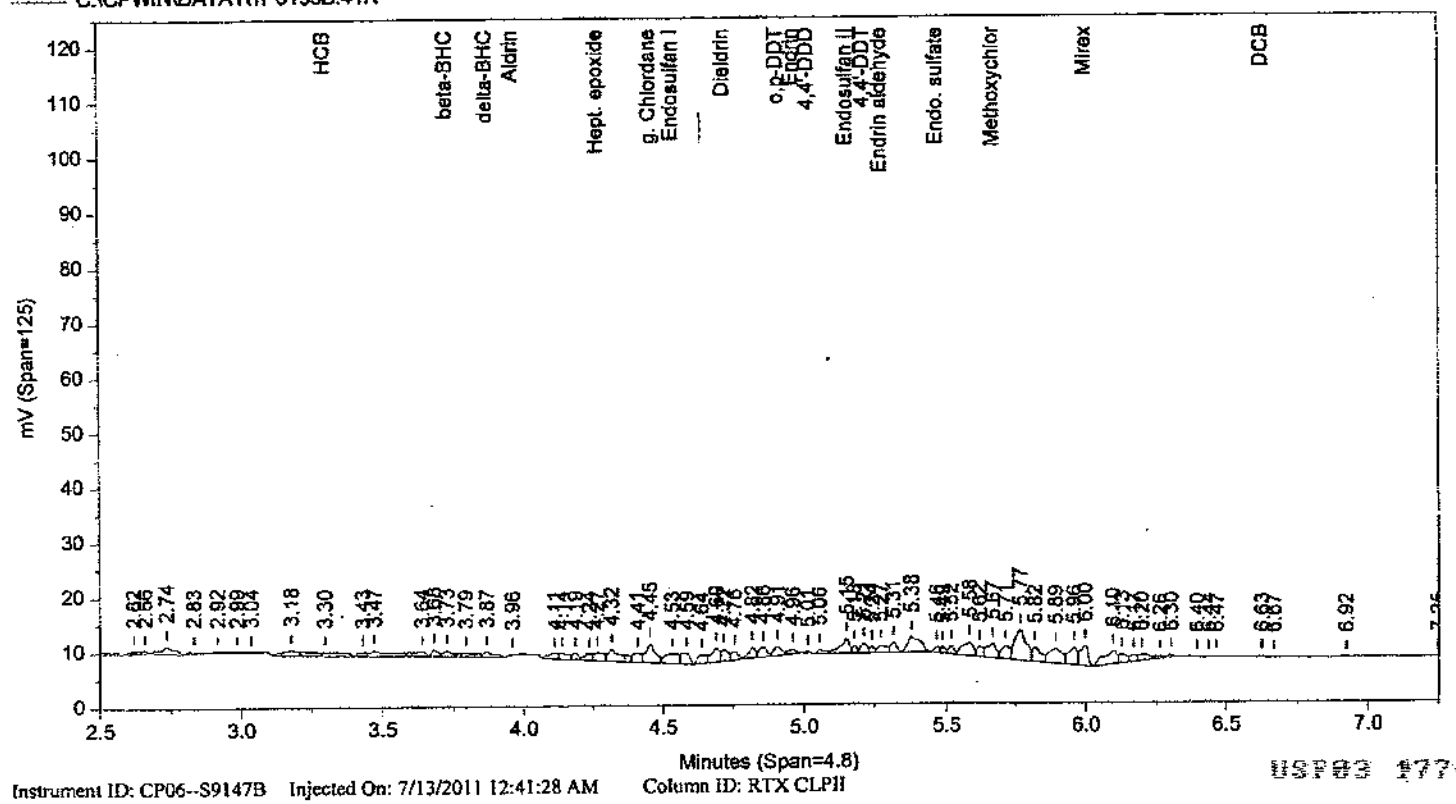

Instrument ID: CP06--S9147B Injected On: 7/13/2011 12:41:28 AM Column ID: RTX CLPII

USP83 1774

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMultiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.18	29	.0056	TCX	.	0	.	TCX
.	0	.	HCB	3.296	687	.04986	HCB
3.463	159	.01607	alpha-BHC	.	0	.	alpha-BHC
3.689	72	.00855	gamma-BHC	.	0	.	gamma-BHC
.	0	.	beta-BHC	3.725	1022	.19248	beta-BHC
3.957	247	.03664	delta-BHC	3.868	882	.07405	delta-BHC
.	0	.	Aldrin	3.96	259	.02982	Aldrin
4.589	665	.12155	Hept. epoxide	4.267	1462	.17168	Hept. epoxide
4.787	337	.06647	g. Chlordane	4.455	3347	.40478	g. Chlordane
.	0	.	Endosulfan I	4.534	1761	.23479	Endosulfan I
4.714	359	.13818	o,p-DDE	.	0	.	o,p-DDE
5.096	707	.14411	Dieldrin	4.717	2022	.25406	Dieldrin
4.851	148	.03072	a. Chlordane	.	0	.	a. Chlordane
.	0	.	o,p-DDT	4.908	1641	.3637	o,p-DDT
.	0	.	Endrin	4.962	817	.1235	Endrin
.	0	.	4,4'-DDD	5.014	388	.07099	4,4'-DDD
5.438	1958	.55666	Endosulfan II	5.153	2685	.45005	Endosulfan II
.	0	.	4,4'-DDT	5.213	1782	.32798	4,4'-DDT
5.533	159	.06434	Endrin aldehyde	5.271	1311	.28295	Endrin aldehyde
5.695	1701	1.90052	Endo. sulfate	5.465	1003	.20553	Endo. sulfate
5.474	1719	3.25293	Kepone	.	0	.	Kepone
.	0	.	Methoxychlor	5.669	2599	1.33038	Methoxychlor
.	0	.	Mirex	5.998	3665	.93198	Mirex
6.095	1066	.33628	Endrin ketone	.	0	.	Endrin ketone
7.03	46	.03447	DCB	6.627	247	.07029	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.41A
Area File: C:\CPWIN\DATA1\1P6193B.41A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/13/2011 12:49:04 AM
File Reported On: 7/13/2011 at 12:49:12 AM

USF03 1775

Files:
REPLOTS

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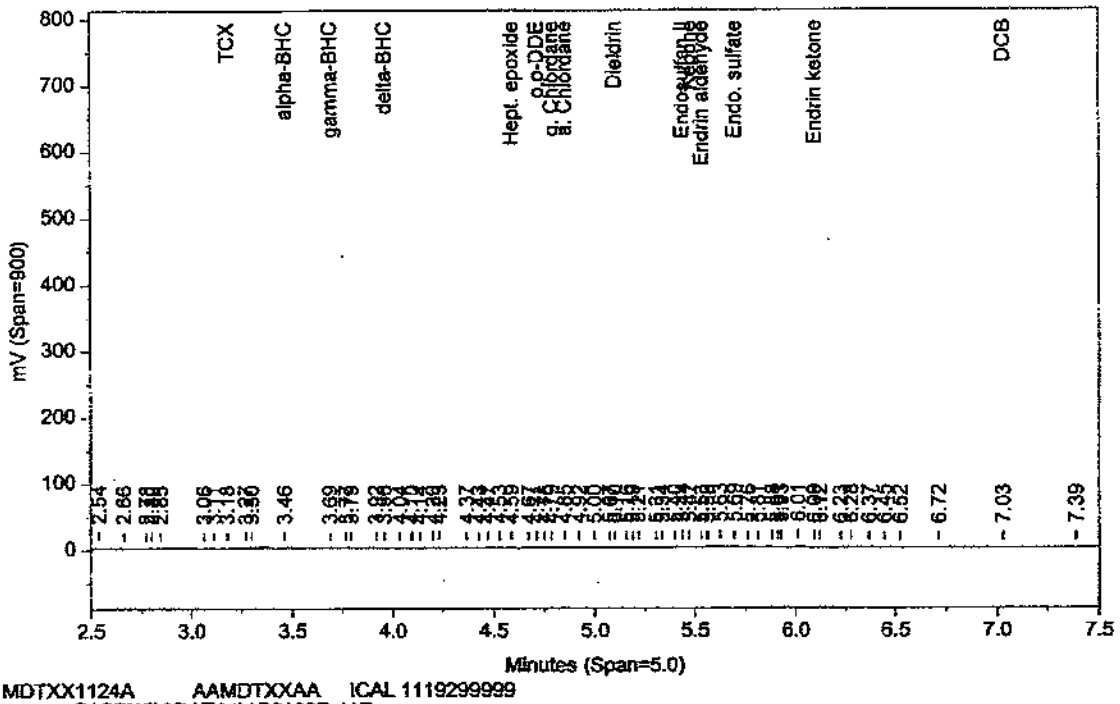

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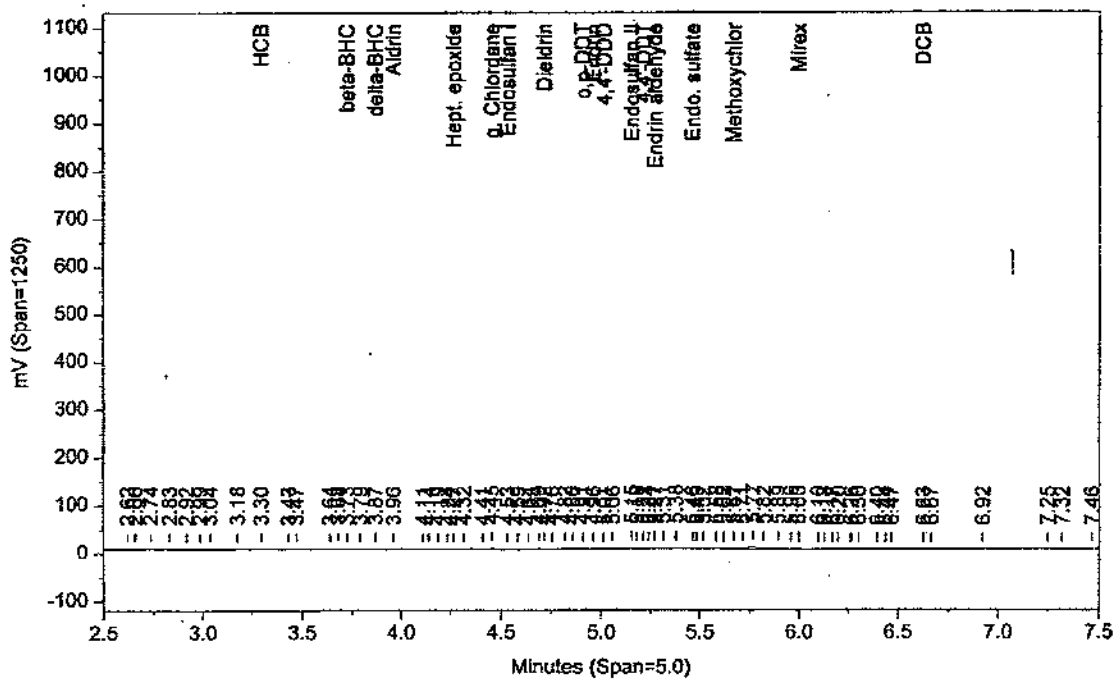

USPB3 1776

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P6193.42R
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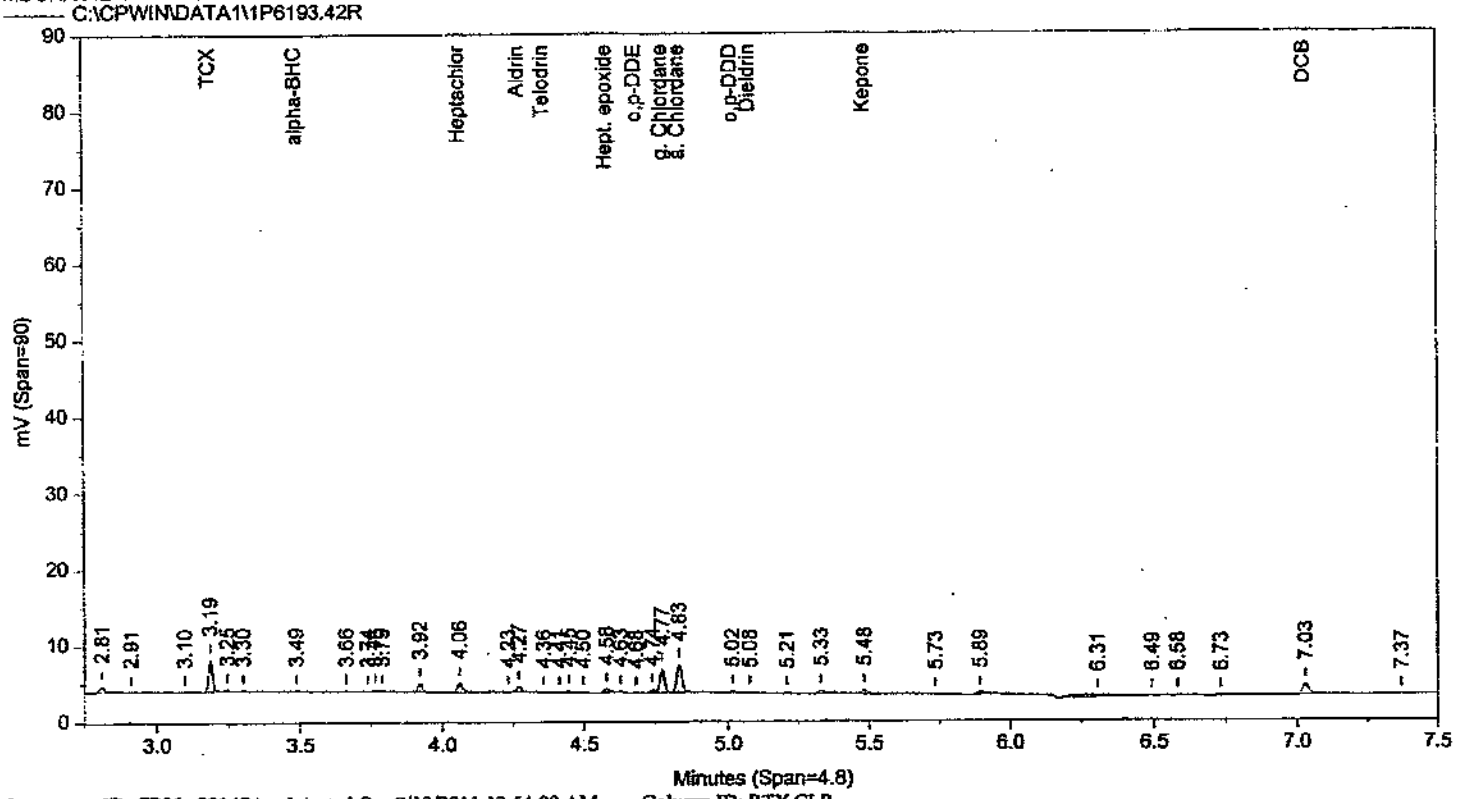

Instrument ID: CP06--S9147A Injected On: 7/13/2011 12:54:08 AM Column ID: RTX CLP

File: C:\CPWIN\DATA1\1P6193B.42R

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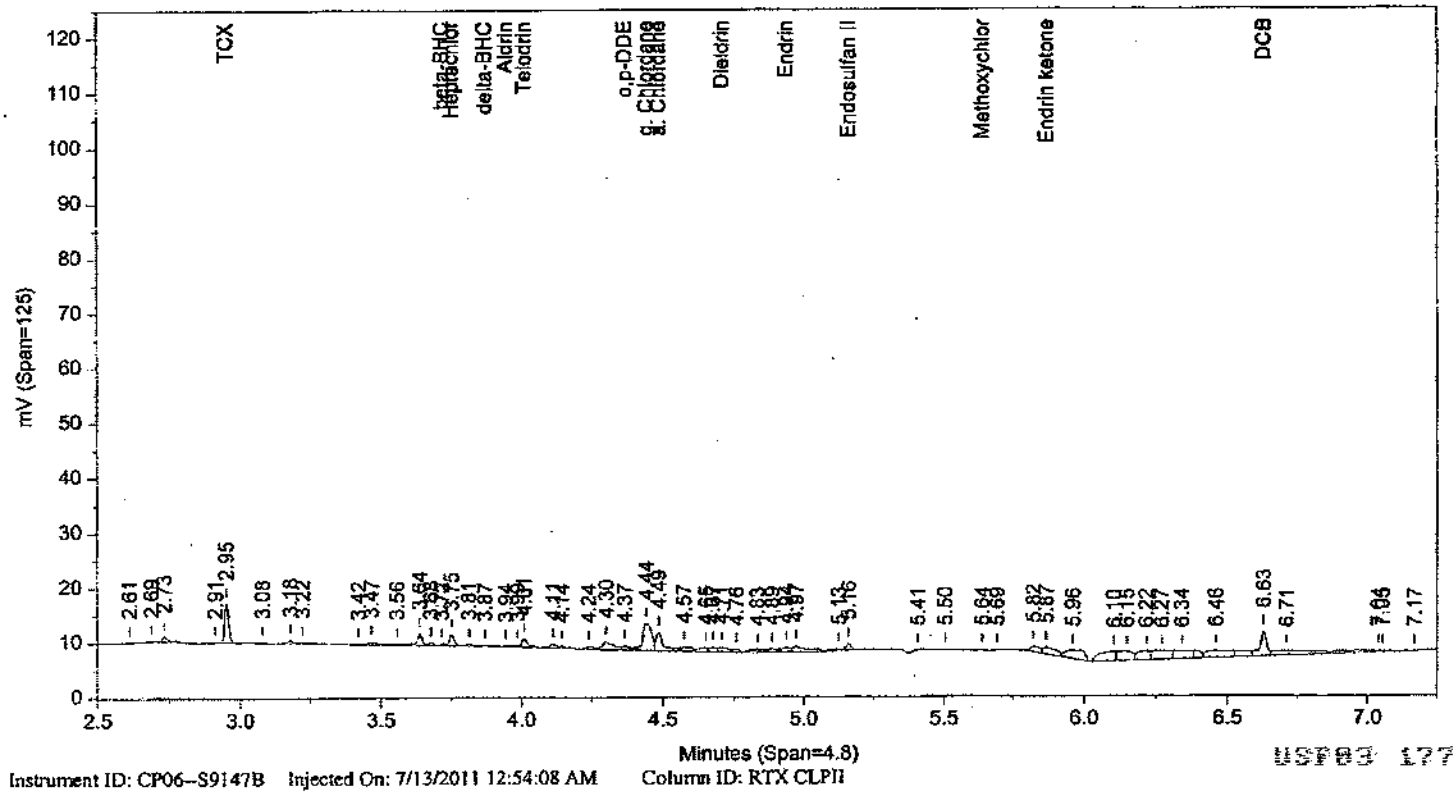
C:\CPWIN\DATA1\1P6193B.42R



Instrument ID: CP06--S9147B Injected On: 7/13/2011 12:54:08 AM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMultiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.188	4214	.80175	TCX	2.952	7212	.82239	TCX
3.487	131	.01326	alpha-BHC	.	0	.	alpha-BHC
.	0	.	beta-BHC	3.716	307	.05789	beta-BHC
4.061	1245	.18778	Heptachlor	3.751	2129	.22232	Heptachlor
.	0	.	delta-BHC	3.869	272	.02282	delta-BHC
4.271	760	.11246	Aldrin	3.944	156	.01797	Aldrin
4.358	65	.02572	Telodrin	4.01	1549	.20325	Telodrin
4.683	71	.02745	o,p-DDE	4.368	738	.13982	o,p-DDE
4.773	3088	.60884	g. Chlordane	4.443	4932	.5965	g. Chlordane
4.831	3635	.75665	a. Chlordane	4.486	3369	.47022	a. Chlordane
4.578	540	.09861	Hept. epoxide	.	0	.	Hept. epoxide
5.077	118	.02409	Dieldrin	4.706	760	.09545	Dieldrin
.	0	.	Endrin	4.938	767	.11603	Endrin
5.016	238	.11826	o,p-DDD	.	0	.	o,p-DDD
.	0	.	Endosulfan II	5.16	1187	.19895	Endosulfan II
5.483	502	1.66131	Kepone	.	0	.	Kepone
.	0	.	Methoxychlor	5.637	316	.16184	Methoxychlor
.	0	.	Endrin ketone	5.869	1246	.20153	Endrin ketone
7.03	1333	.99101	DCB	6.627	4422	1.25941	DCB

Files:
Area File: C:\CPWIN\DATA1\1P6193.42A
Area File: C:\CPWIN\DATA1\1P6193B.42A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/13/2011 1:01:44 AM
File Reported On: 7/13/2011 at 1:01:52 AM

REPLOTS

USF83 1778

MDCHX1124A AAMDCHXAA ICAL 1119299999
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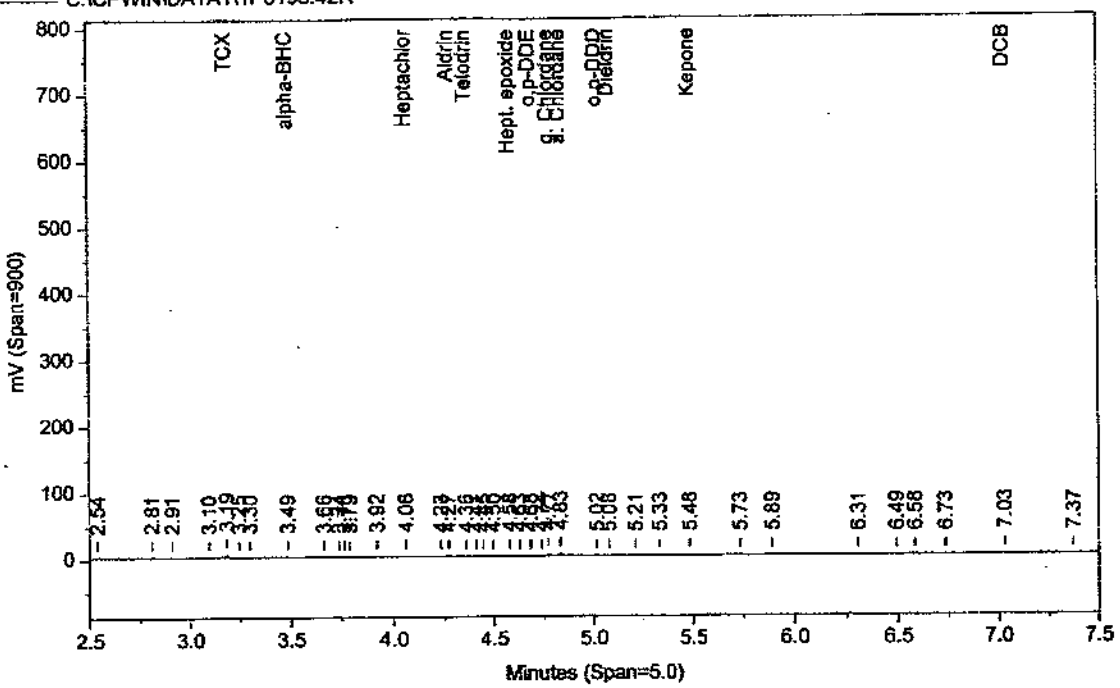

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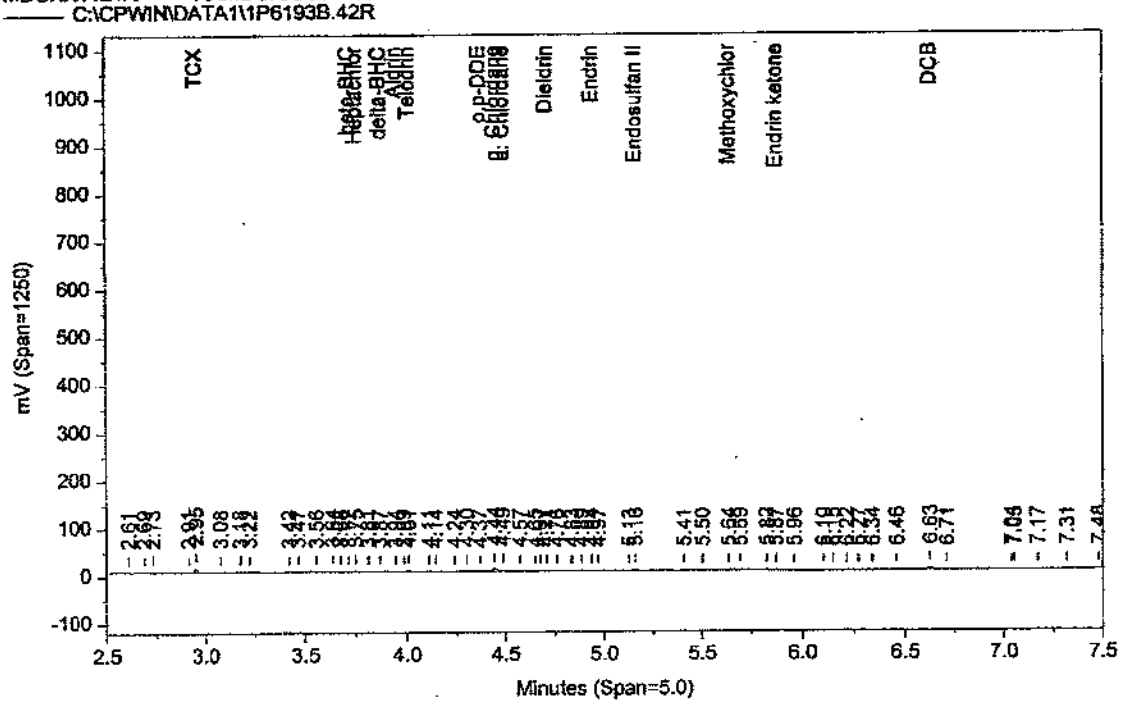
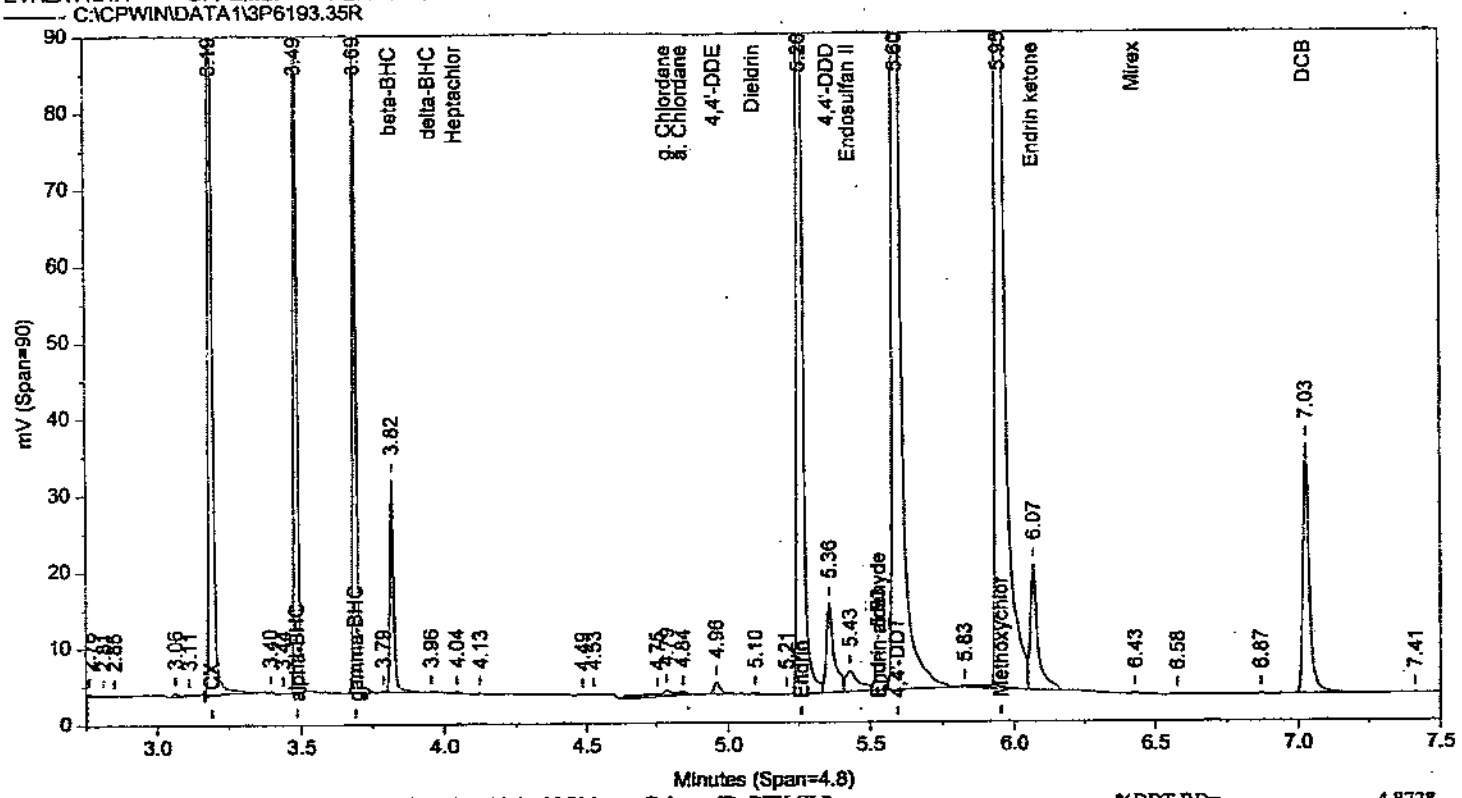


USP03 1779

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.35R

EVALX1124A SFPEMSF PEM 1119499999

C:\CPWIN\DATA1\3P6193.35R



Instrument ID: CP06--S9147A Injected On: 7/14/2011 10:01:08 PM Column ID: RTX CLP

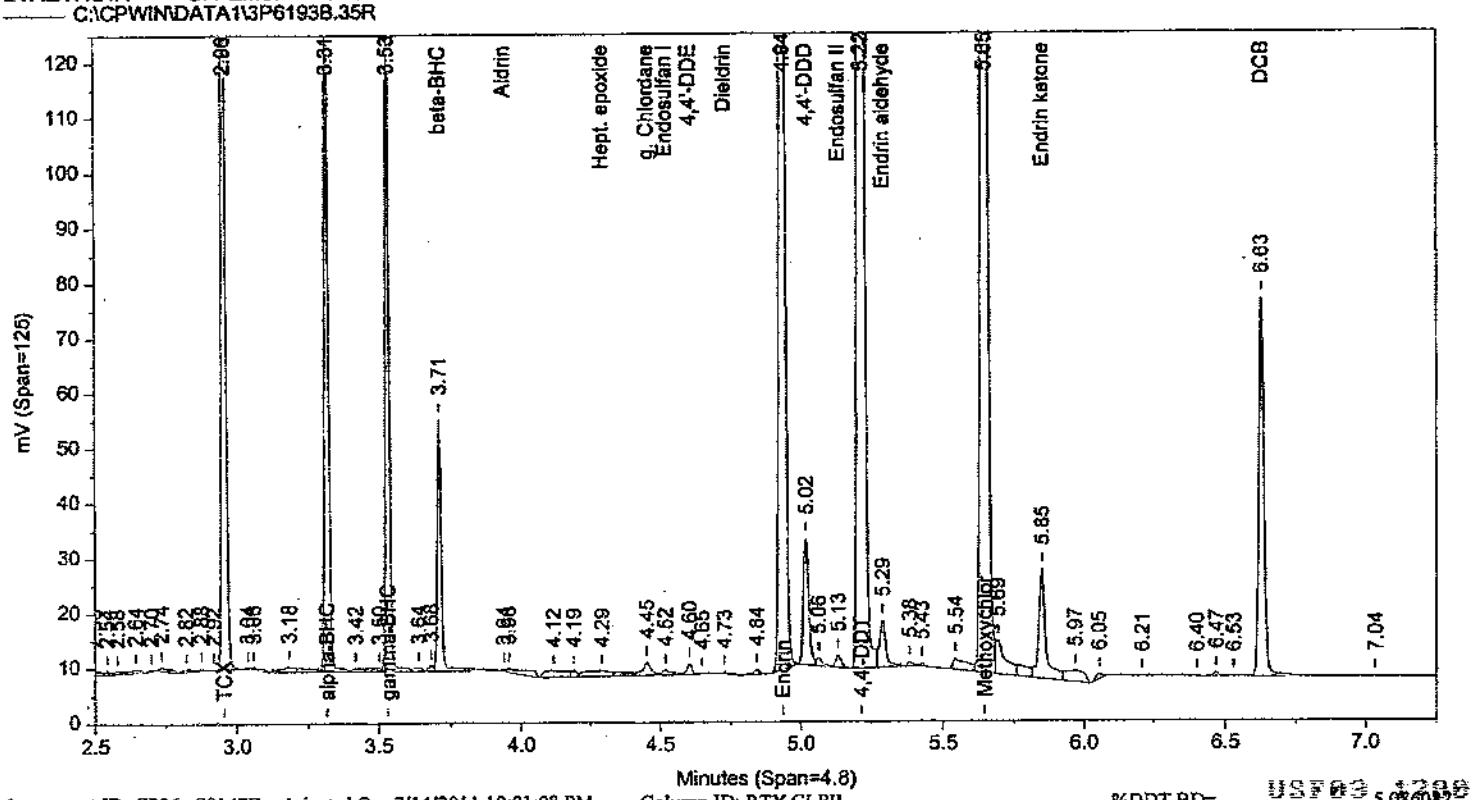
%DDT BD= 4.8738

%ENDRIN BD= 12.13072

File: C:\CPWIN\DATA1\3P6193B.35R

EVALX1124A SFPEMSF PEM 1119499999

C:\CPWIN\DATA1\3P6193B.35R



Instrument ID: CP06--S9147B Injected On: 7/14/2011 10:01:08 PM Column ID: RTX CLPII

%DDT BD= 5.086082

%ENDRIN BD= 9.677255

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min\nSplitless Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.19	119493	22.735	TCX	2.955	185033	21.099	TCX
3.486	103943	10.529	alpha-BHC	3.315	130242	8.974	alpha-BHC
3.692	90191	10.784	gamma-BHC	3.532	127792	9.776	gamma-BHC
3.82	27837	9.402	beta-BHC	3.712	46313	8.726	beta-BHC
.	0	.	Aldrin	3.938	448	.052	Aldrin
3.955	94	.014	delta-BHC	.	0	.	delta-BHC
4.044	304	.046	Heptachlor	.	0	.	Heptachlor
.	0	.	Hept. epoxide	4.291	993	.117	Hept. epoxide
4.786	752	.148	g. Chlordane	4.454	2428	.294	g. Chlordane
.	0	.	Endosulfan I	4.519	952	.127	Endosulfan I
4.958	1627	.481	4,4'-DDE	4.603	1979	1.823	4,4'-DDE
5.097	301	.061	Dieldrin	4.726	308	.039	Dieldrin
4.842	462	.096	a. Chlordane	.	0	.	a. Chlordane
5.259	157069	38.227	Endrin	4.936	267895	40.512	Endrin
5.359	11754	5.061	4,4'-DDD	5.018	23339	4.273	4,4'-DDD
5.431	2657	.755	Endosulfan II	5.133	2118	.355	Endosulfan II
5.595	261173	90.648	4,4'-DDT	5.215	472462	86.98	4,4'-DDT
5.53	5168	2.091	Endrin aldehyde	5.289	8508	1.837	Endrin aldehyde
5.953	243785	258.43	Methoxychlor	5.645	397341	203.414	Methoxychlor
6.071	16516	5.21	Endrin ketone	5.852	20194	3.267	Endrin ketone
6.427	251	.119	Mirex	.	0	.	Mirex
7.03	32654	24.276	DCB	6.629	69023	19.659	DCB

Files:
Area File: C:\CPWIN\DATA1\3P6193.35A
Area File: C:\CPWIN\DATA1\3P6193B.35A
Method A: C:\CPWIN\DATA1\EVALD.MET
Method B: C:\CPWIN\DATA1\EVALDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\EVALD.FMTA
Format B: C:\CPWIN\DATA1\EVALD.FMTB
Area File Created On: 7/14/2011 10:08:44 PM
File Reported On: 7/14/2011 at 10:08:53 PM

REPLOTS

USF03 1791

EVALX1124A SFPEMSF PEM 1119499999
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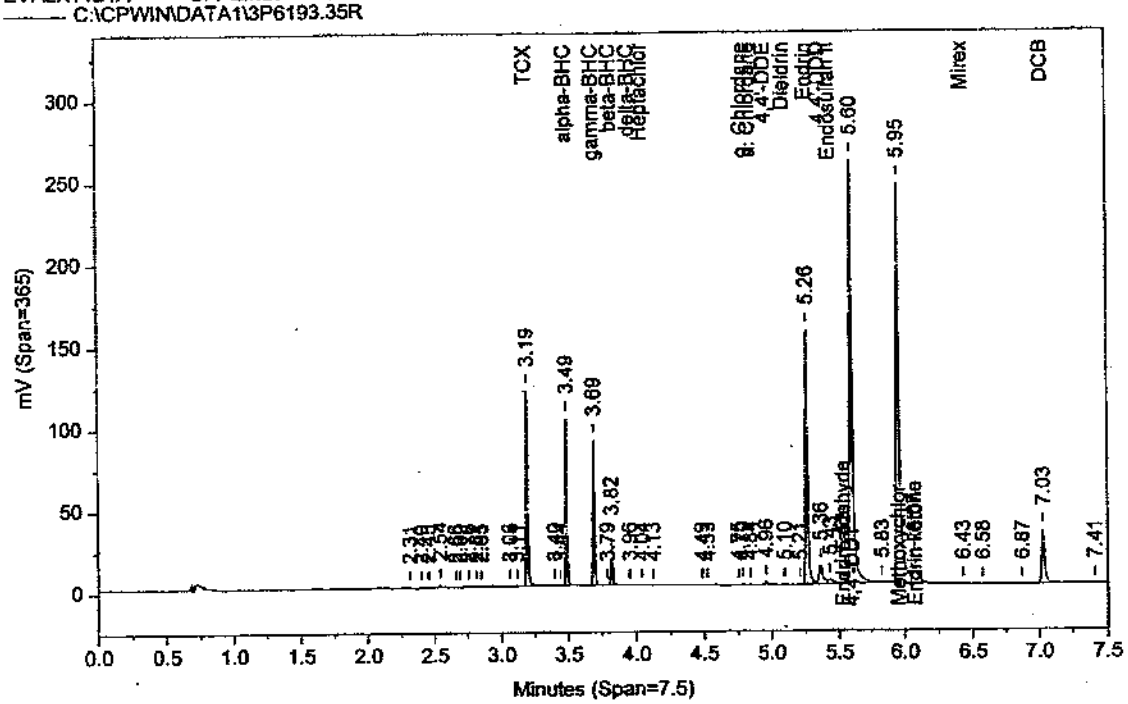
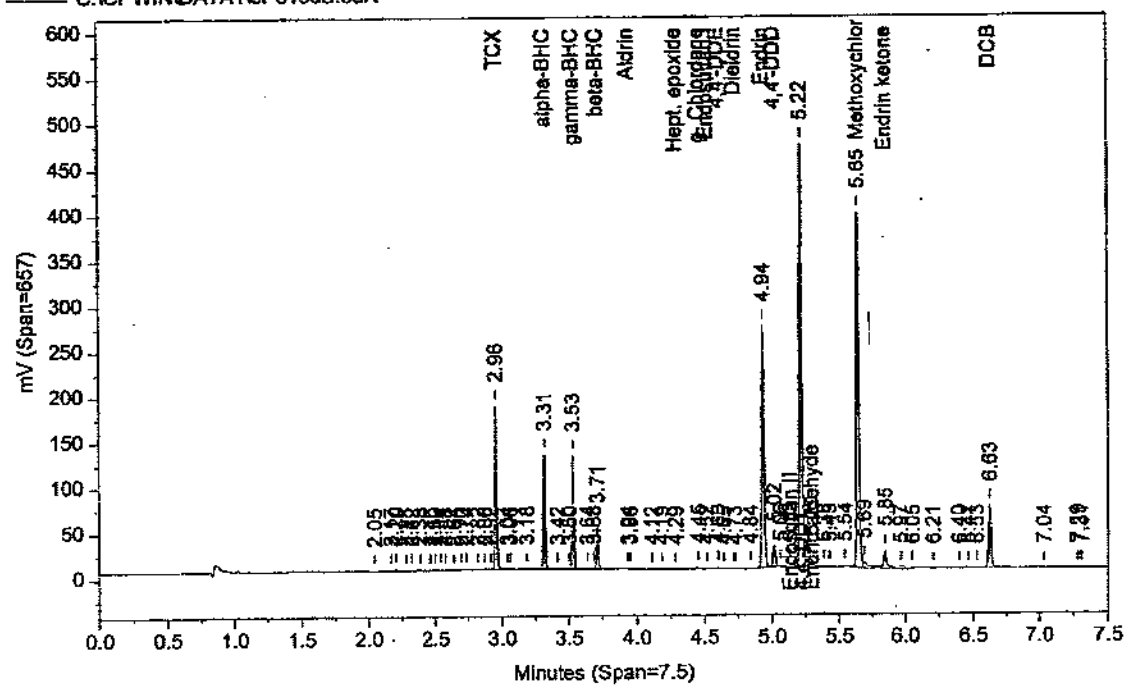


EVALX1124A SFPEMSF PEM 1119499999
C:\CPWIN\DATA1\3P6193B.35R

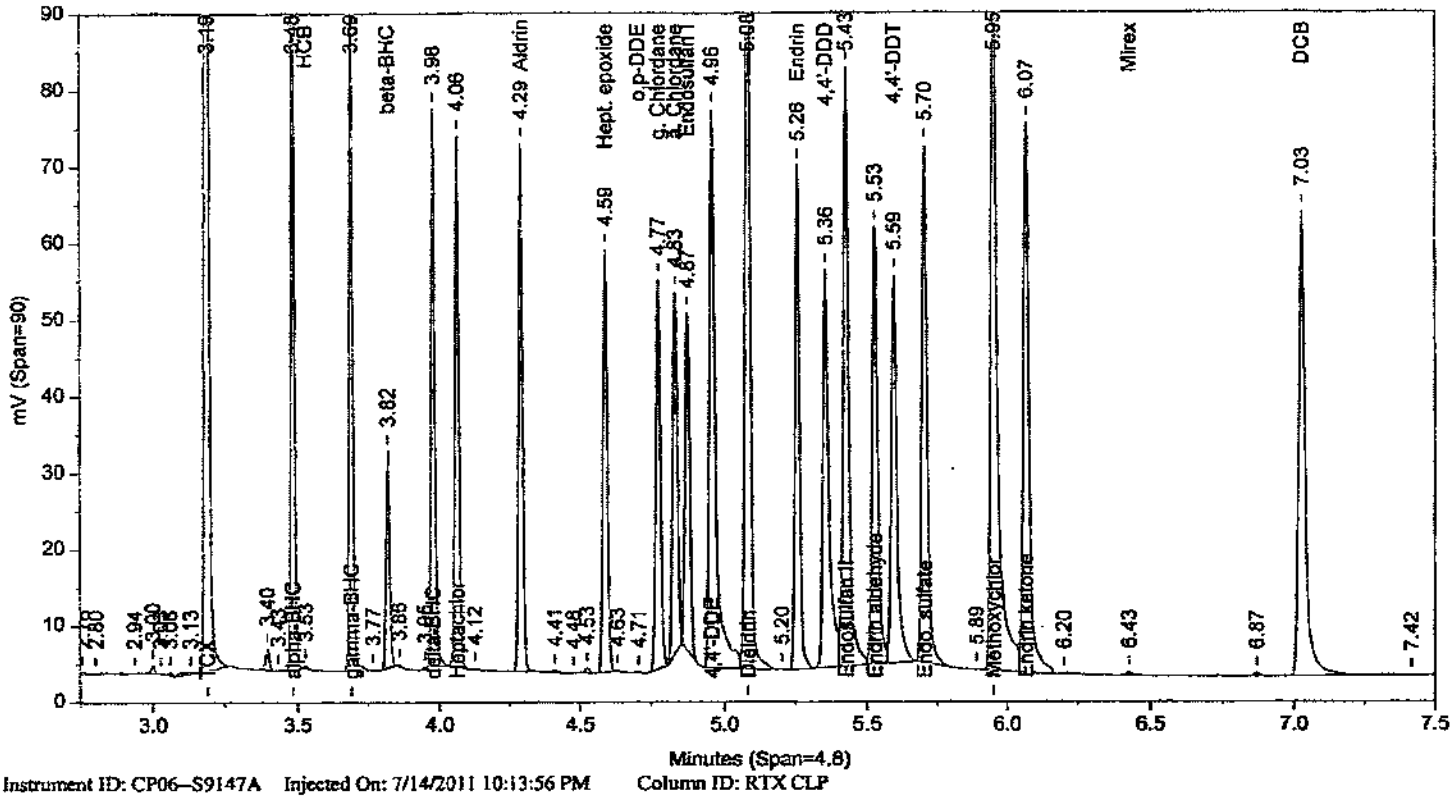


USF93 1782

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.36R

MIXA31124D MVMIXA3MV CCAL 1119499999

C:\CPWIN\DATA1\3P6193.36R

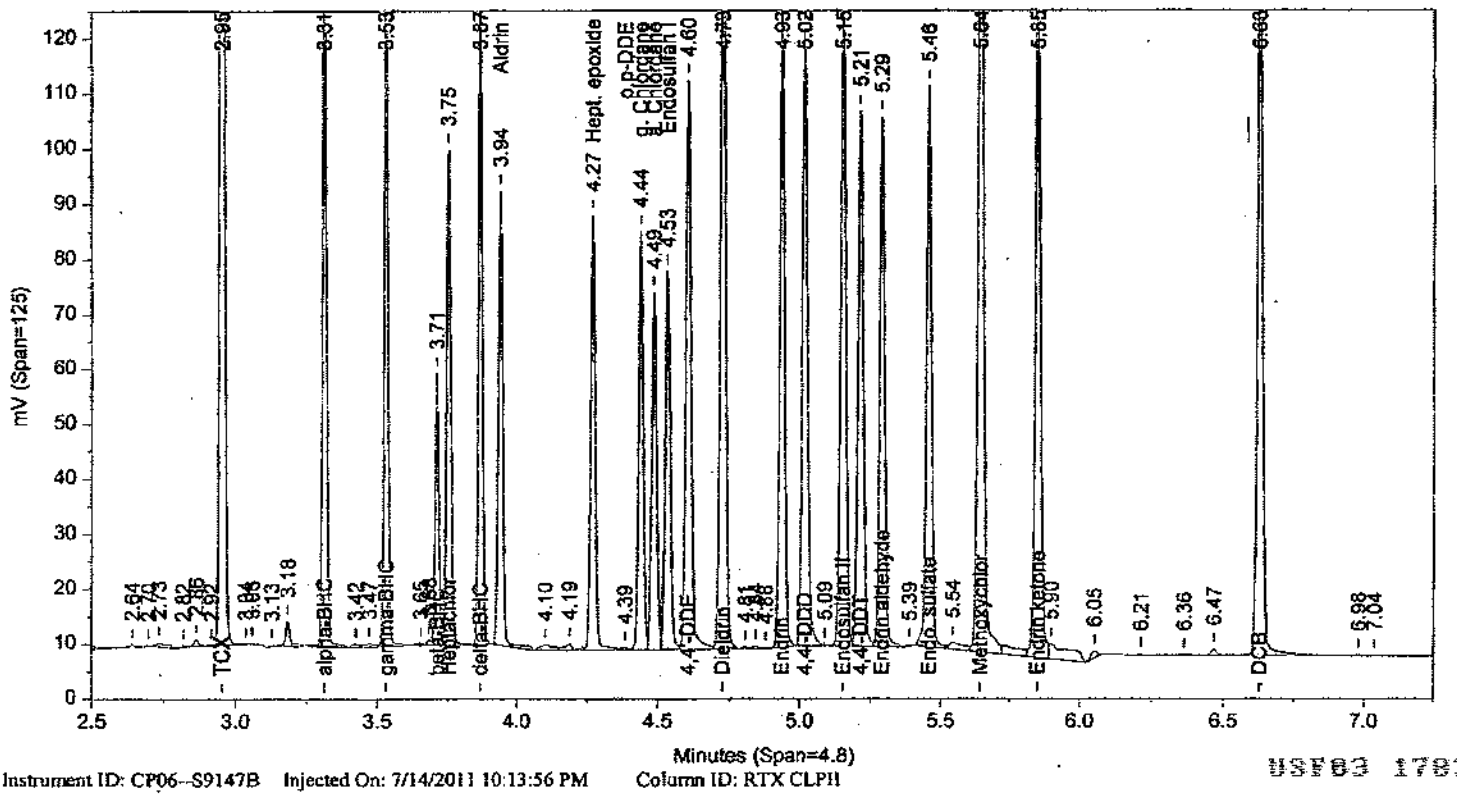


Instrument ID: CP06--S9147A Injected On: 7/14/2011 10:13:56 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\3P6193B.36R

MIXA31124D MVMIXA3MV CCAL 1119499999

C:\CPWIN\DATA1\3P6193B.36R



Instrument ID: CP06--S9147B Injected On: 7/14/2011 10:13:56 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Valve Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.189	225873	42.9757	TCX	2.953	357539	40.7692	TCX
3.484	105562	10.69311	alpha-BHC	3.313	143294	9.87289	alpha-BHC
3.529	436	.07341	HCB	.	0	.	HCB
3.691	88565	10.58934	gamma-BHC	3.53	125854	9.62819	gamma-BHC
3.818	29376	9.92166	beta-BHC	3.711	49796	9.38194	beta-BHC
4.062	71472	10.77938	Heptachlor	3.752	91894	9.59483	Heptachlor
3.977	73669	10.94702	delta-BHC	3.866	120312	10.1021	delta-BHC
4.291	69784	10.33041	Aldrin	3.939	83710	9.64634	Aldrin
4.589	55536	10.14415	Hept. epoxide	4.271	80175	9.41659	Hept. epoxide
4.705	170	.0654	o,p-DDE	4.387	419	.07927	o,p-DDE
4.775	51833	10.22084	g. Chlordane	4.441	77121	9.32667	g. Chlordane
4.832	48550	10.10659	a. Chlordane	4.487	65301	9.11341	a. Chlordane
4.873	44263	10.10307	Endosulfan I	4.534	69264	9.23442	Endosulfan I
4.958	73657	21.76542	4,4'-DDE	4.605	104633	14.84216	4,4'-DDE
5.082	104297	21.26853	Dieldrin	4.725	150676	18.929	Dieldrin
5.258	67194	16.89063	Endrin	4.934	116251	17.58007	Endrin
5.358	52882	22.77148	4,4'-DDD	5.018	113367	20.75768	4,4'-DDD
5.429	79033	22.47349	Endosulfan II	5.153	118227	19.81505	Endosulfan II
5.594	51154	18.99463	4,4'-DDT	5.214	97424	17.93565	4,4'-DDT
5.528	57967	23.45233	Endrin aldehyde	5.288	97996	21.15777	Endrin aldehyde
5.704	67664	21.82324	Endo. sulfate	5.456	102300	20.95947	Endo. sulfate
5.952	96921	102.7434	Methoxychlor	5.644	181135	92.73016	Methoxychlor
6.069	72371	22.82773	Endrin ketone	5.851	129413	20.93803	Endrin ketone
6.428	431	.20426	Mirex	.	0	.	Mirex
7.029	60951	45.31352	DCB	6.628	138171	39.35396	DCB

Files:
Area File: C:\CPWIN\DATA1\3P6193.36A
Area File: C:\CPWIN\DATA1\3P6193B.36A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/14/2011 10:21:32 PM
File Reported On: 7/14/2011 at 10:21:39 PM

USF03 1784

Files:
REPLOTS

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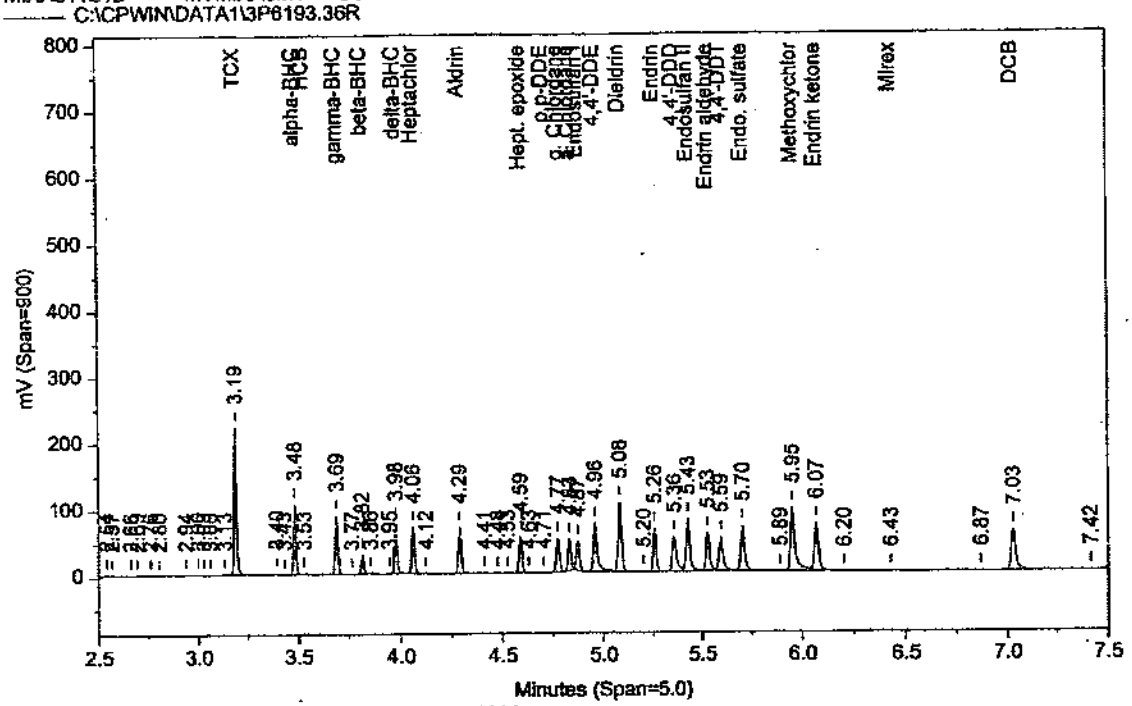

MIXA31124D MVMIXA3MV CCAL 1119499999
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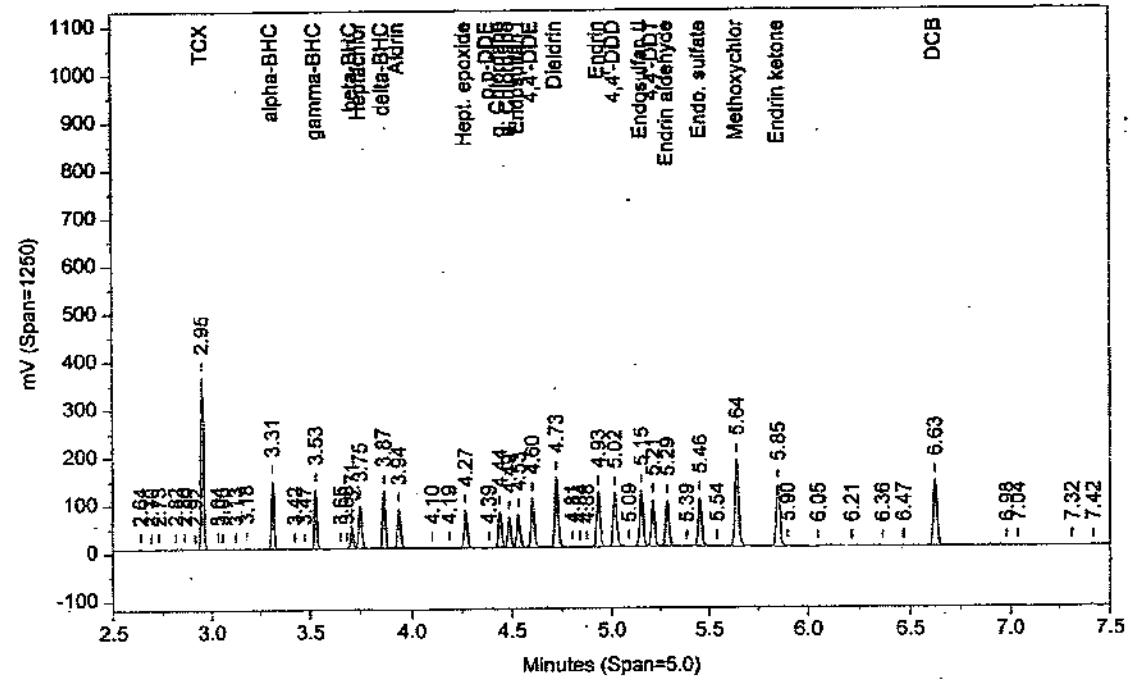

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.37R

MIXE31124B UJMIXE3UJ CCAL 1119499999

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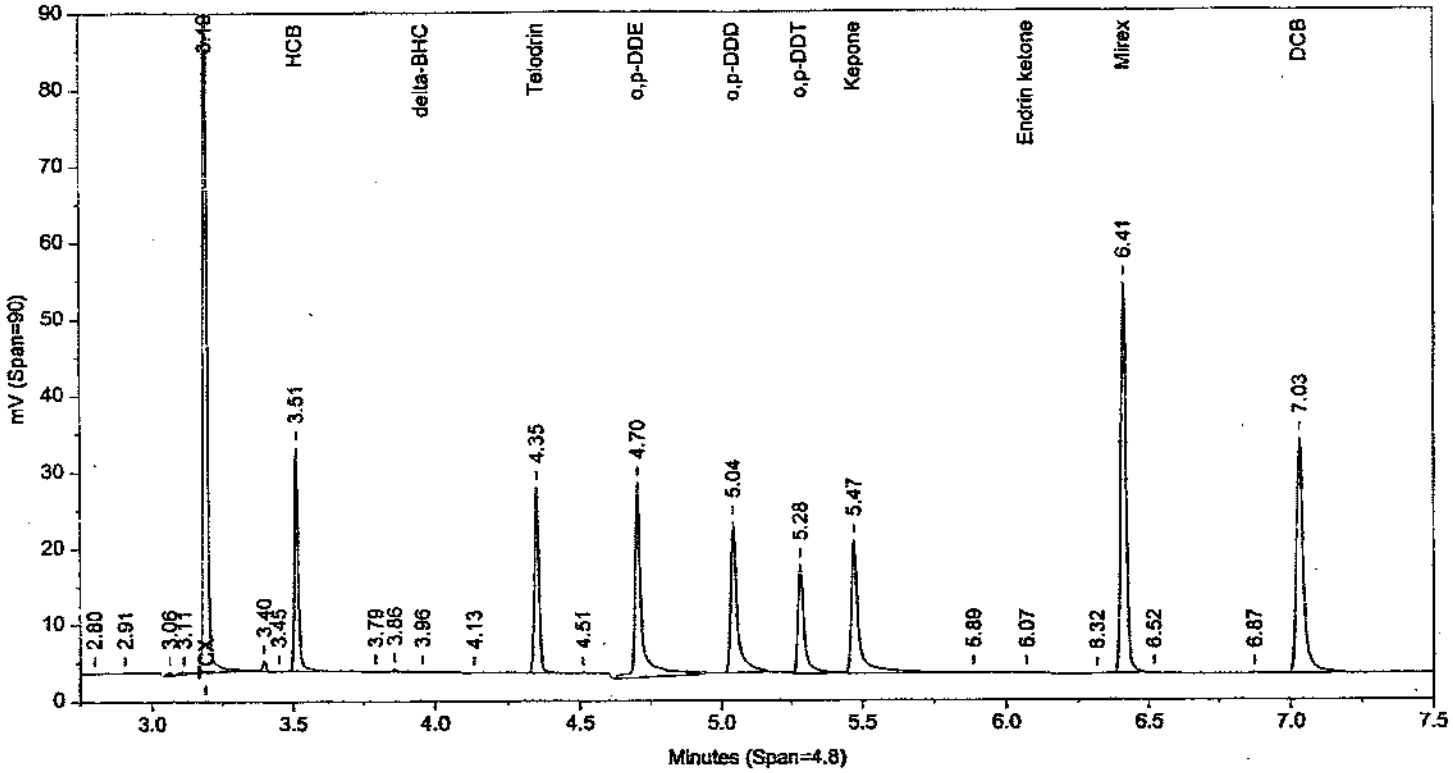
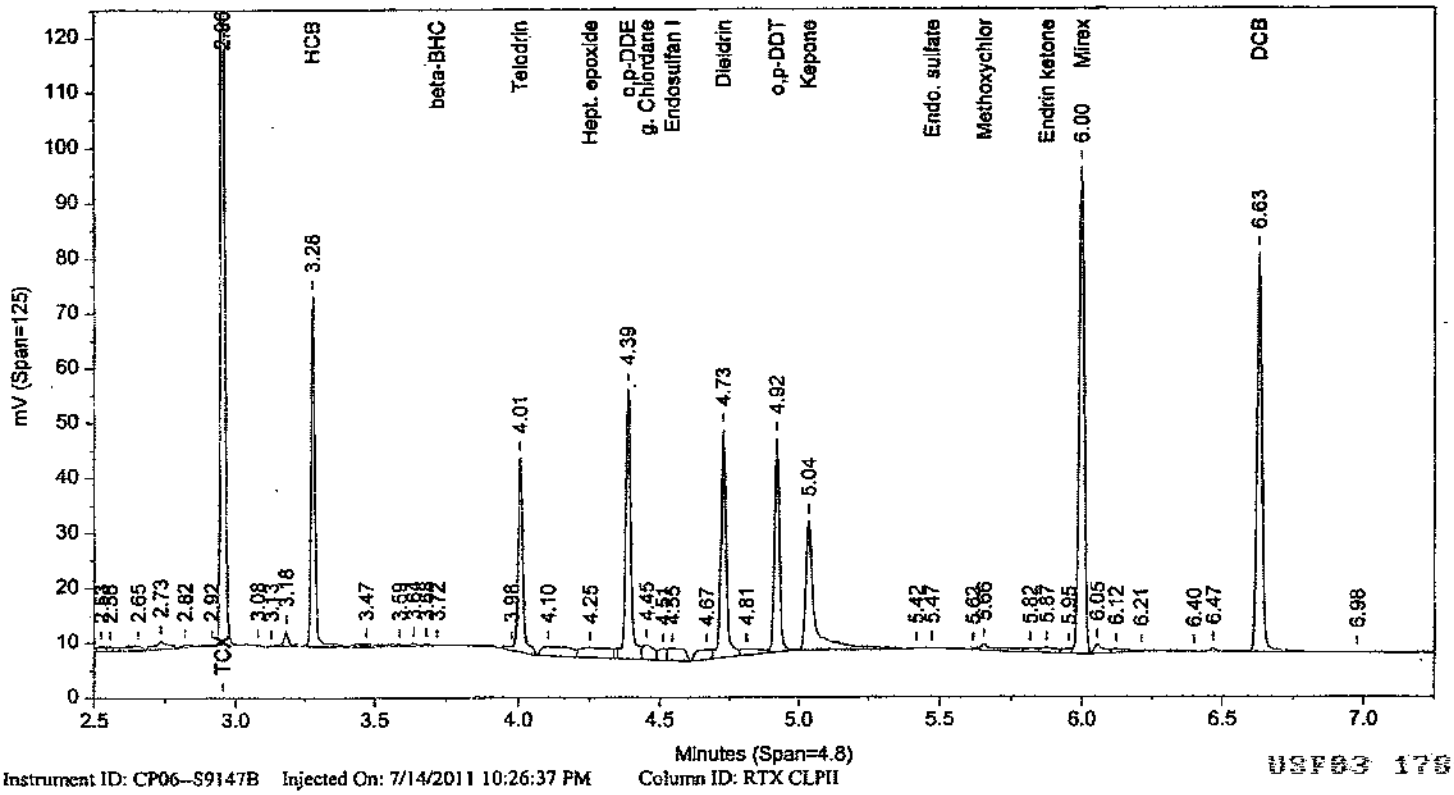


Instrument ID: CP06--S9147A Injected On: 7/14/2011 10:26:37 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\3P6193B.37R

MIXE31124B UJMIXE3UJ CCAL 1119499999

C:\CPWIN\DATA1\3P6193B.37R



Instrument ID: CP06--S9147B Injected On: 7/14/2011 10:26:37 PM Column ID: RTX CLPII

USP83 1796

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMulldrle Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.19	118891	22.62079	TCX	2.955	184263	21.011	TCX
3.512	30102	5.07396	HCB	3.279	64262	4.66472	HCB
.	0	.	beta-BHC	3.72	174	.03286	beta-BHC
3.957	105	.01562	delta-BHC	.	0	.	delta-BHC
4.349	24703	9.7057	Telodrin	4.007	35428	4.65007	Telodrin
.	0	.	Hept. epoxide	4.253	1873	.21998	Hept. epoxide
4.703	25571	9.85163	o,p-DDE	4.388	50033	9.47367	o,p-DDE
.	0	.	g. Chlordane	4.454	2703	.32685	g. Chlordane
.	0	.	Endosulfan I	4.546	2165	.28859	Endosulfan I
.	0	.	Dieldrin	4.729	41857	5.25836	Dieldrin Lo pDDD
5.281	14438	8.61505	o,p-DDT	4.921	39373	8.72732	o,p-DDT
5.472	17665	24.10658	Kepone	5.036	23622	24.29375	Kepone
5.042	20064	9.96617	o,p-DDD	.	0	.	o,p-DDD
.	0	.	Endo. sulfate	5.473	189	.03867	Endo. sulfate
.	0	.	Methoxychlor	5.655	1082	.55416	Methoxychlor
6.07	107	.03391	Endrin ketone	5.874	967	.1564	Endrin ketone
6.411	51803	24.57602	Mirex	5.998	88912	22.60906	Mirex
7.031	30992	23.04057	DCB	6.63	72634	20.68766	DCB

Files:
Area File: C:\CPWIN\DATA1\3P6193.37A
Area File: C:\CPWIN\DATA1\3P6193B.37A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/14/2011 10:34:14 PM
File Reported On: 7/14/2011 at 10:34:20 PM

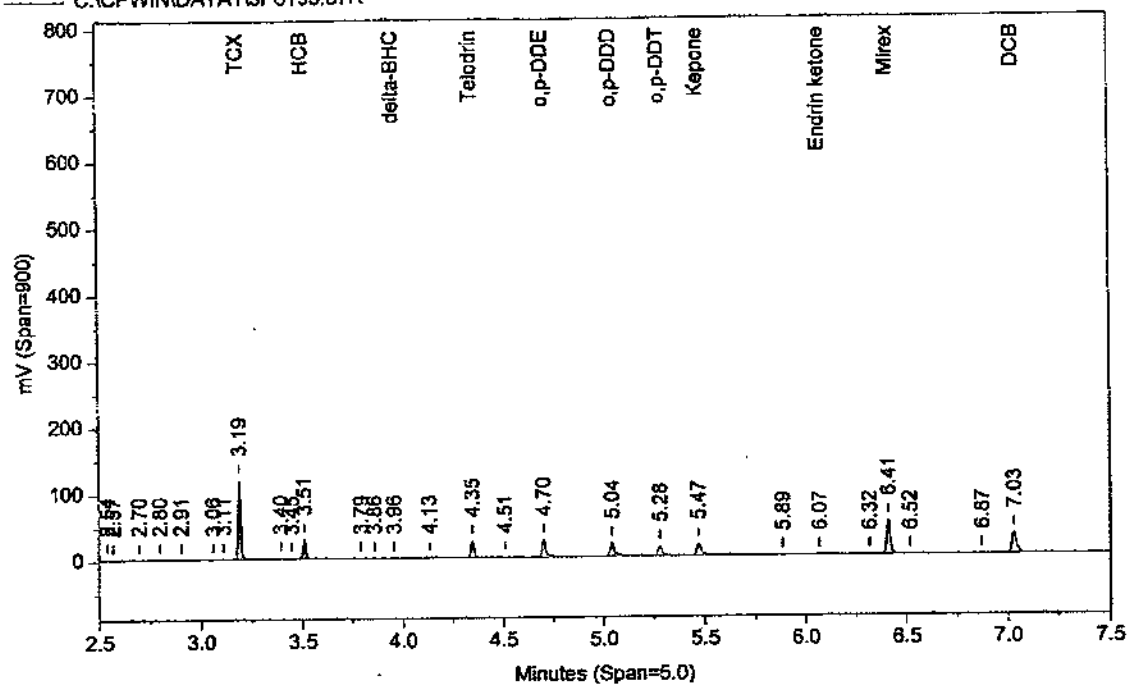
$\frac{41857}{4374} = 9.57$

7/15/11

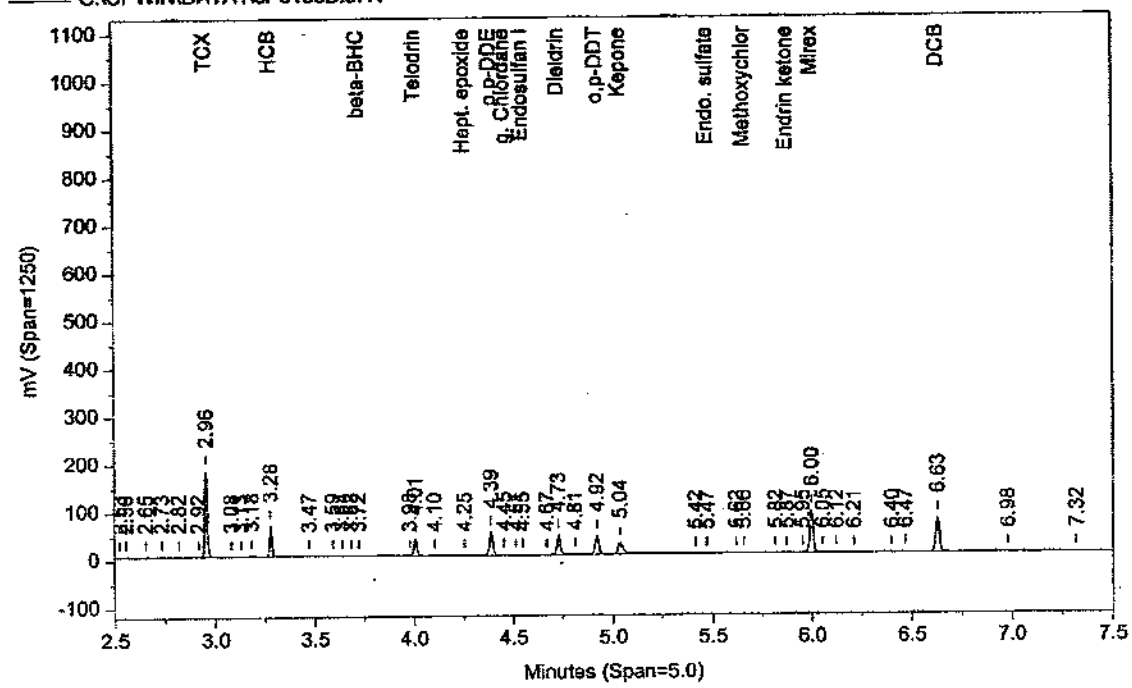
REPLOTS

USF03 1787

MIXE31124B UJMIXE3UJ CCAL 1119499999
C:\CPWIN\DATA1\3P6193.37R



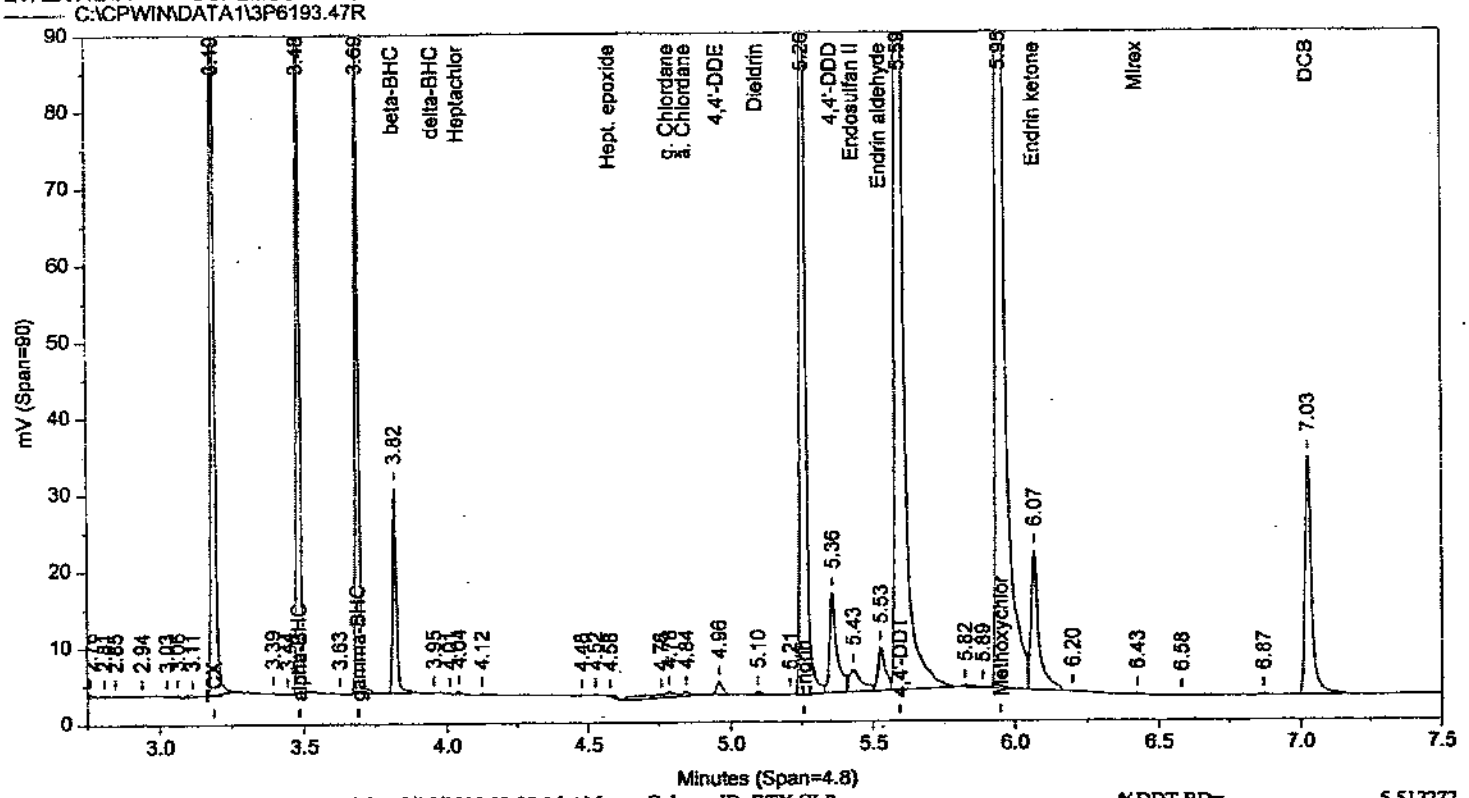
MIXE31124B UJMIXE3UJ CCAL 1119499999
C:\CPWIN\DATA1\3P6193B.37R



LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.47R

EVALX1124A SGPEMSG PEM 1119499999

C:\CPWIN\DATA1\3P6193.47R



Instrument ID: CP06--S9147A Injected On: 7/15/2011 12:33:16 AM Column ID: RTX CLP

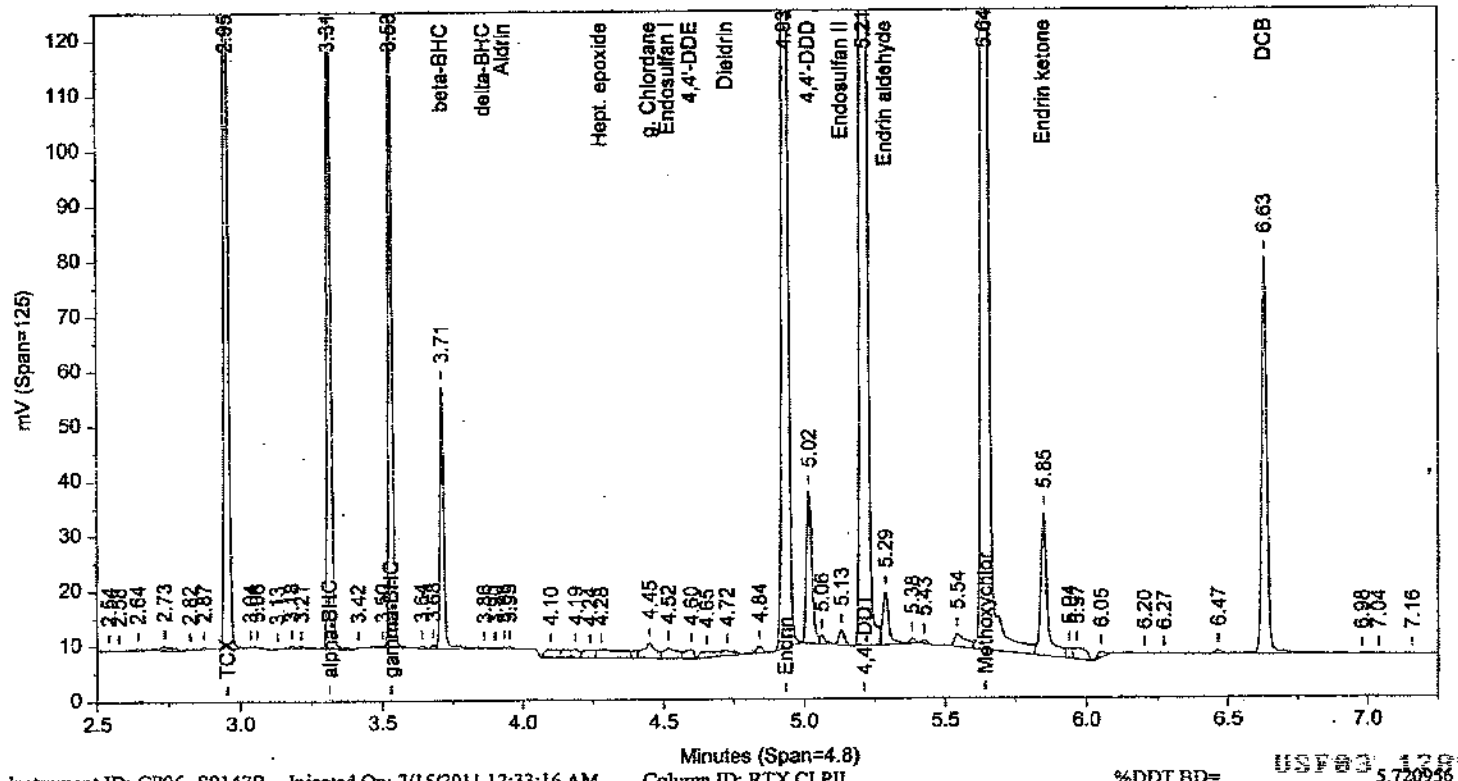
%DDT BD= 5.512272

%ENDRIN BD= 15.20792

File: C:\CPWIN\DATA1\3P6193B.47R

EVALX1124A SGPEMSG PEM 1119499999

C:\CPWIN\DATA1\3P6193B.47R



Instrument ID: CP06--S9147B Injected On: 7/15/2011 12:33:16 AM Column ID: RTX CLPII

%DDT BD= 5.720956

%ENDRIN BD= 11.66895

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minValidate Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

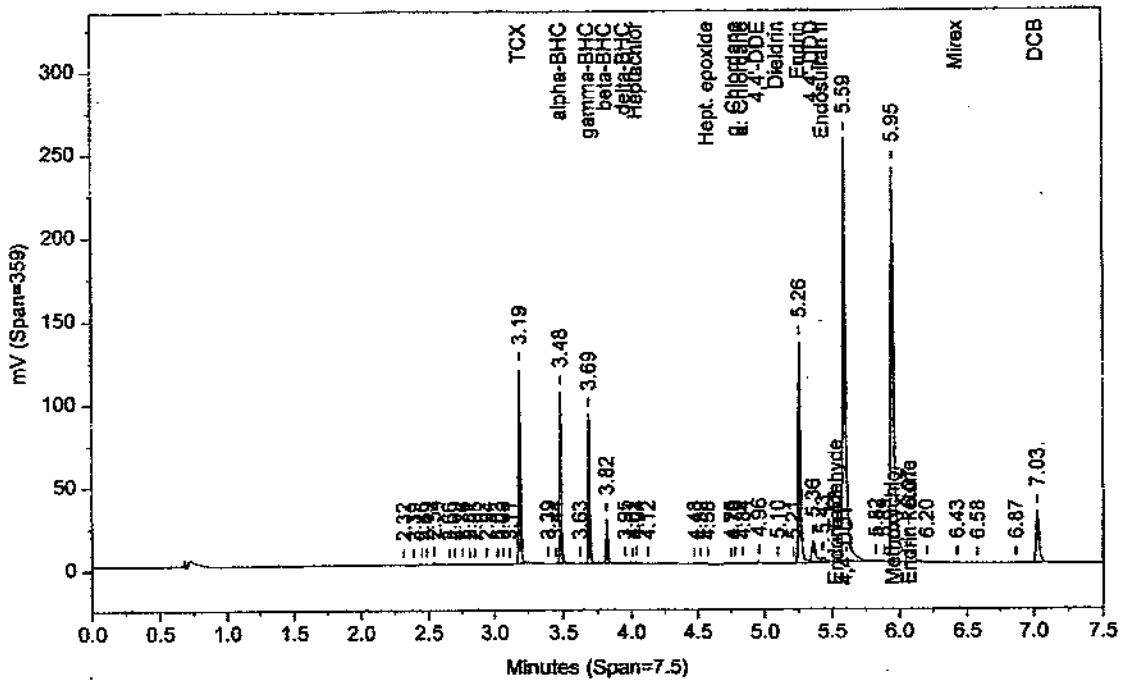
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.189	120842	22.992	TCX	2.953	191261	21.809	TCX
3.484	104095	10.545	alpha-BHC	3.313	136750	9.422	alpha-BHC
3.69	90072	10.77	gamma-BHC	3.53	131435	10.055	gamma-BHC
3.818	27714	9.36	beta-BHC	3.71	47769	9.	beta-BHC
3.955	61	.009	delta-BHC	3.864	261	.022	delta-BHC
.	0	.	Aldrin	3.934	360	.041	Aldrin
4.042	361	.054	Heptachlor	.	0	.	Heptachlor
4.579	265	.048	Hept. epoxide	4.28	1496	.176	Hept. epoxide
4.784	658	.13	g. Chlordane	4.452	2703	.327	g. Chlordane
.	0	.	Endosulfan I	4.517	1894	.253	Endosulfan I
4.958	1660	.49	4,4'-DDE	4.598	1709	1.788	4,4'-DDE
5.097	372	.076	Dieldrin	4.725	963	.121	Dieldrin
4.842	486	.101	a. Chlordane	.	0	.	a. Chlordane
5.257	133128	32.543	Endrin	4.934	269744	40.792	Endrin
5.358	13289	5.722	4,4'-DDD	5.017	27593	5.052	4,4'-DDD
5.431	2899	.824	Endosulfan II	5.132	2656	.445	Endosulfan II
5.594	256246	88.967	4,4'-DDT	5.214	482885	88.898	4,4'-DDT
5.528	5662	2.291	Endrin aldehyde	5.288	9670	2.088	Endrin aldehyde
5.951	240153	254.58	Methoxychlor	5.644	398295	203.902	Methoxychlor
6.07	18215	5.745	Endrin ketone	5.851	25965	4.201	Endrin ketone
6.426	229	.109	Mirex	.	0	.	Mirex
7.028	31572	23.472	DCB	6.628	72565	20.668	DCB

Files:
Area File: C:\CPWIN\DATA1\3P6193.47A
Area File: C:\CPWIN\DATA1\3P6193B.47A
Method A: C:\CPWIN\DATA1\EVALD.MET
Method B: C:\CPWIN\DATA1\EVALDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\EVALD.FMTA
Format B: C:\CPWIN\DATA1\EVALD.FMTB
Area File Created On: 7/15/2011 12:40:52 AM
File Reported On: 7/15/2011 at 12:41:01 AM

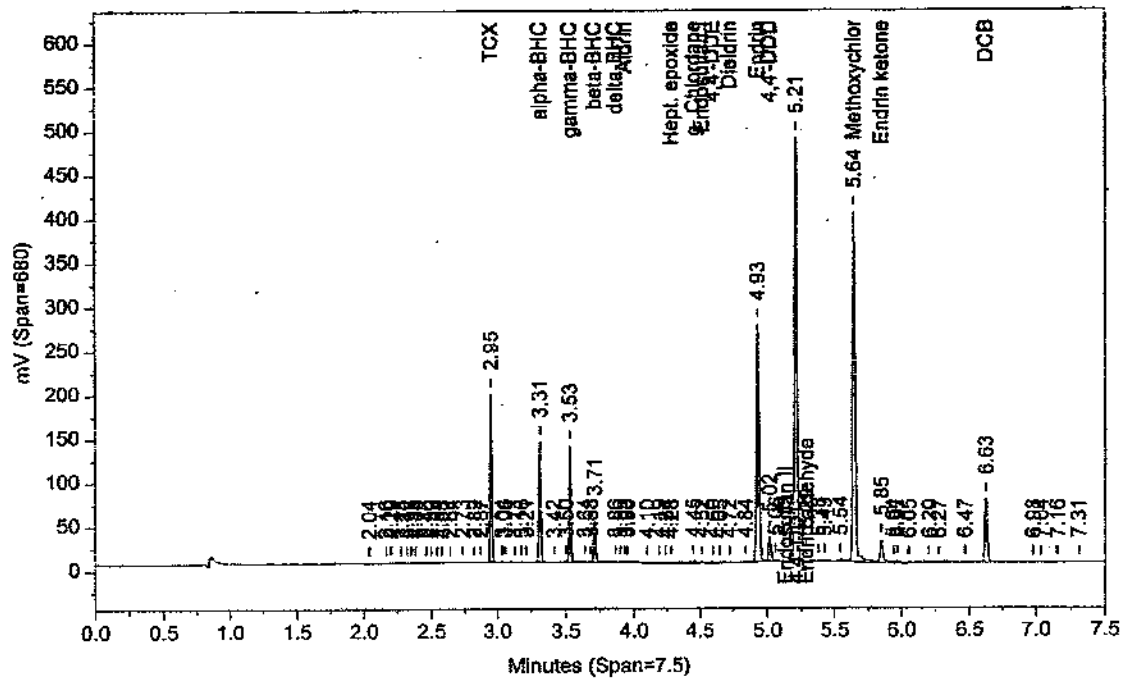
REPLOTS

USF03 1796

EVALX1124A SGPEMSG PEM 1119499999
C:\CPWIN\DATA1\3P6193.47R



EVALX1124A SGPEMSG PEM 1119499999
C:\CPWIN\DATA1\3P6193B.47R

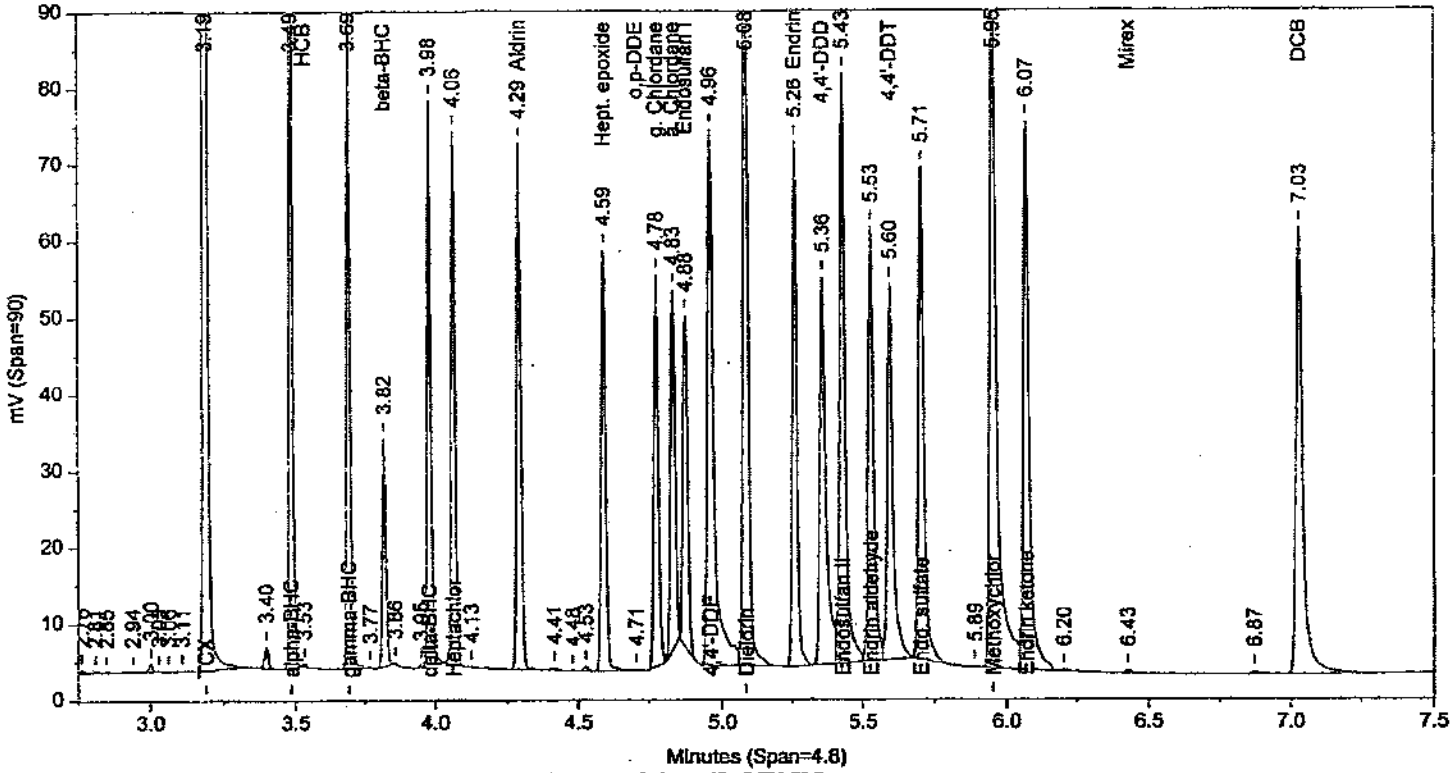


USFW3 1791

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.48R

MIXA31124D MYMIXA3MY CCAL 1119499999

C:\CPWIN\DATA1\3P6193.48R

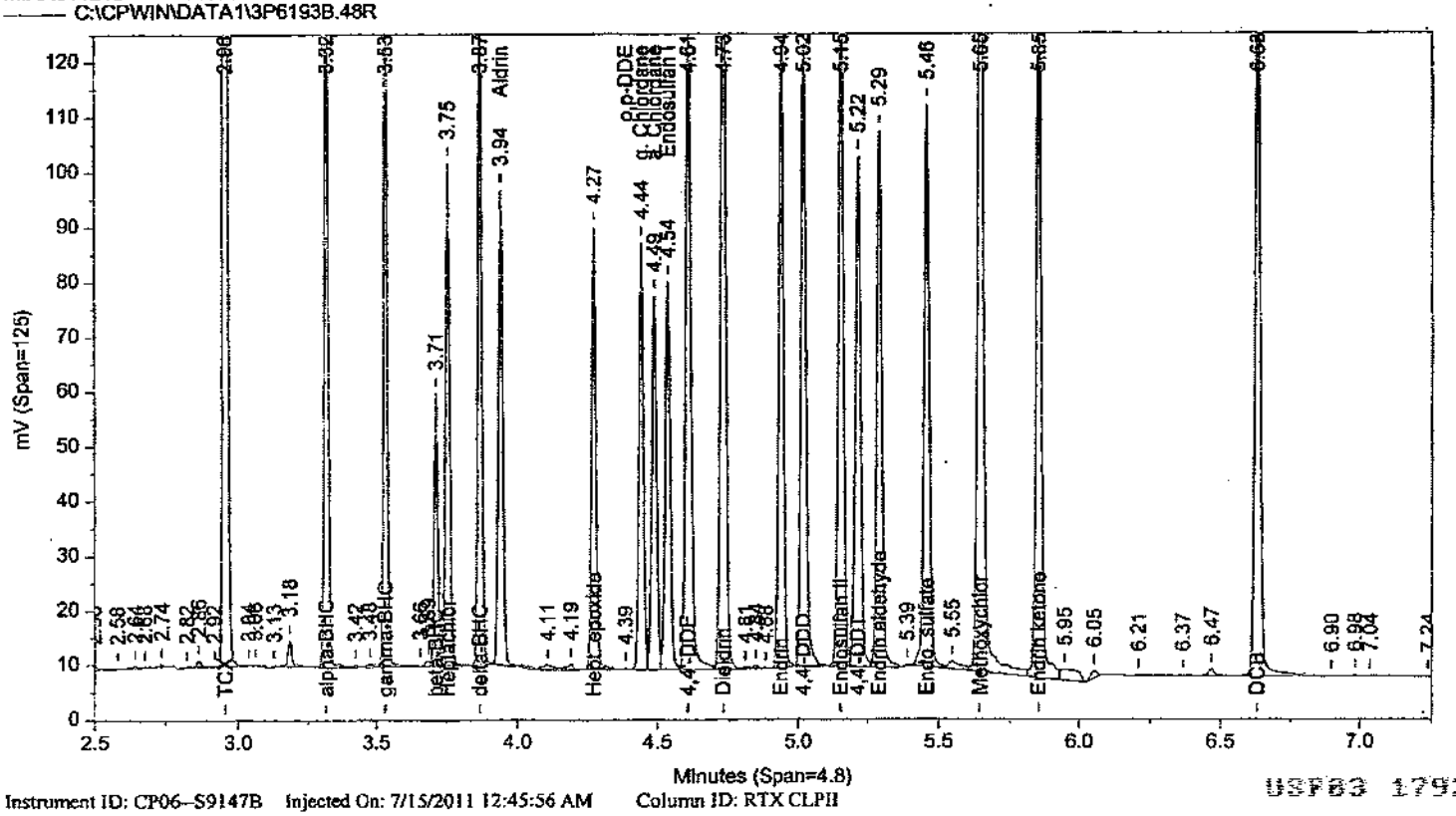


Instrument ID: CP06--S9147A Injected On: 7/15/2011 12:45:56 AM Column ID: RTX CLP

File: C:\CPWIN\DATA1\3P6193B.48R

MIXA31124D MYMIXA3MY CCAL 1119499999

C:\CPWIN\DATA1\3P6193B.48R



Instrument ID: CP06--S9147B Injected On: 7/15/2011 12:45:56 AM Column ID: RTX CLPII

USP83 1792

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minMethlrin Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

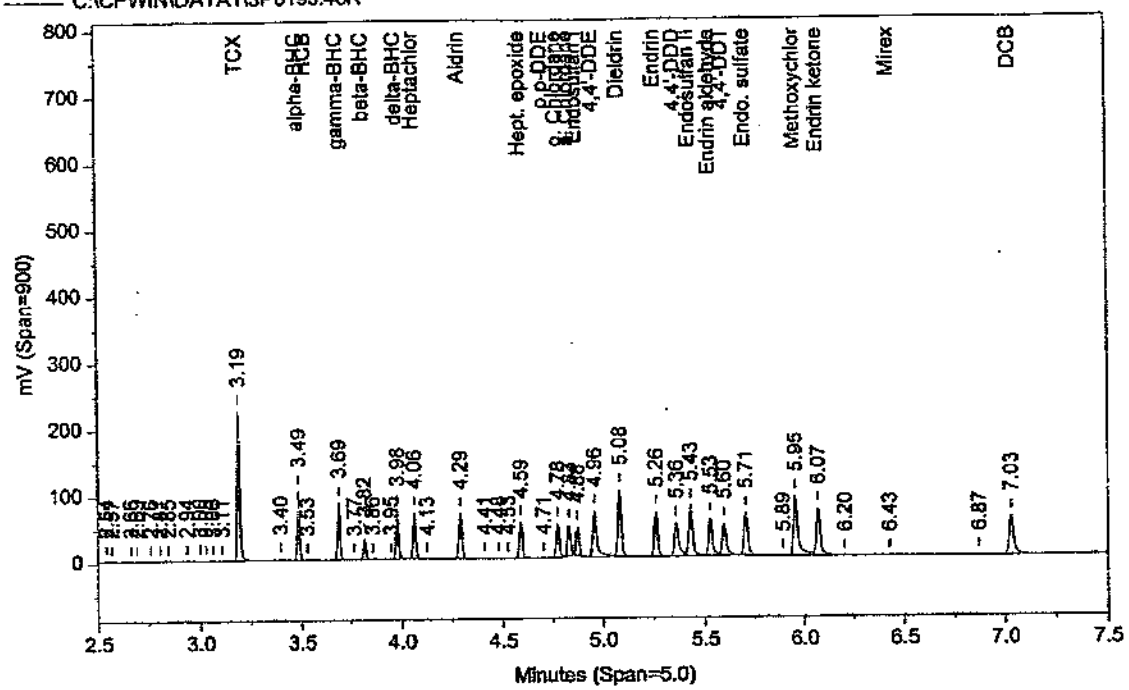
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.191	227153	43.21927	TCX	2.956	365668	41.69623	TCX
3.486	104356	10.57093	alpha-BHC	3.315	142651	9.82857	alpha-BHC
3.531	406	.06852	HCB	.	0	.	HCB
3.693	87604	10.47446	gamma-BHC	3.532	127443	9.74975	gamma-BHC
3.82	29918	10.10483	beta-BHC	3.713	49985	9.41757	beta-BHC
4.063	69769	10.52254	Heptachlor	3.754	91817	9.58679	Heptachlor
3.98	74028	11.00038	delta-BHC	3.868	119884	10.06615	delta-BHC
4.292	69504	10.28895	Aldrin	3.94	86838	10.00673	Aldrin
4.591	55753	10.18383	Hept. epoxide	4.273	80925	9.50467	Hept. epoxide
4.707	141	.0545	o,p-DDE	4.387	301	.05697	o,p-DDE
4.776	51319	10.11942	g. Chlordane	4.443	78013	9.43461	g. Chlordane
4.833	46997	9.78327	a. Chlordane	4.489	68922	9.6188	a. Chlordane
4.875	44003	10.04361	Endosulfan I	4.536	71240	9.49788	Endosulfan I
4.96	70022	20.69135	4,4'-DDE	4.606	119407	16.71599	4,4'-DDE
5.084	102947	20.99336	Dieldrin	4.727	153121	19.23619	Dieldrin
5.26	68641	17.2343	Endrin	4.936	113766	17.2042	Endrin
5.359	50736	21.84701	4,4'-DDD	5.019	114539	20.97228	4,4'-DDD
5.43	77166	21.94276	Endosulfan II	5.154	121718	20.40019	Endosulfan II
5.596	49235	18.33982	4,4'-DDT	5.215	94919	17.47451	4,4'-DDT
5.529	56791	22.97655	Endrin aldehyde	5.289	98227	21.20756	Endrin aldehyde
5.705	65482	21.1643	Endo. sulfate	5.457	102675	21.03636	Endo. sulfate
5.954	90802	96.25626	Methoxychlor	5.645	173386	88.76309	Methoxychlor
6.071	71831	22.65743	Endrin ketone	5.853	130694	21.14525	Endrin ketone
6.428	420	.19931	Mirex	.	0	.	Mirex
7.031	58575	43.54732	DCB	6.631	138501	39.44806	DCB

Files:
Area File: C:\CPWIN\DATA1\3P6193.48A
Area File: C:\CPWIN\DATA1\3P6193B.48A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/15/2011 12:53:32 AM
File Reported On: 7/15/2011 at 12:53:39 AM

USPBS 1793

Files:
REPLOTS

MIXA31124D MYMIXA3MY CCAL 1119499999
C:\CPWIN\DATA1\3P6193.48R



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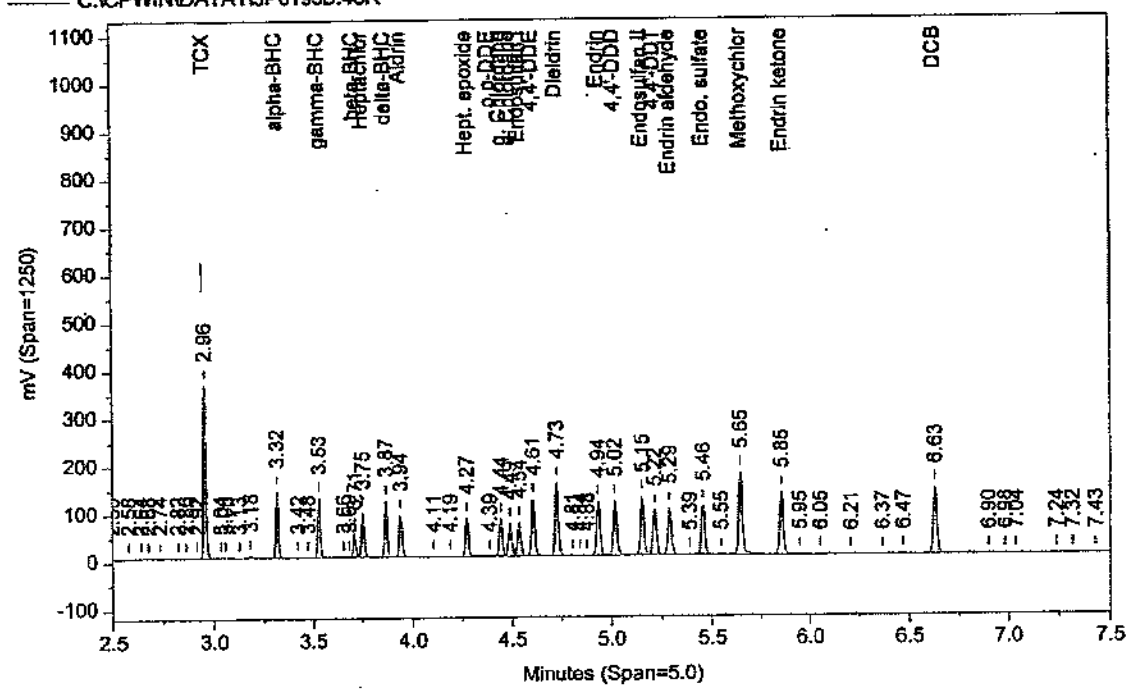
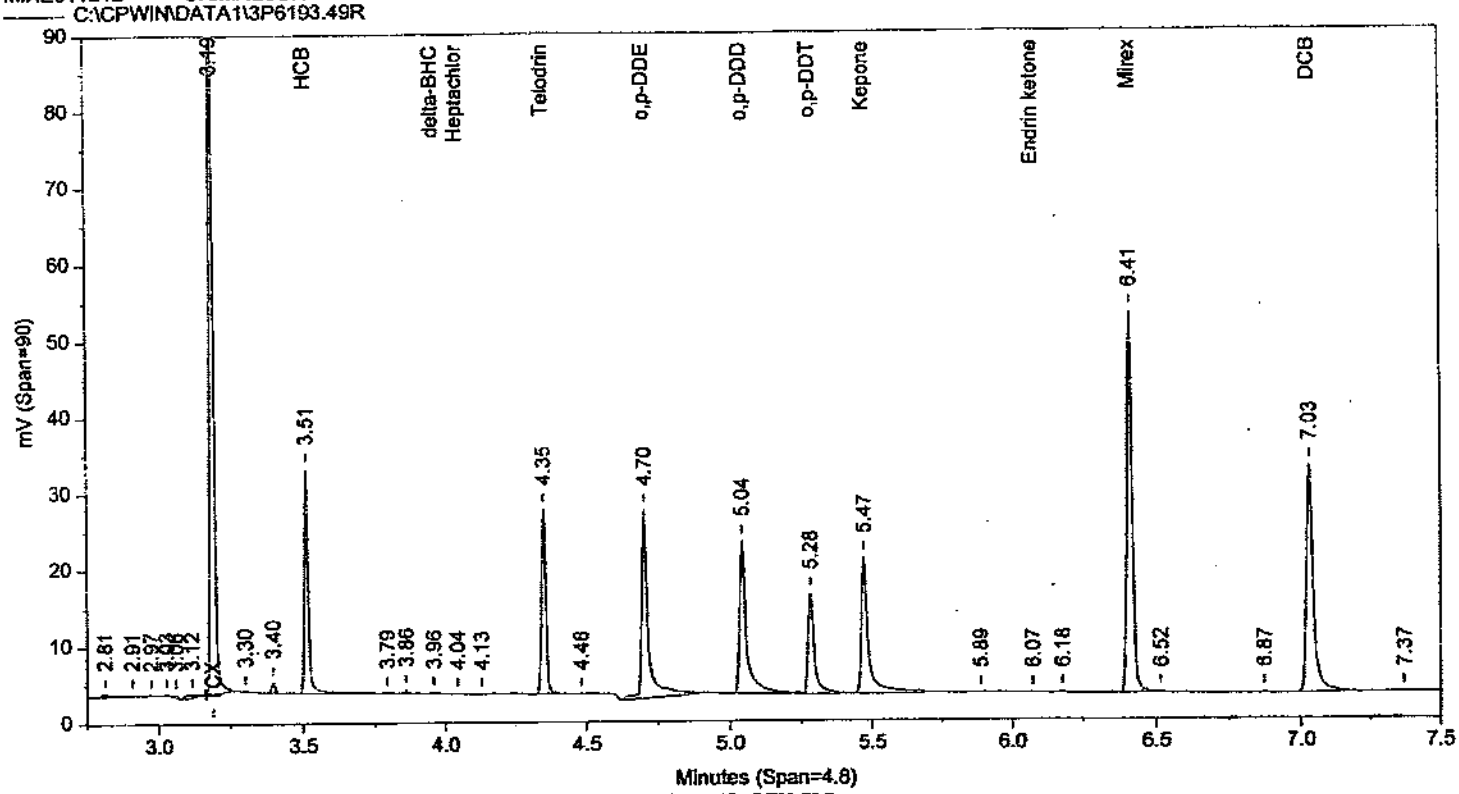


USF03 1794

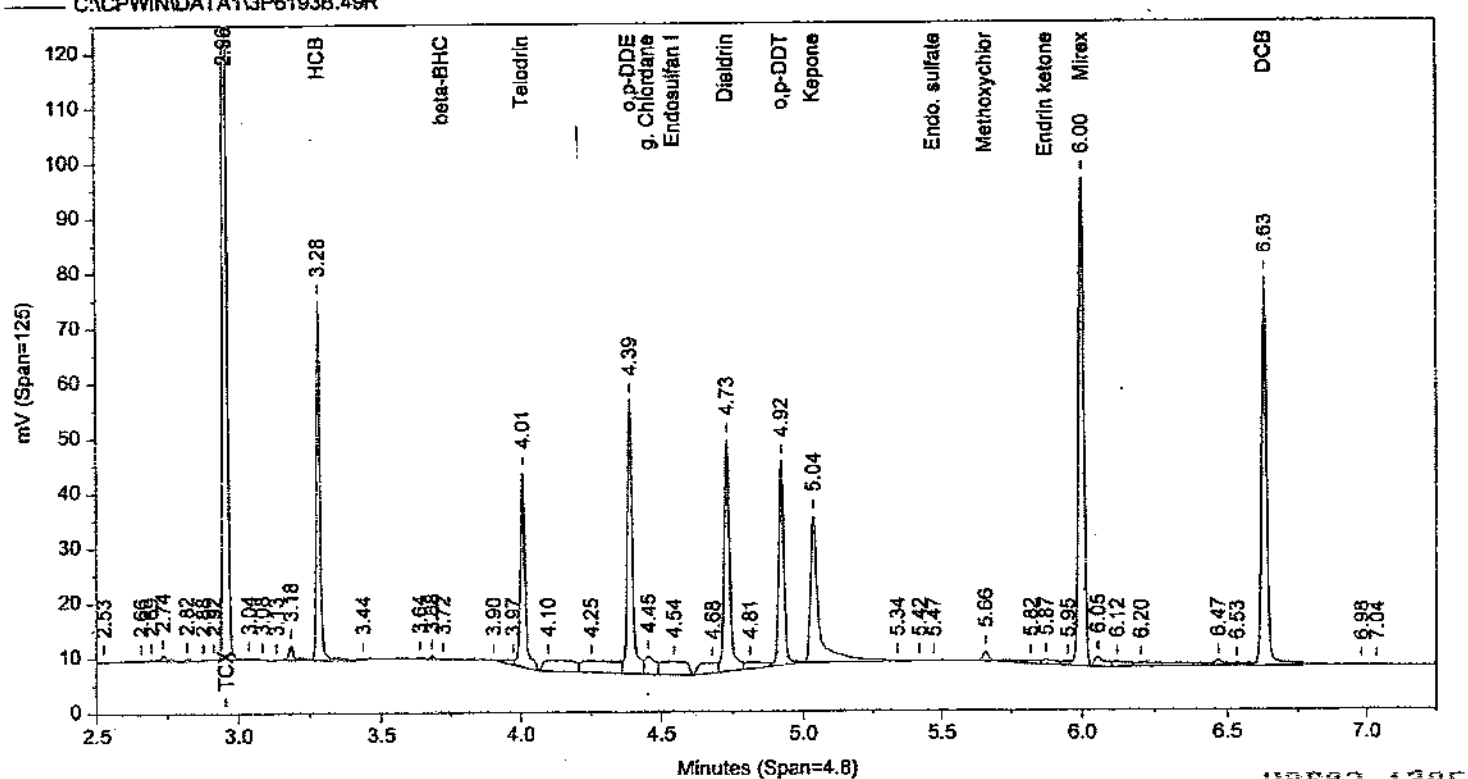
LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.49R
MIXE31124B UKMIXE3UK CCAL 1119499999
C:\CPWIN\DATA1\3P6193.49R



Instrument ID: CP06--S9147A Injected On: 7/15/2011 12:58:37 AM Column ID: RTX CLP

File: C:\CPWIN\DATA1\3P6193B.49R

MIXE31124B UKMIXE3UK CCAL 1119499999
C:\CPWIN\DATA1\3P6193B.49R



Instrument ID: CP06--S9147B Injected On: 7/15/2011 12:58:37 AM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Multidrie Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.191	115852	22.04264	TCX	2.956	186639	21.28195	TCX
3.513	29601	4.98958	HCB	3.28	65422	4.74895	HCB
.	0	.	beta-BHC	3.722	159	.02988	beta-BHC
3.959	123	.01824	delta-BHC	.	0	.	delta-BHC
4.35	24226	9.51838	Telodrin	4.008	35752	4.6926	Telodrin
4.043	54	.00808	Heptachlor	.	0	.	Heptachlor
4.703	24664	9.5022	o,p-DDE	4.389	50022	9.47171	o,p-DDE
.	0	.	g. Chlordane	4.454	3198	.3868	g. Chlordane
.	0	.	Endosulfan I	4.545	2364	.31511	Endosulfan I
.	0	.	Dieldrin	4.729	42556	5.34614	Dieldrin / DDDD
5.282	13209	7.8819	o,p-DDT	4.922	37652	8.34599	o,p-DDT
5.473	17823	24.31408	Kepone	5.036	26791	27.38102	Kepone
5.042	20141	10.00427	o,p-DDD	.	0	.	o,p-DDD
.	0	.	Endo. sulfate	5.472	83	.01695	Endo. sulfate
.	0	.	Methoxychlor	5.656	1775	.9088	Methoxychlor
6.074	57	.01788	Endrin ketone	5.873	884	.14305	Endrin ketone
6.412	50401	23.91127	Mirex	5.998	89931	22.86819	Mirex
7.031	29859	22.19826	DCB	6.63	70477	20.07338	DCB

Files:
Area File: C:\CPWIN\DATA1\3P6193.49A
Area File: C:\CPWIN\DATA1\3P6193B.49A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/15/2011 1:06:12 AM
File Reported On: 7/15/2011 at 1:06:20 AM

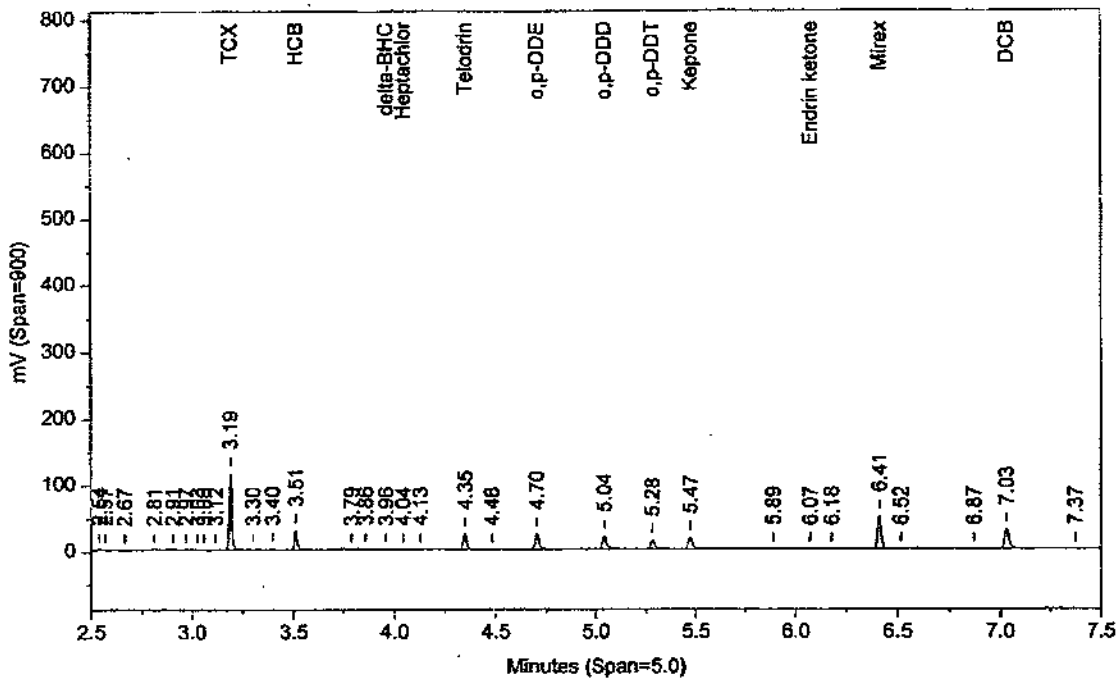
$\frac{42556}{4374} = 9.73$

7/15/11

REPLOTS

USF03 1796

MIXE31124B UKMIXE3UK CCAL 1119499999
C:\CPWIN\DATA1\3P6193.49R



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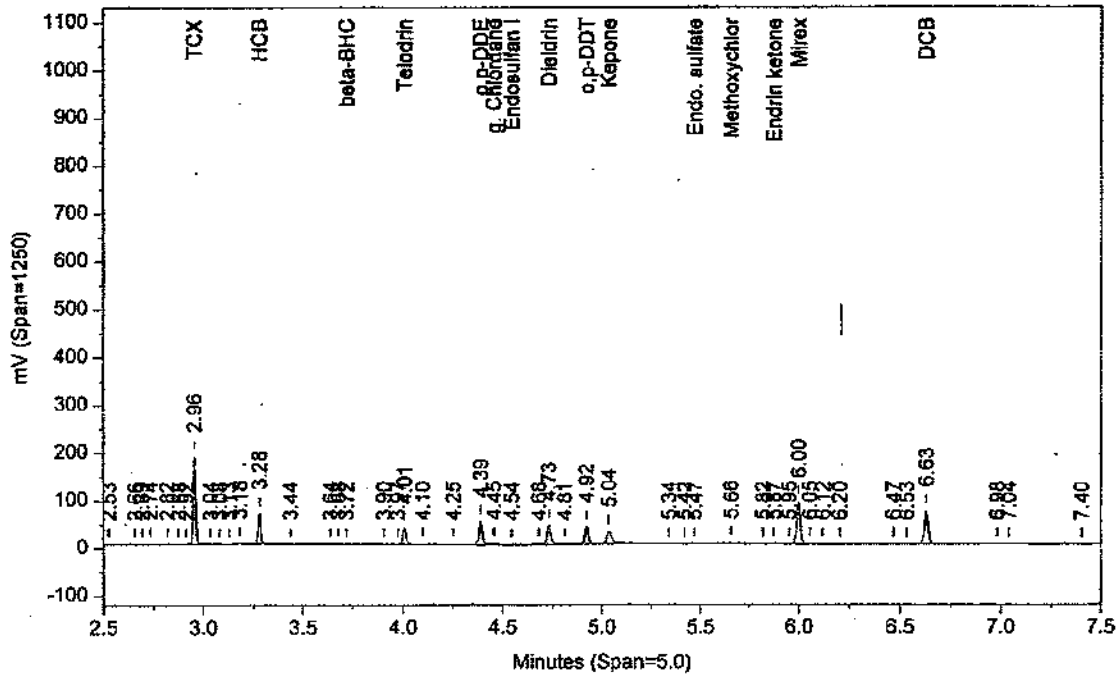

USF83 1797

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\CP10\C-Drive\CPWIN\DATA1\1P10200.seq
Chromatography Directory: \\CP10\C-Drive\CPWIN\DATA1
Method Directory: \\cp10\C-Drive\CPWIN\data1
Number of Entries: 85

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1	CONDITIONER	MISC	AA	1P10200.01R	PESTD.MET	1	1	1	0	1119599999	
2	CONDITIONER	MISC	AA	1P10200.02R	PESTD.MET	1	1	1	0	1119599999	
3	CONDITIONER	MISC	AA	1P10200.03R	PESTD.MET	1	1	1	0	1119599999	
4	BLKX1124A	PIBLK	AA	1P10200.04R	PESTD.MET	1000	10	1	0	1119599999	
5	EVALX1124A	IPEM	AA	1P10200.05R	EVALD.MET	1	1	1	0	1119599999	
6	MIXA11124A	ICAL	AA	1P10200.06R	PESTD.MET	1	1	1	1	1119599999	
7	MIXA21124A	ICAL	AA	1P10200.07R	PESTD.MET	1	1	1	2	1119599999	
8	MIXA31124C	ICAL	AA	1P10200.08R	PESTD.MET	1	1	1	3	1119599999	
9	MIXA41124A	ICAL	AA	1P10200.09R	PESTD.MET	1	1	1	4	1119599999	
10	MIXA51124A	ICAL	AA	1P10200.10R	PESTD.MET	1	1	1	5	1119599999	
11	ICMAX1124C	CCAL	JP	1P10200.11R	PESTD.MET	1	1	1	0	1119599999	
12	508AM1124E	CCAL	BV	1P10200.12R	PESTD.MET	1	1	1	0	1119899999	
13	MIXE11124B	ICAL	AA	1P10200.13R	PESTD.MET	1	1	1	0	1119599999	
14	MIXE21124B	ICAL	AA	1P10200.14R	PESTD.MET	1	1	1	0	1119599999	
15	MIXE31124B	ICAL	AA	1P10200.15R	PESTD.MET	1	1	1	0	1119599999	
16	MIXE41124B	ICAL	AA	1P10200.16R	PESTD.MET	1	1	1	0	1119599999	
17	MIXE51124B	ICAL	AA	1P10200.17R	PESTD.MET	1	1	1	0	1119599999	
18	TOXA11124B	ICAL	AA	1P10200.18R	PESTDI.MET	1	1	1	0	1119599999	
19	TOXA21124B	ICAL	AA	1P10200.19R	PESTDI.MET	1	1	1	0	1119599999	
20	TOXA31124C	ICAL	AA	1P10200.20R	PESTDI.MET	1	1	1	0	1119599999	
21	TOXA41124B	ICAL	AA	1P10200.21R	PESTDI.MET	1	1	1	0	1119599999	
22	TOXA51124B	ICAL	AA	1P10200.22R	PESTDI.MET	1	1	1	0	1119599999	
23	ICTXX1124B	CCAL	FU	1P10200.23R	PESTDI.MET	1	1	1	0	1119599999	
24	ICMAX1124C not used	CCAL	JW	1P10200.24R	PESTD.MET	1	1	1	0	1119999999	
25	ICMAX1124B	CCAL	JX	1P10200.25R	PESTD.MET	1	1	1	0	1119999999	
26	CHLD11124A	ICAL	AA	1P10200.26R	PESTDI.MET	1	1	1	0	1119599999	
27	CHLD21124A	ICAL	AA	1P10200.27R	PESTDI.MET	1	1	1	0	1119599999	
28	CHLD31124A	ICAL	AA	1P10200.28R	PESTDI.MET	1	1	1	0	1119599999	
29	CHLD41124A	ICAL	AA	1P10200.29R	PESTDI.MET	1	1	1	0	1119599999	
30	CHLD51124A	ICAL	AA	1P10200.30R	PESTDI.MET	1	1	1	0	1119599999	
31	AR1631124A	ICAL	AA	1P10200.31R	PESTDI.MET	1	1	1	0	1119599999	
32	AR2131124B	ICAL	AA	1P10200.32R	PESTDI.MET	1	1	1	0	1119599999	
33	AR32X1124B	ICAL	AA	1P10200.33R	PESTDI.MET	1	1	1	0	1119599999	
34	AR4231124B	ICAL	AA	1P10200.34R	PESTDI.MET	1	1	1	0	1119599999	
35	AR4831124A	ICAL	AA	1P10200.35R	PESTDI.MET	1	1	1	0	1119599999	
36	AR5431124A	ICAL	AA	1P10200.36R	PESTDI.MET	1	1	1	0	1119599999	
37	MDLAX1124A	ICAL	AA	1P10200.37R	PESTD.MET	1	1	1	0	1119599999	
38	MDLEX1124B	ICAL	AA	1P10200.38R	PESTD.MET	1	1	1	0	1119599999	
39	MDTXX1124B	ICAL	AA	1P10200.39R	PESTD.MET	1	1	1	0	1119599999	
40	ICTXX1124B not used	CCAL	FV	1P10200.40R	PESTDI.MET	1	1	1	0	1119999999	
41	MDCHX1124A	ICAL	AA	1P10200.41R	PESTD.MET	1	1	1	0	1119599999	
42	BLANKA 7/13/11FG	BLK	AC	1P10200.42R	PESTD.MET	60	4	1	0	111930027A	01363
43	CHLMDLV 7/13/11FG	MDL	AC	1P10200.43R	PESTD.MET	60	4	1	0	111930027A	01363
44	LCSA 7/13/11FG	LCS	AC	1P10200.44R	PESTD.MET	60	4	1	0	111930027A	01363
45	LCSCHL 7/13/11FG	LCS	AC	1P10200.45R	PESTD.MET	60	4	1	0	111930027A	01363
46	LCSDA 7/13/11FG	LCSD	AC	1P10200.46R	PESTD.MET	60	4	1	0	111930027A	01363
47	LCSMIR 7/13/11FG	LCS	AC	1P10200.47R	PESTD.MET	60	4	1	0	111930027A	01363
48	LCSTOX 7/13/11FG	LCS	AC	1P10200.48R	PESTD.MET	60	4	1	0	111930027A	01363
49	MDLV 7/13/11FG	MDL	AC	1P10200.49R	PESTD.MET	60	4	1	0	111930027A	01363
50	MIRMDLV 7/13/11FG	MDL	AC	1P10200.50R	PESTD.MET	60	4	1	0	111930027A	01363

1370 1799

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp10\C-Drive\CPWIN\DATA1\1P10200.seq

Chromatography Directory: \\cp10\C-Drive\CPWIN\data1

Method Directory: \\cp10\C-Drive\CPWIN\data1

Number of Entries: 95

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51	RLCHL 7/13/11FG	LCS	AC	1P10200.51R	PESTD.MET	60	4	1	0	111930027A	01363
52	RLMIR 7/13/11FG	LCS	AC	1P10200.52R	PESTD.MET	60	4	1	0	111930027A	01363
53	RLTOX 7/13/11FG	LCS	AC	1P10200.53R	PESTD.MET	60	4	1	0	111930027A	01363
54	TOXMDLV 7/13/11FG	MDL	AC	1P10200.54R	PESTD.MET	60	4	1	0	111930027A	01363
55	6337203FG	T	AC	1P10200.55R	PESTD.MET	60	4	1	0	111930027A	01363
56	6337205FG	T	AC	1P10200.56R	PESTD.MET	60	4	1	0	111930027A	01363
57	6337207FG	T	AC	1P10200.57R	PESTD.MET	60	4	1	0	111930027A	01363
58	6337209FG	T	AC	1P10200.58R	PESTD.MET	60.4	4	1	0	111930027A	01363
59	6337212FG	T	AC	1P10200.59R	PESTD.MET	60.1	4	1	0	111930027A	01363
60	6338249FG	T	AC	1P10200.60R	PESTD.MET	60.4	4	1	0	111930027A	01363
61	6338250FG	T	AC	1P10200.61R	PESTD.MET	68.5	4	1	0	111930027A	01363
62	EVALX1124A	PEM	SK	1P10200.62R	EVALD.MET	1	1	1	0	1119899999	
63	MIXA31124C	CCAL	NB	1P10200.63R	PESTD.MET	1	1	1	0	1119899999	
64	MIXE31124B	CCAL	UL	1P10200.64R	PESTD.MET	1	1	1	0	1119899999	
65	TOXA31124C	CCAL	FD	1P10200.65R	PESTDI.MET	1	1	1	0	1119899999	
66	CHLD31124A	CCAL	HE	1P10200.66R	PESTDI.MET	1	1	1	0	1119899999	
67	6338252FG	T	AC	1P10200.67R	PESTD.MET	60.2	4	1	0	111930027A	01363
68	6338261FG	T	AC	1P10200.68R	PESTD.MET	60.1	4	1	0	111930027A	01363
69	6338263FG	T	AC	1P10200.69R	PESTD.MET	60.2	4	1	0	111930027A	01363
70	6338264FG	T	AC	1P10200.70R	PESTD.MET	60	4	1	0	111930027A	01363
71	6339368FG	T	AC	1P10200.71R	PESTD.MET	60	4	1	0	111930027A	01363
72	6339370FG	T	AC	1P10200.72R	PESTD.MET	60.1	4	1	0	111930027A	01363
73	6339372FG	T	AC	1P10200.73R	PESTD.MET	60.3	4	1	0	111930027A	01363
74	6339374FG	T	AC	1P10200.74R	PESTD.MET	60.1	4	1	0	111930027A	01363
75	6339375FG	T	AC	1P10200.75R	PESTD.MET	60.5	4	1	0	111930027A	01363
76	6339377FG	T	AC	1P10200.76R	PESTD.MET	60.2	4	1	0	111930027A	01363
77	6339378MSFG	MS	AC	1P10200.77R	PESTD.MET	60.1	4	1	0	111930027A	01363
78	6339379MSDFG	MSD	AC	1P10200.78R	PESTD.MET	60.4	4	1	0	111930027A	01363
79	6339384FG	T	AC	1P10200.79R	PESTD.MET	60	4	1	0	111930027A	01363
80	6339386FG	T	AC	1P10200.80R	PESTD.MET	60.2	4	1	0	111930027A	01363
81	EVALX1124A	PEM	SL	1P10200.81R	EVALD.MET	1	1	1	0	1119899999	
82	MIXA31124C	CCAL	NC	1P10200.82R	PESTD.MET	1	1	1	0	1119899999	
83	MIXE31124B	CCAL	UM	1P10200.83R	PESTD.MET	1	1	1	0	1119899999	
84	TOXA31124C	CCAL	FE	1P10200.84R	PESTDI.MET	1	1	1	0	1119899999	
85	CHLD31124A	CCAL	HF	1P10200.85R	PESTDI.MET	1	1	1	0	1119899999	
86	CONDITIONER	MISC	AA	1P10200.86R	PESTD.MET	1	1	1	0	1119599999	
87	GPC67BL199	MISC	AA	1P10200.87R	PESTD.MET	30	10	1	0	1119599999	
88	GPC69BL199	MISC	AA	1P10200.88R	PESTD.MET	30	10	1	0	1119599999	
89	CONTROL	MISC	AA	1P10200.89R	PESTD.MET	1	1	1	0	1119599999	
90	GPC67MS199	MISC	AA	1P10200.90R	PESTD.MET	1	1	1	0	1119599999	
91	GPC69MS199	MISC	AA	1P10200.91R	PESTD.MET	1	1	1	0	1119599999	
92	GPC67AS199	MISC	AA	1P10200.92R	PESTD.MET	1	1	1	0	1119599999	
93	GPC69AS199	MISC	AA	1P10200.93R	PESTD.MET	1	1	1	0	1119599999	
94	EVALX1124A	PEM	SS	1P10200.94R	EVALD.MET	1	1	1	0	1120099999	
95	MIXA31124C	CCAL	NL	1P10200.95R	PESTD.MET	1	1	1	0	1120099999	

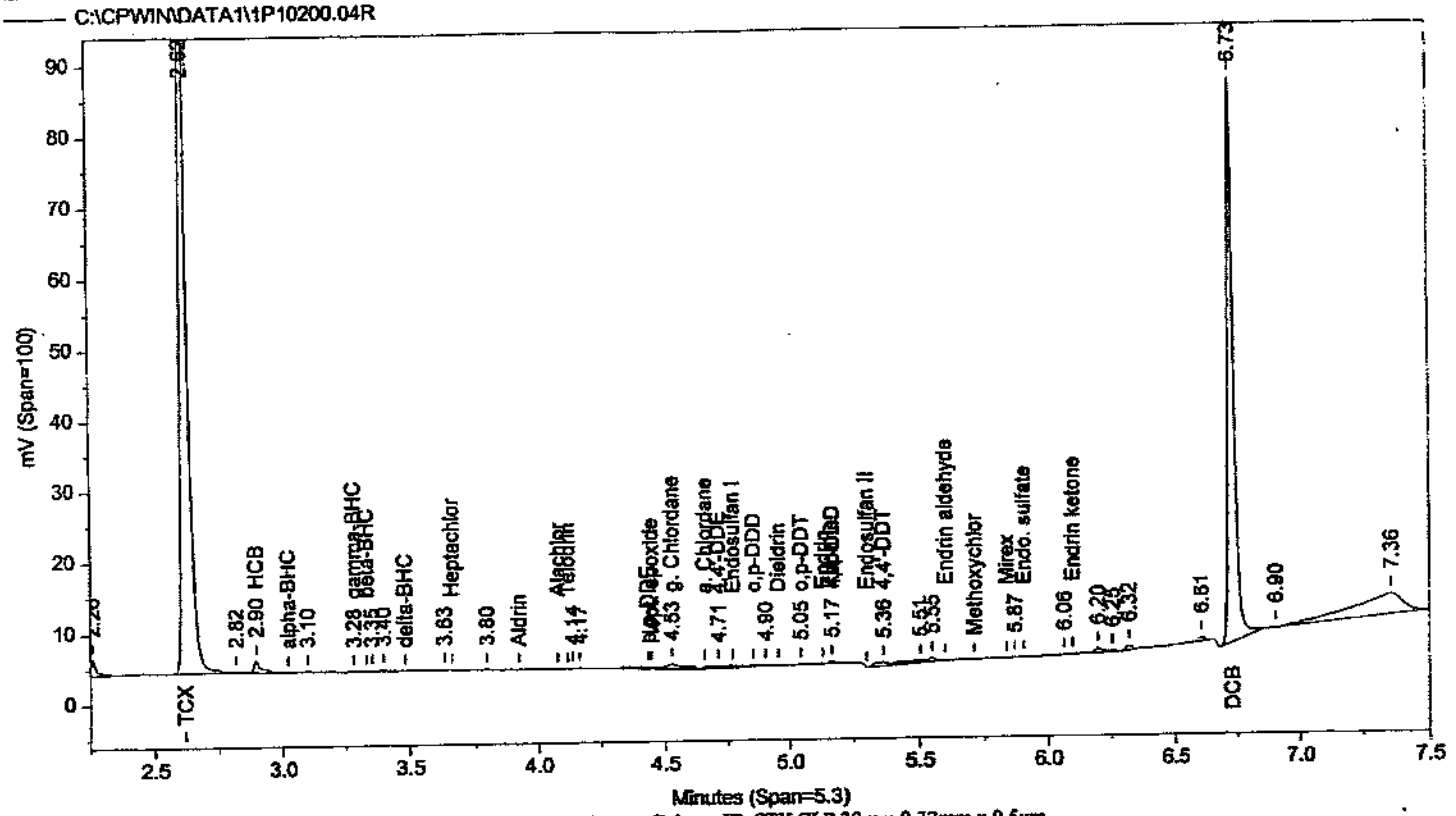
USF83 1799

Set-up by: _____ Date: 7/20/11

7/20/11

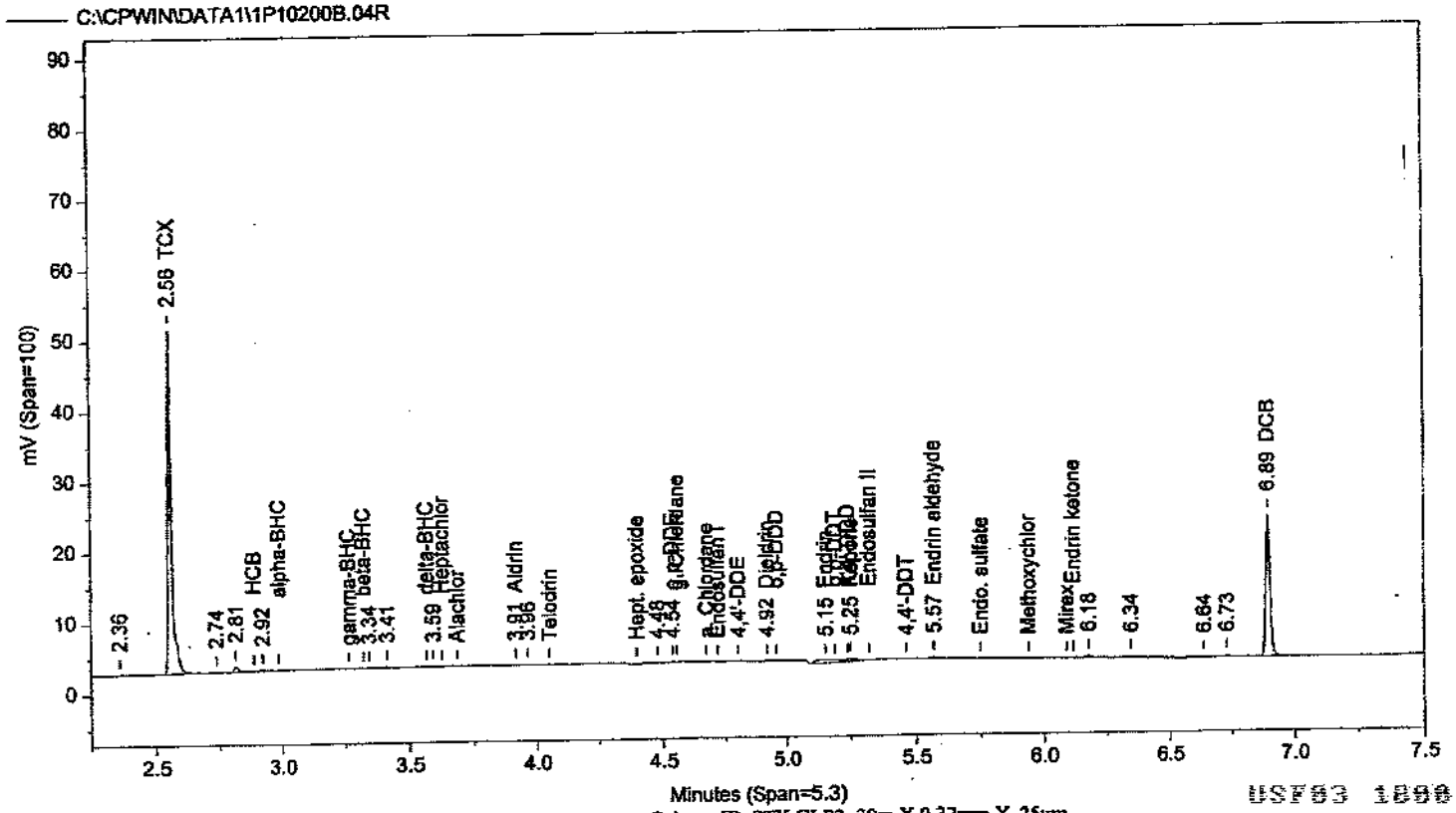
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.04R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 8:24:29 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.04R



USF83 1899

Instrument ID: CP10--H9191B Injected On: 7/19/2011 8:24:29 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 1000
Analyst: 0856

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	135734	.213	TCX	2.557	48742	.211	TCX
2.896	1645	.002	HCB	.	0	.	HCB
3.283	100	.	gamma-BHC	.	0	.	gamma-BHC
.	0	.	Aldrin	3.914	58	.	Aldrin
4.527	702	.001	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.539	85	.	o,p-DDE
4.711	335	.001	4,4'-DDE	.	0	.	4,4'-DDE
.	0	.	Dieldrin	4.92	39	.	Dieldrin
5.046	113	.	o,p-DDT	.	0	.	o,p-DDT
.	0	.	Endrin	5.154	438	.002	Endrin
5.167	330	.002	Kepone	5.249	375	.005	Kepone
5.364	550	.001	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.569	211	.001	Endrin aldehyde
6.73	79484	.207	DCB	6.894	20151	.203	DCB

Files:
Area File: C:\CPWIN\DATA1\IP10200.04A
Area File: C:\CPWIN\DATA1\IP10200B.04A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:46:58 PM
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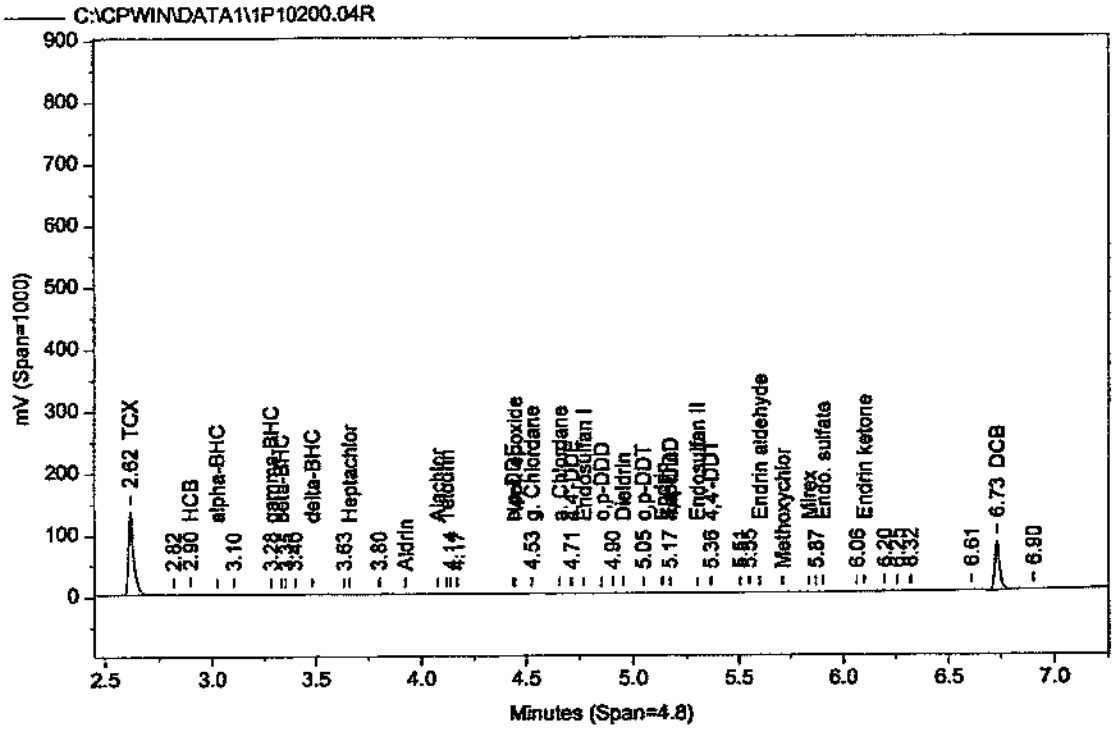
10X REPLOTS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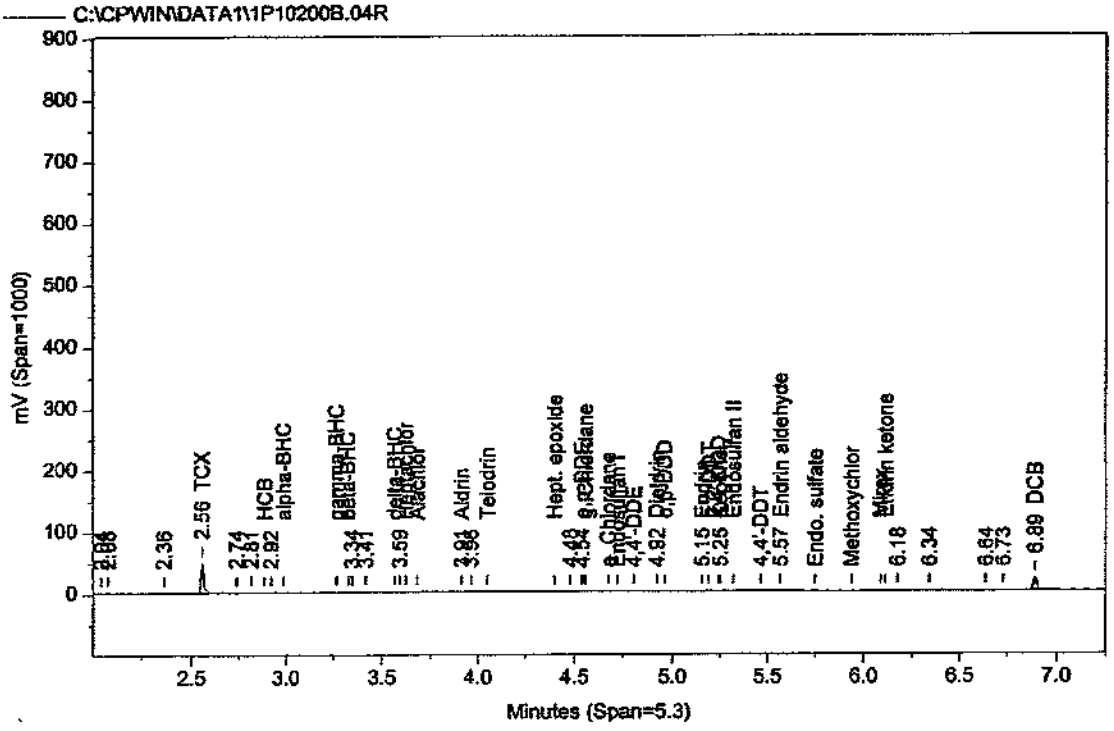
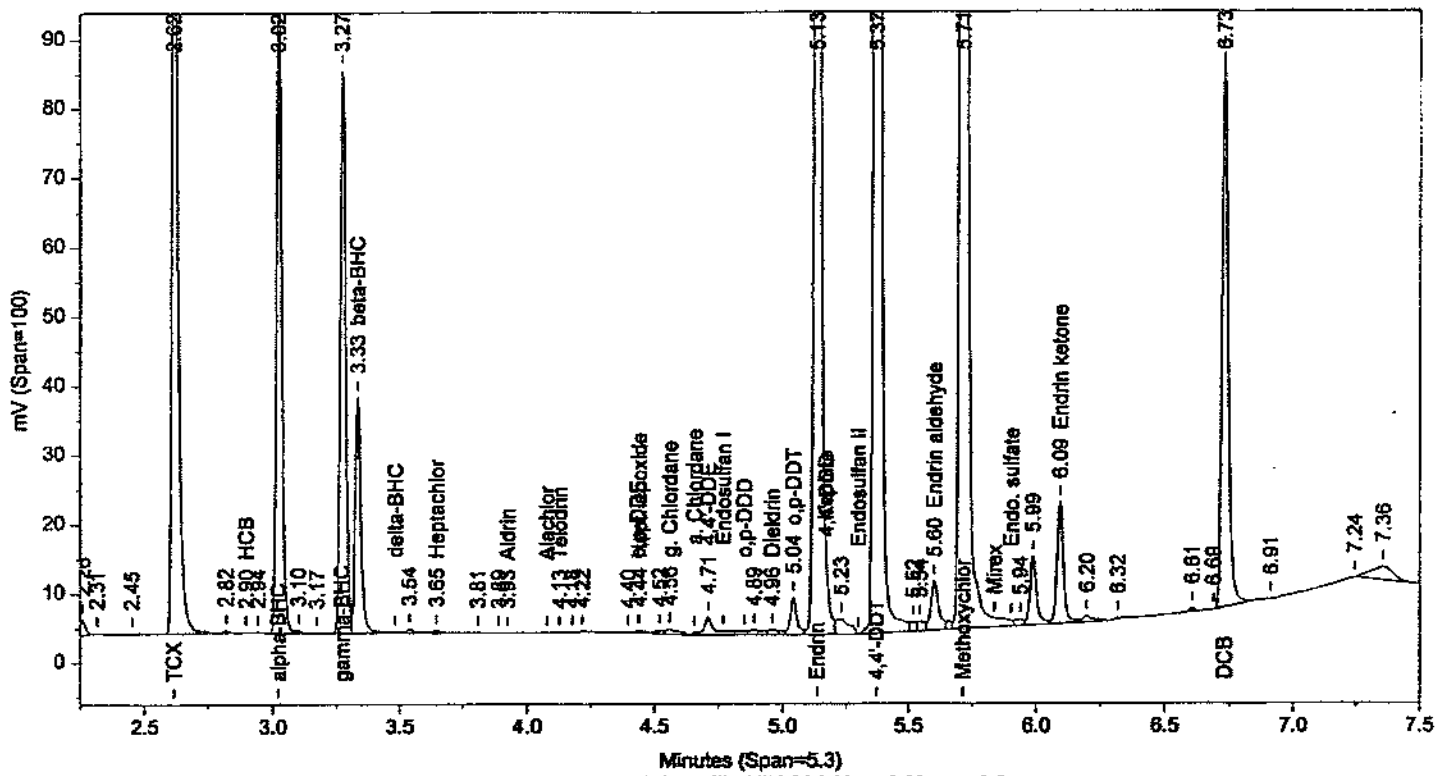
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.82 HCB
2.90 alpha-BHC
3.10
3.63 Heptachlor
3.80 Aldrin
4.53
4.71
4.90
5.05
5.17
5.36
Endrin aldehyde
Methoxychlor
5.87 Endo. sulfate
6.06 Endrin ketone
6.61
6.73 DCB
6.90


C:\CPWIN\DATA1\1P10200B.04R
mV (Span=1000)
Minutes (Span=5.3)
2.36
2.56 TCX
2.74
2.81
2.92
HCB
alpha-BHC
3.34
3.41
3.59
Aldrin
Telodrin
Hept. epoxide
4.48
4.54
4.82
5.15
5.25
Endosulfan II
4,4'-DDT
5.57 Endrin aldehyde
Endo. sulfate
Methoxychlor
6.18
6.34
6.64
6.73
6.89 DCB

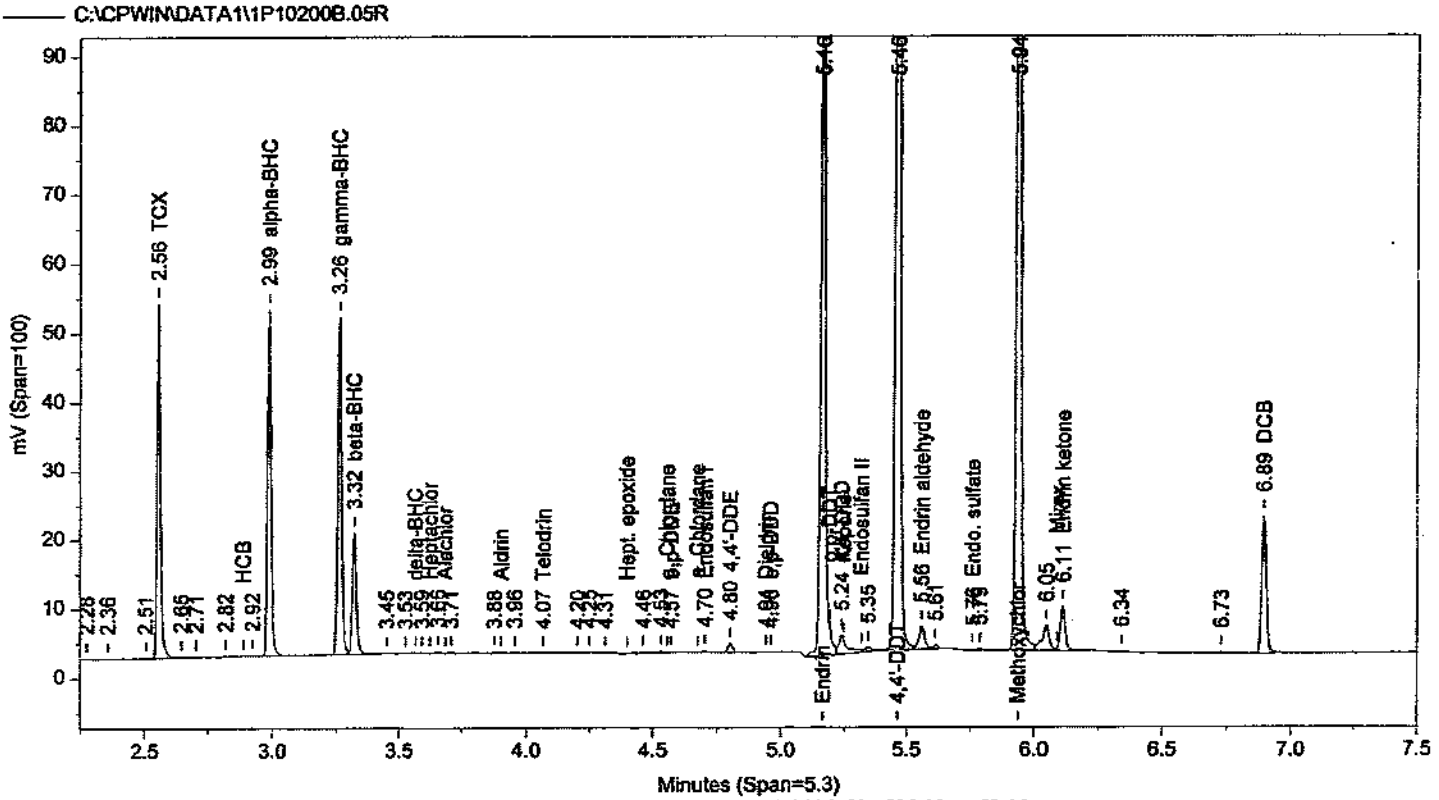
LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P10200.05R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 8:40:29 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

%DDT BD= 0.533048

File: C:\CPWIN\DATA1\1P10200B.05R %ENDRIN BD= 9.101872



Instrument ID: CP10--H9191B Injected On: 7/19/2011 8:40:29 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

%DDT BD= 2.199992

%ENDRIN BD= 8.12485

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	140055	21.94	TCX	2.558	52035	22.573	TCX
2.895	171	.024	HCB	.	0	.	HCB
3.023	97276	11.438	alpha-BHC	2.988	51169	10.486	alpha-BHC
3.271	82254	10.792	gamma-BHC	3.262	49208	10.794	gamma-BHC
3.333	34126	9.413	beta-BHC	3.323	17673	9.315	beta-BHC
3.647	356	.052	Heptachlor	.	0	.	Heptachlor
3.925	106	.016	Aldrin	.	0	.	Aldrin
4.127	37	.007	Telodrin	4.067	69	.027	Telodrin
4.442	349	.056	Hept. epoxide	.	0	.	Hept. epoxide
4.561	731	.113	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.572	70	.036	o,p-DDE
.	0	.	Endosulfan I	4.703	263	.094	Endosulfan I
4.71	2584	.445	4,4'-DDE	4.803	1293	.447	4,4'-DDE
4.959	695	.111	Dieldrin	4.943	97	.031	Dieldrin
.	0	.	o,p-DDD	4.962	77	.046	o,p-DDD
5.043	5337	1.528	o,p-DDT	.	0	.	o,p-DDT
5.133	247771	47.85	Endrin	5.162	111592	43.53	Endrin
.	0	.	4,4'-DDD	5.24	2812	1.26	4,4'-DDD
5.375	482134	114.751	4,4'-DDT	5.464	182516	99.476	4,4'-DDT
5.6	7145	1.747	Endrin aldehyde	5.559	3312	1.889	Endrin aldehyde
5.712	535736	258.152	Methoxychlor	5.938	166679	235.55	Methoxychlor
.	0	.	Endo. sulfate	5.758	118	.068	Endo. sulfate
6.092	17665	3.237	Endrin ketone	6.111	6556	3.314	Endrin ketone
6.73	80098	20.848	DCB	6.894	20037	20.193	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.05A
Area File: C:\CPWIN\DATA1\1P10200B.05A
Method A: C:\CPWIN\DATA1\EVALD.MET
Method B: C:\CPWIN\DATA1\EVALDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
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Format B: C:\CPWIN\DATA1\EVALD.FMTB
Area File Created On: 7/19/2011 2:47:22 PM
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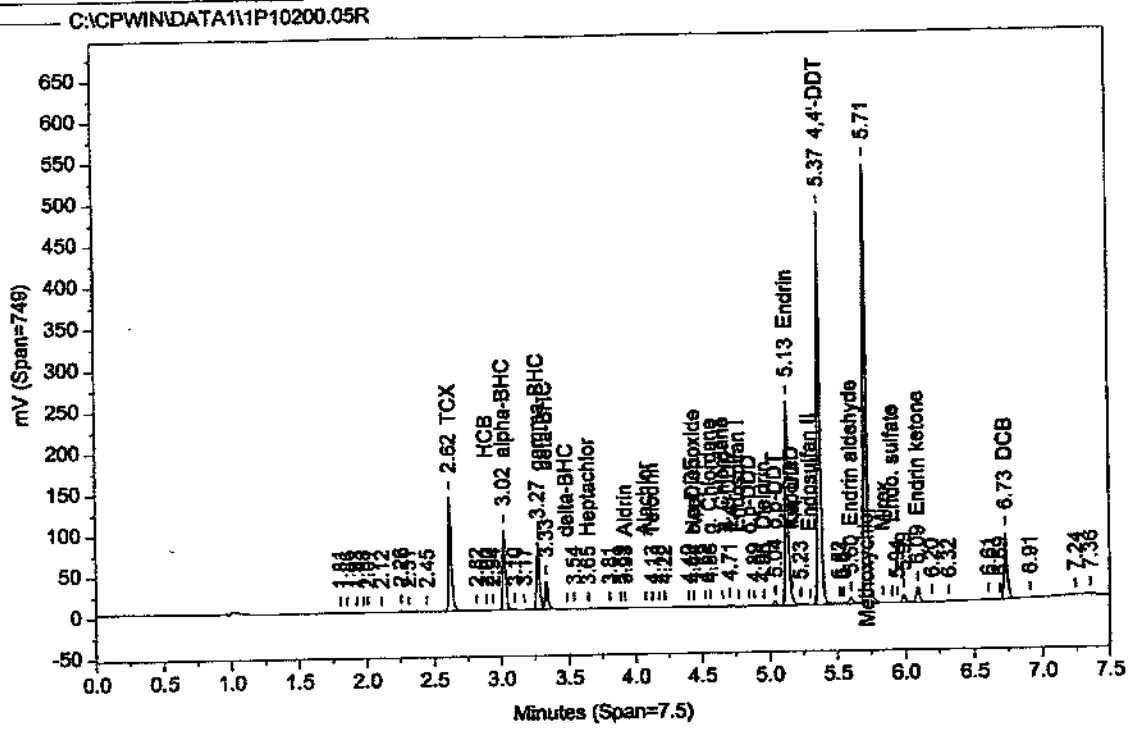
REPLOTS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mV (Span=748)
Minutes (Span=7.5)
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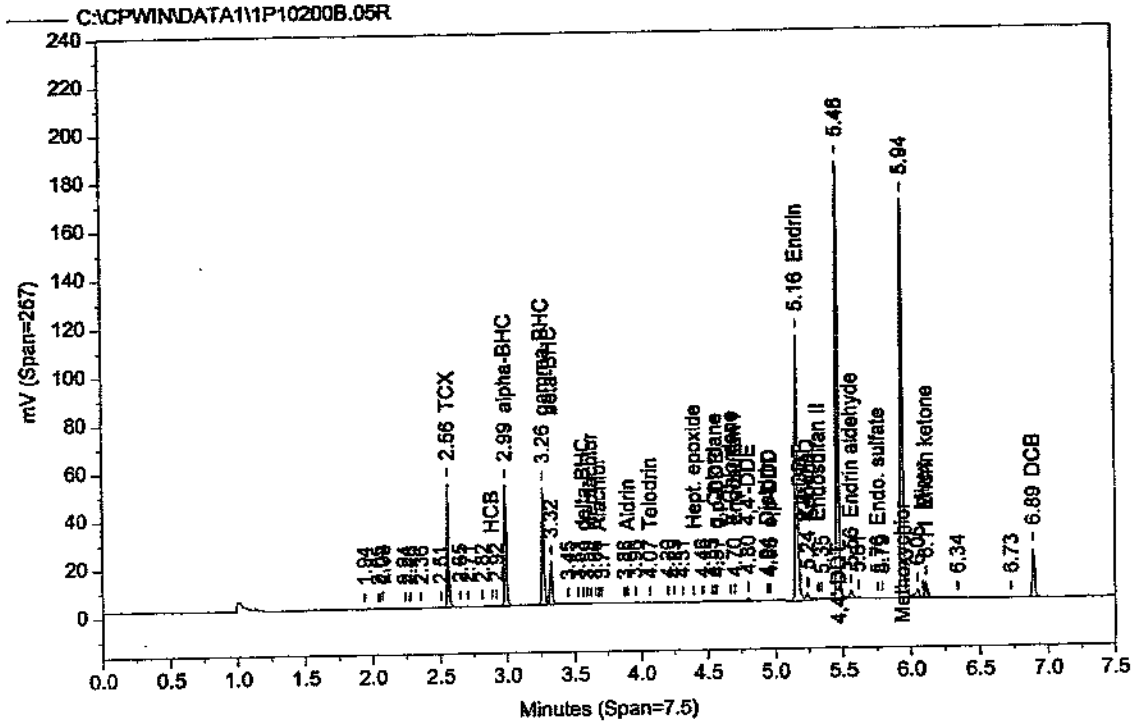
HCB
3.02 alpha-BHC
3.27 gamma-BHC
delta-BHC
Heptachlor
Aldrin
5.13 Endrin
5.37 4,4'-DDT
5.71
Endosulfan II
Endrin aldehyde
Endo. sulfate
Endrin ketone
6.73 DCB
6.91
7.24
7.38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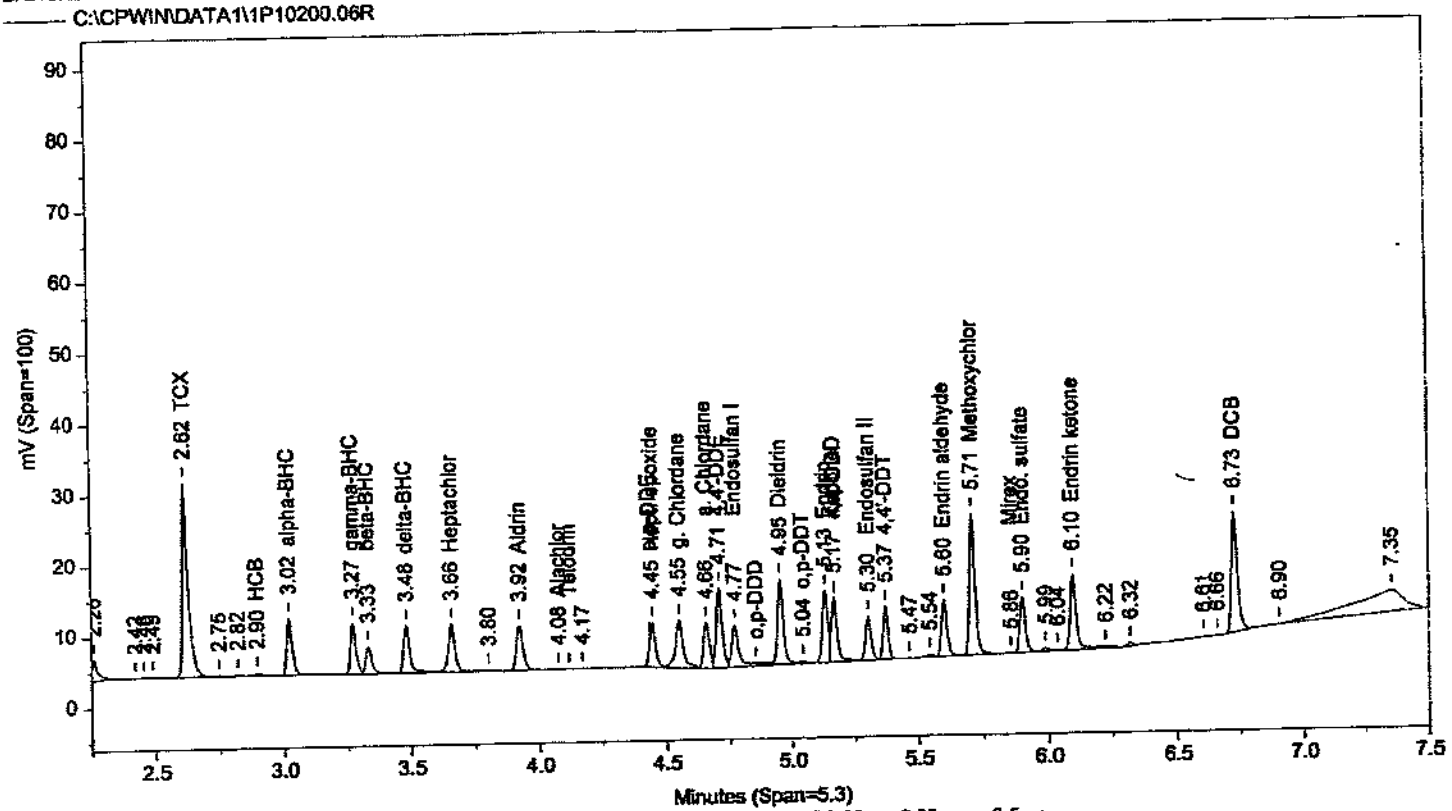
mV (Span=267)
Minutes (Span=7.5)
2.56 TCX
2.99 alpha-BHC
3.26 gamma-BHC
Aldrin
Telodrin
Hept. epoxide
5.16 Endrin
5.46
5.94
Endosulfan II
Endrin aldehyde
Endo. sulfate
Endrin ketone
6.34
6.73
6.89 DCB

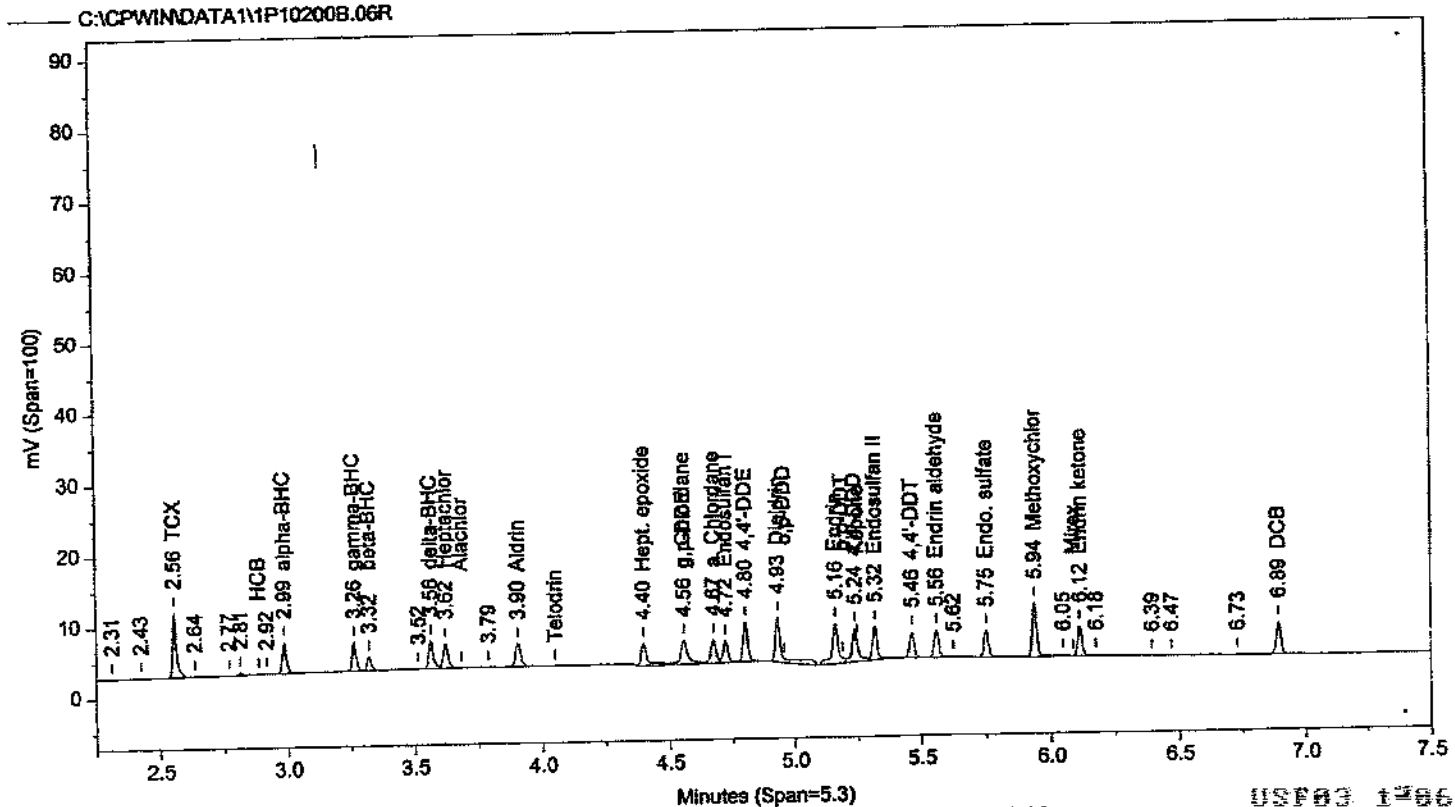
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.06R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 8:55:46 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.06R



USP83 1986

Instrument ID: CP10--H9191B Injected On: 7/19/2011 8:55:46 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1
Calibration Type: External

Width: 0.02

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1
Calibration Type: External

Width: 0.02

Area Reject: 0
Quantiation: Height

Sample Weight: 1
Analyst: 0856

Dilution Factor: 1

RT A	Height A	Amount A	Compound A
2.616	27544	4.315	TCX
2.895	375	.053	HCB
3.021	8065	.948	alpha-BHC
3.269	7293	.957	gamma-BHC
3.331	3857	1.064	beta-BHC
3.482	6753	.934	delta-BHC
3.659	6792	.998	Heptachlor
3.923	6362	.941	Aldrin
4.077	42	.	Alachlor
4.446	6249	.998	Hept. epoxide
4.551	6754	1.041	g. Chlordane
.	0	.	o,p-DDE
4.657	6465	1.042	a. Chlordane
4.708	11385	1.962	4,4'-DDE
4.769	5935	1.029	Endosulfan I
4.953	12057	1.921	Dieldrin
5.043	351	.1	o,p-DDT
5.132	10214	1.972	Endrin
5.167	9234	6.204	Kepone
.	0	.	4,4'-DDD
5.3	6235	1.644	Endosulfan II
5.371	7593	1.807	4,4'-DDT
5.599	7993	1.955	Endrin aldehyde
5.71	19979	9.627	Methoxychlor
5.9	7893	1.919	Endo. sulfate
5.855	57	.016	Mirex
6.096	10756	1.971	Endrin ketone
6.728	17159	4.466	DCB

RT B	Height B	Amount B	Compound B
2.557	9205	3.993	TCX
.	0	.	HCB
2.987	4357	.893	alpha-BHC
3.262	4160	.912	gamma-BHC
3.322	1964	1.035	beta-BHC
3.564	3960	.914	delta-BHC
3.622	3559	.967	Heptachlor
3.903	3261	.97	Aldrin
.	0	.	Alachlor
4.399	3166	1.113	Hept. epoxide
.	0	.	g. Chlordane
4.557	3326	1.697	o,p-DDE
4.673	3340	1.067	a. Chlordane
4.801	5695	1.967	4,4'-DDE
4.721	3042	1.083	Endosulfan I
4.932	6382	2.026	Dieldrin
.	0	.	o,p-DDT
5.162	5761	2.247	Endrin
.	0	.	Kepone
5.239	4785	2.143	4,4'-DDD
5.319	4749	2.126	Endosulfan II
5.464	3626	1.977	4,4'-DDT
5.559	3837	2.188	Endrin aldehyde
5.938	7700	10.882	Methoxychlor
5.75	3757	2.171	Endo. sulfate
.	0	.	Mirex
6.115	4276	2.162	Endrin ketone
6.892	4646	4.682	DCB

Files:
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Area File: C:\CPWIN\DATA1\1P10200B.06A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
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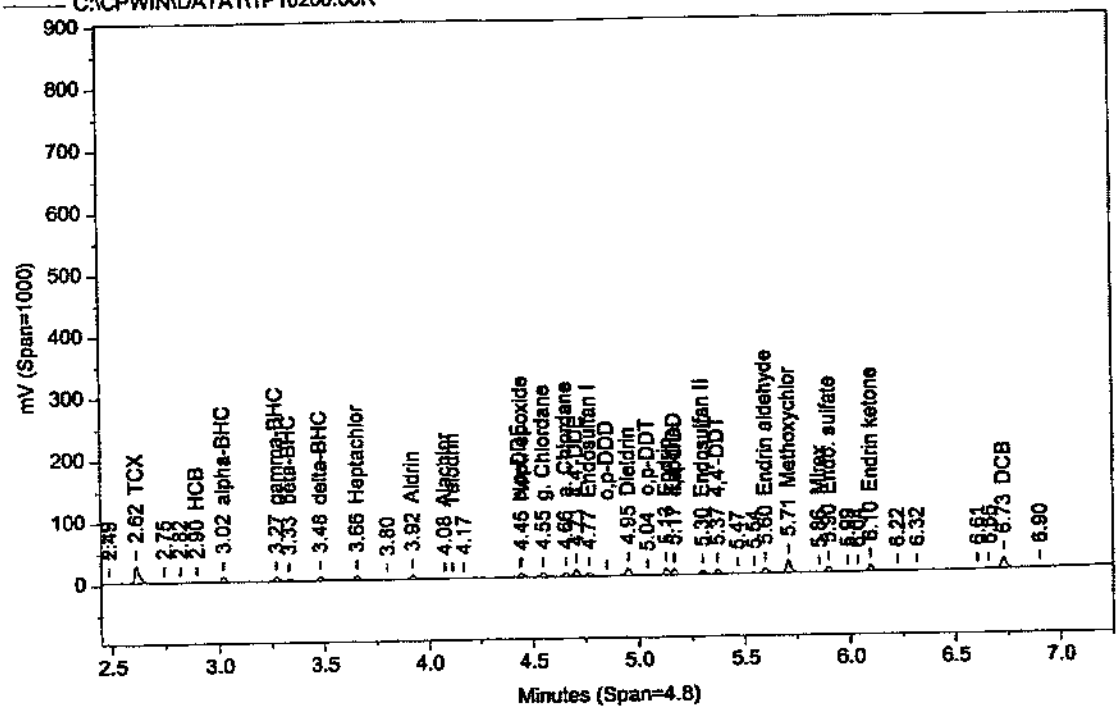
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:47:46 PM
File Reported On: 7/19/2011 at 2:47:56 PM

7/19/11

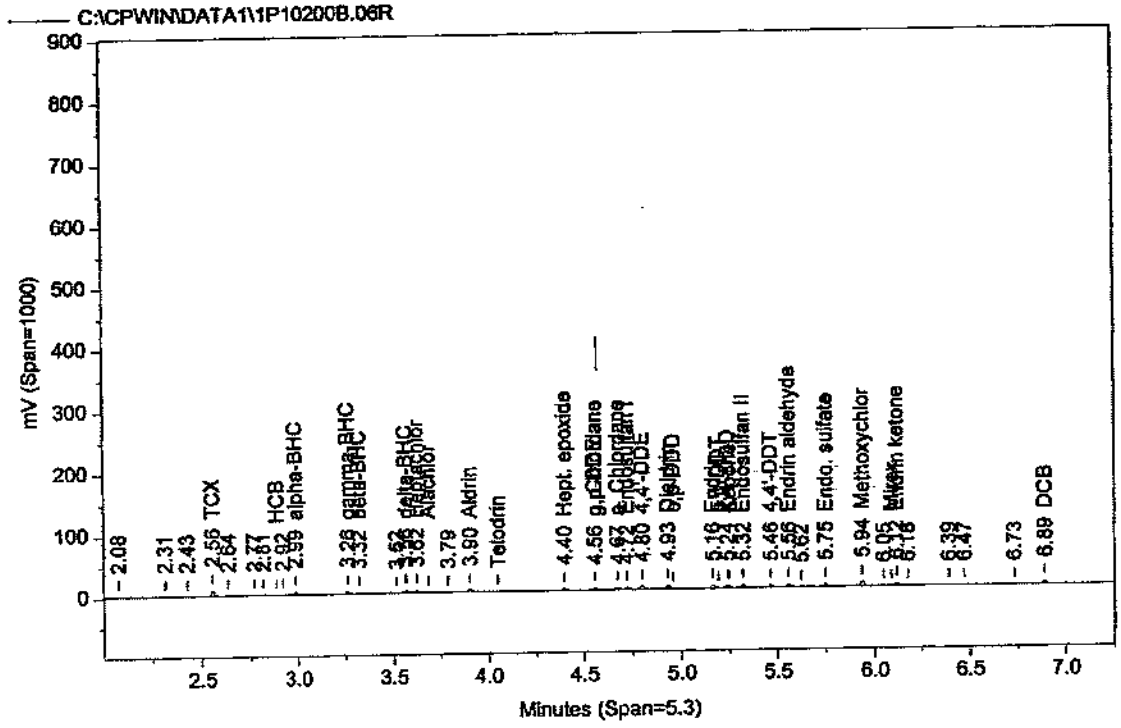
USF03 1997

10X REPLOTS

C:\CPWIN\DATA1\1P10200.06R

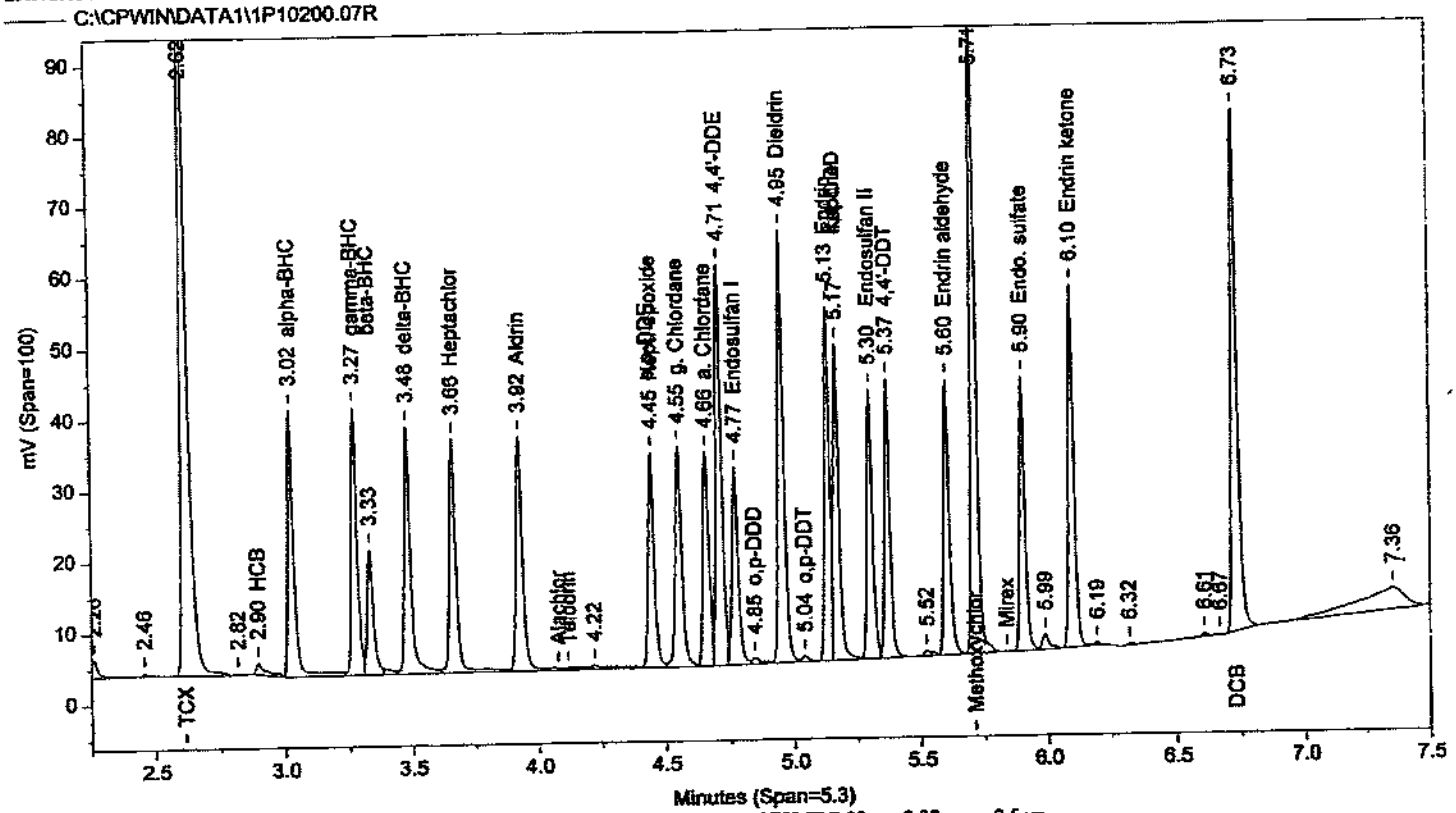


C:\CPWIN\DATA1\1P10200B.06R



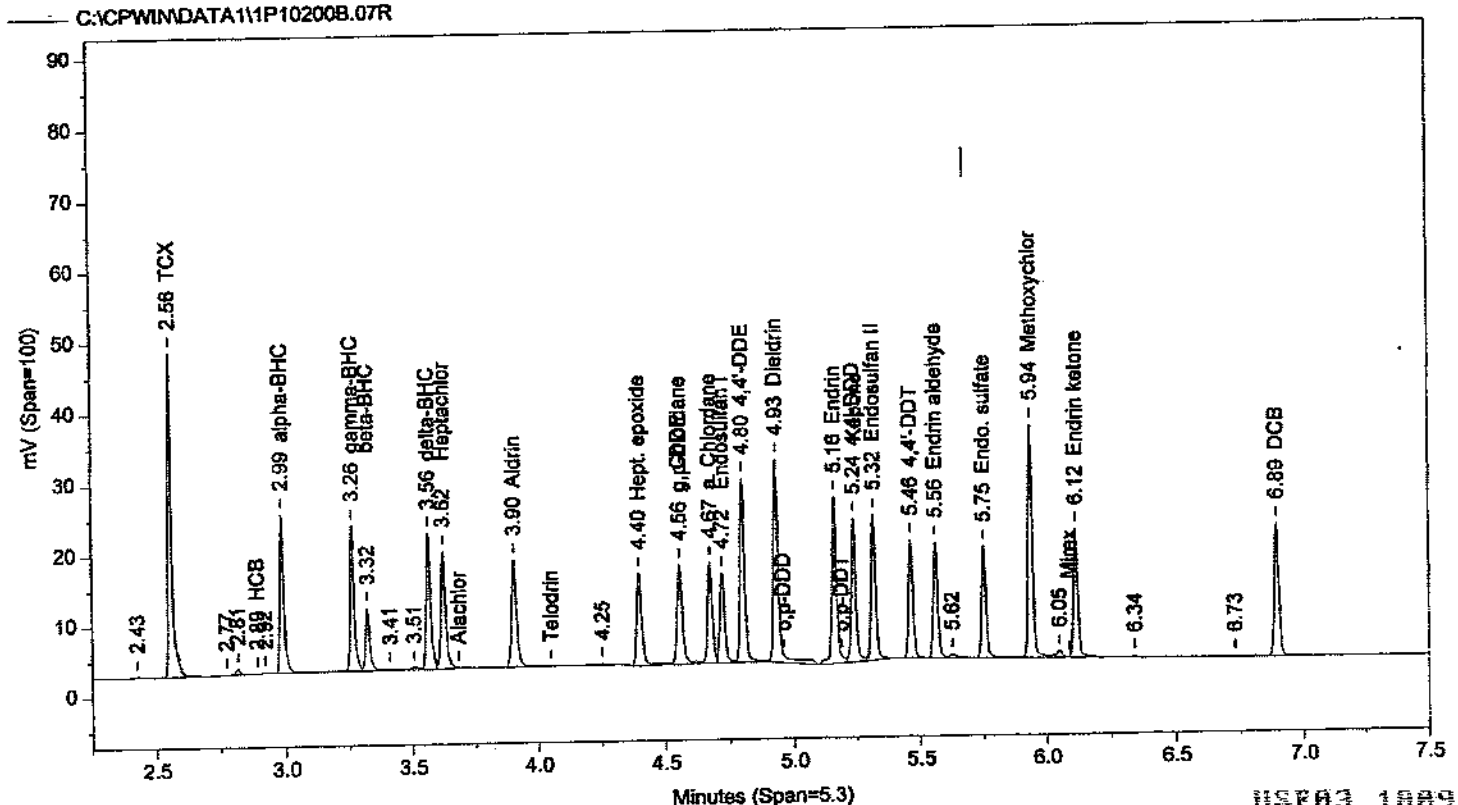
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.07R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 9:10:42 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.07R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 9:10:42 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 1
Analyst: 0856

Dilution Factor: 1

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	126268	19.78	TCX	2.557	45880	19.902	TCX
2.895	1626	.232	HCB	2.891	38	.012	HCB
3.022	37756	4.44	alpha-BHC	2.987	22669	4.645	alpha-BHC
3.27	37688	4.945	gamma-BHC	3.262	21136	4.636	gamma-BHC
3.332	17772	4.902	beta-BHC	3.323	8985	4.736	beta-BHC
3.482	35065	4.849	delta-BHC	3.564	19575	4.519	delta-BHC
3.66	32939	4.84	Heptachlor	3.622	16838	4.574	Heptachlor
3.923	33032	4.887	Aldrin	3.904	15288	4.55	Aldrin
4.447	30221	4.828	Hept. epoxide	4.4	13192	4.636	Hept. epoxide
4.552	31266	4.817	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.557	14186	7.239	o,p-DDE
4.658	30294	4.885	a. Chlordane	4.674	14376	4.594	a. Chlordane
4.71	56470	9.732	4,4'-DDE	4.802	26197	9.049	4,4'-DDE
4.77	27907	4.838	Endosulfan I	4.721	13013	4.634	Endosulfan I
4.846	855	.265	o,p-DDD	.	0	.	o,p-DDD
4.954	60866	9.697	Dieldrin	4.933	28712	9.115	Dieldrin
5.041	804	.23	o,p-DDT	.	0	.	o,p-DDT
5.132	49985	9.653	Endrin	5.163	23727	9.256	Endrin
5.168	44948	9.548	4,4'-DDD	5.239	20430	9.15	4,4'-DDD
5.301	38060	10.035	Endosulfan II	5.32	20728	9.279	Endosulfan II
5.373	39406	9.379	4,4'-DDT	5.464	16968	9.248	4,4'-DDT
5.6	38777	9.484	Endrin aldehyde	5.559	16537	9.433	Endrin aldehyde
5.711	95382	45.961	Methoxychlor	5.939	33496	47.336	Methoxychlor
5.902	39097	9.505	Endo. sulfate	5.751	16037	9.269	Endo. sulfate
6.097	50931	9.333	Endrin ketone	6.116	18362	9.283	Endrin ketone
6.729	73910	19.237	DCB	6.894	18925	19.073	DCB

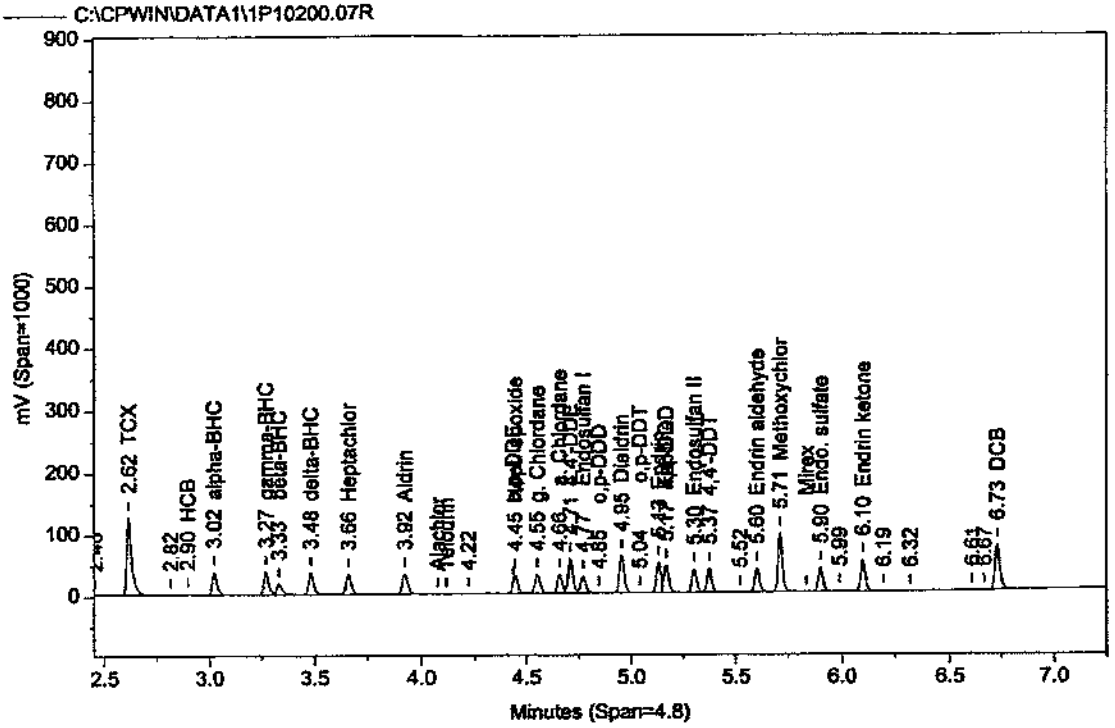
19-CHLD

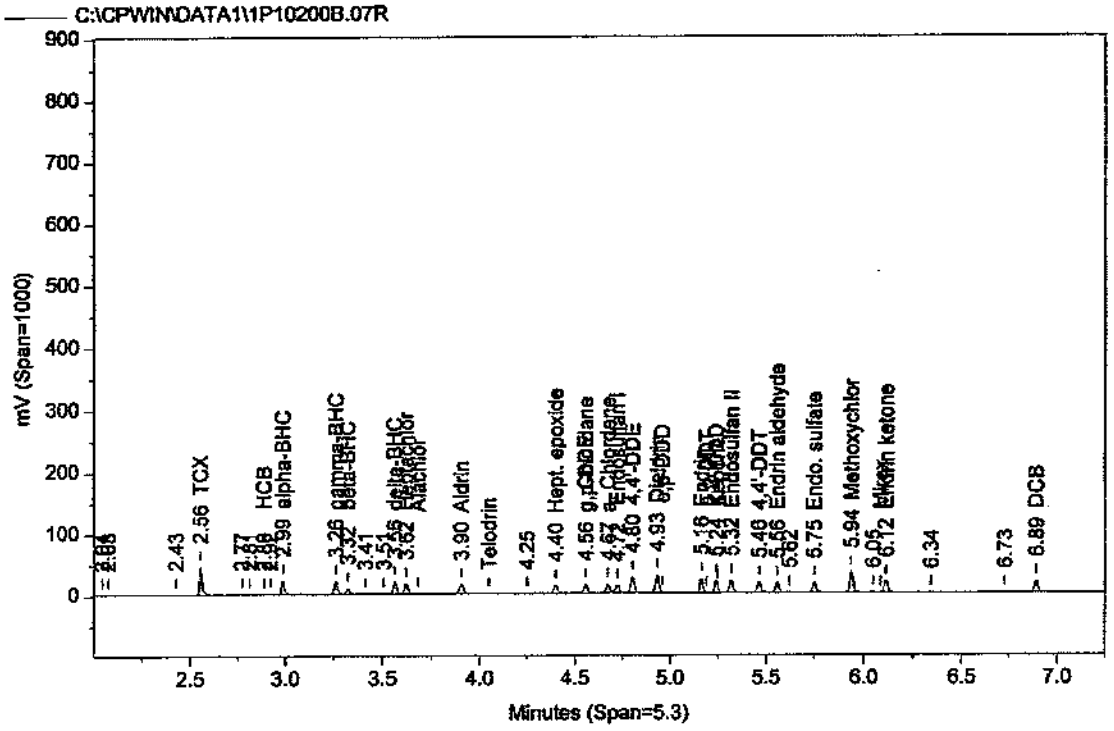
LR 2048 7/19/11

Files:
Area File: C:\CPWIN\DATA1\1P10200.07A
Area File: C:\CPWIN\DATA1\1P10200B.07A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:48:10 PM
File Reported On: 7/19/2011 at 2:48:21 PM

USF03 1818

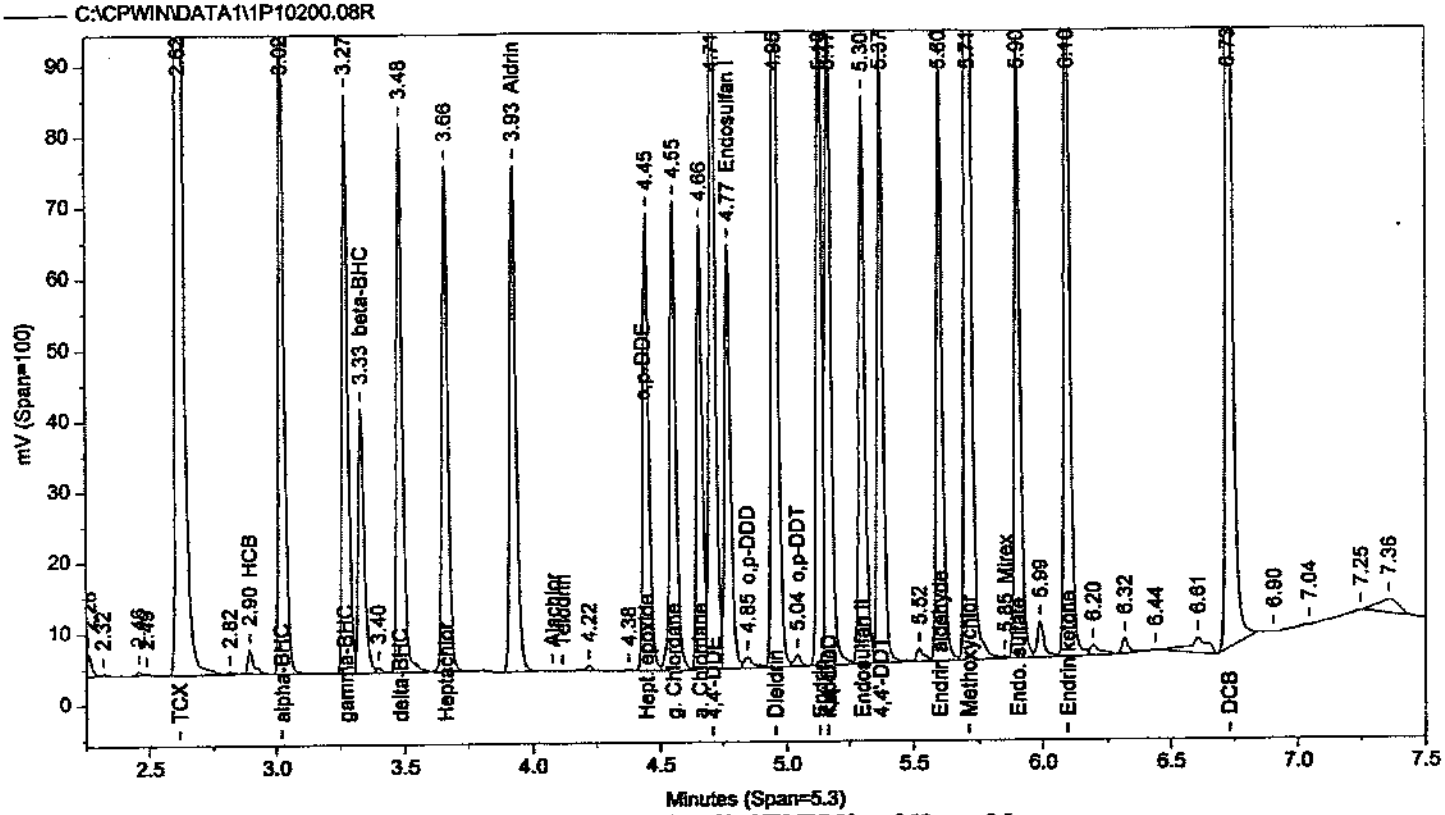
10X REPLOTS


C:\CPWIN\DATA1\1P10200.07R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.82
2.90 HCB
3.02 alpha-BHC
3.27 gamma-BHC
3.33 beta-BHC
3.48 delta-BHC
3.66 Heptachlor
3.92 Aldrin
Alachlor
4.22
4.45
4.55 g. Chlordane
4.66
4.71
4.77
4.86 o,p-DDD
4.95 Dieldrin
5.04 o,p-DDT
5.30 Endosulfan II
5.37 4,4'-DDT
5.52
5.60 Endrin aldehyde
5.71 Methoxychlor
Mirex
5.90 Endo. sulfate
5.99
6.10 Endrin ketone
6.19
6.32
6.61
6.67
6.73 DCB


C:\CPWIN\DATA1\1P10200B.07R
mV (Span=1000)
Minutes (Span=5.3)
2.43
2.56 TCX
HCB
alpha-BHC
3.90 Aldrin
Telodrin
4.25
4.40 Hept. epoxide
4.56
4.80 4,4'-DDE
4.93
5.46 4,4'-DDT
Endrin aldehyde
5.62
6.75 Endo. sulfate
5.94 Methoxychlor
6.34
6.73
6.89 DCB

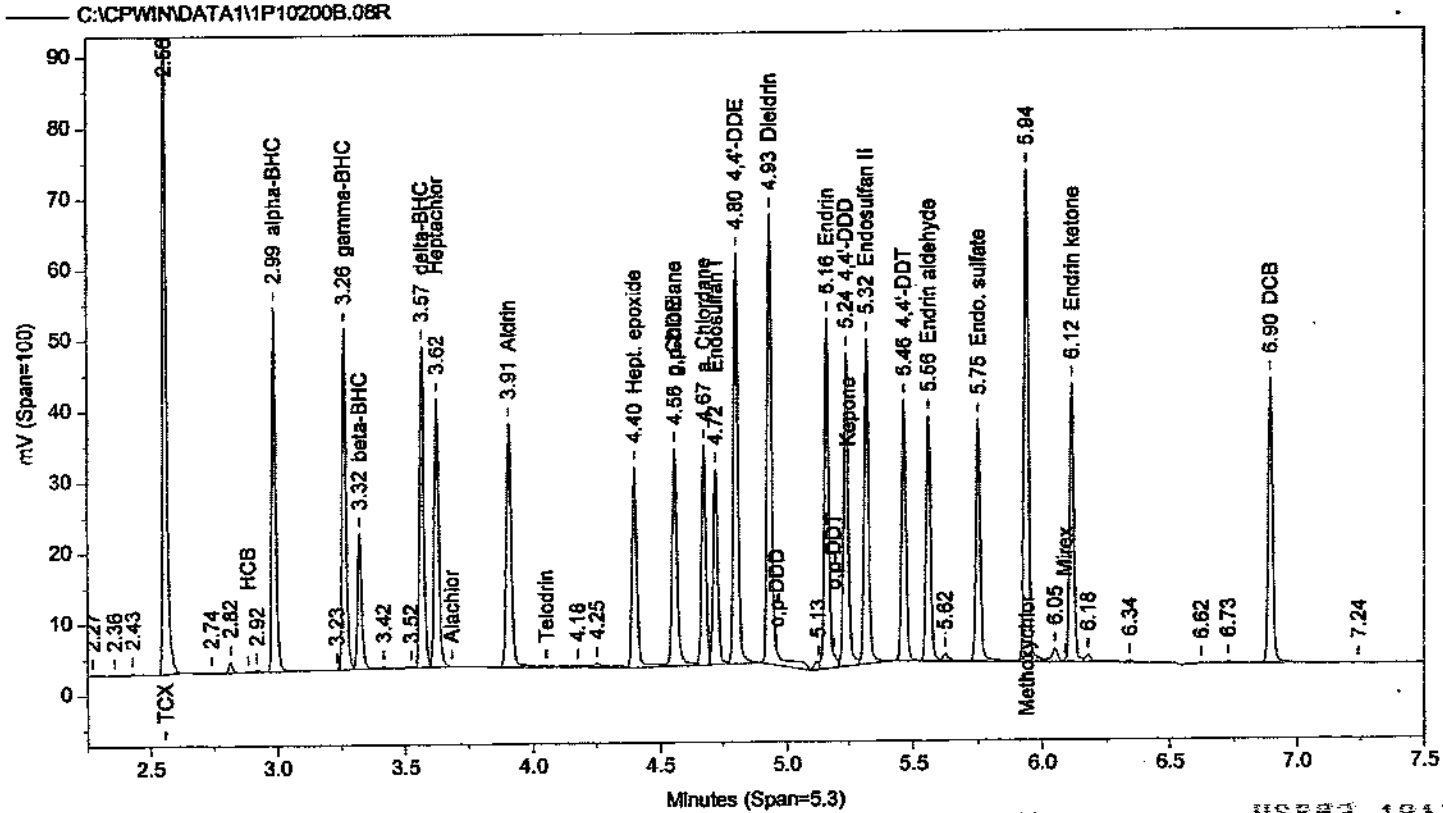
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.08R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 9:26:28 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.08R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 9:26:28 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USPB3 1812

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Sample Weight: 1
Analyst: 0856

Dilution Factor: 1

RT A	Height A	Amount A	Compound A
2.618	277688	43.501	TCX
2.896	3373	.481	HCB
3.023	96664	11.367	alpha-BHC
3.271	82380	10.808	gamma-BHC
3.333	37481	10.338	beta-BHC
3.484	77540	10.722	delta-BHC
3.661	71805	10.551	Heptachlor
3.925	71859	10.63	Aldrin
4.447	64569	10.315	Hept. epoxide
4.553	66262	10.209	g. Chlordane
.	0	.	o,p-DDE
4.658	63235	10.197	a. Chlordane
4.71	120353	20.741	4,4'-DDE
4.771	59980	10.399	Endosulfan I
4.848	1604	.497	o,p-DDD
4.954	127960	20.385	Dieldrin
5.041	1644	.471	o,p-DDT
5.133	105924	20.456	Endrin
5.169	96560	20.513	4,4'-DDD
5.301	80213	21.15	Endosulfan II
5.373	87402	20.802	4,4'-DDT
5.6	84345	20.628	Endrin aldehyde
5.711	212888	102.583	Methoxychlor
5.902	86373	20.998	Endo. sulfate
5.852	287	.08	Mirex
6.097	112139	20.549	Endrin ketone
6.731	159272	41.455	DCB

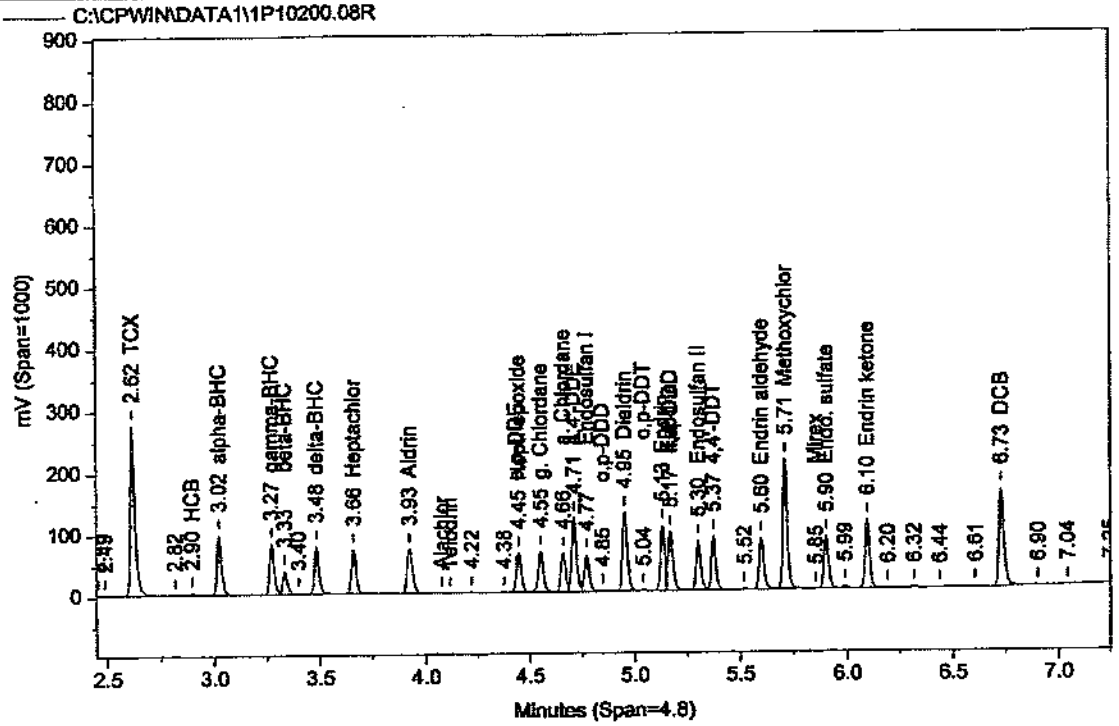
RT B	Height B	Amount B	Compound B
2.558	102675	44.54	TCX
.	0	.	HCB
2.988	52265	10.71	alpha-BHC
3.263	48201	10.573	gamma-BHC
3.323	19160	10.099	beta-BHC
3.566	45523	10.51	delta-BHC
3.624	37979	10.318	Heptachlor
3.905	34979	10.41	Aldrin
4.4	28403	9.982	Hept. epoxide
.	0	.	g. Chlordane
4.557	30794	15.715	o,p-DDE
4.674	31038	9.919	a. Chlordane
4.802	58473	20.199	4,4'-DDE
4.721	27985	9.965	Endosulfan I
.	0	.	o,p-DDD
4.933	63711	20.227	Dieldrin
.	0	.	o,p-DDT
5.162	49809	19.43	Endrin
5.239	44384	19.879	4,4'-DDD
5.319	46135	20.652	Endosulfan II
5.464	37013	20.173	4,4'-DDT
5.559	34958	19.941	Endrin aldehyde
5.939	70690	99.898	Methoxychlor
5.751	34308	19.828	Endo. sulfate
.	0	.	Mirex
6.116	39446	19.941	Endrin ketone
6.895	40989	41.308	DCB

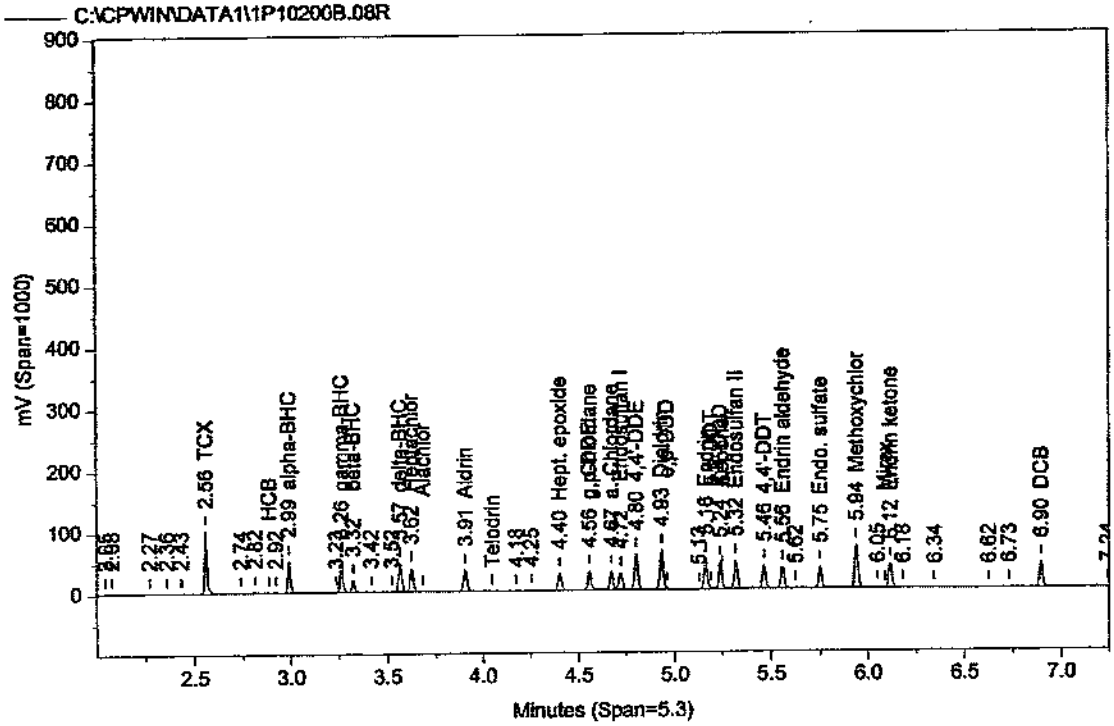
Ig-CHLD LR 7/19/11

Files:
Area File: C:\CPWIN\DATA1\1P10200.08A
Area File: C:\CPWIN\DATA1\1P10200B.08A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:48:34 PM
File Reported On: 7/19/2011 at 2:48:45 PM

USF03 1813

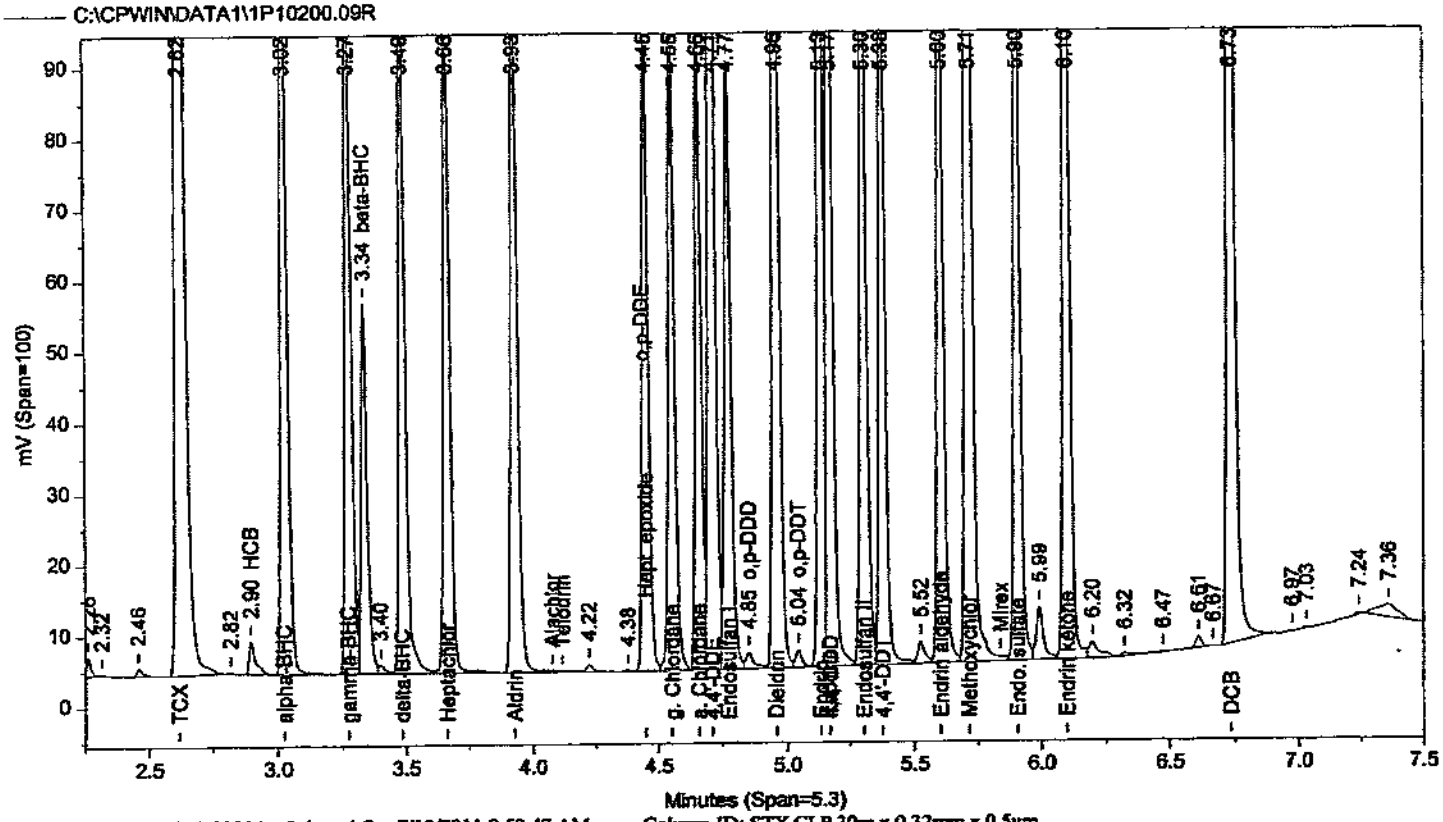
10X REPLOTS


C:\CPWIN\DATA1\1P10200.08R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.90 HCB
3.02 alpha-BHC
3.27 gamma-BHC
3.40 beta-BHC
3.48 delta-BHC
3.66 Heptachlor
3.93 Aldrin
4.22 Alachlor
4.38 Hept. epoxide
4.45 g. Chlordane
4.55 a. Chlordane
4.66 Endosulfan I
4.71 4,4'-DDE
4.77 o,p'-DDD
4.85 Dieldrin
5.04 o,p'-DDT
5.13 Endrin
5.30 Endosulfan II
5.37 4,4'-DDT
5.52 Endrin aldehyde
5.60 Endrin aldehyde
5.71 Methoxychlor
5.85 Endo. sulfate
5.90 Endo. sulfate
5.99 Methoxychlor
6.10 Endrin ketone
6.20 Endrin ketone
6.32
6.44
6.61
6.73 DCB
6.90
7.04


C:\CPWIN\DATA1\1P10200B.08R
mV (Span=1000)
Minutes (Span=5.3)
2.56 TCX
2.99 HCB
3.26 alpha-BHC
3.42 gamma-BHC
3.57 beta-BHC
3.62 delta-BHC
3.91 Aldrin
4.18 Heptachlor
4.25 Telodrin
4.40 Hept. epoxide
4.56 g. Chlordane
4.67 a. Chlordane
4.72 Endosulfan I
4.80 4,4'-DDE
4.83 Dieldrin
5.13 Endrin
5.24 o,p'-DDT
5.32 Endosulfan II
5.46 4,4'-DDT
5.56 Endrin aldehyde
5.75 Endo. sulfate
5.94 Methoxychlor
6.05 Endrin ketone
6.12 Endrin ketone
6.34
6.62
6.73
6.90 DCB

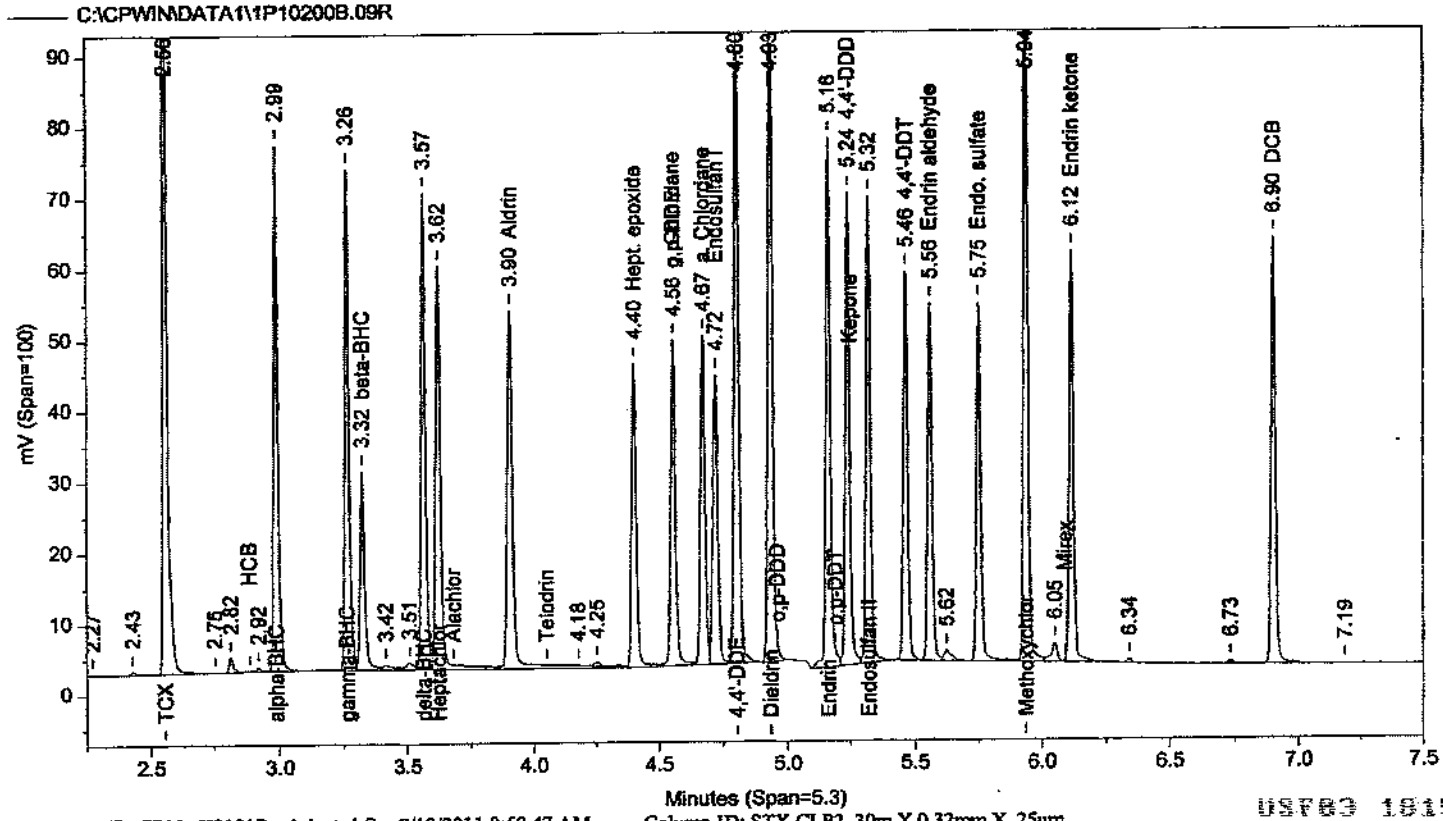
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.09R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 9:50:47 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.09R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 9:50:47 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USTR03 1515

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

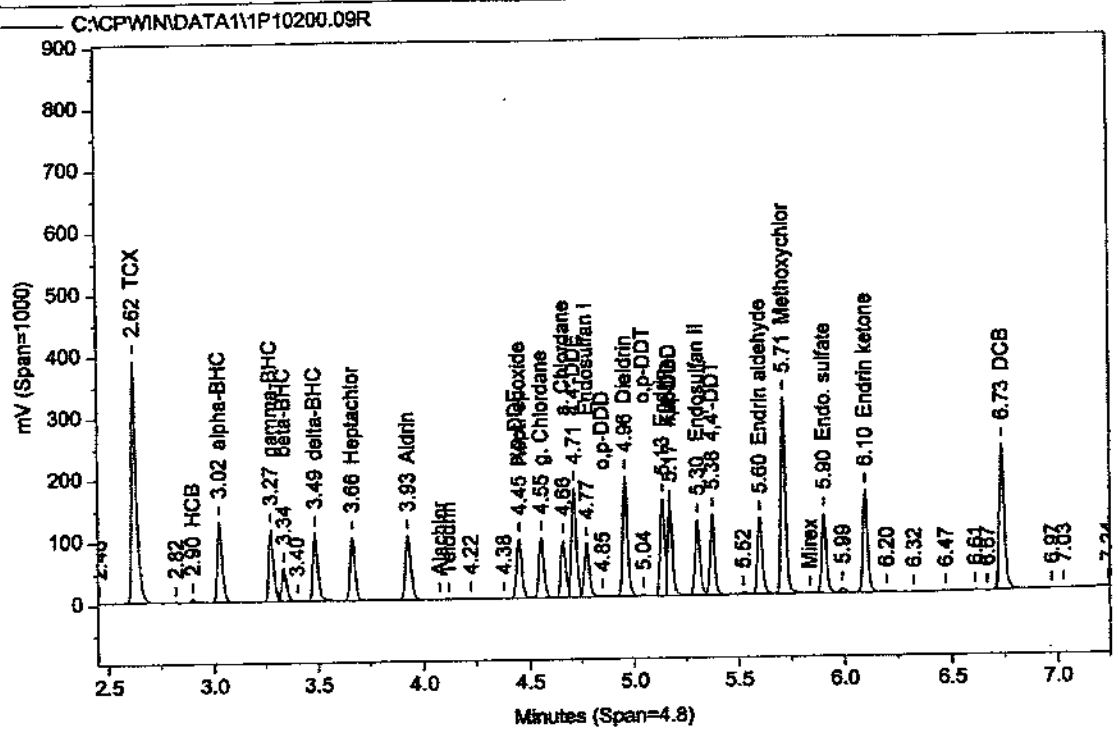
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.62	391015	61.254	TCX	2.558	142099	61.642	TCX
2.898	4678	.667	HCB	.	0	.	HCB
3.025	130283	15.32	alpha-BHC	2.988	76007	15.575	alpha-BHC
3.273	115276	15.124	gamma-BHC	3.263	70728	15.514	gamma-BHC
3.335	52652	14.523	beta-BHC	3.323	28027	14.772	beta-BHC
3.486	109424	15.13	delta-BHC	3.566	67408	15.563	delta-BHC
3.663	101662	14.938	Heptachlor	3.624	56990	15.483	Heptachlor
3.927	102571	15.174	Aldrin	3.905	51181	15.231	Aldrin
4.45	94654	15.121	Hept. epoxide	4.4	42907	15.079	Hept. epoxide
4.554	95930	14.781	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.557	46115	23.533	o,p-DDE
4.66	91711	14.788	a. Chlordane	4.673	46405	14.83	a. Chlordane
4.713	175123	30.18	4,4'-DDE	4.802	90546	31.278	4,4'-DDE
4.773	85884	14.89	Endosulfan I	4.722	41505	14.779	Endosulfan I
4.85	2314	.716	o,p-DDD	.	0	.	o,p-DDD
4.957	192590	30.681	Dieldrin	4.933	96802	30.732	Dieldrin
5.044	2458	.704	o,p-DDT	.	0	.	o,p-DDT
5.135	155736	30.076	Endrin	5.163	74927	29.228	Endrin
5.171	143428	30.469	4,4'-DDD	5.24	66745	29.894	4,4'-DDD
5.303	120939	31.888	Endosulfan II	5.319	65938	29.517	Endosulfan II
5.375	130305	31.013	4,4'-DDT	5.465	55911	30.473	4,4'-DDT
5.602	123470	30.197	Endrin aldehyde	5.559	50747	28.948	Endrin aldehyde
5.713	316736	152.624	Methoxychlor	5.939	102665	145.086	Methoxychlor
5.904	127091	30.896	Endo. sulfate	5.751	50769	29.342	Endo. sulfate
6.099	165103	30.255	Endrin ketone	6.117	58016	29.329	Endrin ketone
6.735	236969	61.677	DCB	6.9	60104	60.571	DCB

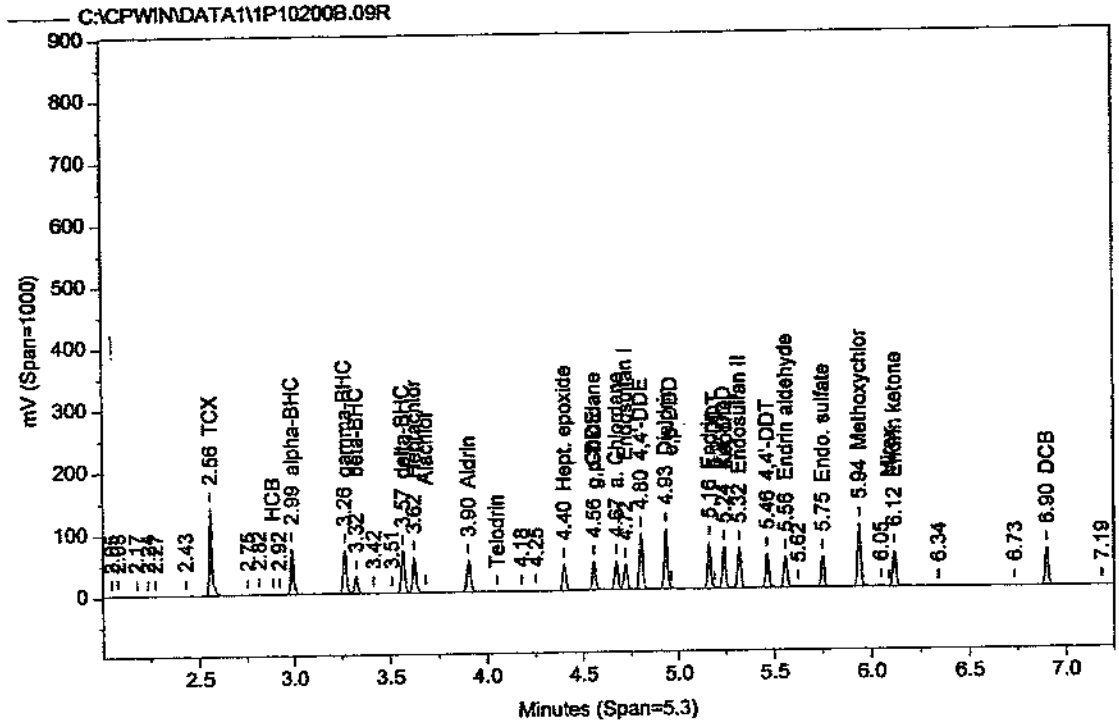
1gCHD TR 23.9 7/19/11

Files:
Area File: C:\CPWIN\DATA1\1P10200.09A
Area File: C:\CPWIN\DATA1\1P10200B.09A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:48:58 PM
File Reported On: 7/19/2011 at 2:49:09 PM

USF03 1216

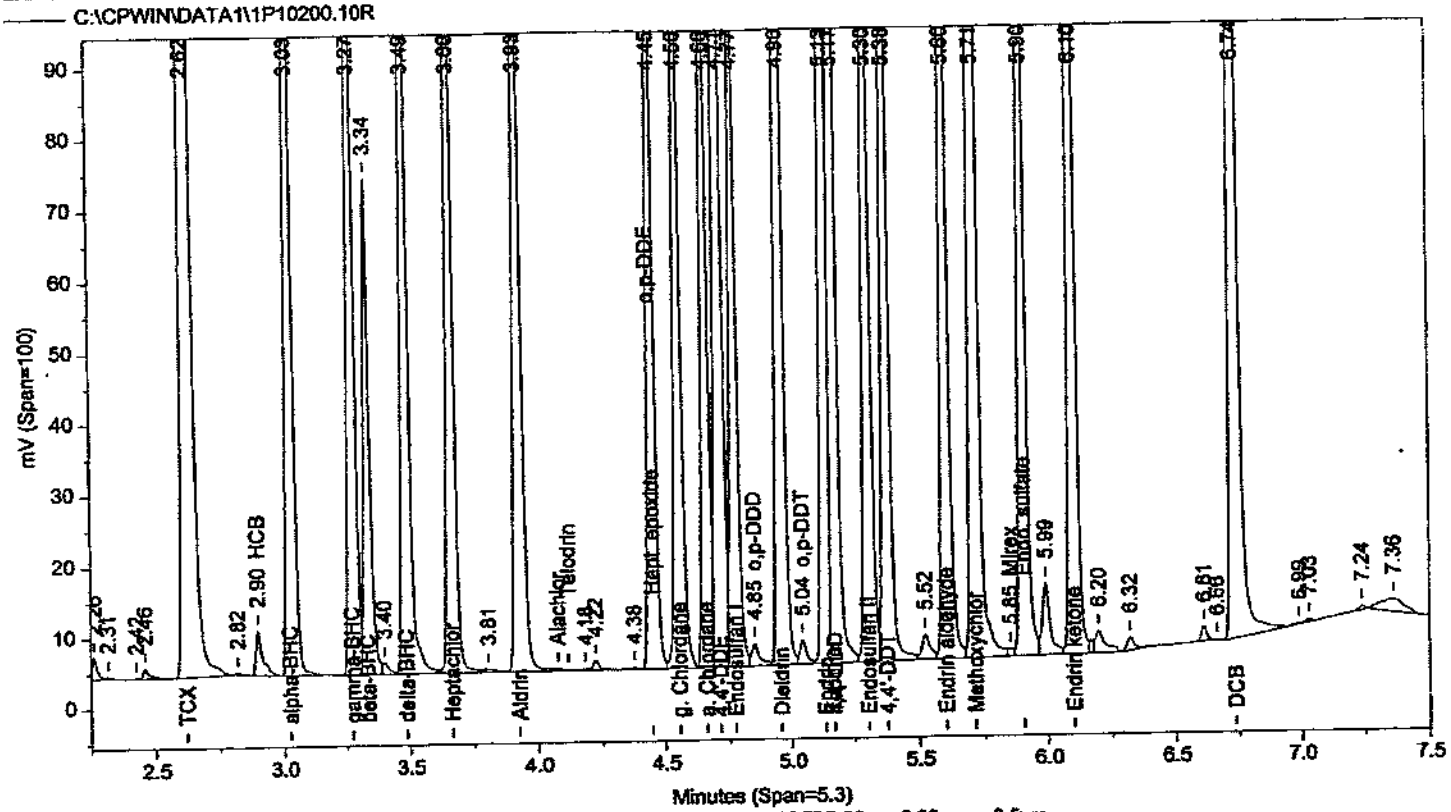
10X REPLOTS


C:\CPWIN\DATA1\1P10200.09R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.82
2.90 HCB
3.02 alpha-BHC
3.27
3.34
3.40
3.49 delta-BHC
3.66 Heptachlor
3.93 Aldrin
4.22
4.38
4.45
4.55 g. Chlordane
4.66
4.71
4.77
4.85
4.86 Dieldrin
5.04
5.30 Endosulfan II
5.38 4,4'-DDT
5.52
5.60 Endrin aldehyde
5.71 Methoxychlor
5.80 Endo. sulfate
5.99
6.10 Endrin ketone
6.20
6.32
6.47
6.61
6.67
6.73 DCB
6.97
7.03


C:\CPWIN\DATA1\1P10200B.09R
mV (Span=1000)
Minutes (Span=5.3)
2.43
2.58 TCX
2.75
2.82
2.92
2.99 alpha-BHC
3.26
3.32
3.42
3.51
3.57
3.62
3.90 Aldrin
4.18
4.25
4.40 Hept. epoxide
4.56
4.67
4.72
4.80 4,4'-DDE
4.93
5.16
5.24
5.32 Endosulfan II
5.46 4,4'-DDT
5.56 Endrin aldehyde
5.62
5.75 Endo. sulfate
5.94 Methoxychlor
6.05
6.12
6.34
6.73
6.90 DCB
7.19

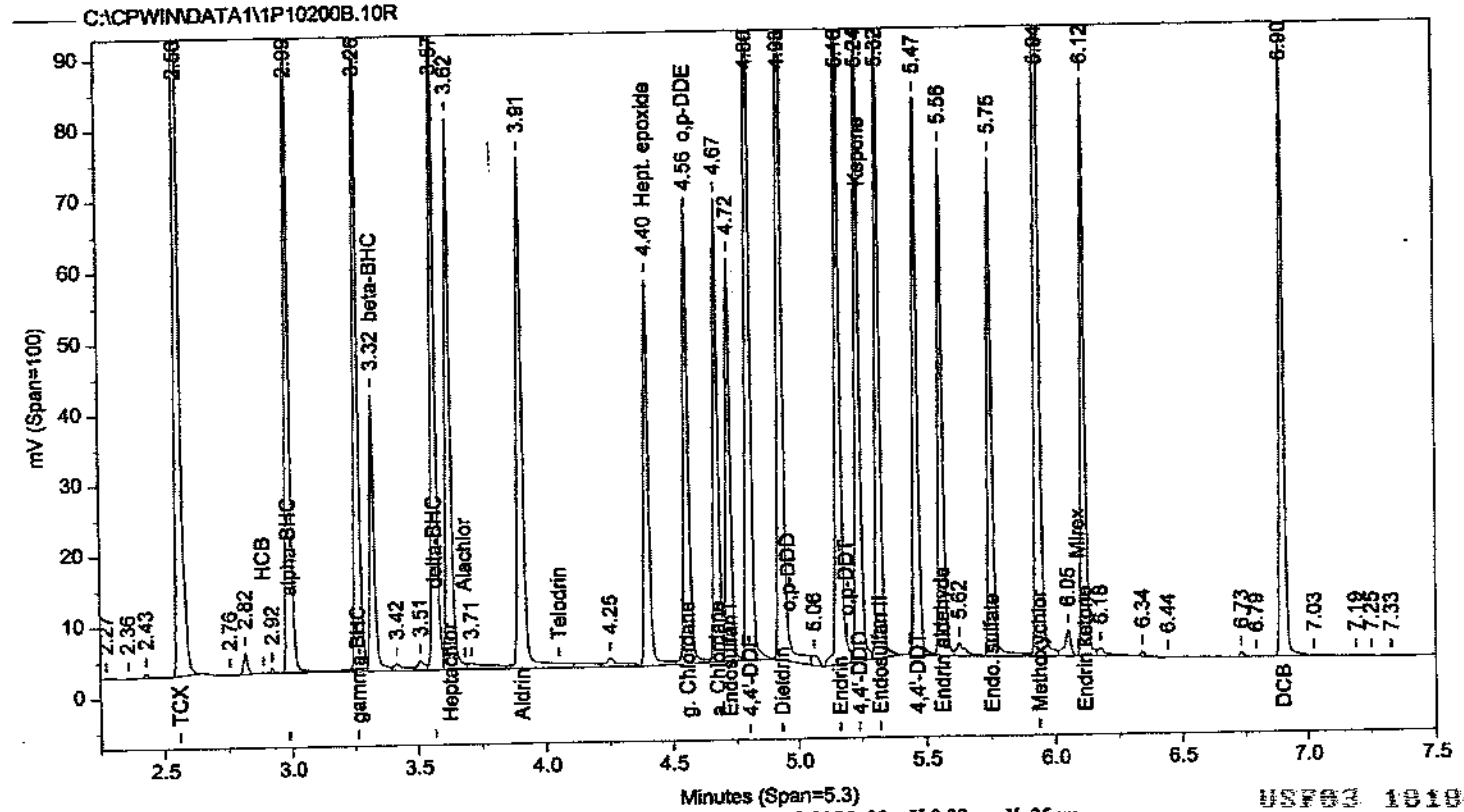
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.10R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 10:14:01 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.10R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 10:14:01 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

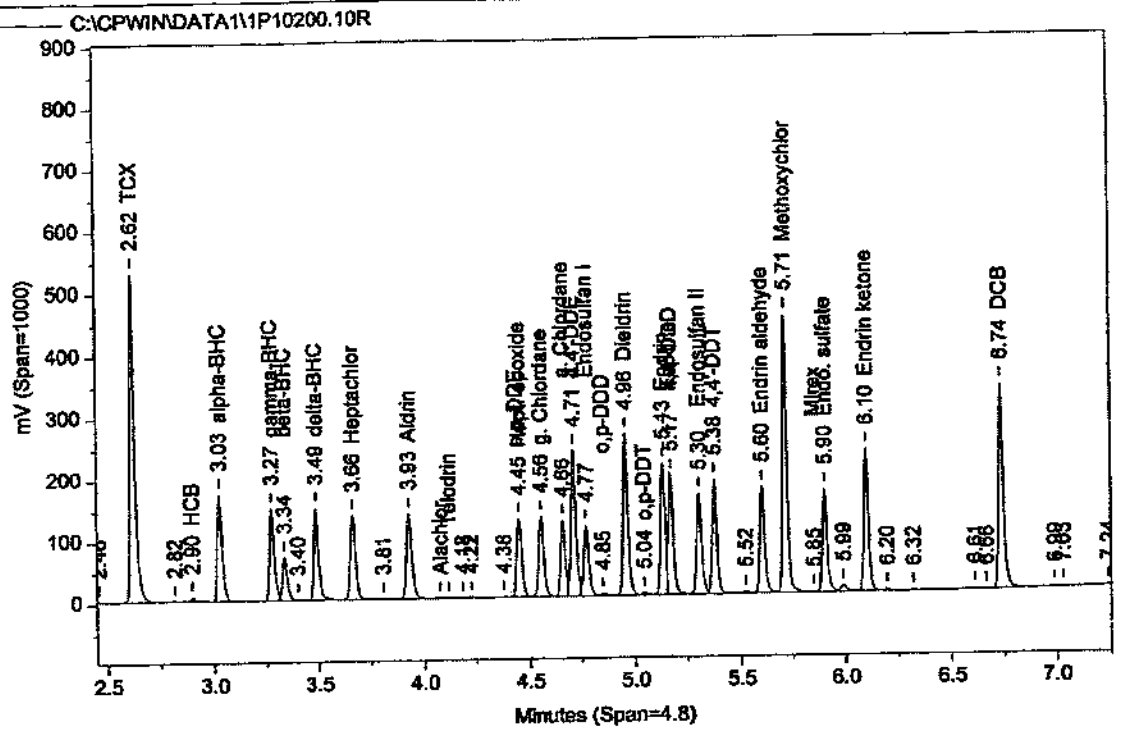
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

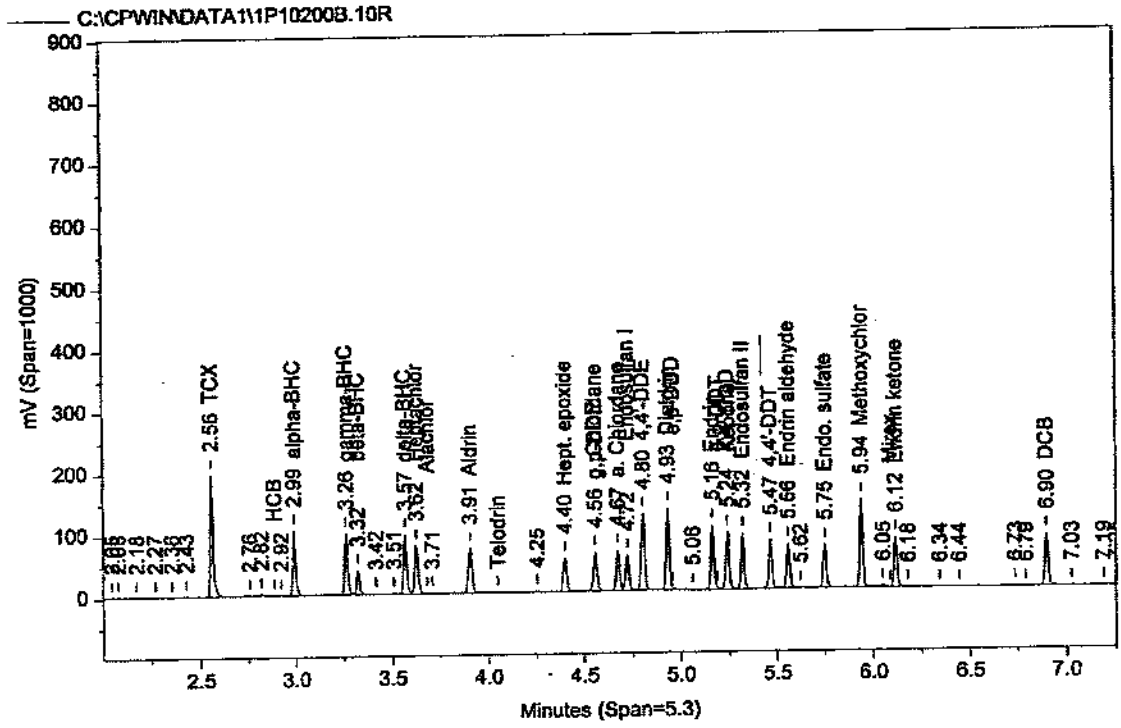
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.621	533549	83.582	TCX	2.559	200422	86.942	TCX
2.899	6325	.902	HCB	.	0	.	HCB
3.026	173350	20.384	alpha-BHC	2.989	105644	21.649	alpha-BHC
3.274	149131	19.566	gamma-BHC	3.263	98697	21.649	gamma-BHC
3.336	70079	19.329	beta-BHC	3.324	39310	20.719	beta-BHC
3.487	148818	20.578	delta-BHC	3.567	95900	22.141	delta-BHC
3.664	135598	19.924	Heptachlor	3.625	78610	21.356	Heptachlor
3.928	137933	20.405	Aldrin	3.906	72355	21.532	Aldrin
4.451	126407	20.194	Hept. epoxide	4.401	55194	19.397	Hept. epoxide
4.555	130139	20.051	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.559	64174	32.748	o,p-DDE (g. chlo
4.661	122748	19.793	a. Chlordane	4.674	65563	20.953	a. Chlordane
4.713	235796	40.637	4,4'-DDE	4.803	124205	42.905	4,4'-DDE
4.773	113489	19.676	Endosulfan I	4.722	57354	20.423	Endosulfan I
4.851	3165	.98	o,p-DDD	.	0	.	o,p-DDD
4.957	261490	41.658	Dieldrin	4.933	132689	42.125	Dieldrin
5.044	3408	.976	o,p-DDT	.	0	.	o,p-DDT
5.135	214908	41.503	Endrin	5.163	104501	40.764	Endrin
5.172	195393	41.508	4,4'-DDD	5.24	92644	41.493	4,4'-DDD
5.303	162021	42.72	Endosulfan II	5.32	89861	40.226	Endosulfan II
5.376	185790	44.219	4,4'-DDT	5.465	79493	43.326	4,4'-DDT
5.603	172827	42.268	Endrin aldehyde	5.56	71552	40.815	Endrin aldehyde
5.715	451641	217.63	Methoxychlor	5.939	143160	202.313	Methoxychlor
5.904	168484	40.959	Endo. sulfate	5.751	71350	41.237	Endo. sulfate
5.852	1054	.294	Mirex	.	0	.	Mirex
6.099	231595	42.439	Endrin ketone	6.116	81626	41.264	Endrin ketone
6.736	332972	86.665	DCB	6.9	84095	84.749	DCB

7/19/11

Files:
Area File: C:\CPWIN\DATA1\1P10200.10A
Area File: C:\CPWIN\DATA1\1P10200B.10A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:49:22 PM
File Reported On: 7/19/2011 at 2:49:33 PM

10X REPLOTS


C:\CPWIN\DATA1\1P10200.10R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.90 HCB
3.03 alpha-BHC
3.27 gamma-BHC
3.49 delta-BHC
3.66 Heptachlor
3.93 Aldrin
4.45 Hept. epoxide
4.56 g. Chlordane
4.71 a. Chlordane
4.77 Endosulfan I
4.85 o,p-DDD
4.98 Dieldrin
5.04 o,p-DDT
5.30 Endosulfan II
5.38 4,4-DDT
5.52
5.60 Endrin aldehyde
5.71 Methoxychlor
5.85
5.90 Endo. sulfate
6.10 Endrin ketone
6.20
6.32
8.74 DCB


C:\CPWIN\DATA1\1P10200B.10R
mV (Span=1000)
Minutes (Span=5.3)
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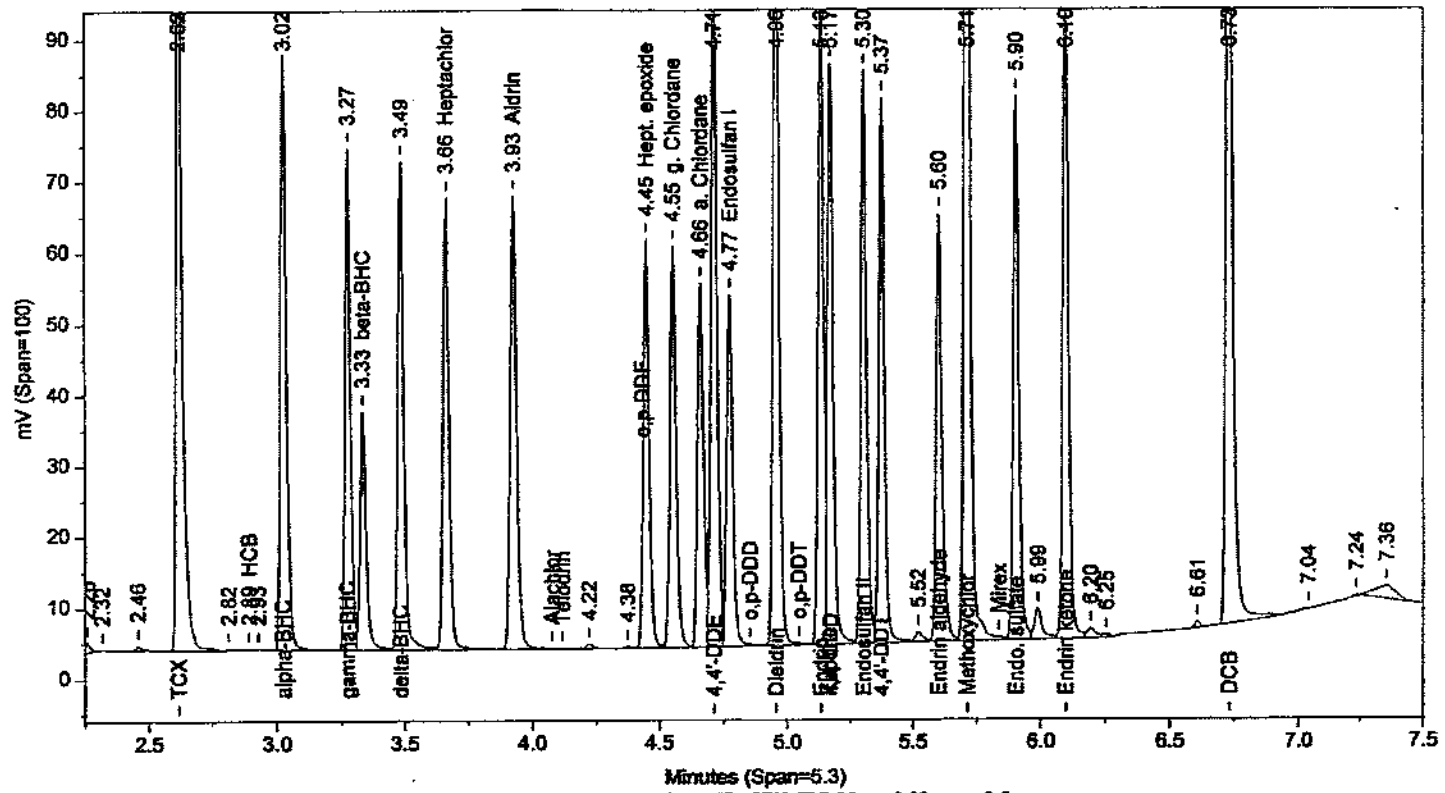
2.92 HCB
2.99 alpha-BHC
3.91 Aldrin
4.25
4.40 Hept. epoxide
4.56
4.80 4,4-DDE
4.93
5.08
5.47 4,4-DDT
5.62
5.66 Endrin aldehyde
5.75 Endo. sulfate
5.94 Methoxychlor
6.05
6.12
6.18
6.34
6.44
6.90 DCB
7.03

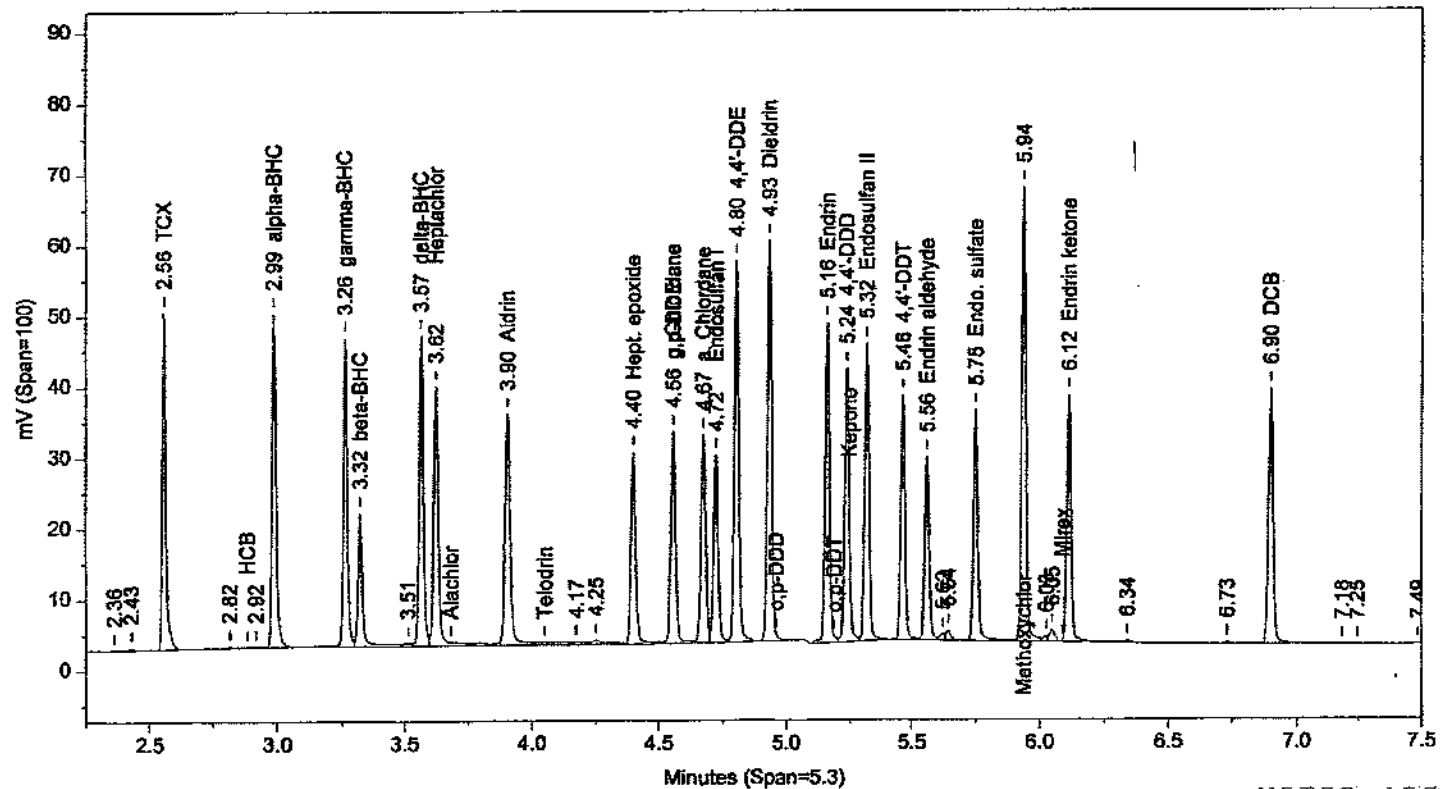
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.11R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 10:36:54 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.11R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 10:36:54 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	123899	19.409	TCX	2.558	48014	20.828	TCX
2.895	117	.017	HCB	.	0	.	HCB
3.024	84385	9.923	alpha-BHC	2.988	48042	9.845	alpha-BHC
3.273	70569	9.259	gamma-BHC	3.263	43488	9.539	gamma-BHC
3.334	33851	9.337	beta-BHC	3.323	18857	9.939	beta-BHC
3.485	69372	9.592	delta-BHC	3.565	44237	10.213	delta-BHC
3.663	63775	9.371	Heptachlor	3.623	36554	9.931	Heptachlor
3.927	63782	9.436	Aldrin	3.905	32961	9.809	Aldrin
4.449	57769	9.229	Hept. epoxide	4.4	27092	9.521	Hept. epoxide
4.554	56797	8.751	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.557	29939	15.278	o,p-DDE 9.CHD
4.66	51410	8.29	a. Chlordane	4.673	29458	9.414	a. Chlordane
4.711	97746	16.845	4,4'-DDE	4.802	54907	18.967	4,4'-DDE
4.772	49986	8.666	Endosulfan I	4.721	26724	9.516	Endosulfan I
4.956	110753	17.644	Dieldrin	4.932	57346	18.206	Dieldrin
5.134	90168	17.413	Endrin	5.162	45672	17.816	Endrin
5.17	81753	17.367	4,4'-DDD	5.238	39339	17.619	4,4'-DDD
5.302	81234	21.419	Endosulfan II	5.319	42518	19.033	Endosulfan II
5.375	77284	18.394	4,4'-DDT	5.464	34709	18.918	4,4'-DDT
5.601	60532	14.804	Endrin aldehyde	5.558	26428	15.075	Endrin aldehyde
5.713	179466	86.478	Methoxychlor	5.938	64874	91.679	Methoxychlor
5.903	76640	18.631	Endo. sulfate	5.75	32637	18.863	Endo. sulfate
6.098	93531	17.139	Endrin ketone	6.116	35080	17.734	Endrin ketone
6.732	139430	36.29	DCB	6.896	36079	36.359	DCB

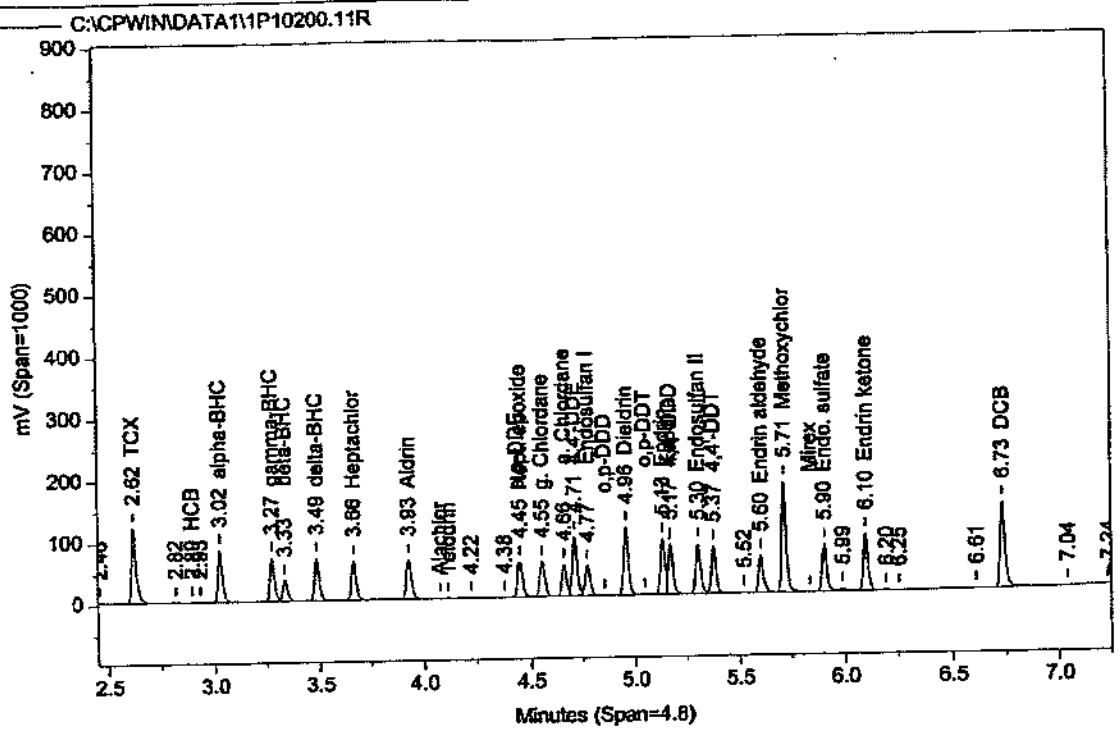
Files:
Area File: C:\CPWIN\DATA1\IP10200.11A
Area File: C:\CPWIN\DATA1\IP10200B.11A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:49:46 PM
File Reported On: 7/19/2011 at 2:49:57 PM

9.CHD= 29939 / 3097 = 9.67

LL 230P
7/19/11

10X REPLOTS

USF03 1922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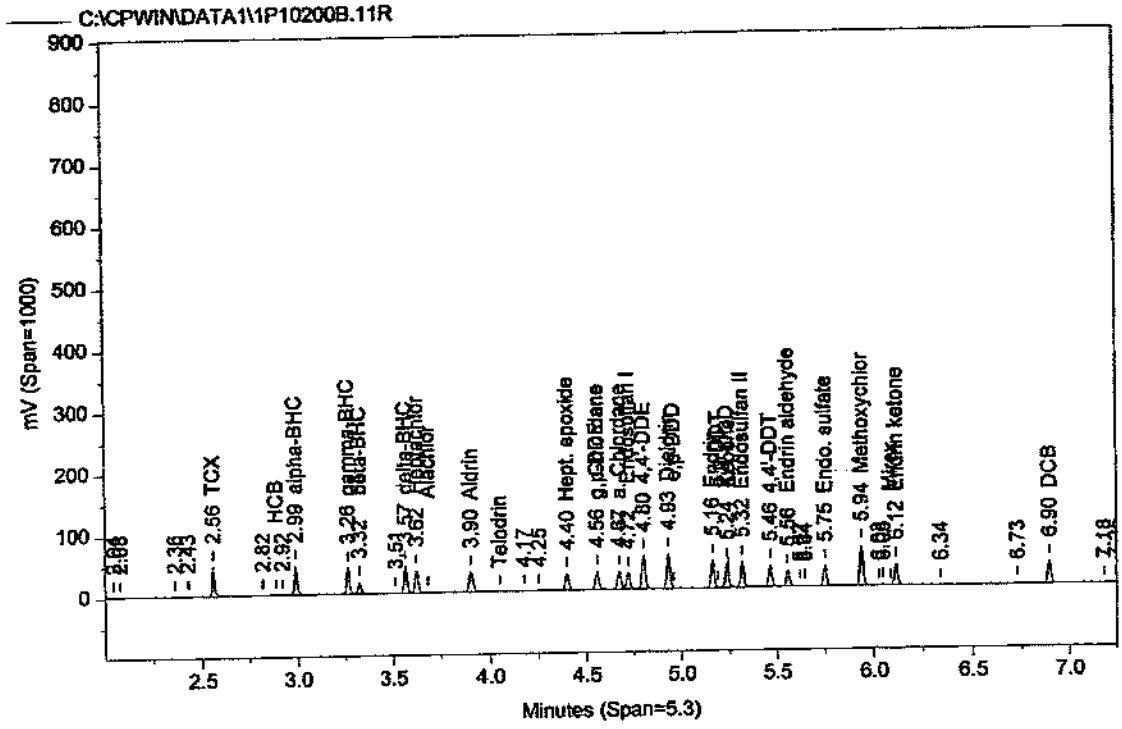
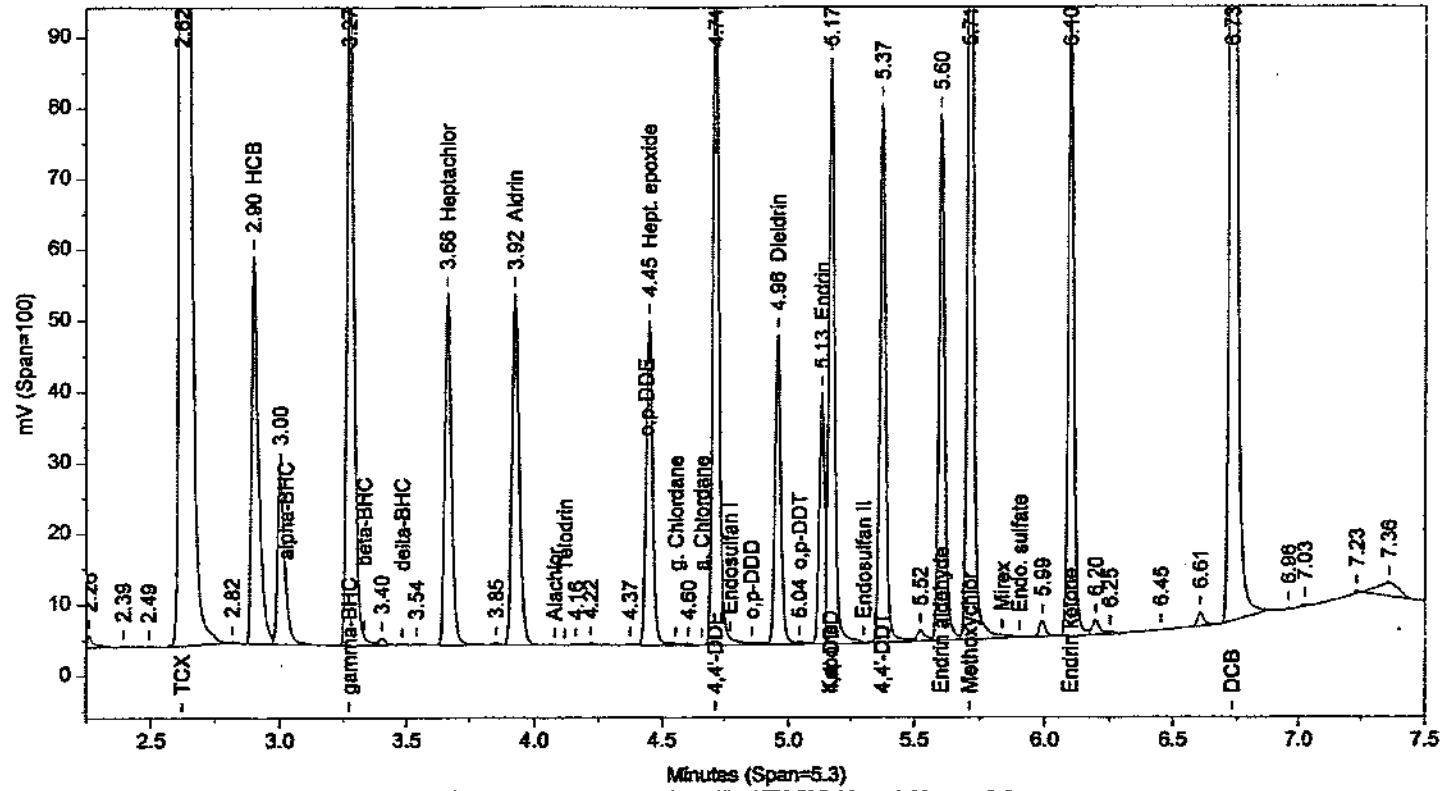
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
HCB
3.02 alpha-BHC
3.49 delta-BHC
3.86 Heptachlor
3.93 Aldrin
4.22
4.38
4.55 g. Chlordane
4.96 Dieldrin
5.30 Endosulfan II
5.37 4,4'-DDT
5.52
5.60 Endrin aldehyde
5.71 Methoxychlor
5.90 Endo. sulfate
5.99
6.10 Endrin ketone
6.61
6.73 DCB
7.04


C:\CPWIN\DATA1\1P10200B.11R
mV (Span=1000)
Minutes (Span=5.3)
2.56 TCX
HCB
2.99 alpha-BHC
3.90 Aldrin
Telodrin
4.40 Hept. apoxide
4.56
4.80 4,4'-DDE
4.93
5.46 4,4'-DDT
Endrin aldehyde
5.75 Endo. sulfate
5.94 Methoxychlor
6.34
6.73
6.90 DCB

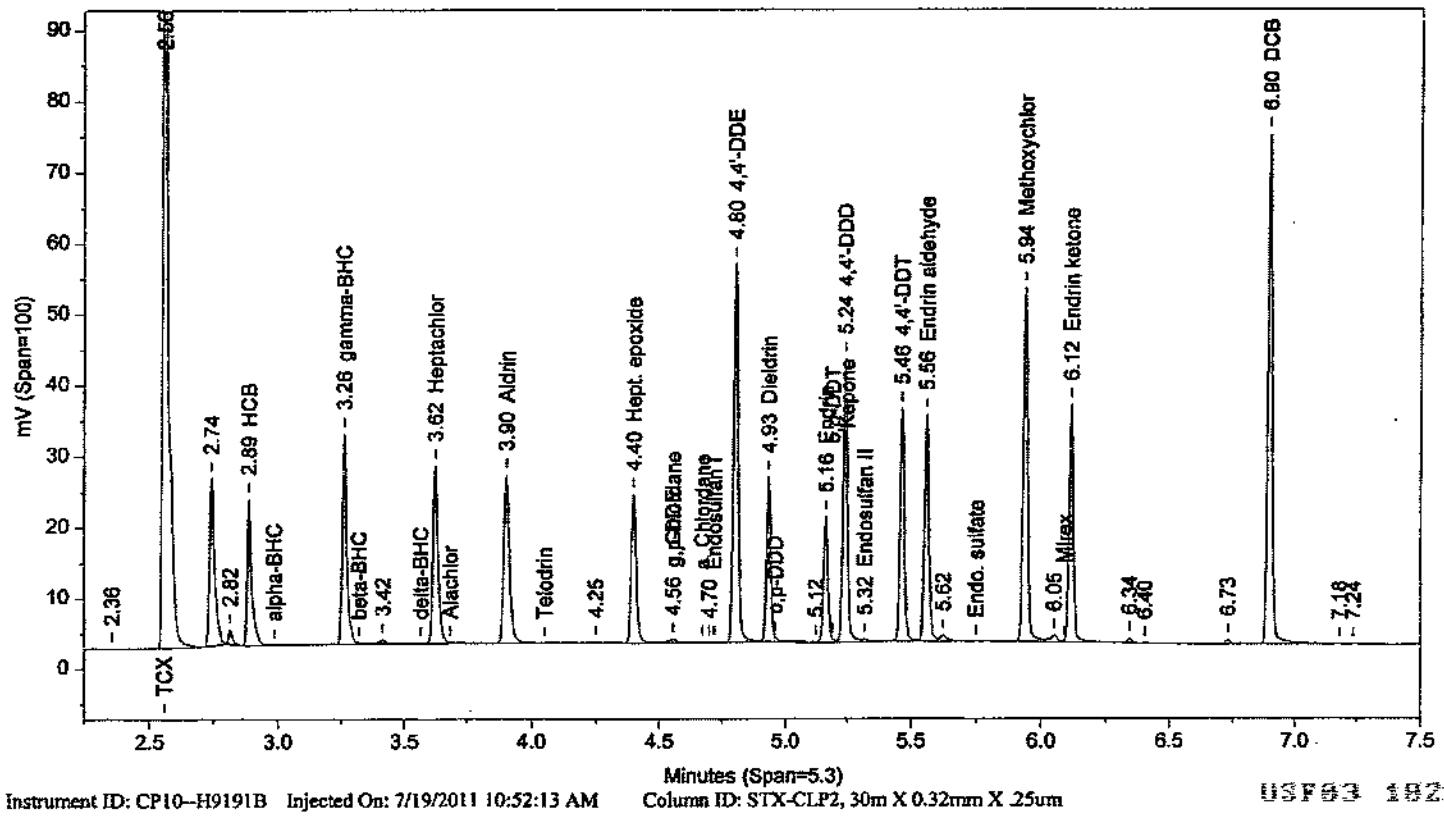
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.12R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 10:52:13 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.12R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 10:52:13 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

03F03 1824

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 1
Analyst: 0856

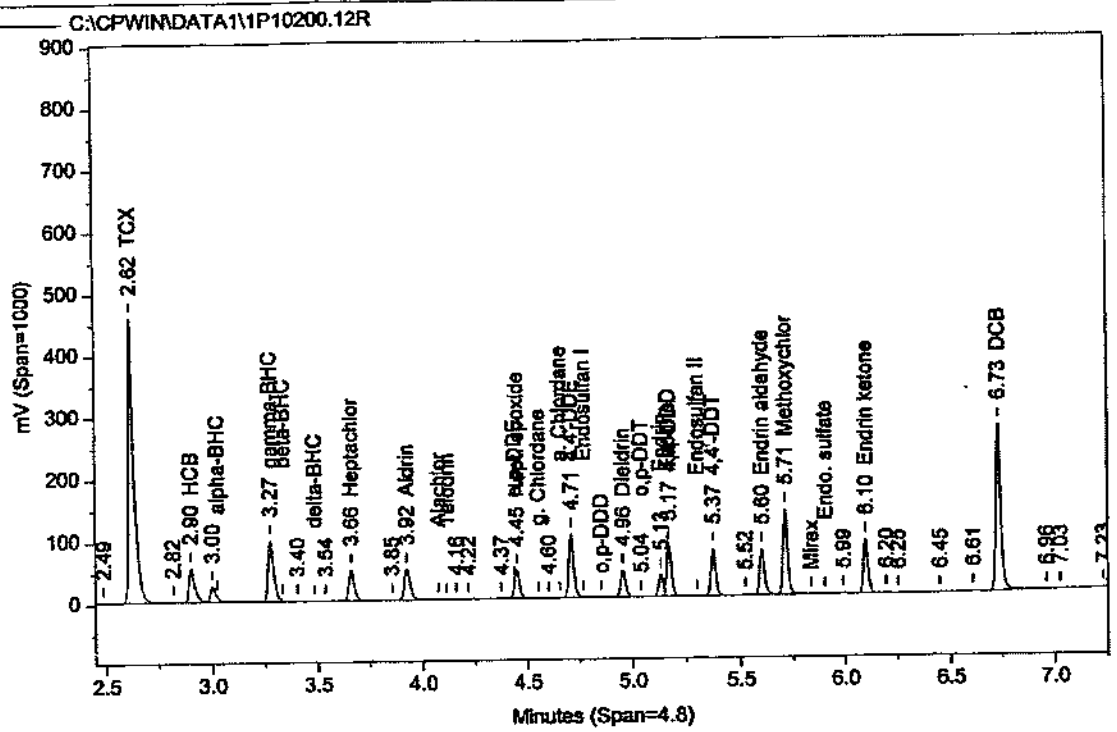
Dilution Factor: 1

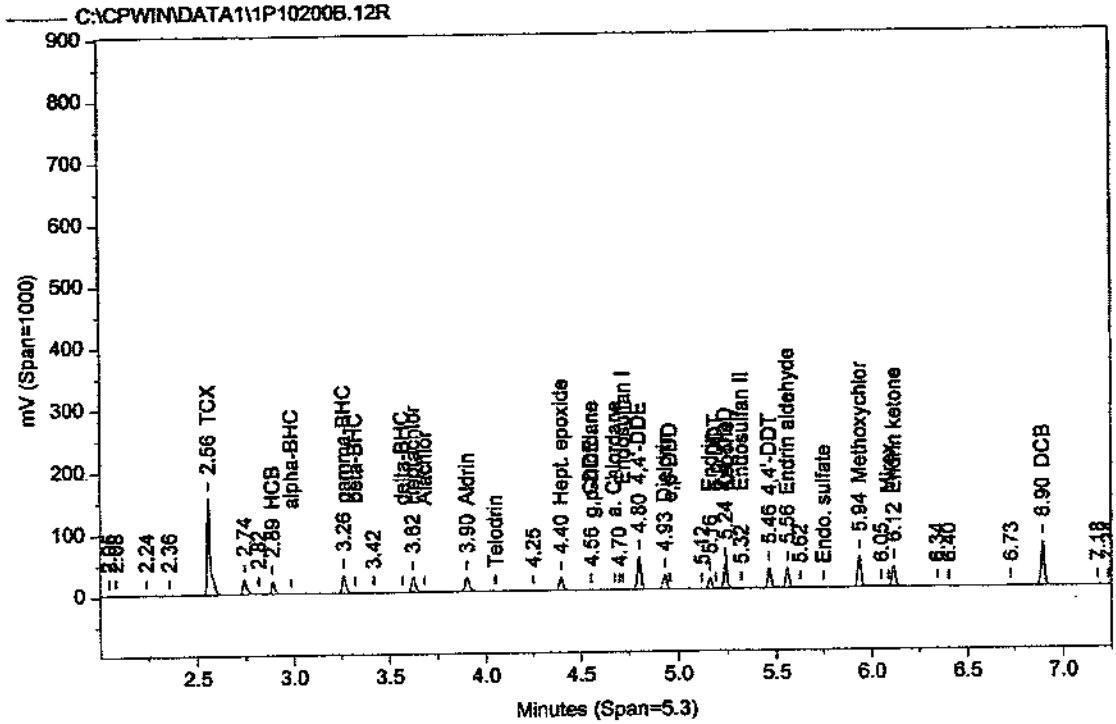
RT A	Height A	Amount A	Compound A
2.62	458448	71.818	TCX
2.899	54739	7.806	HCB
3.273	97311	12.767	gamma-BHC
3.66	49495	7.273	Heptachlor
3.924	49501	7.323	Aldrin
4.448	45961	7.342	Hept. epoxide
.	0	.	o,p-DDE
4.711	102481	17.662	4,4'-DDE
4.955	44051	7.018	Dieldrin
5.042	294	.084	o,p-DDT
5.133	35330	6.823	Endrin
5.17	82588	17.545	4,4'-DDD
.	0	.	Endosulfan II
5.374	76290	18.158	4,4'-DDT
5.601	74597	18.244	Endrin aldehyde
5.712	138512	66.744	Methoxychlor
6.098	88646	16.244	Endrin ketone
6.732	271148	70.573	DCB

RT B	Height B	Amount B	Compound B
2.559	161270	69.958	TCX
2.889	20869	6.645	HCB
3.262	30191	6.622	gamma-BHC
3.622	25271	6.866	Heptachlor
3.903	23784	7.078	Aldrin
4.4	20953	7.364	Hept. epoxide
4.557	519	.265	o,p-DDE
4.803	53474	18.472	4,4'-DDE
4.933	23303	7.398	Dieldrin
.	0	.	o,p-DDT
5.163	17898	6.982	Endrin
5.24	39980	17.906	4,4'-DDD
5.32	413	.185	Endosulfan II
5.465	33436	18.224	4,4'-DDT
5.56	32025	18.268	Endrin aldehyde
5.939	50413	71.244	Methoxychlor
6.117	33508	16.939	Endrin ketone
6.896	72287	72.848	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.12A
Area File: C:\CPWIN\DATA1\1P10200B.12A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:50:10 PM
File Reported On: 7/19/2011 at 2:50:21 PM

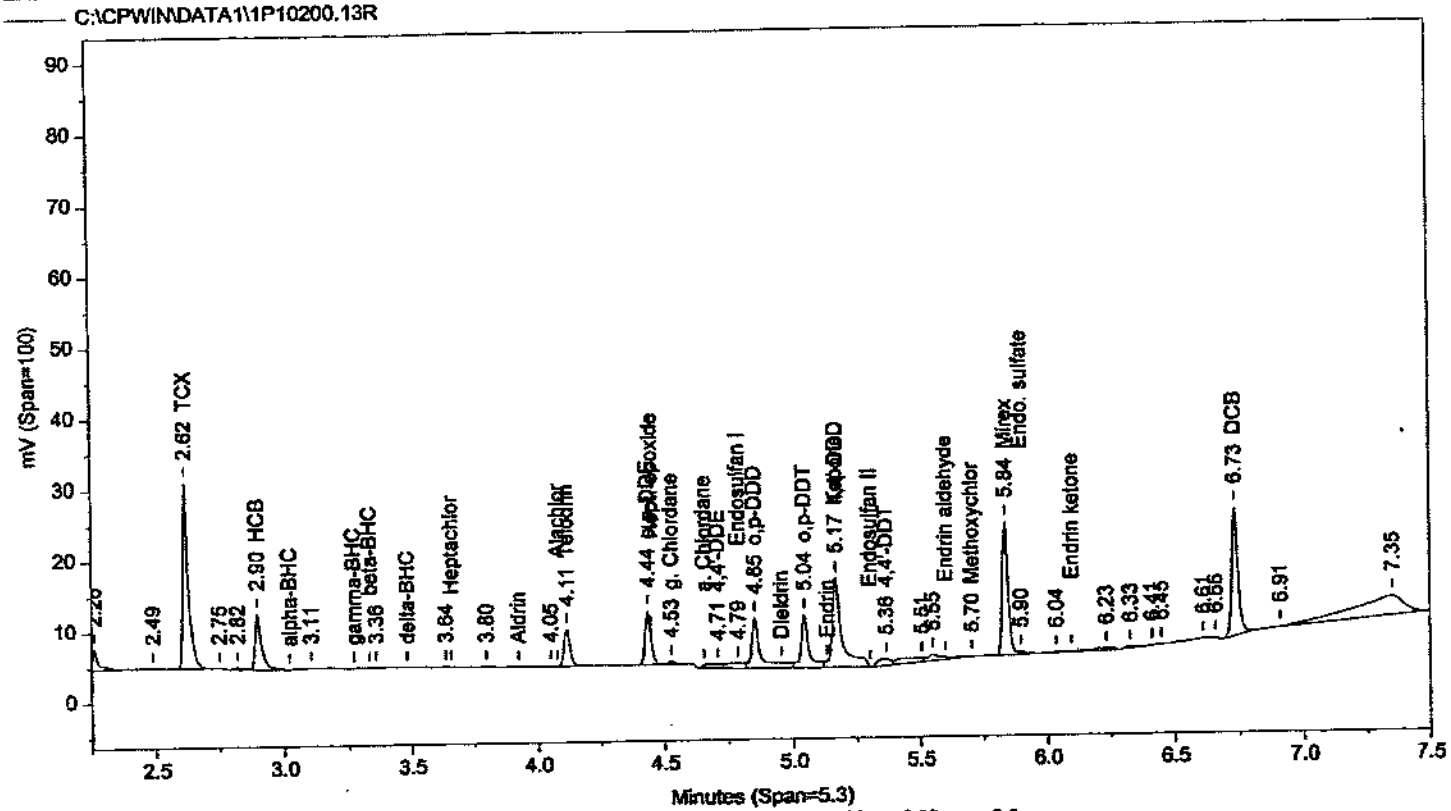
10X REPLOTS


C:\CPWIN\DATA1\1P10200.12R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.90 HCB
3.00 alpha-BHC
3.27 gamma-BHC
3.40 beta-BHC
3.54 delta-BHC
3.66 Heptachlor
3.92 Aldrin
4.71 Endosulfan I
4.96 Dieldrin
5.37 4,4'-DDT
5.60 Endrin aldehyde
5.71 Methoxychlor
5.99 Endo. sulfate
6.10 Endrin ketone
6.45
6.61
6.73 DCB


C:\CPWIN\DATA1\1P10200B.12R
mV (Span=1000)
Minutes (Span=5.3)
2.56 TCX
2.74
2.89 HCB
alpha-BHC
3.26 gamma-BHC
3.42 beta-BHC
3.82 delta-BHC
3.90 Aldrin
Telodrin
4.25
4.40 Hept. epoxide
4.56 g. Chlordane
4.70 a. Chlordane
4.80 4,4'-DDE
4.93 Dieldrin
5.24 Endosulfan II
5.32 4,4'-DDT
5.46 4,4'-DDT
5.56 Endrin aldehyde
5.94 Methoxychlor
6.12 Endrin ketone
6.34
6.73
6.90 DCB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.13R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 11:15:49 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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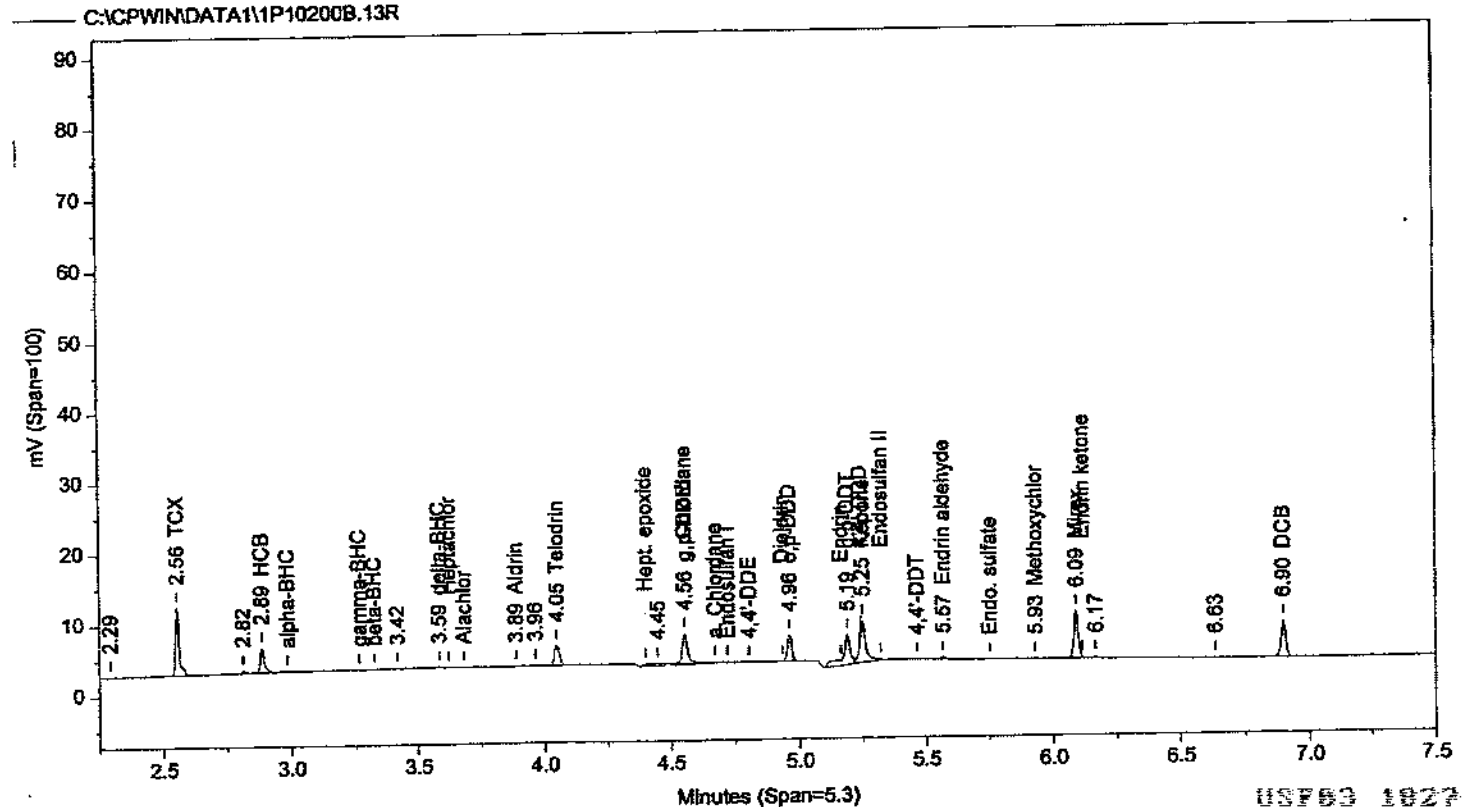


Instrument ID: CP10--H9191B Injected On: 7/19/2011 11:15:49 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

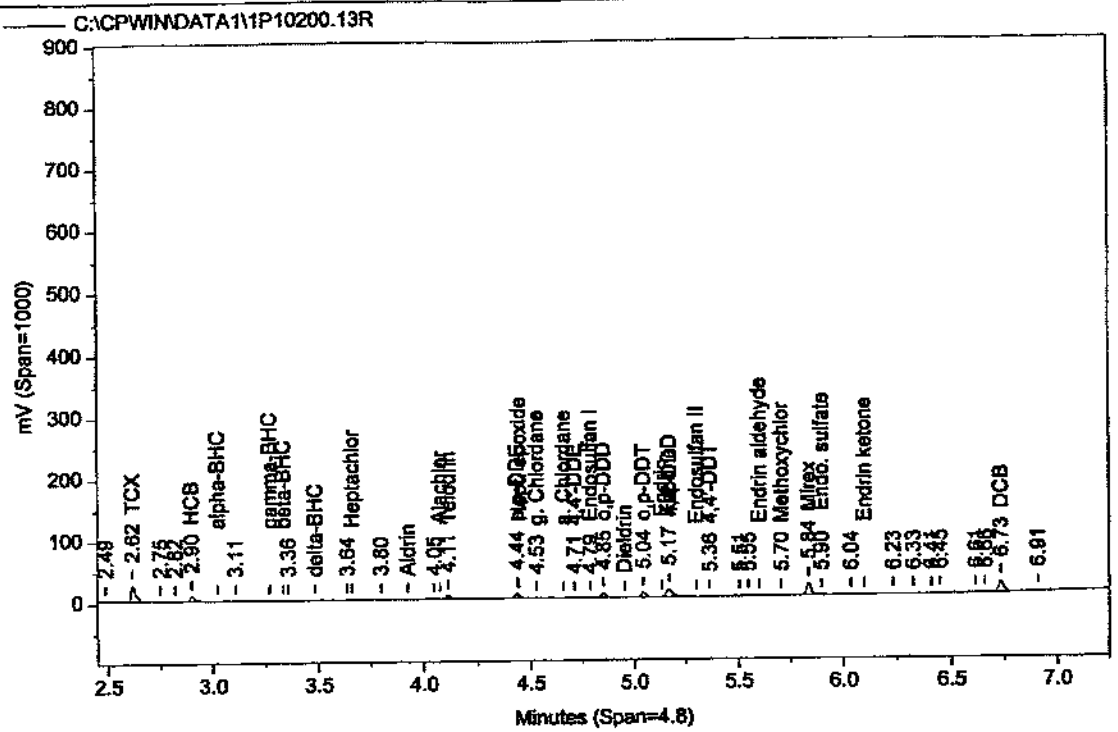
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

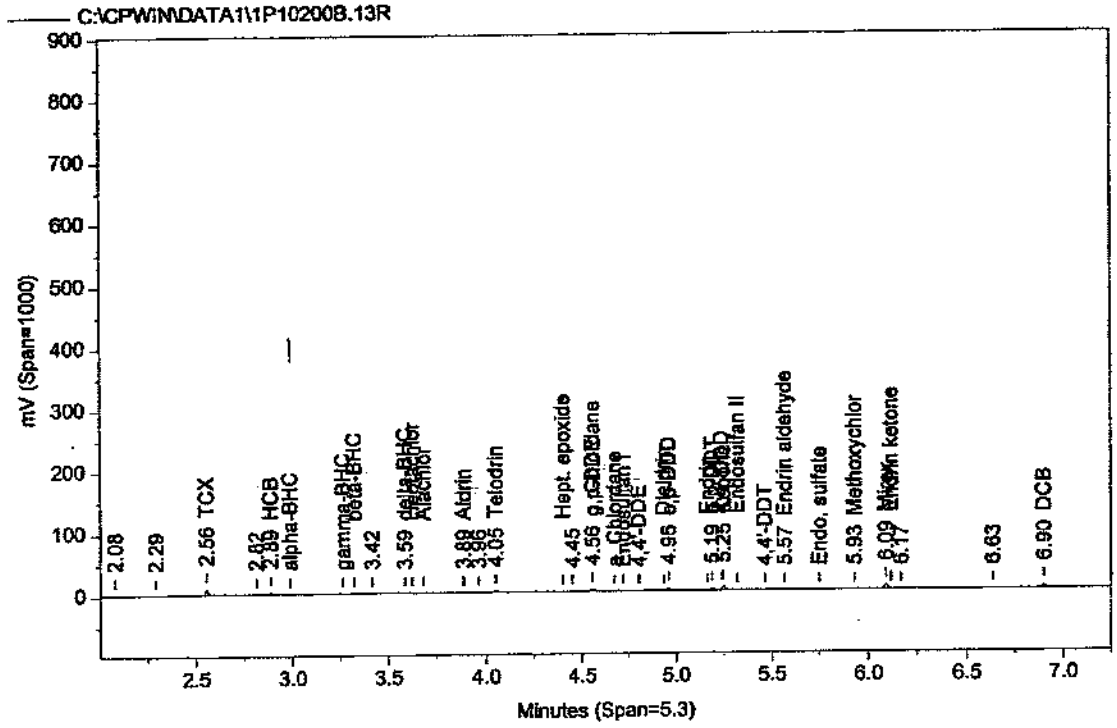
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	26318	4.123	TCX	2.557	9499	4.121	TCX
2.899	7916	1.129	HCB	2.888	3456	1.1	HCB
.	0	.	delta-BHC	3.586	74	.017	delta-BHC
.	0	.	Aldrin	3.887	19	.006	Aldrin
4.115	5234	1.042	Telodrin	4.049	2753	1.086	Telodrin
4.436	7613	2.044	o,p-DDE	4.557	4295	2.192	o,p-DDE
4.529	402	.062	g. Chlordane	.	0	.	g. Chlordane
4.71	649	.112	4,4'-DDE	.	0	.	4,4'-DDE
4.786	699	.121	Endosulfan I	.	0	.	Endosulfan I
4.851	7146	2.212	o,p-DDD	4.961	3657	2.151	o,p-DDD
5.045	7533	2.157	o,p-DDT	5.189	4231	2.35	o,p-DDT
5.167	12743	8.561	Kepone	5.247	5950	8.079	Kepone
5.363	965	.23	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.567	227	.129	Endrin aldehyde
5.704	136	.066	Methoxychlor	5.93	52	.073	Methoxychlor
5.836	18769	5.233	Mirex	6.091	6757	5.556	Mirex
5.897	483	.117	Endo. sulfate	.	0	.	Endo. sulfate
6.733	18016	4.689	DCB	6.898	5098	5.138	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.13A
Area File: C:\CPWIN\DATA1\1P10200B.13A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:50:34 PM
File Reported On: 7/19/2011 at 2:50:45 PM

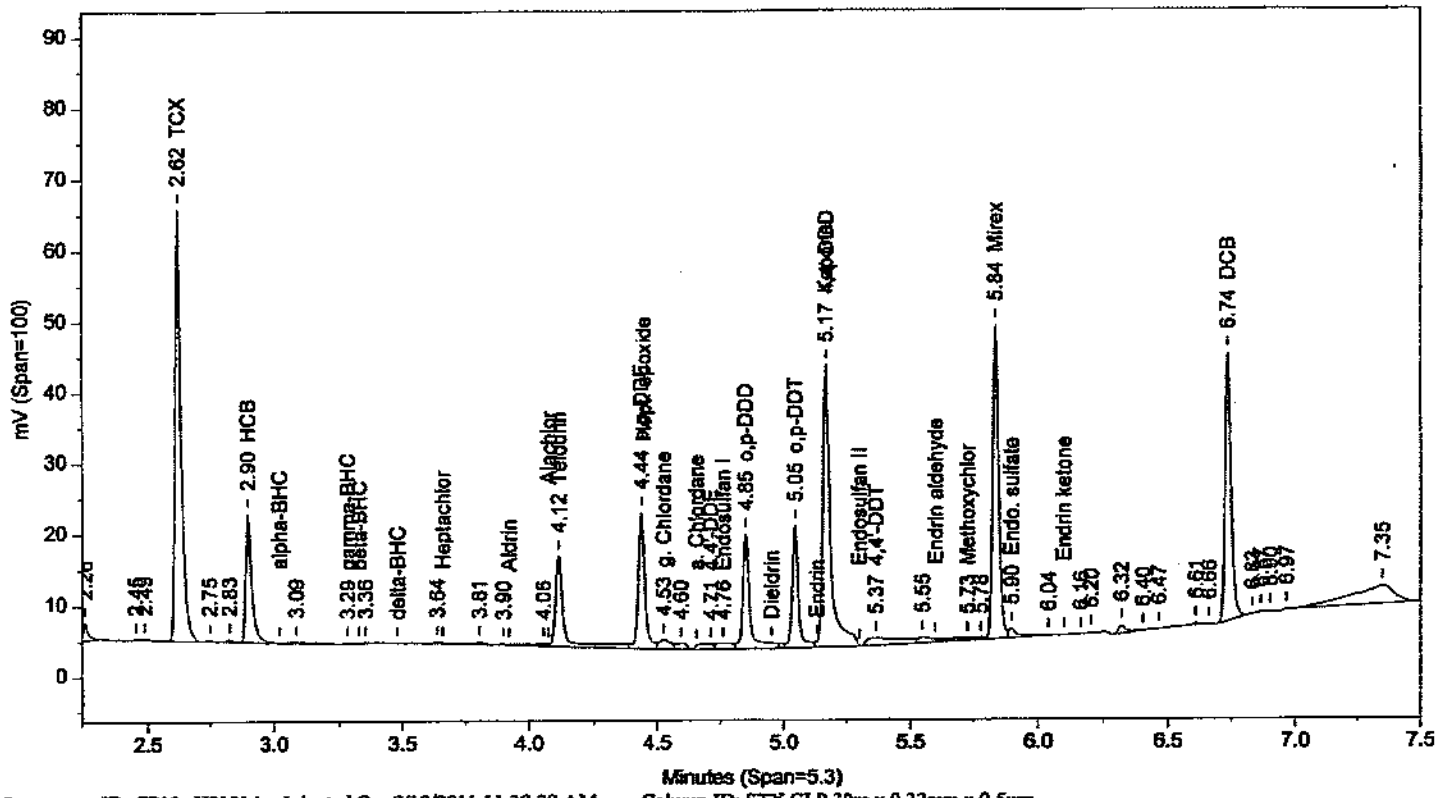
10X REPLOTS


C:\CPWIN\DATA1\1P10200.13R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
HCB
alpha-BHC
gamma-BHC
delta-BHC
3.64 Heptachlor
3.80
Aldrin
4.53 g. Chlordane
4.71
4.78
4.85 o,p-DDD
Dieldrin
5.04 o,p-DDT
5.17
5.38 4,4-DDT
5.70 Methoxychlor
5.84 Mirex
5.90 Endo. sulfate
6.04 Endrin ketone
6.23
6.33
6.45
6.73 DCB
6.91


C:\CPWIN\DATA1\1P10200B.13R
mV (Span=1000)
Minutes (Span=5.3)
2.08
2.29
2.56 TCX
2.82
2.89 HCB
alpha-BHC
gamma-BHC
3.42
3.59
Aldrin
4.05 Telodrin
4.45 Hept. epoxide
4.56 g. Chlordane
4.95
5.19
5.23
4,4'-DDT
5.57 Endrin aldehyde
Endo. sulfate
5.93 Methoxychlor
6.09
6.17
6.63
6.90 DCB

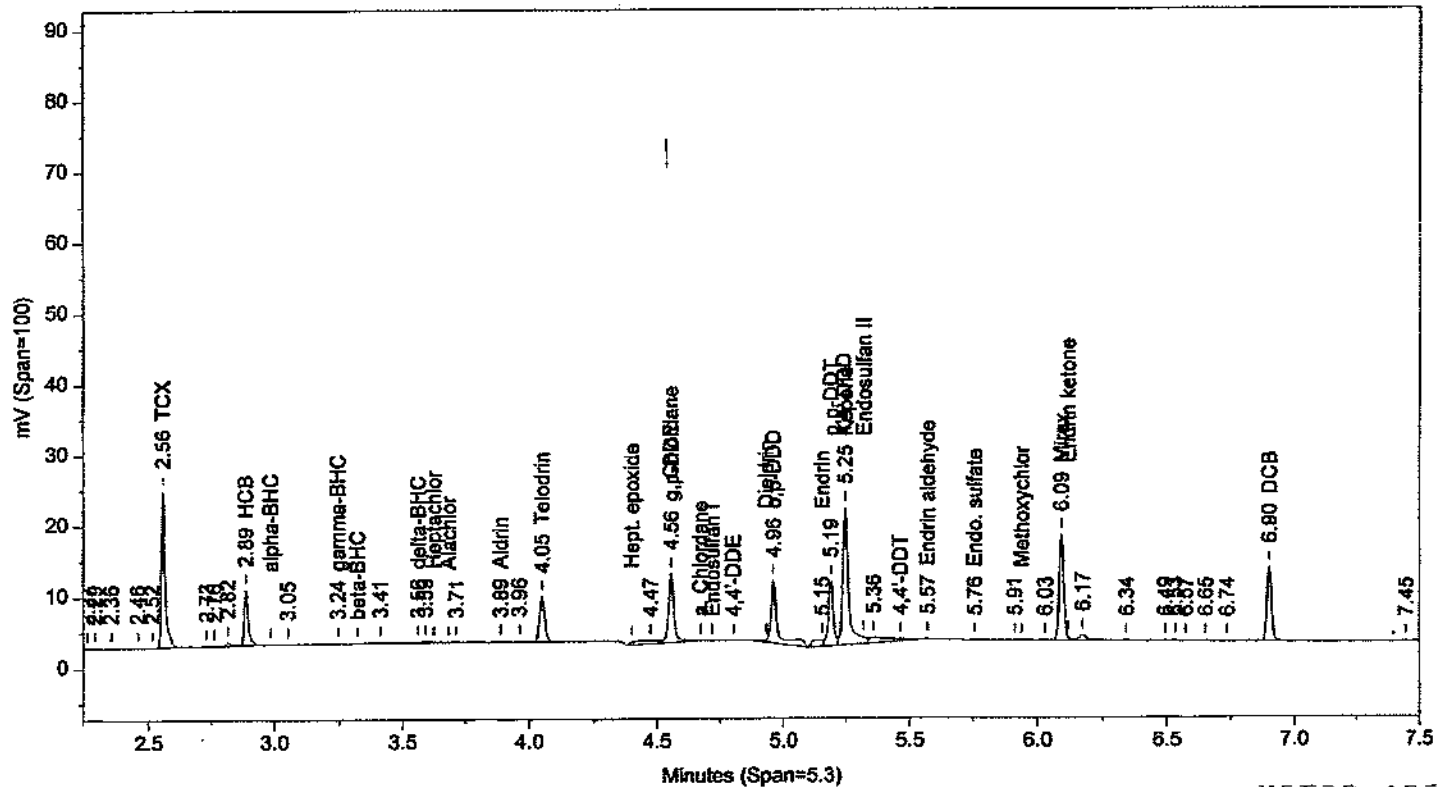
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.14R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 11:38:38 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.14R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 11:38:38 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

03FB3 1836

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

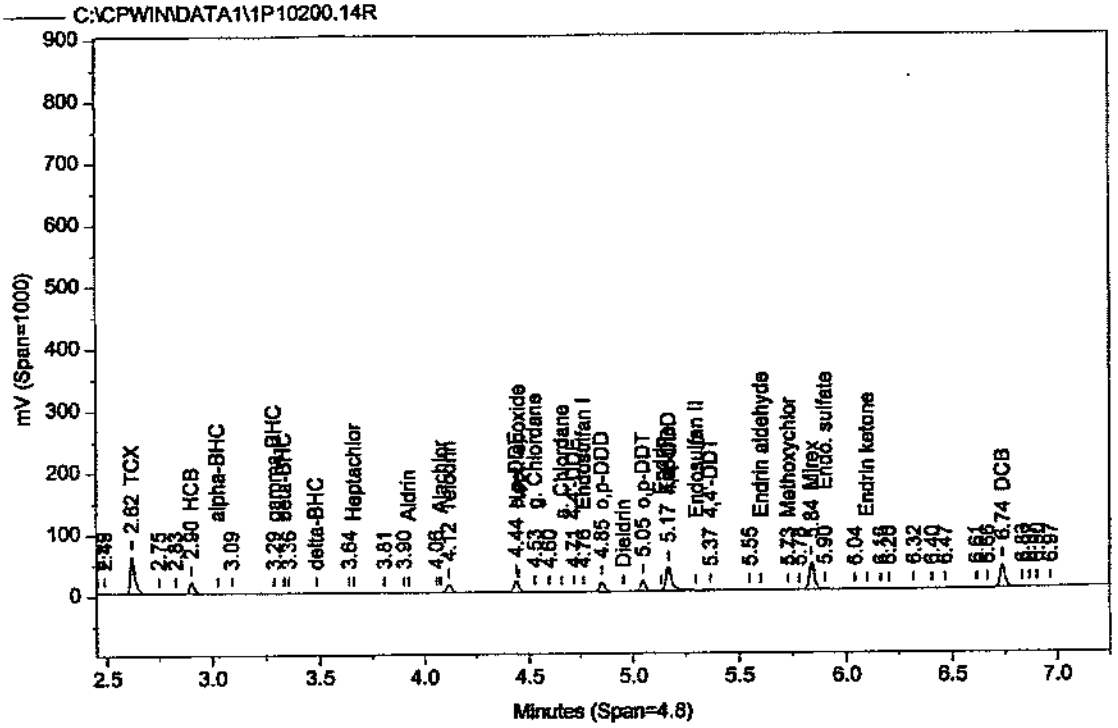
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	61045	9.563	TCX	2.558	22611	9.809	TCX
2.9	17991	2.566	HCB	2.889	7775	2.476	HCB
3.286	166	.022	gamma-BHC	3.244	82	.018	gamma-BHC
.	0	.	delta-BHC	3.563	143	.033	delta-BHC
.	0	.	Aldrin	3.89	123	.037	Aldrin
4.116	12729	2.534	Telodrin	4.05	6354	2.506	Telodrin
4.436	19037	5.11	o,p-DDE	4.557	9701	4.95	o,p-DDE
4.527	1337	.206	g. Chlordane	.	0	.	g. Chlordane
4.714	826	.142	4,4'-DDE	.	0	.	4,4'-DDE
4.763	817	.142	Endosulfan I	.	0	.	Endosulfan I
4.851	16224	5.022	o,p-DDD	4.961	8803	5.178	o,p-DDD
5.045	17258	4.942	o,p-DDT	5.189	9084	5.046	o,p-DDT
.	0	.	Endrin	5.154	911	.355	Endrin
5.167	39632	26.627	Kepone	5.246	19213	26.089	Kepone
5.366	1029	.245	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.57	139	.08	Endrin aldehyde
5.727	352	.17	Methoxychlor	.	0	.	Methoxychlor
5.898	1329	.323	Endo. sulfate	5.757	70	.04	Endo. sulfate
5.836	44239	12.333	Mirex	6.092	15053	12.377	Mirex
6.736	37856	9.853	DCB	6.902	10621	10.704	DCB

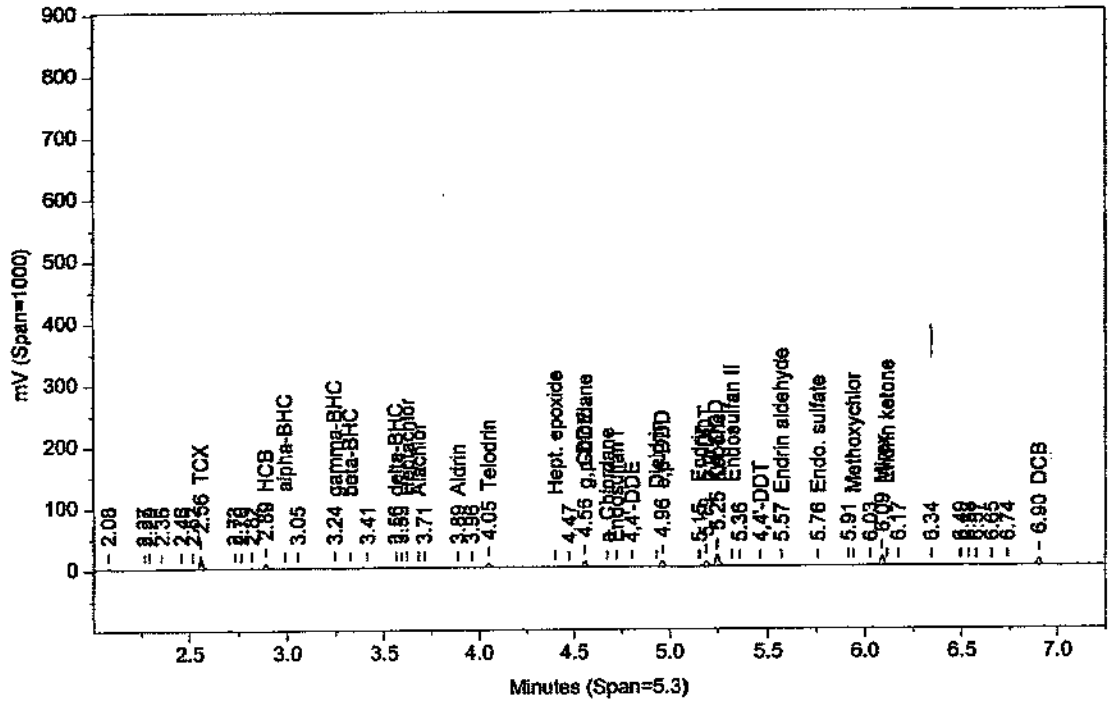
Files:
Area File: C:\CPWIN\DATA1\1P10200.14A
Area File: C:\CPWIN\DATA1\1P10200B.14A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:50:58 PM
File Reported On: 7/19/2011 at 2:51:09 PM

10X REPLOTS

C:\CPWIN\DATA1\1P10200.14R

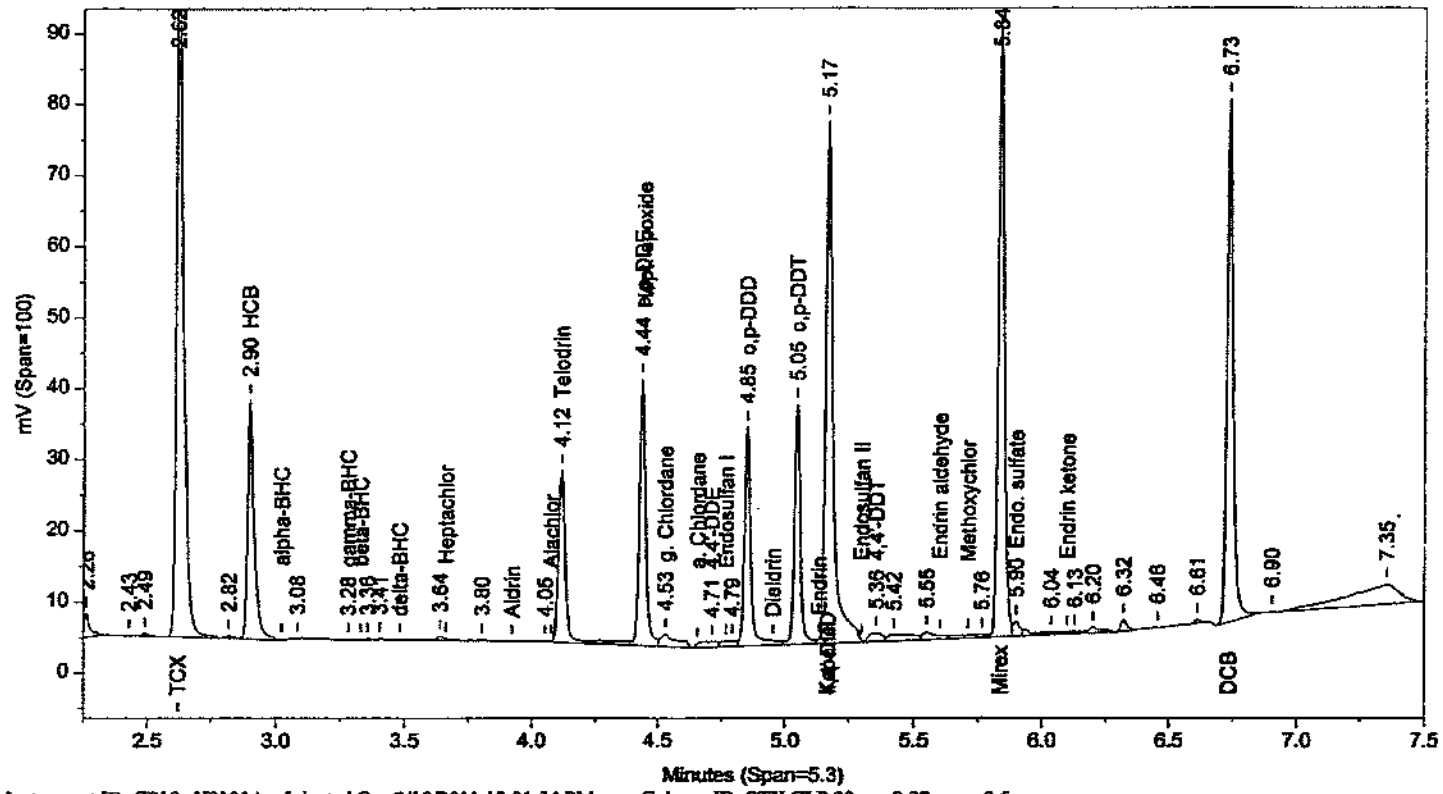


C:\CPWIN\DATA1\1P10200B.14R



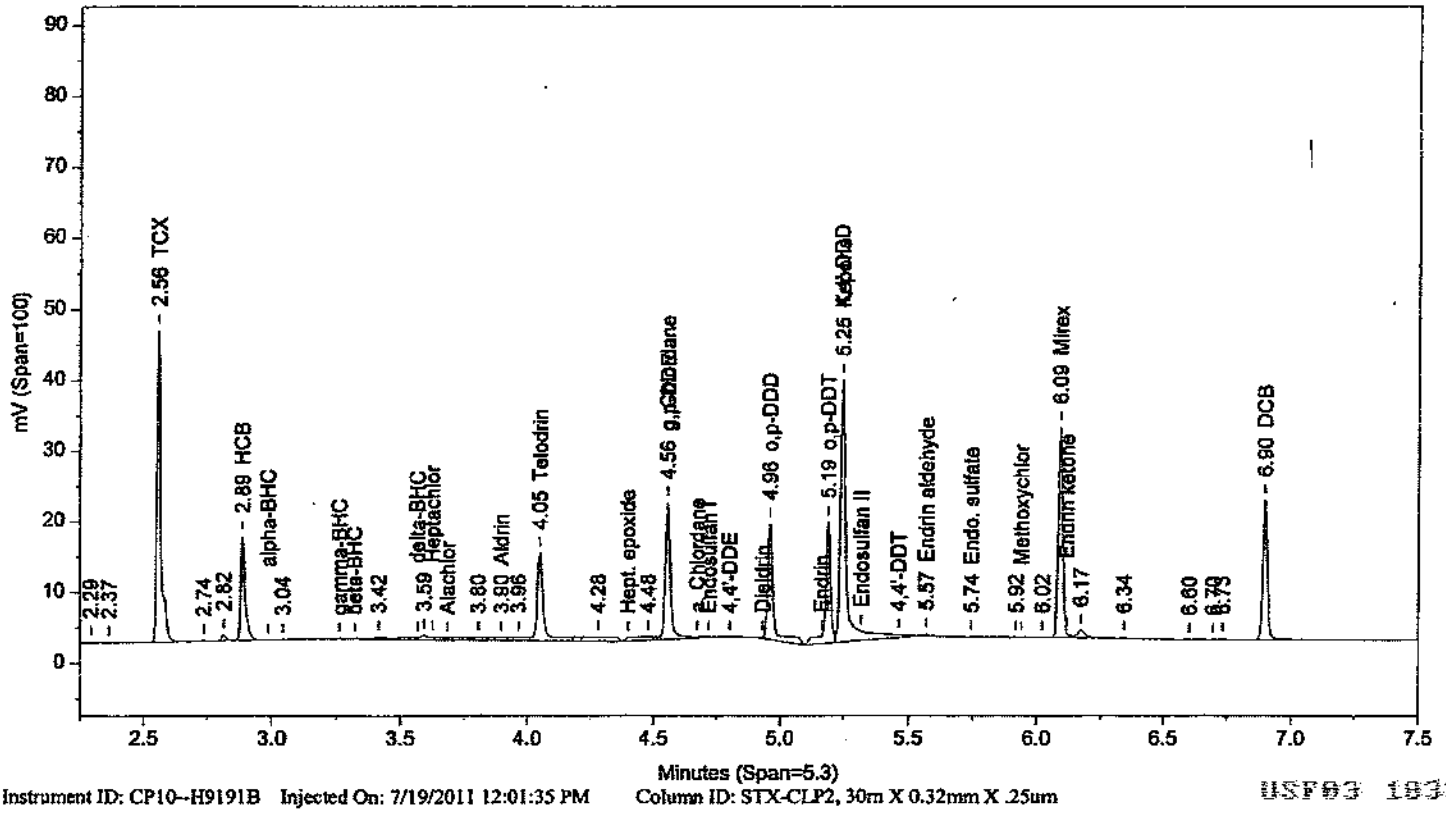
LANCASTER LABORATORIES

—— C:\CPWIN\DATA1\1P10200.15R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 12:01:34 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

—— C:\CPWIN\DATA1\1P10200B.15R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 12:01:35 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF03 1833

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

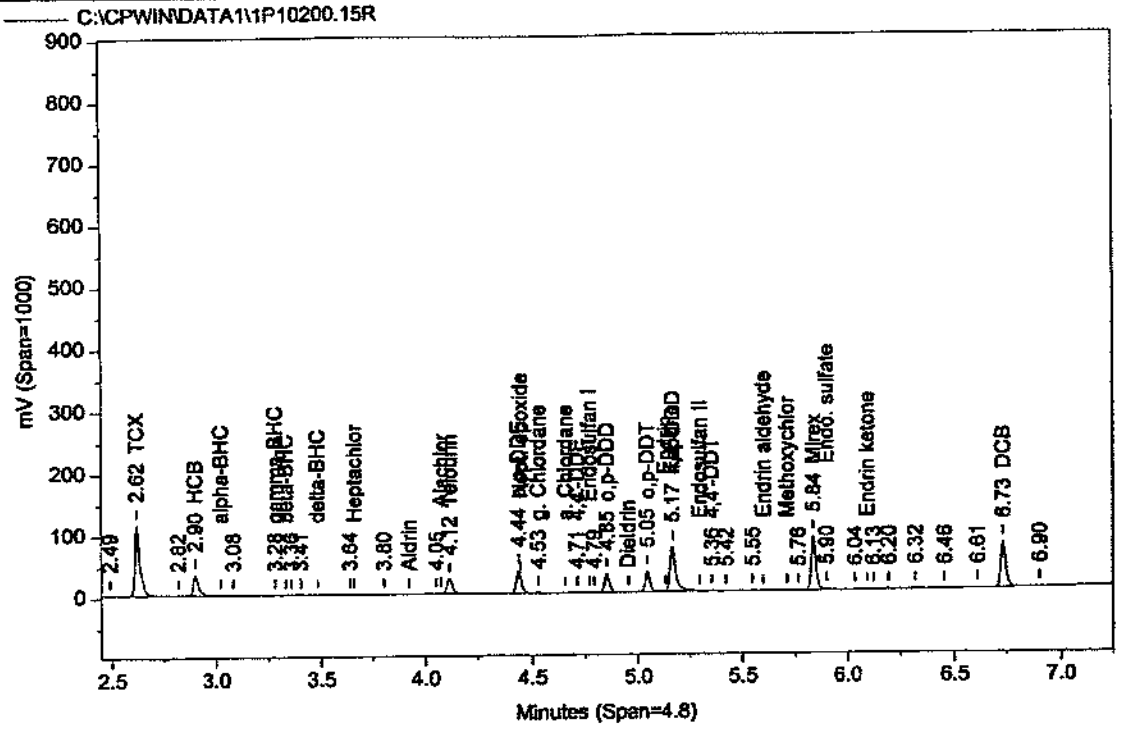
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

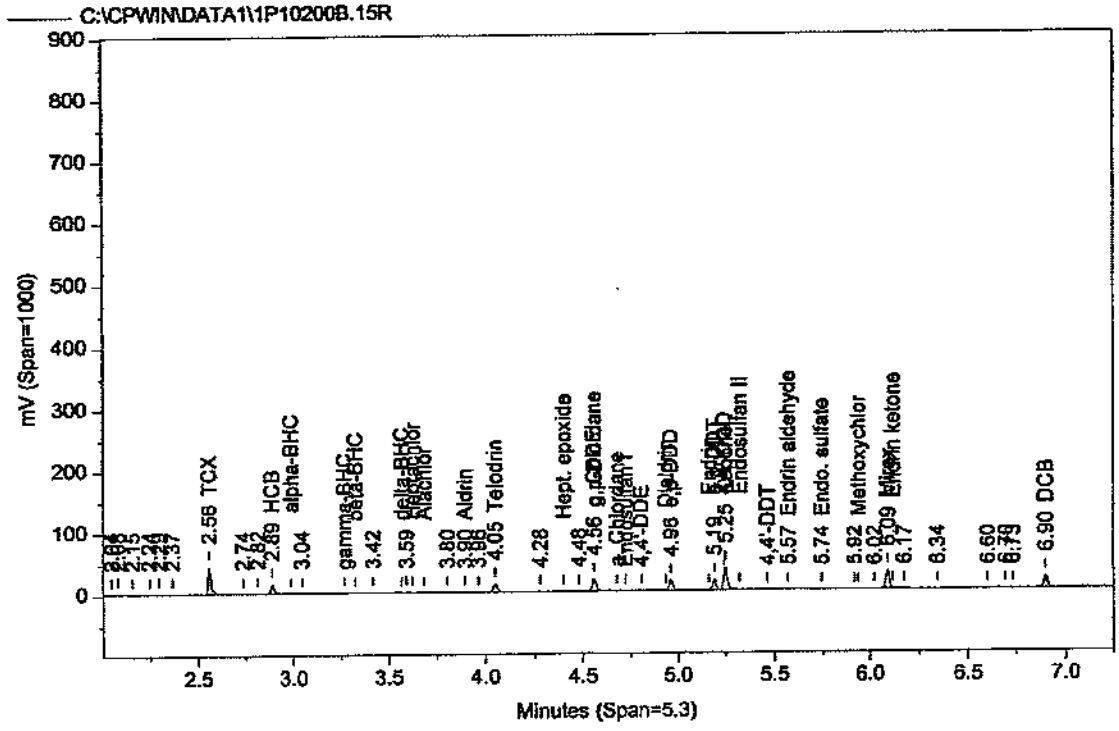
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	115242	18.053	TCX	2.557	44481	19.296	TCX
2.9	33515	4.78	HCB	2.888	14993	4.774	HCB
3.283	102	.013	gamma-BHC	..	0	.	gamma-BHC
.	0	.	Aldrin	3.896	431	.128	Aldrin
4.116	24170	4.812	Telodrin	4.049	12452	4.912	Telodrin
4.437	37455	10.055	o,p-DDE	4.557	19353	9.876	o,p-DDE
4.529	1733	.267	g. Chlordane	.	0	.	g. Chlordane
4.713	802	.138	4,4'-DDE	.	0	.	4,4'-DDE
4.852	31048	9.611	o,p-DDD	4.961	16578	9.752	o,p-DDD
5.046	33803	9.68	o,p-DDT	5.189	17204	9.556	o,p-DDT
5.167	73466	49.359	Kepone	5.246	37092	50.365	Kepone
5.357	1215	.289	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.569	257	.147	Endrin aldehyde
5.899	2083	.506	Endo. sulfate	5.745	77	.045	Endo. sulfate
5.836	87519	24.399	Mirex	6.091	30045	24.704	Mirex
6.734	73601	19.156	DCB	6.899	20038	20.194	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.15A
Area File: C:\CPWIN\DATA1\1P10200B.15A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:51:22 PM
File Reported On: 7/19/2011 at 2:51:33 PM

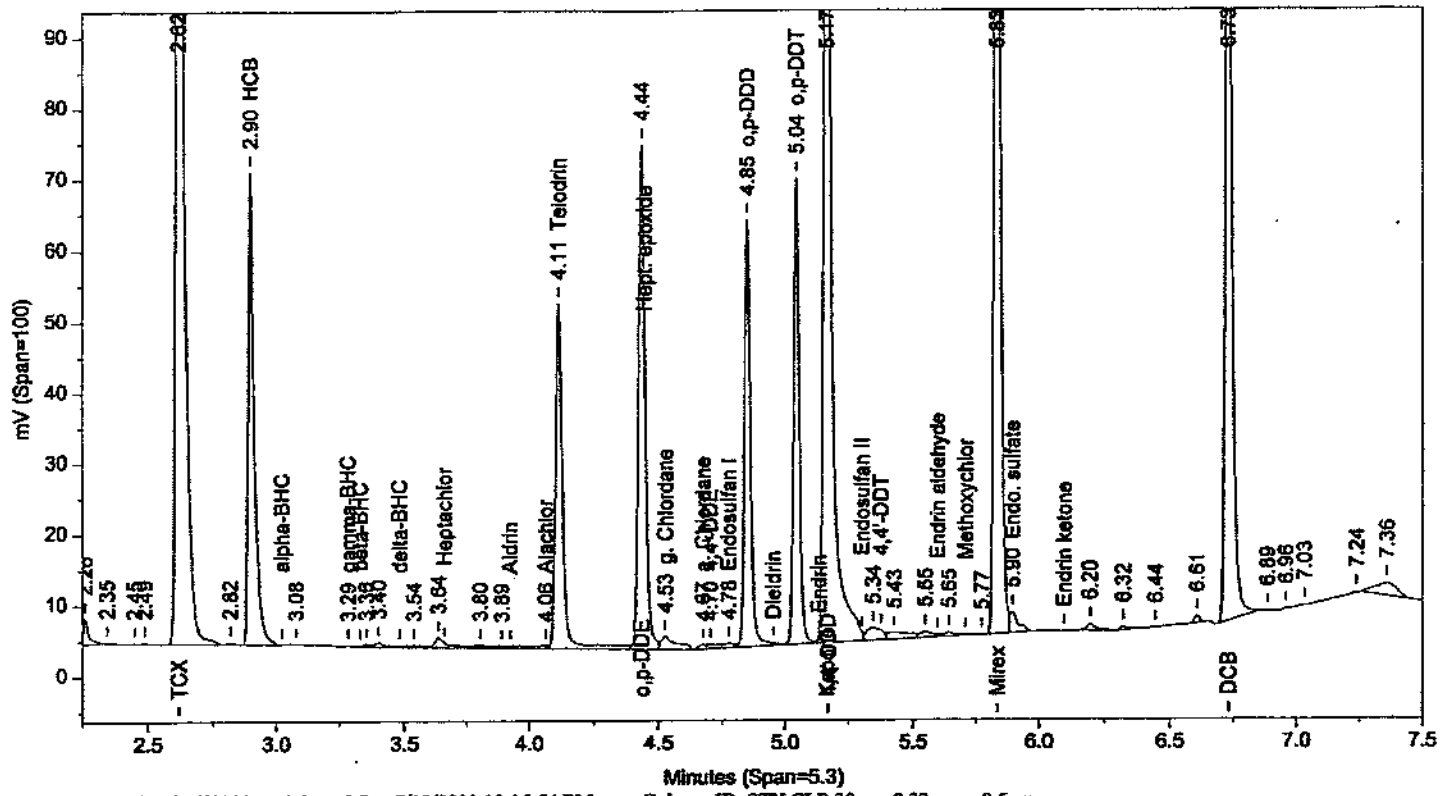
10X REPLOTS


C:\CPWIN\DATA1\1P10200.15R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.90 HCB
3.08 alpha-BHC
3.64 Heptachlor
3.80 Aldrin
4.53 g. Chlordane
4.79
4.85 o,p-DDD
5.05 o,p-DDT
5.17
5.36
5.42 Endosulfan II
5.55 Endrin aldehyde
5.76 Methoxychlor
5.84
5.90 Endo. sulfate
6.04 Endrin ketone
6.13
6.20
6.32
6.46
6.81
8.73 DCB
6.90


C:\CPWIN\DATA1\1P10200B.15R
mV (Span=1000)
Minutes (Span=5.3)
2.58 TCX
2.89 HCB
3.04 alpha-BHC
3.42
3.59
3.80
3.88
4.05 Telodrin
4.28 Hept. epoxide
4.48
4.56
4.96
5.19
5.25 Endosulfan II
4,4'-DDT
5.57 Endrin aldehyde
5.74 Endo. sulfate
5.92 Methoxychlor
6.09
6.17
6.34
6.60
6.79
6.90 DCB

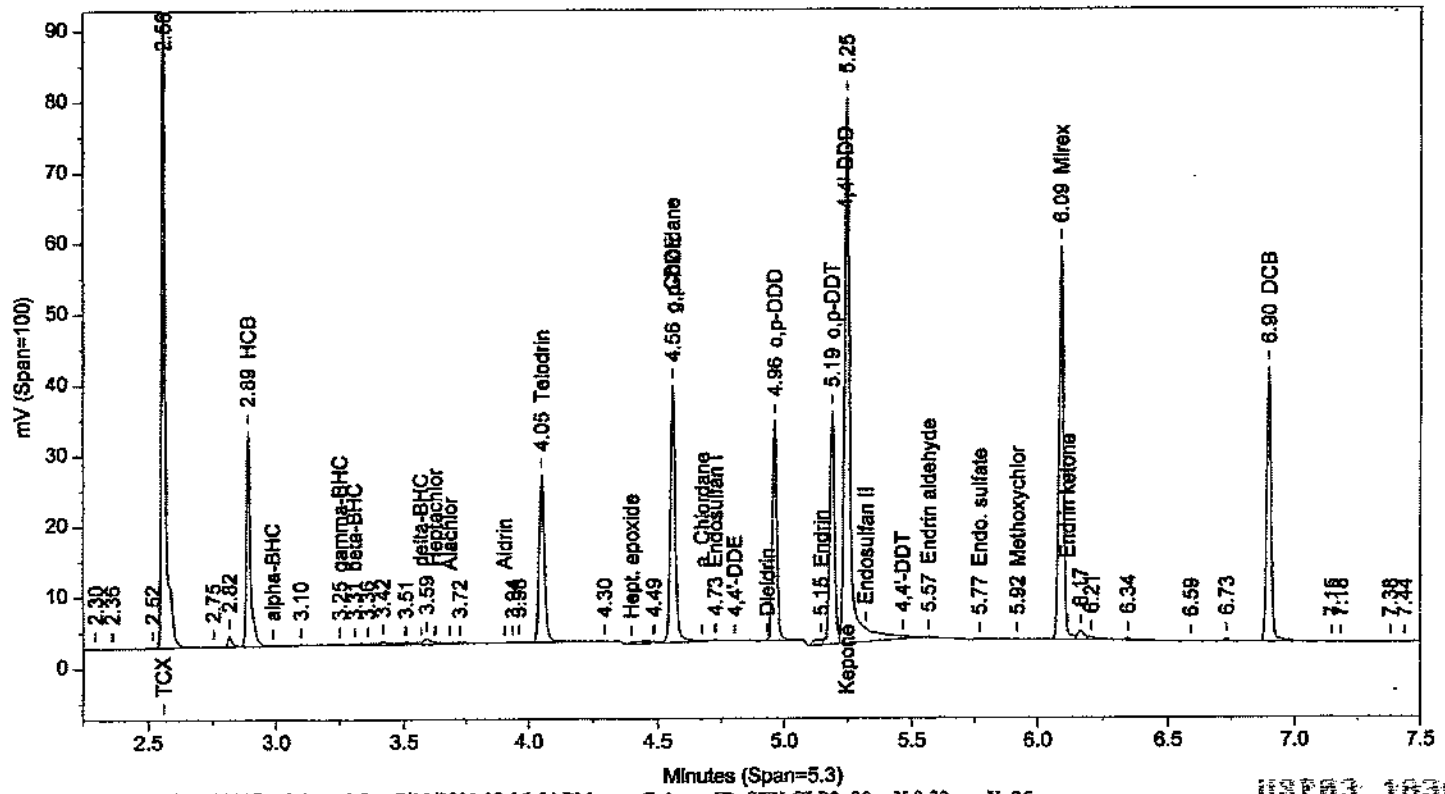
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.16R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 12:16:54 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.16R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 12:16:54 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

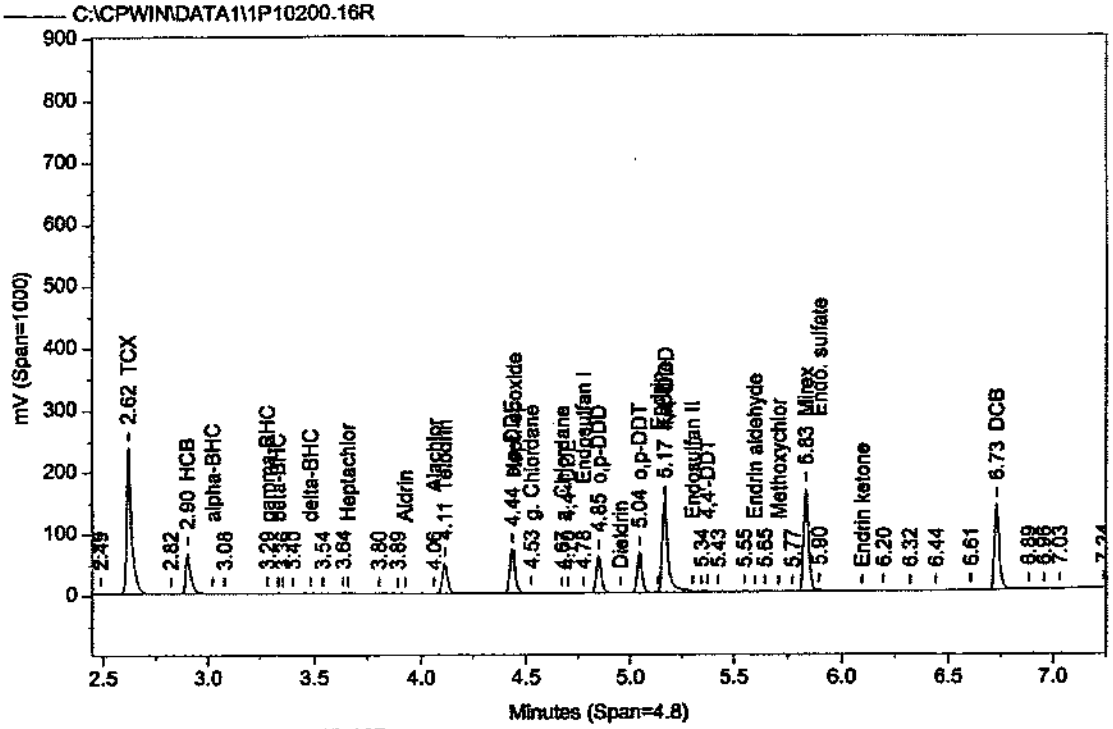
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

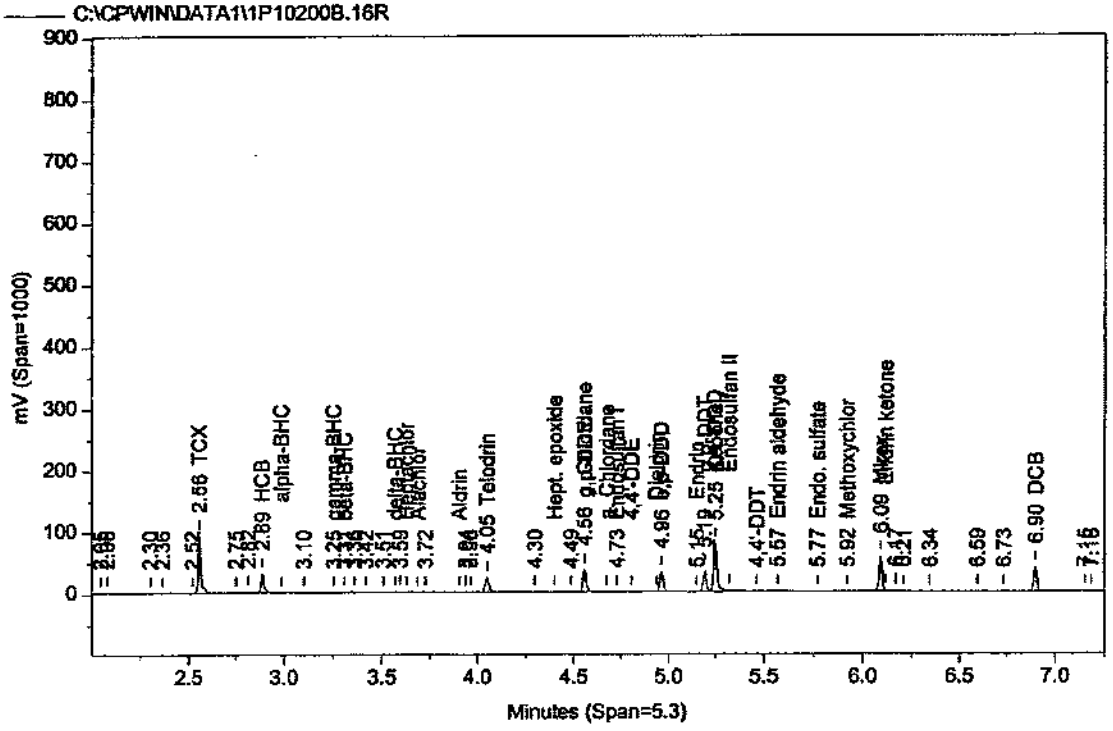
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	238054	37.292	TCX	2.559	93697	40.645	TCX
2.899	66713	9.514	HCB	2.889	30603	9.745	HCB
3.285	198	.026	gamma-BHC	3.252	198	.043	gamma-BHC
.	0	.	beta-BHC	3.31	203	.107	beta-BHC
4.114	48770	9.709	Telodrin	4.05	23672	9.337	Telodrin
4.064	412	.	Alachlor	.	0	.	Alachlor
4.436	71467	19.185	o,p-DDE	4.558	36544	18.649	o,p-DDE
4.527	1845	.284	g. Chlordane	.	0	.	g. Chlordane
4.674	621	.1	a. Chlordane	.	0	.	a. Chlordane
4.702	590	.102	4,4'-DDE	.	0	.	4,4'-DDE
4.777	631	.109	Endosulfan I	4.726	182	.065	Endosulfan I
4.851	60270	18.655	o,p-DDD	4.962	31738	18.67	o,p-DDD
5.045	66427	19.022	o,p-DDT	5.189	32947	18.3	o,p-DDT
.	0	.	Endrin	5.147	734	.286	Endrin
5.165	146991	98.758	Kepone	5.246	77244	104.885	Kepone
.	0	.	Endrin aldehyde	5.568	173	.098	Endrin aldehyde
5.896	2971	.722	Endo. sulfate	5.77	55	.032	Endo. sulfate
5.835	168114	46.868	Mirex	6.091	56322	46.311	Mirex
.	0	.	Methoxychlor	5.92	51	.072	Methoxychlor
6.732	139962	36.429	DCB	6.897	38651	38.951	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.16A
Area File: C:\CPWIN\DATA1\1P10200B.16A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:51:46 PM
File Reported On: 7/19/2011 at 2:51:57 PM

10X REPLOTS

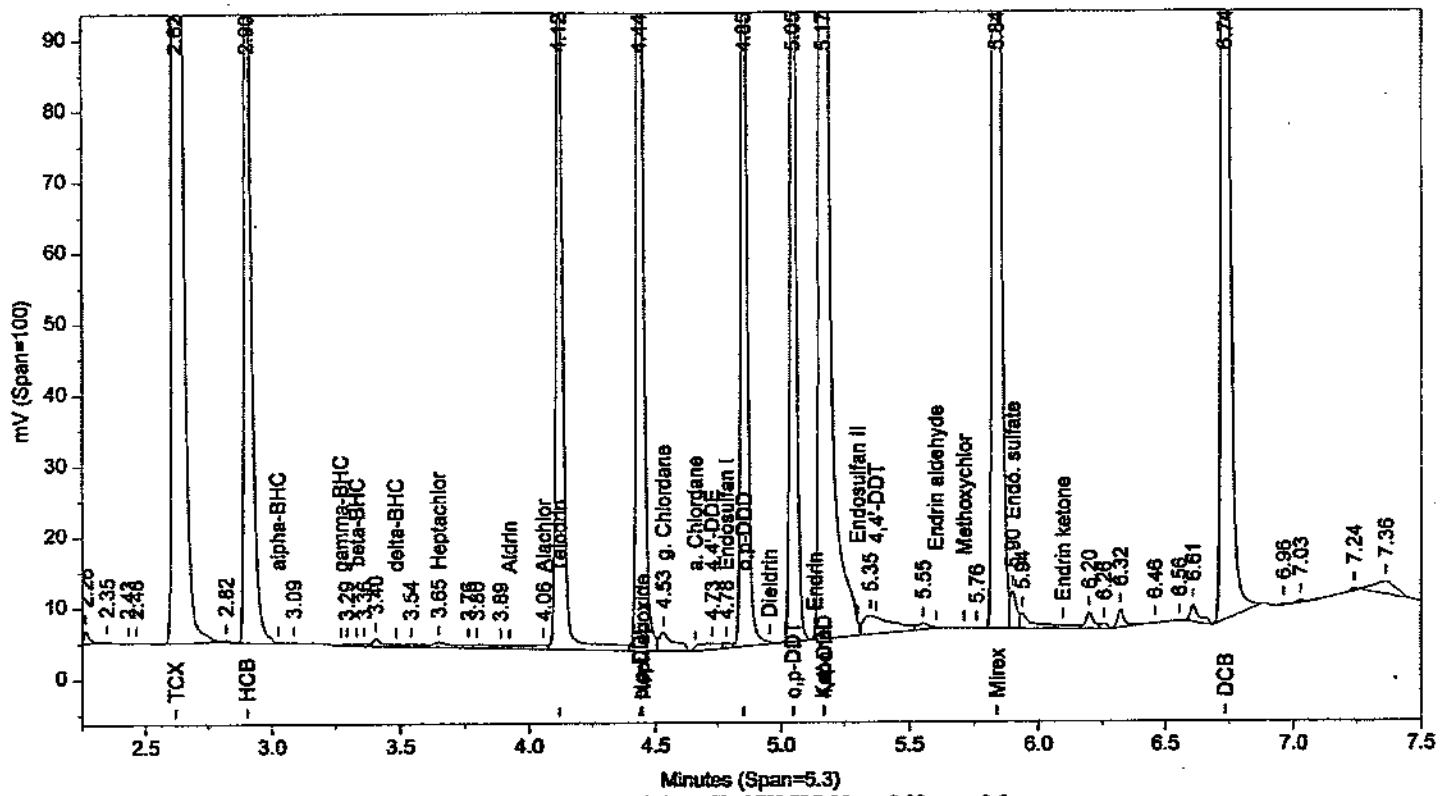
USPTO 2007


C:\CPWIN\DATA1\1P10200.16R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.90 HCB
3.08 alpha-BHC
3.54 delta-BHC
3.64 Heptachlor
3.89 Aldrin
4.53 g. Chlordane
4.85 o,p-DDD
5.04 o,p-DDT
5.34 4,4-DDT
5.55 Endrin aldehyde
5.65 Methoxychlor
5.80 Endo. sulfate
6.20 Endrin ketone
6.61
6.73 DCB


C:\CPWIN\DATA1\1P10200B.16R
mV (Span=1000)
Minutes (Span=5.3)
2.58 TCX
2.89 HCB
3.10 alpha-BHC
3.72 Aldrin
4.05 Telodrin
4.30 Hept. epoxide
4.58
4.73
4.86
5.25 Endosulfan II
5.67 Endrin aldehyde
5.77 Endo. sulfate
5.92 Methoxychlor
6.34
6.59
6.73
6.90 DCB

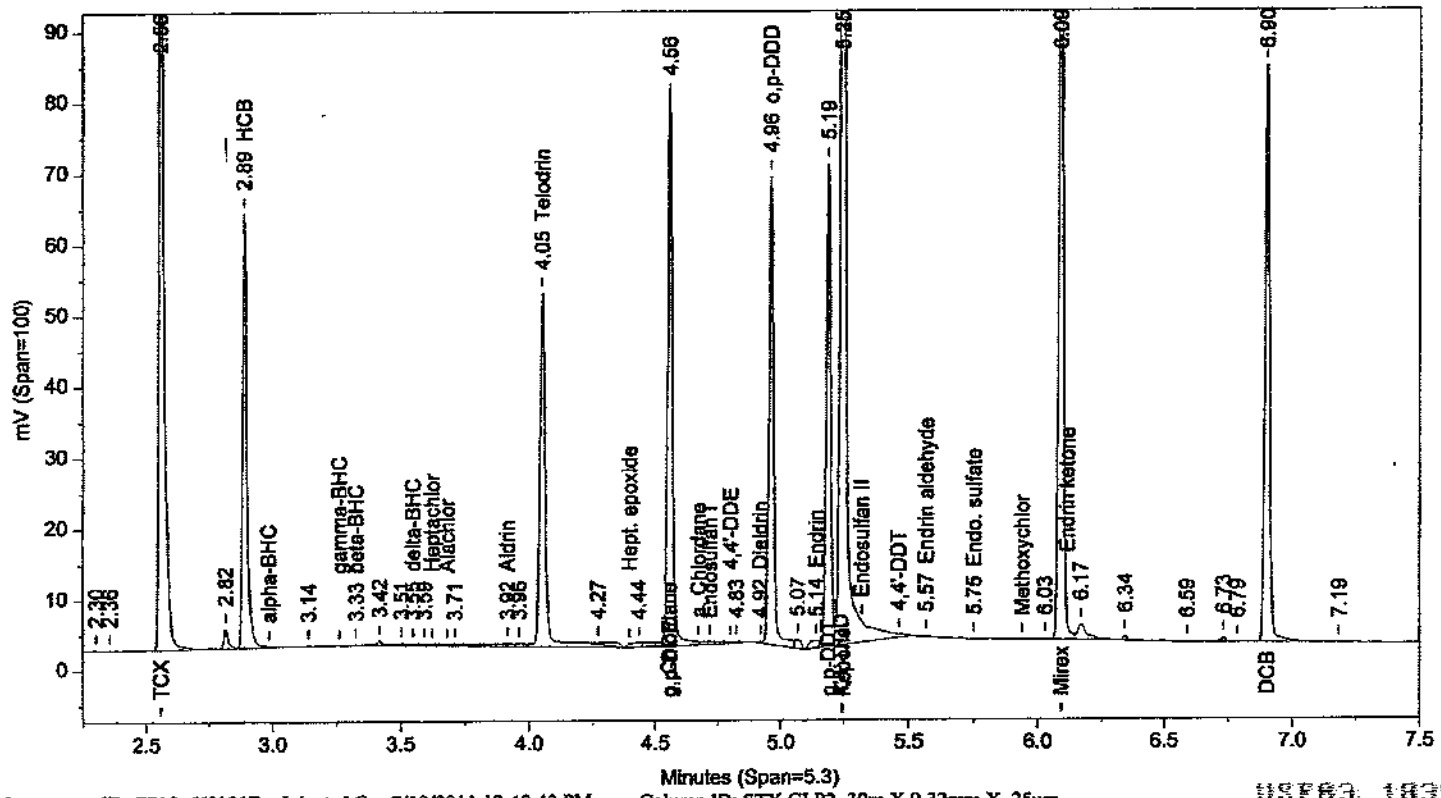
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.17R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 12:40:43 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.17R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 12:40:43 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

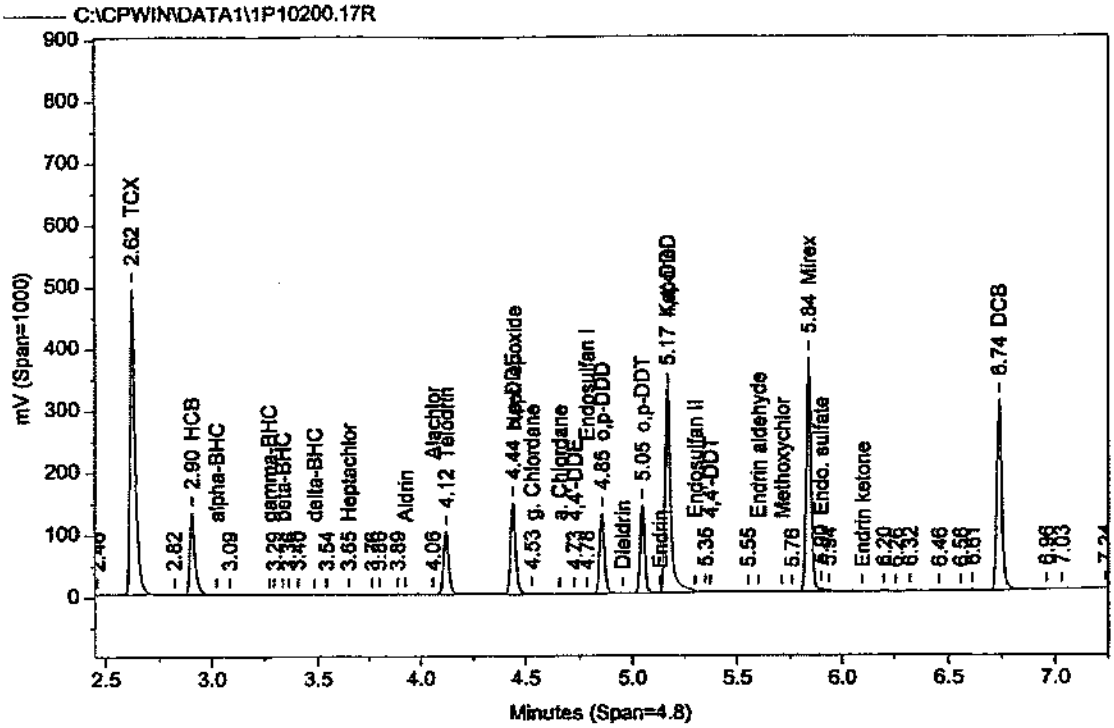
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

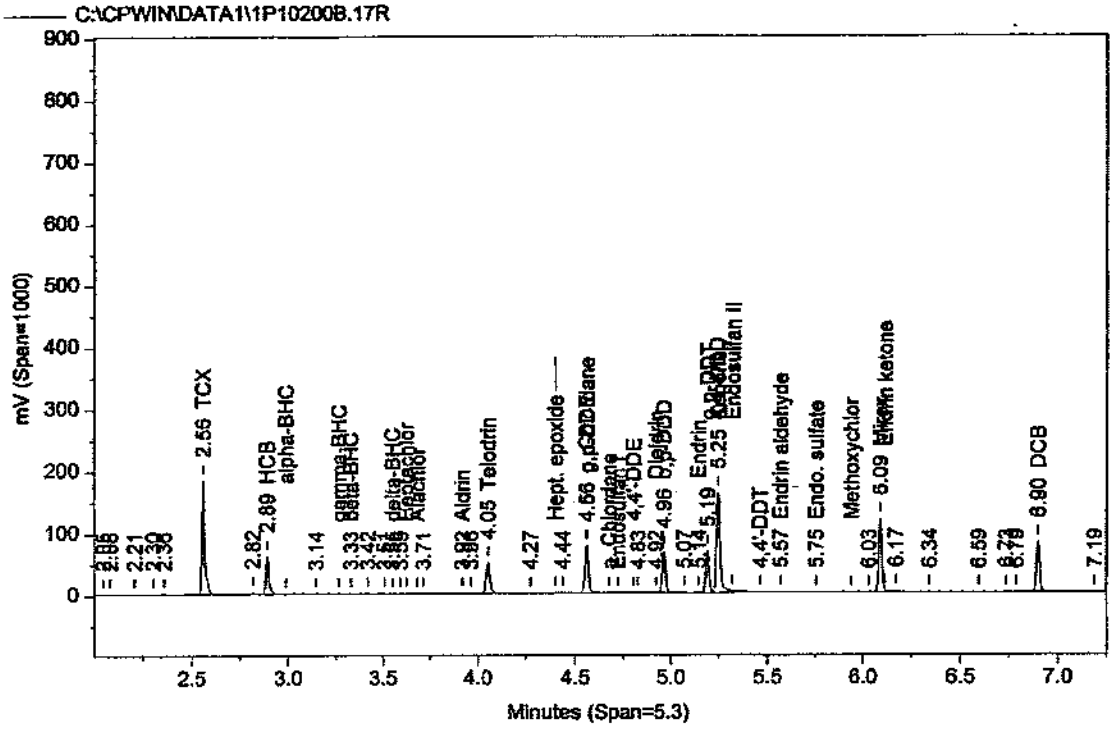
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.623	494118	77.405	TCX	2.56	183274	79.504	TCX
2.903	131468	18.749	HCB	2.891	61551	19.599	HCB
.	0	.	beta-BHC	3.33	56	.029	beta-BHC
.	0	.	delta-BHC	3.55	234	.054	delta-BHC
3.648	763	.112	Heptachlor	.	0	.	Heptachlor
.	0	.	Aldrin	3.917	407	.121	Aldrin
4.118	101567	20.22	Telodrin	4.052	50478	19.911	Telodrin
4.057	635	.	Alachlor	.	0	.	Alachlor
4.439	147714	39.653	o,p-DDE	4.559	77913	39.76	o,p-DDE
4.53	2590	.399	g. Chlordane	.	0	.	g. Chlordane
4.726	805	.139	4,4'-DDE	.	0	.	4,4'-DDE
4.783	670	.116	Endosulfan I	.	0	.	Endosulfan I
4.853	128692	39.834	o,p-DDD	4.962	66644	39.203	o,p-DDD
.	0	.	Dieldrin	4.921	275	.087	Dieldrin
5.048	141646	40.561	o,p-DDT	5.19	68076	37.812	o,p-DDT
.	0	.	Endrin	5.143	1023	.399	Endrin
5.167	328636	220.798	Kepone	5.246	160901	218.478	Kepone
.	0	.	Endrin aldehyde	5.568	177	.101	Endrin aldehyde
5.898	5116	1.244	Endo. sulfate	5.753	104	.06	Endo. sulfate
5.837	377873	105.347	Mirex	6.092	119705	98.426	Mirex
6.735	309580	80.576	DCB	6.9	81326	81.958	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.17A
Area File: C:\CPWIN\DATA1\1P10200B.17A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:52:10 PM
File Reported On: 7/19/2011 at 2:52:21 PM

10X REPLOTS


C:\CPWIN\DATA1\1P10200.17R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.90 HCB
alpha-BHC
gamma-BHC
Beta-BHC
delta-BHC
Heptachlor
Aldrin
Alachlor
Telodrin
g. Chlordane
4,4'-DDE
Endosulfan I
o,p-DDD
Dieldrin
5.05 o,p-DDT
Endrin
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
5.84 Mirex
Endo. sulfate
Endrin ketone
6.74 DCB


C:\CPWIN\DATA1\1P10200B.17R
mV (Span=1000)
Minutes (Span=5.3)
2.55 TCX
2.89 HCB
alpha-BHC
Aldrin
4.05 Telodrin
4.27
Hept. epoxide
4.56
4.96
Endrin
Endosulfan II
4.4'-DDT
5.57 Endrin aldehyde
5.75 Endo. sulfate
Methoxychlor
6.17
6.34
6.59
8.90 DCB
7.19

Sample Name: **TOXA11124B AATOXA1AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 01:11:21pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.18R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.784		0.0000	0.000	308.5	0.058	BV	0.021	244.89	0.108
2	1.810		0.0000	0.000	836.2	0.158	VV	0.033	428.14	0.188
3	1.867		0.0000	0.000	606.2	0.115	VV	0.035	287.83	0.126
4	1.960		0.0000	0.000	1048.7	0.199	VV	0.046	377.94	0.166
5	1.994		0.0000	0.000	2747.8	0.520	VB	0.106	433.73	0.191
6	2.144		0.0000	0.000	1508.9	0.286	BV	0.079	317.85	0.140
7	2.227		0.0000	0.000	395.7	0.075	VV	0.040	165.86	0.073
8	2.261		0.0000	0.000	2595.7	0.491	VB	0.028	1537.10	0.675
9	2.389		0.0000	0.000	37.1	0.007	BB	0.011	58.69	0.026
10	2.485		0.0000	0.000	146.7	0.028	BB	0.032	76.93	0.034
11	2.515		0.0000	0.000	86.1	0.016	BB	0.021	67.80	0.030
12	2.596		0.0000	0.000	30.2	0.006	BB	0.013	38.42	0.017
13	2.636	TCX	0.0093	0.031	178.7	0.034	BB	0.050	59.06	0.026
14	2.818		0.0000	0.000	569.4	0.108	BB	0.036	261.65	0.115
15	3.067		0.0000	0.000	731.9	0.139	BV	0.046	263.35	0.116
16	3.184		0.0000	0.000	1637.5	0.310	VV	0.138	198.32	0.087
17	3.243		0.0000	0.000	1189.7	0.225	VB	0.030	668.13	0.293
18	3.344	beta-BHC	0.0264	0.089	148.0	0.028	BB	0.026	95.79	0.042
19	3.584		0.0000	0.000	921.9	0.175	BB	0.032	478.35	0.210
20	3.767		0.0000	0.000	535.5	0.101	BV	0.050	177.05	0.078
21	3.787		0.0000	0.000	629.1	0.119	VV	0.035	303.86	0.133
22	3.868		0.0000	0.000	868.2	0.164	VB	0.035	416.54	0.183
23	4.021		0.0000	0.000	552.4	0.105	BV	0.032	292.08	0.128
24	4.087	Alachlor	0.0000	0.000	1069.0	0.202	VV	0.049	362.59	0.159
25	4.233		0.0000	0.000	674.5	0.128	VB	0.033	340.55	0.150
26	4.299		0.0000	0.000	714.9	0.135	BV	0.028	426.53	0.187
27	4.338		0.0000	0.000	1592.3	0.301	VV	0.028	942.65	0.414
28	4.375		0.0000	0.000	3912.6	0.741	VV	0.051	1280.64	0.562
29	4.462	Hept. epoxide	0.3096	1.038	3662.1	0.693	VV	0.031	1937.90	0.851
30	4.537	g. Chlordane	0.0421	0.141	574.5	0.109	VV	0.035	273.48	0.120
31	4.597		0.0000	0.000	923.6	0.175	VV	0.040	384.79	0.169
32	4.658	a. Chlordane	0.2393	0.803	4964.2	0.940	VV	0.056	1484.35	0.652
33	4.778	Endosulfan I	0.1629	0.546	2460.9	0.466	VV	0.044	939.32	0.413
34	4.820		0.0000	0.000	1292.9	0.245	VV	0.029	735.55	0.323
35	4.885		0.0000	0.000	1494.4	0.283	VV	0.031	803.74	0.353
36	4.928		0.0000	0.000	5720.5	1.083	VV	0.031	3044.07	1.337
37	4.961	Dieldrin	0.5187	1.739	5531.7	1.047	VV	0.028	3255.77	1.430
38	5.030	o,p-DDT	1.4331	4.806	10205.1	1.932	VV	0.034	5004.53	2.198
39	5.098		0.0000	0.000	19959.3	3.778	VV	0.043	7680.26	3.373
40	5.162	Kepone	4.6684	15.655	21905.9	4.147	VV	0.053	6948.42	3.052
41	5.225		0.0000	0.000	7483.7	1.417	VV	0.030	4145.27	1.821
42	5.288	Endosulfan II	1.5038	5.043	14383.2	2.723	VV	0.042	5703.33	2.505
43	5.343		0.0000	0.000	24313.5	4.602	VV	0.035	11637.25	5.111
44	5.383	4,4'-DDT	2.7741	9.303	22188.3	4.200	VV	0.032	11655.64	5.120
45	5.535		0.0000	0.000	47478.4	8.987	VV	0.058	13681.39	6.009
46	5.582	Endrin aldehyde	3.3699	11.300	30319.5	5.739	VV	0.037	13778.83	6.052
47	5.624		0.0000	0.000	9208.8	1.743	VV	0.031	4875.55	2.141
48	5.671		0.0000	0.000	16348.4	3.095	VV	0.028	9868.14	4.334
49	5.696	Methoxychlor	5.3367	17.896	18892.7	3.576	VV	0.028	11075.12	4.865
50	5.741		0.0000	0.000	10818.2	2.048	VV	0.025	7075.60	3.108
51	5.775		0.0000	0.000	23630.0	4.473	VV	0.035	11180.88	4.911
52	5.838	Mirex	4.2512	14.256	30487.4	5.771	VV	0.033	15248.92	6.698
53	5.882	Endo. sulfate	3.4464	11.557	45088.5	8.535	VV	0.053	14176.76	6.227
54	5.950		0.0000	0.000	8993.2	1.702	VV	0.026	5861.94	2.575
55	5.992		0.0000	0.000	15070.5	2.853	VV	0.034	7400.52	3.251
56	6.029		0.0000	0.000	6792.2	1.286	VV	0.027	4246.67	1.865
57	6.082	Endrin ketone	1.5439	5.177	18127.1	3.431	VV	0.036	8425.38	3.701
58	6.146		0.0000	0.000	7824.9	1.481	VV	0.033	3902.32	1.714
59	6.180		0.0000	0.000	10069.2	1.906	VV	0.027	6120.33	2.688
60	6.222		0.0000	0.000	3487.7	0.660	VV	0.022	2589.35	1.137
61	6.241		0.0000	0.000	3452.8	0.654	VV	0.022	2673.51	1.174
62	6.265		0.0000	0.000	3420.9	0.648	VB	0.021	2749.85	1.208
63	6.309		0.0000	0.000	631.2	0.119	BV	0.026	411.99	0.181
64	6.341		0.0000	0.000	657.0	0.124	VV	0.022	501.08	0.220

USP03 1842

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.393		0.0000	0.000	100.4	0.019	VB	0.017	96.08	0.042
66	6.425		0.0000	0.000	548.5	0.104	BB	0.021	431.42	0.189
67	6.463		0.0000	0.000	710.4	0.134	BB	0.023	521.42	0.229
68	6.523		0.0000	0.000	326.7	0.062	BB	0.027	199.34	0.088
69	6.590		0.0000	0.000	322.3	0.061	BB	0.025	215.27	0.095
70	6.634		0.0000	0.000	736.7	0.139	BB	0.027	449.98	0.198
71	6.737 DCB		0.1853	0.621	1564.0	0.296	BB	0.037	711.97	0.313
72	6.791		0.0000	0.000	129.9	0.025	BB	0.019	111.75	0.049
73	6.860		0.0000	0.000	475.5	0.090	BB	0.048	165.64	0.073
74	7.353		0.0000	0.000	39233.1	7.427	BB	0.243	2687.14	1.180

Total Area = 528282.9, Total Amount = 29.821, Total Height = 227670.1, Sample Units = PPB

Sample Name: **TOXA11124B AATOXA1AA ICAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 01:11:21pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.18R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.937		0.0000	0.000	101.3	0.064	BB	0.026	64.15	0.065
2	2.079		0.0000	0.000	527.3	0.335	BV	0.021	428.63	0.436
3	2.163		0.0000	0.000	76.2	0.048	VB	0.019	66.51	0.068
4	2.256		0.0000	0.000	49.3	0.031	BB	0.029	28.50	0.029
5	2.297		0.0000	0.000	62.7	0.040	BB	0.022	46.95	0.048
6	2.356		0.0000	0.000	114.8	0.073	BB	0.028	69.22	0.070
7	2.427		0.0000	0.000	55.7	0.035	BB	0.023	39.81	0.040
8	2.549	TCX	0.0188	0.079	44.1	0.028	BB	0.017	43.34	0.044
9	2.607		0.0000	0.000	33.6	0.021	BB	0.014	38.86	0.040
10	2.638		0.0000	0.000	168.9	0.107	BB	0.031	91.81	0.093
11	2.725		0.0000	0.000	38.1	0.024	BB	0.016	39.56	0.040
12	2.826		0.0000	0.000	212.6	0.135	BB	0.039	89.80	0.091
13	2.908		0.0000	0.000	85.7	0.054	BB	0.036	39.24	0.040
14	3.120		0.0000	0.000	353.9	0.225	BV	0.070	84.79	0.086
15	3.215		0.0000	0.000	1134.4	0.720	VB	0.032	594.67	0.605
16	3.423		0.0000	0.000	641.2	0.407	BV	0.149	71.75	0.073
17	3.460		0.0000	0.000	154.1	0.098	VV	0.041	62.28	0.063
18	3.513		0.0000	0.000	488.2	0.310	VB	0.024	339.10	0.345
19	3.706		0.0000	0.000	545.7	0.346	BV	0.062	146.59	0.149
20	3.775		0.0000	0.000	696.0	0.442	VB	0.032	362.90	0.369
21	3.960		0.0000	0.000	361.6	0.230	BV	0.029	210.63	0.214
22	3.989		0.0000	0.000	661.8	0.420	VV	0.033	330.51	0.336
23	4.104		0.0000	0.000	328.7	0.209	VV	0.029	190.33	0.194
24	4.199		0.0000	0.000	479.1	0.304	VV	0.041	196.71	0.200
25	4.275		0.0000	0.000	2127.0	1.351	VV	0.035	1008.29	1.025
26	4.347		0.0000	0.000	834.5	0.530	VB	0.028	497.12	0.505
27	4.391	Hept. epoxide	0.0836	0.352	240.8	0.153	BV	0.017	237.75	0.242
28	4.425		0.0000	0.000	1624.3	1.031	VV	0.021	1281.48	1.303
29	4.476		0.0000	0.000	426.7	0.271	VV	0.029	243.50	0.248
30	4.544	o,p-DDE	0.0677	0.285	158.5	0.101	VB	0.020	132.69	0.135
31	4.611		0.0000	0.000	2275.4	1.445	BB	0.033	1147.78	1.167
32	4.701		0.0000	0.000	467.3	0.297	BV	0.026	296.33	0.301
33	4.750		0.0000	0.000	660.6	0.419	VB	0.035	313.54	0.319
34	4.806	4,4'-DDE	0.1611	0.679	961.7	0.611	BB	0.034	466.50	0.474
35	4.877		0.0000	0.000	273.9	0.174	BB	0.017	270.05	0.275
36	4.918	Dieldrin	0.8454	3.562	3844.0	2.441	BV	0.024	2663.02	2.707
37	4.961	o,p-DDD	0.0566	0.239	68.7	0.044	VB	0.012	96.28	0.098
38	5.005		0.0000	0.000	2867.9	1.821	BV	0.023	2059.99	2.094
39	5.051		0.0000	0.000	2628.3	1.669	VV	0.023	1919.20	1.951
40	5.120		0.0000	0.000	7948.9	5.047	VV	0.034	3936.16	4.002
41	5.167	Endrin	0.3475	1.464	1067.9	0.678	VV	0.020	890.87	0.906
42	5.197	o,p-DDT	0.4518	1.904	1031.8	0.655	VV	0.021	813.47	0.827
43	5.245	Kepone	2.1897	9.226	3227.7	2.049	VV	0.033	1612.63	1.640
44	5.280		0.0000	0.000	2717.4	1.725	VV	0.022	2051.90	2.086
45	5.309	Endosulfan II	1.0164	4.283	2650.8	1.683	VB	0.019	2270.66	2.309
46	5.348		0.0000	0.000	1550.9	0.985	BV	0.019	1348.69	1.371
47	5.377		0.0000	0.000	10350.2	6.572	VB	0.022	7996.22	8.130
48	5.432		0.0000	0.000	4366.9	2.773	BB	0.021	3420.05	3.477
49	5.513		0.0000	0.000	4150.6	2.635	BV	0.023	2952.46	3.002
50	5.563	Endrin aldehyde	4.5715	19.262	12002.1	7.621	VV	0.025	8014.10	8.148
51	5.623		0.0000	0.000	9764.3	6.200	VV	0.038	4302.03	4.374
52	5.663		0.0000	0.000	2450.2	1.556	VV	0.026	1559.32	1.585
53	5.716		0.0000	0.000	5315.1	3.375	VV	0.035	2532.90	2.575
54	5.744	Endo. sulfate	2.2775	9.596	4841.5	3.074	VV	0.020	3940.57	4.006
55	5.809		0.0000	0.000	7676.6	4.874	VV	0.039	3284.15	3.339
56	5.832		0.0000	0.000	3737.6	2.373	VV	0.025	2503.39	2.545
57	5.886		0.0000	0.000	3267.7	2.075	VV	0.024	2231.34	2.269
58	5.917		0.0000	0.000	8870.1	5.632	VV	0.026	5606.03	5.700
59	5.956	Methoxychlor	8.8892	37.454	14648.1	9.301	VB	0.039	6290.15	6.395
60	6.049		0.0000	0.000	2177.3	1.382	BV	0.024	1489.11	1.514
61	6.083	Mirex	1.9433	8.188	3213.8	2.041	VV	0.023	2363.47	2.403
62	6.108	Endrin ketone	0.6098	2.569	1531.5	0.972	VV	0.021	1206.26	1.226
63	6.152		0.0000	0.000	2912.6	1.849	VV	0.027	1804.04	1.834
64	6.181		0.0000	0.000	2970.3	1.886	VV	0.021	2375.63	2.415

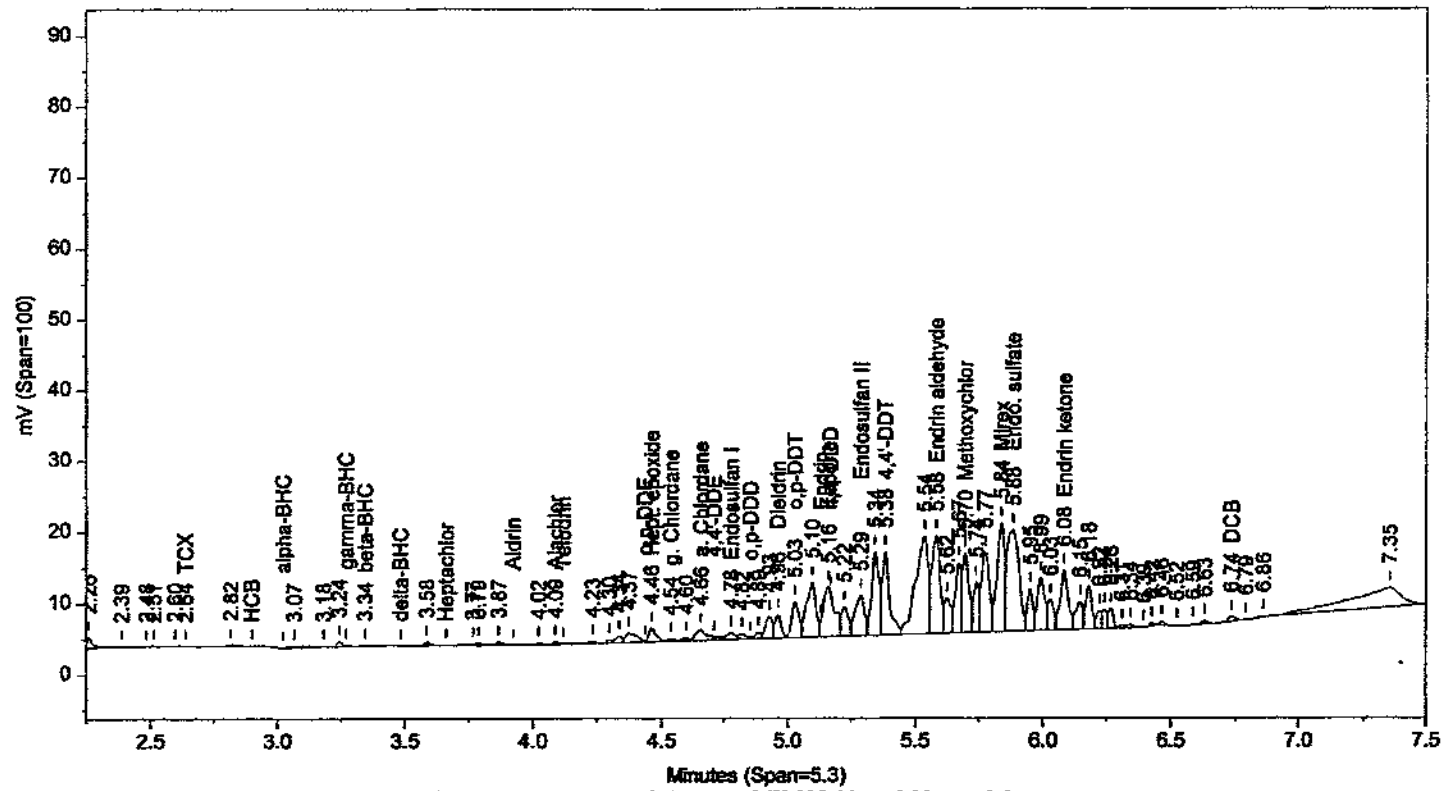
USPB3 1844

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.230		0.0000	0.000	497.5	0.316	VB	0.023	364.72	0.371
66	6.265		0.0000	0.000	695.0	0.441	BB	0.015	764.78	0.778
67	6.303		0.0000	0.000	34.5	0.022	BB	0.002	334.37	0.340
68	6.336		0.0000	0.000	262.5	0.167	BB	0.011	391.85	0.398
69	6.372		0.0000	0.000	753.7	0.479	BV	0.018	717.60	0.730
70	6.389		0.0000	0.000	901.4	0.572	VB	0.018	832.16	0.846
71	6.433		0.0000	0.000	988.9	0.628	BB	0.026	636.47	0.647
72	6.484		0.0000	0.000	244.7	0.155	BB	0.017	233.31	0.237
73	6.529		0.0000	0.000	243.8	0.155	BB	0.029	139.79	0.142
74	6.588		0.0000	0.000	837.4	0.532	BB	0.044	317.76	0.323
75	6.803		0.0000	0.000	273.3	0.174	BB	0.031	147.94	0.150
76	6.873		0.0000	0.000	77.0	0.049	BB	0.021	62.49	0.064
77	6.901	DCB	0.2036	0.858	260.8	0.166	BB	0.022	201.98	0.205
78	6.973		0.0000	0.000	52.9	0.034	BB	0.016	53.83	0.055
79	7.220		0.0000	0.000	51.2	0.033	BB	0.016	54.35	0.055

Total Area = 157491.3, Total Amount = 23.734, Total Height = 98359.15, Sample Units = PPB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.18R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 1:03:51 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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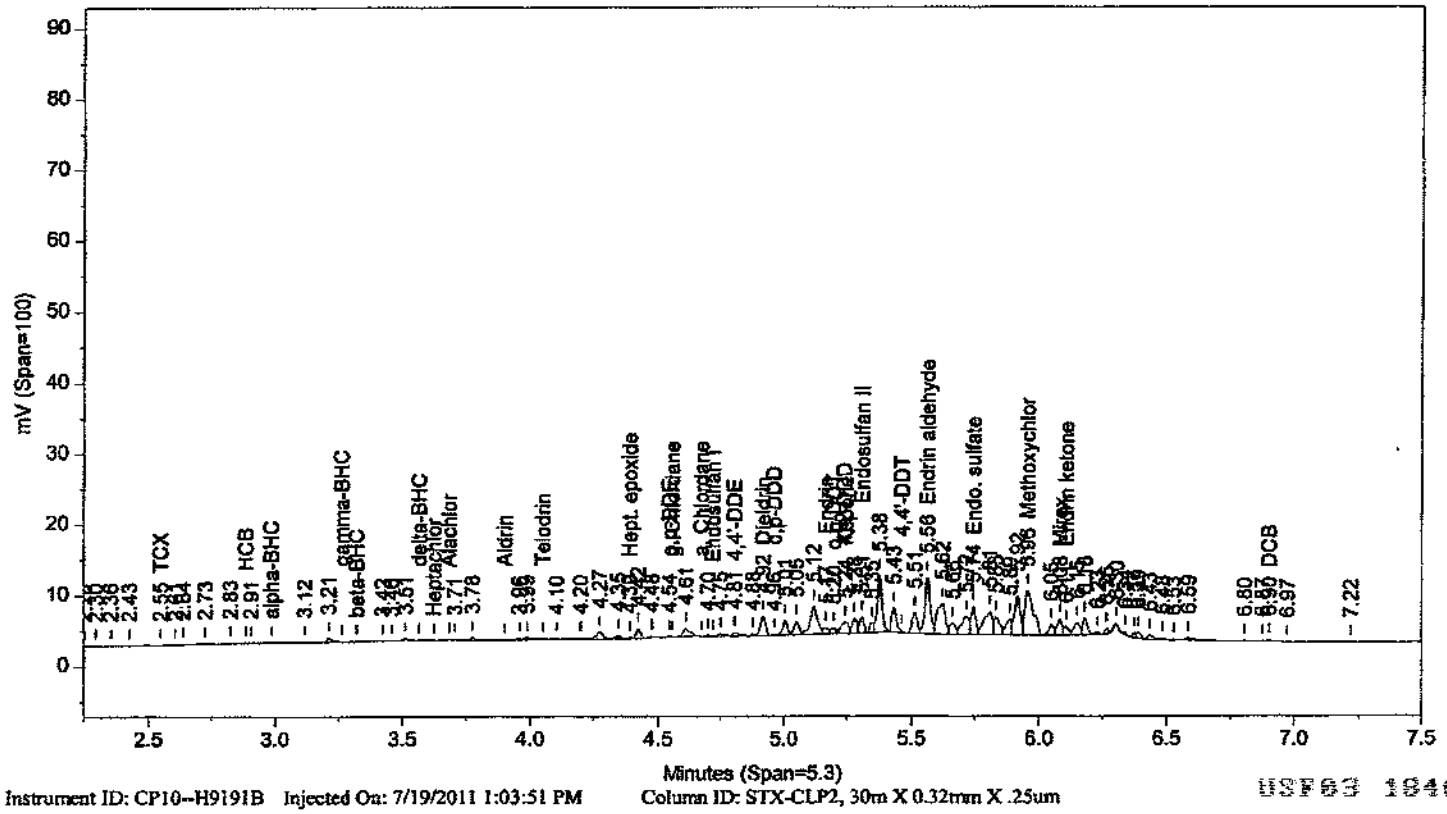


Instrument ID: CP10--H9191B Injected On: 7/19/2011 1:03:51 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF03 1846

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

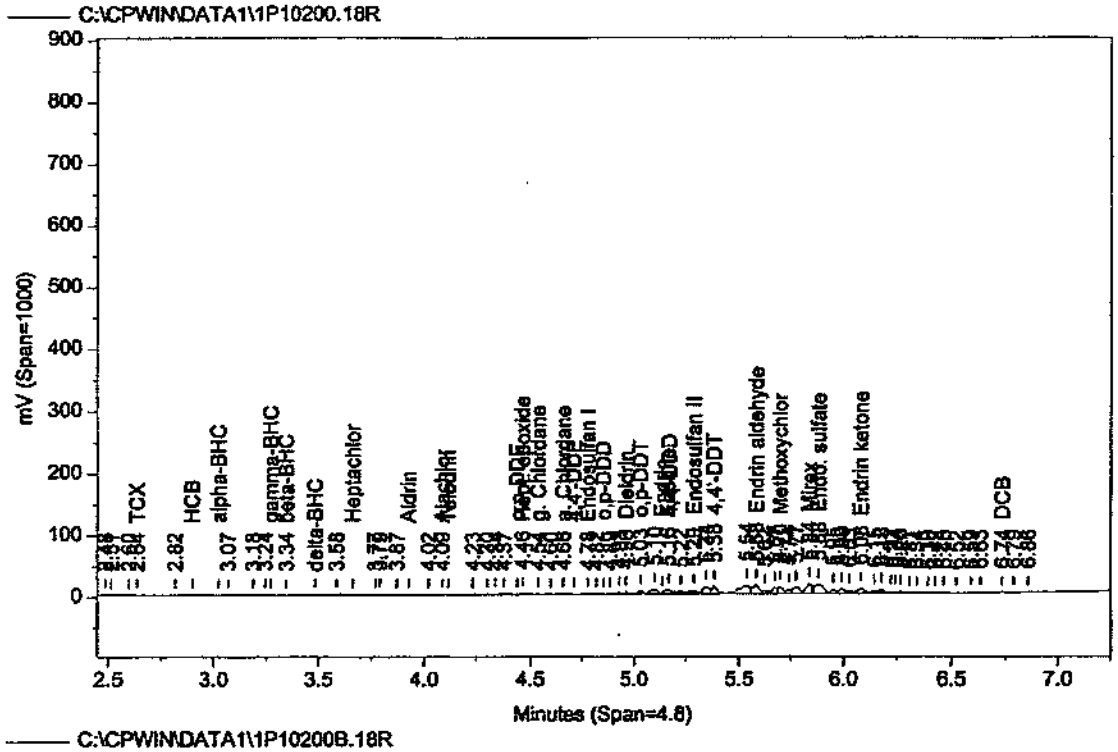
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.636	59	.009	TCX	2.549	43	.019	TCX
3.344	96	.026	beta-BHC	.	0	.	beta-BHC
4.087	363	.	Alachlor	.	0	.	Alachlor
4.462	1938	.31	Hept. epoxide	4.391	238	.084	Hept. epoxide
4.537	273	.042	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.544	133	.068	o,p-DDE
4.658	1484	.239	a. Chlordane	.	0	.	a. Chlordane
4.778	939	.163	Endosulfan I	.	0	.	Endosulfan I
.	0	.	4,4'-DDE	4.806	467	.161	4,4'-DDE
4.961	3256	.519	Dieldrin	4.918	2663	.845	Dieldrin
.	0	.	o,p-DDD	4.961	96	.057	o,p-DDD
5.03	5005	1.433	o,p-DDT	5.197	813	.452	o,p-DDT
5.162	6948	4.668	Kepone	5.245	1613	2.19	Kepone
.	0	.	Endrin	5.167	891	.348	Endrin
5.288	5703	1.504	Endosulfan II	5.309	2271	1.016	Endosulfan II
5.383	11656	2.774	4,4'-DDT	.	0	.	4,4'-DDT
5.582	13779	3.37	Endrin aldehyde	5.563	8014	4.572	Endrin aldehyde
5.696	11075	5.337	Methoxychlor	5.956	6290	8.889	Methoxychlor
5.882	14177	3.446	Endo. sulfate	5.744	3941	2.277	Endo. sulfate
5.838	15249	4.251	Mirex	6.083	2363	1.943	Mirex
6.082	8425	1.544	Endrin ketone	6.108	1206	.61	Endrin ketone
6.737	712	.185	DCB	6.901	202	.204	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.18A
Area File: C:\CPWIN\DATA1\1P10200B.18A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:52:36 PM
File Reported On: 7/19/2011 at 2:52:48 PM

10X REPLOTS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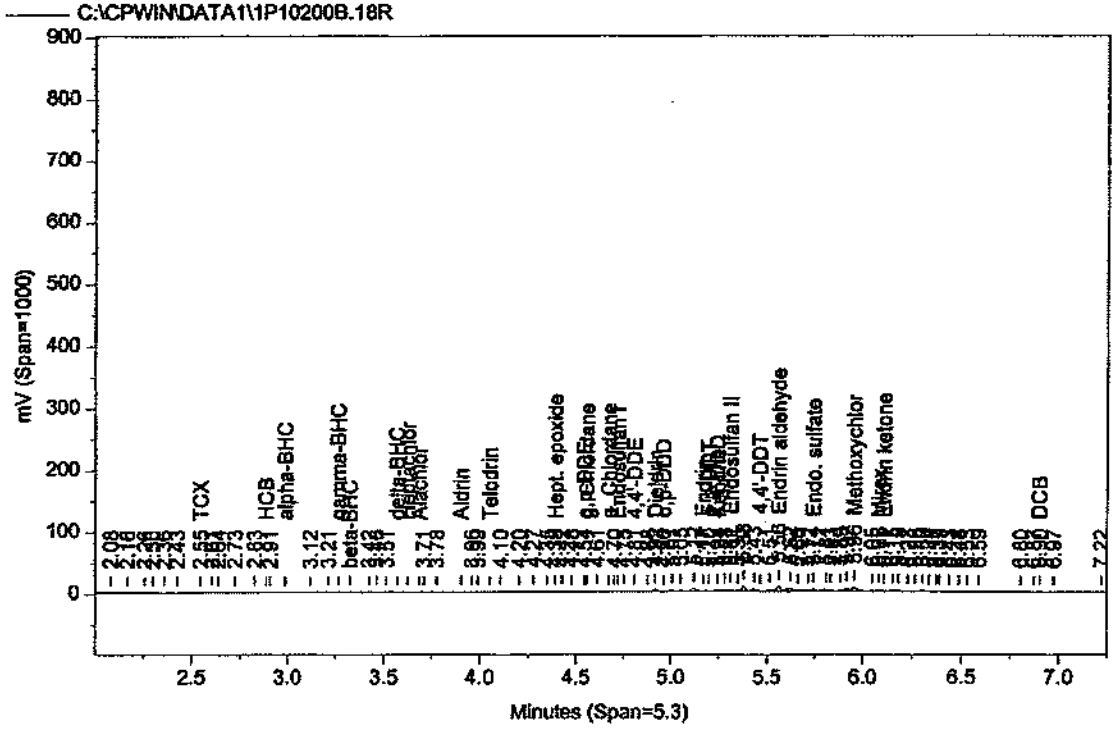
mV (Span=1000)
Minutes (Span=4.8)
TCX
HCB
alpha-BHC
gamma-BHC
beta-BHC
delta-BHC
Heptachlor
Aldrin
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endrin ketone
DCB


C:\CPWINDATA1\1P10200B.18R
mV (Span=1000)
Minutes (Span=5.3)
TCX
HCB
alpha-BHC
gamma-BHC
Aldrin
Telodrin
Hept. epoxide
4,4'-DDE
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
DCB

Sample Name: **TOXA21124B AATOXA2AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 01:33:48pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.19R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.040		0.0000	0.000	84.2	0.008	BB	0.031	44.90	0.009
2	1.781		0.0000	0.000	431.3	0.040	BV	0.025	284.63	0.059
3	1.807		0.0000	0.000	706.5	0.065	VV	0.026	460.58	0.095
4	1.871		0.0000	0.000	1134.0	0.105	VV	0.055	341.76	0.070
5	1.931		0.0000	0.000	1141.4	0.105	VV	0.052	364.99	0.075
6	1.982		0.0000	0.000	1630.0	0.150	VV	0.064	422.13	0.087
7	2.056		0.0000	0.000	832.3	0.077	VB	0.034	410.82	0.085
8	2.135		0.0000	0.000	1421.0	0.131	BB	0.071	333.72	0.069
9	2.260		0.0000	0.000	2192.1	0.202	BB	0.025	1473.56	0.303
10	2.490		0.0000	0.000	346.6	0.032	BB	0.067	86.24	0.018
11	2.753		0.0000	0.000	696.7	0.064	BV	0.062	186.85	0.038
12	2.818		0.0000	0.000	2626.6	0.242	VB	0.103	426.44	0.088
13	3.054		0.0000	0.000	195.7	0.018	BV	0.030	108.97	0.022
14	3.119		0.0000	0.000	73.3	0.007	VB	0.021	57.76	0.012
15	3.243		0.0000	0.000	1913.4	0.176	BV	0.026	1227.52	0.253
16	3.341	beta-BHC	0.0601	0.111	619.9	0.057	VB	0.047	218.02	0.045
17	3.444		0.0000	0.000	73.0	0.007	BB	0.023	52.54	0.011
18	3.586		0.0000	0.000	1725.6	0.159	BV	0.031	920.55	0.189
19	3.652	Heptachlor	0.0155	0.029	211.0	0.019	VV	0.033	105.80	0.022
20	3.736		0.0000	0.000	1015.5	0.094	VV	0.052	328.15	0.068
21	3.788		0.0000	0.000	1399.8	0.129	VV	0.045	517.34	0.106
22	3.870		0.0000	0.000	1658.3	0.153	VV	0.035	798.59	0.164
23	3.967		0.0000	0.000	214.2	0.020	VB	0.024	148.05	0.030
24	4.024		0.0000	0.000	926.2	0.085	BV	0.031	492.05	0.101
25	4.086	Alachlor	0.0000	0.000	1462.0	0.135	VV	0.033	748.20	0.154
26	4.190		0.0000	0.000	164.1	0.015	VV	0.021	130.34	0.027
27	4.234		0.0000	0.000	1400.6	0.129	VB	0.036	647.13	0.133
28	4.299		0.0000	0.000	1425.4	0.131	BV	0.027	889.91	0.183
29	4.337		0.0000	0.000	3592.7	0.331	VV	0.031	1949.74	0.401
30	4.376		0.0000	0.000	8564.3	0.790	VV	0.052	2725.58	0.561
31	4.461	Hept. epoxide	0.6415	1.180	8021.2	0.740	VV	0.033	4015.43	0.826
32	4.536	g. Chlordane	0.1036	0.191	1495.8	0.138	VV	0.037	672.67	0.138
33	4.601		0.0000	0.000	2976.9	0.275	VV	0.047	1046.06	0.215
34	4.658	a. Chlordane	0.5421	0.998	11021.9	1.016	VV	0.055	3362.11	0.692
35	4.776	Endosulfan I	0.3951	0.727	7300.4	0.673	VV	0.053	2278.82	0.469
36	4.821		0.0000	0.000	3987.1	0.368	VV	0.037	1785.06	0.367
37	4.884		0.0000	0.000	3979.6	0.367	VV	0.034	1923.94	0.396
38	4.927		0.0000	0.000	12742.2	1.175	VV	0.032	6535.54	1.345
39	4.960	Dieldrin	1.1282	2.076	12257.4	1.130	VV	0.029	7081.81	1.457
40	5.028	o,p-DDT	3.1162	5.734	22189.3	2.046	VV	0.034	10882.46	2.240
41	5.096		0.0000	0.000	44401.1	4.095	VV	0.045	16441.60	3.384
42	5.155	Kepone	8.4442	15.539	32446.0	2.992	VV	0.043	12568.30	2.587
43	5.198		0.0000	0.000	7855.7	0.724	VV	0.019	6825.53	1.405
44	5.224		0.0000	0.000	17477.7	1.612	VV	0.032	8967.45	1.846
45	5.286	Endosulfan II	3.1641	5.822	30062.7	2.772	VV	0.042	12000.04	2.470
46	5.342		0.0000	0.000	50658.9	4.672	VV	0.035	24459.51	5.034
47	5.381	4,4'-DDT	5.7772	10.631	49589.9	4.573	VV	0.034	24273.36	4.996
48	5.533		0.0000	0.000	105176.0	9.699	VV	0.060	29446.18	6.060
49	5.581	Endrin aldehyde	7.3883	13.596	63882.5	5.891	VV	0.035	30209.20	6.217
50	5.622		0.0000	0.000	20966.6	1.934	VV	0.032	11000.77	2.264
51	5.670		0.0000	0.000	34743.2	3.204	VV	0.027	21534.92	4.432
52	5.695	Methoxychlor	11.2912	20.777	41639.1	3.840	VV	0.030	23432.29	4.822
53	5.740		0.0000	0.000	23396.4	2.158	VV	0.025	15463.68	3.182
54	5.774		0.0000	0.000	53508.8	4.935	VV	0.037	23932.24	4.925
55	5.836	Mirex	8.9235	16.421	66771.7	6.158	VV	0.035	32007.99	6.587
56	5.880		0.0000	0.000	93981.4	8.667	VV	0.052	30269.17	6.230
57	5.949		0.0000	0.000	21035.4	1.940	VV	0.027	12948.25	2.665
58	5.991		0.0000	0.000	31901.4	2.942	VV	0.033	16232.09	3.341
59	6.027		0.0000	0.000	15823.6	1.459	VV	0.028	9481.28	1.951
60	6.080	Endrin ketone	3.3526	6.169	39828.2	3.673	VV	0.036	18295.43	3.765
61	6.144		0.0000	0.000	18731.3	1.727	VV	0.036	8643.60	1.779
62	6.178		0.0000	0.000	22114.1	2.039	VV	0.028	13253.20	2.728
63	6.221		0.0000	0.000	8036.5	0.741	VV	0.023	5787.56	1.191
64	6.239		0.0000	0.000	6701.5	0.618	VV	0.019	5953.09	1.225

USP93 1949

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.263		0.0000	0.000	8603.2	0.793	VV	0.024	6032.00	1.241
66	6.308		0.0000	0.000	1922.9	0.177	VV	0.027	1198.20	0.247
67	6.339		0.0000	0.000	1841.3	0.170	VV	0.026	1170.79	0.241
68	6.389		0.0000	0.000	210.7	0.019	VB	0.019	185.82	0.038
69	6.424		0.0000	0.000	1089.9	0.101	BB	0.022	843.14	0.174
70	6.461		0.0000	0.000	1474.5	0.136	BB	0.023	1068.14	0.220
71	6.520		0.0000	0.000	545.7	0.050	BB	0.021	425.05	0.087
72	6.589		0.0000	0.000	661.3	0.061	BB	0.022	499.06	0.103
73	6.631		0.0000	0.000	1433.1	0.132	BB	0.026	925.09	0.190
74	6.752		0.0000	0.000	871.3	0.080	BB	0.040	364.38	0.075
75	6.789		0.0000	0.000	313.6	0.029	BB	0.023	230.64	0.047
76	6.844		0.0000	0.000	730.3	0.067	BB	0.028	437.49	0.090
77	7.351		0.0000	0.000	38074.7	3.511	BB	0.244	2605.39	0.536

Total Area = 1084352.0, Total Amount = 54.344, Total Height = 485898.7, Sample Units = PPB

USF03 1958

Sample Name: **TOXA21124B AATOXA2AA ICAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 01:33:48pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.19R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.933		0.0000	0.000	127.2	0.041	BV	0.018	118.13	0.059
2	1.981		0.0000	0.000	479.4	0.155	VV	0.066	121.30	0.061
3	2.078		0.0000	0.000	543.9	0.176	VV	0.019	486.33	0.243
4	2.166		0.0000	0.000	98.1	0.032	VB	0.029	57.36	0.029
5	2.244		0.0000	0.000	55.2	0.018	BB	0.022	42.11	0.021
6	2.435		0.0000	0.000	276.9	0.090	BB	0.114	40.56	0.020
7	2.537		0.0000	0.000	29.7	0.010	BB	0.013	39.43	0.020
8	2.766		0.0000	0.000	617.4	0.200	BB	0.124	82.76	0.041
9	2.877	HCB	0.0093	0.021	336.2	0.109	BB	0.192	29.21	0.015
10	3.150		0.0000	0.000	182.1	0.059	BV	0.045	67.10	0.034
11	3.214		0.0000	0.000	1754.8	0.568	VB	0.027	1090.38	0.545
12	3.448		0.0000	0.000	1455.0	0.471	BV	0.131	184.66	0.092
13	3.514		0.0000	0.000	1549.1	0.501	VV	0.036	713.91	0.357
14	3.598		0.0000	0.000	492.5	0.159	VV	0.041	198.19	0.099
15	3.690	Alachlor	0.0000	0.000	1022.5	0.331	VV	0.049	346.08	0.173
16	3.774		0.0000	0.000	1610.9	0.521	VV	0.037	728.62	0.364
17	3.856		0.0000	0.000	297.3	0.096	VV	0.036	135.83	0.068
18	3.911	Aldrin	0.0233	0.053	99.7	0.032	VV	0.021	78.40	0.039
19	3.954		0.0000	0.000	658.0	0.213	VV	0.033	334.77	0.167
20	3.990		0.0000	0.000	1491.9	0.483	VV	0.039	637.69	0.319
21	4.106		0.0000	0.000	593.2	0.192	VV	0.027	364.59	0.182
22	4.139		0.0000	0.000	268.1	0.087	VV	0.022	203.15	0.102
23	4.199		0.0000	0.000	911.7	0.295	VV	0.044	348.31	0.174
24	4.274		0.0000	0.000	4218.0	1.365	VV	0.036	1978.39	0.989
25	4.348		0.0000	0.000	1775.5	0.574	VB	0.031	948.23	0.474
26	4.391	Hept. epoxide	0.1723	0.393	517.8	0.168	BV	0.018	490.41	0.245
27	4.424		0.0000	0.000	3187.9	1.031	VV	0.021	2473.81	1.237
28	4.476		0.0000	0.000	847.4	0.274	VV	0.028	496.04	0.248
29	4.543	o,p-DDE	0.1387	0.316	310.9	0.101	VV	0.019	271.83	0.136
30	4.574		0.0000	0.000	161.1	0.052	VV	0.016	169.40	0.085
31	4.610		0.0000	0.000	4224.1	1.367	VB	0.032	2172.90	1.086
32	4.700		0.0000	0.000	934.5	0.302	BV	0.028	555.15	0.278
33	4.748		0.0000	0.000	1285.6	0.416	VB	0.034	622.76	0.311
34	4.806	4,4'-DDE	0.2878	0.657	1741.1	0.563	BB	0.035	833.20	0.417
35	4.875		0.0000	0.000	501.1	0.162	BB	0.018	474.88	0.237
36	4.917	Dieldrin	1.6269	3.712	7418.7	2.400	BV	0.024	5124.53	2.562
37	4.958	o,p-DDD	0.1048	0.239	155.0	0.050	VB	0.015	178.09	0.089
38	5.004		0.0000	0.000	5658.6	1.831	BV	0.023	4057.12	2.028
39	5.050		0.0000	0.000	5313.6	1.719	VV	0.023	3774.68	1.887
40	5.119		0.0000	0.000	15146.6	4.900	VV	0.032	7973.10	3.986
41	5.165	Endrin	0.7053	1.609	2263.4	0.732	VV	0.021	1807.96	0.904
42	5.196	o,p-DDT	0.9109	2.078	2266.4	0.733	VV	0.023	1640.02	0.820
43	5.234	4,4'-DDD	0.9638	2.199	4526.8	1.464	VV	0.035	2151.91	1.076
44	5.279		0.0000	0.000	5588.4	1.808	VV	0.023	4063.42	2.031
45	5.307	Endosulfan II	1.9926	4.546	5059.5	1.637	VB	0.019	4451.24	2.225
46	5.346		0.0000	0.000	2854.9	0.924	BV	0.018	2670.27	1.335
47	5.375		0.0000	0.000	20929.5	6.771	VB	0.022	16168.88	8.083
48	5.430		0.0000	0.000	8680.7	2.808	BB	0.021	6778.93	3.389
49	5.511		0.0000	0.000	8387.8	2.714	BV	0.024	5897.35	2.948
50	5.561	Endrin aldehyde	9.3361	21.299	23830.0	7.709	VV	0.024	16366.60	8.182
51	5.608		0.0000	0.000	7948.1	2.571	VV	0.018	7547.29	3.773
52	5.621		0.0000	0.000	11780.2	3.811	VV	0.022	8809.66	4.404
53	5.661		0.0000	0.000	5326.8	1.723	VV	0.028	3126.21	1.563
54	5.714		0.0000	0.000	10779.1	3.487	VV	0.036	5042.66	2.521
55	5.743	Endo. sulfate	4.5467	10.373	9323.7	3.016	VV	0.020	7866.89	3.933
56	5.807		0.0000	0.000	14730.1	4.765	VV	0.037	6546.86	3.273
57	5.830		0.0000	0.000	7913.1	2.560	VV	0.027	4966.75	2.483
58	5.884		0.0000	0.000	6619.6	2.142	VV	0.025	4416.45	2.208
59	5.916		0.0000	0.000	16850.6	5.451	VV	0.025	11040.09	5.519
60	5.954	Methoxychlor	18.1369	41.377	29445.9	9.526	VB	0.038	12833.92	6.416
61	6.047		0.0000	0.000	4017.5	1.300	BV	0.023	2906.86	1.453
62	6.082	Mirex	3.7258	8.500	6494.4	2.101	VV	0.024	4531.30	2.265
63	6.106	Endrin ketone	1.1519	2.628	2647.5	0.856	VV	0.019	2278.70	1.139
64	6.150		0.0000	0.000	5573.5	1.803	VV	0.027	3496.83	1.748

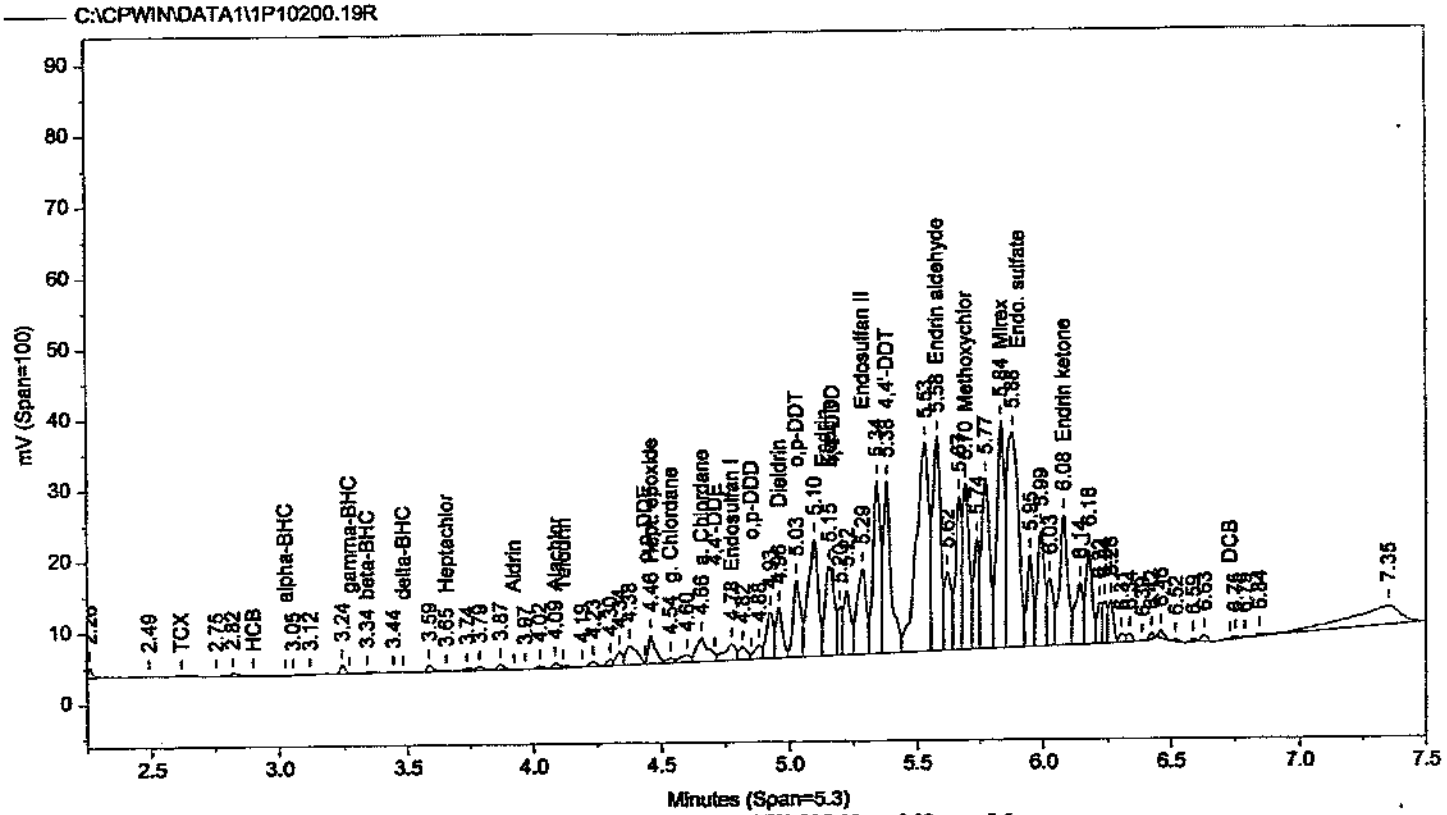
USPS3 1851

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.179		0.0000	0.000	6006.8	1.943	VV	0.022	4627.04	2.313
66	6.227		0.0000	0.000	1012.6	0.328	VB	0.023	732.09	0.366
67	6.263		0.0000	0.000	1290.6	0.418	BB	0.015	1399.72	0.700
69	6.333		0.0000	0.000	494.5	0.160	BB	0.012	682.43	0.341
70	6.371		0.0000	0.000	1350.1	0.437	BV	0.016	1363.74	0.682
71	6.386		0.0000	0.000	1795.2	0.581	VB	0.019	1564.90	0.782
72	6.432		0.0000	0.000	1896.0	0.613	BB	0.026	1202.58	0.601
73	6.483		0.0000	0.000	447.0	0.145	BB	0.016	477.00	0.238
74	6.526		0.0000	0.000	109.0	0.035	BB	0.018	101.58	0.051
75	6.586		0.0000	0.000	1425.3	0.461	BB	0.040	599.30	0.300
76	6.739		0.0000	0.000	104.6	0.034	BB	0.019	92.97	0.046
77	6.798		0.0000	0.000	384.5	0.124	BB	0.025	251.54	0.126
78	6.872		0.0000	0.000	272.8	0.088	BB	0.027	165.45	0.083
79	6.929		0.0000	0.000	134.8	0.044	BB	0.012	182.60	0.091
80	6.973		0.0000	0.000	97.3	0.031	BB	0.022	73.75	0.037
81	7.032		0.0000	0.000	99.6	0.032	BB	0.026	64.44	0.032

Total Area = 309107.0, Total Amount = 43.833, Total Height = 200031.6, Sample Units = PPB

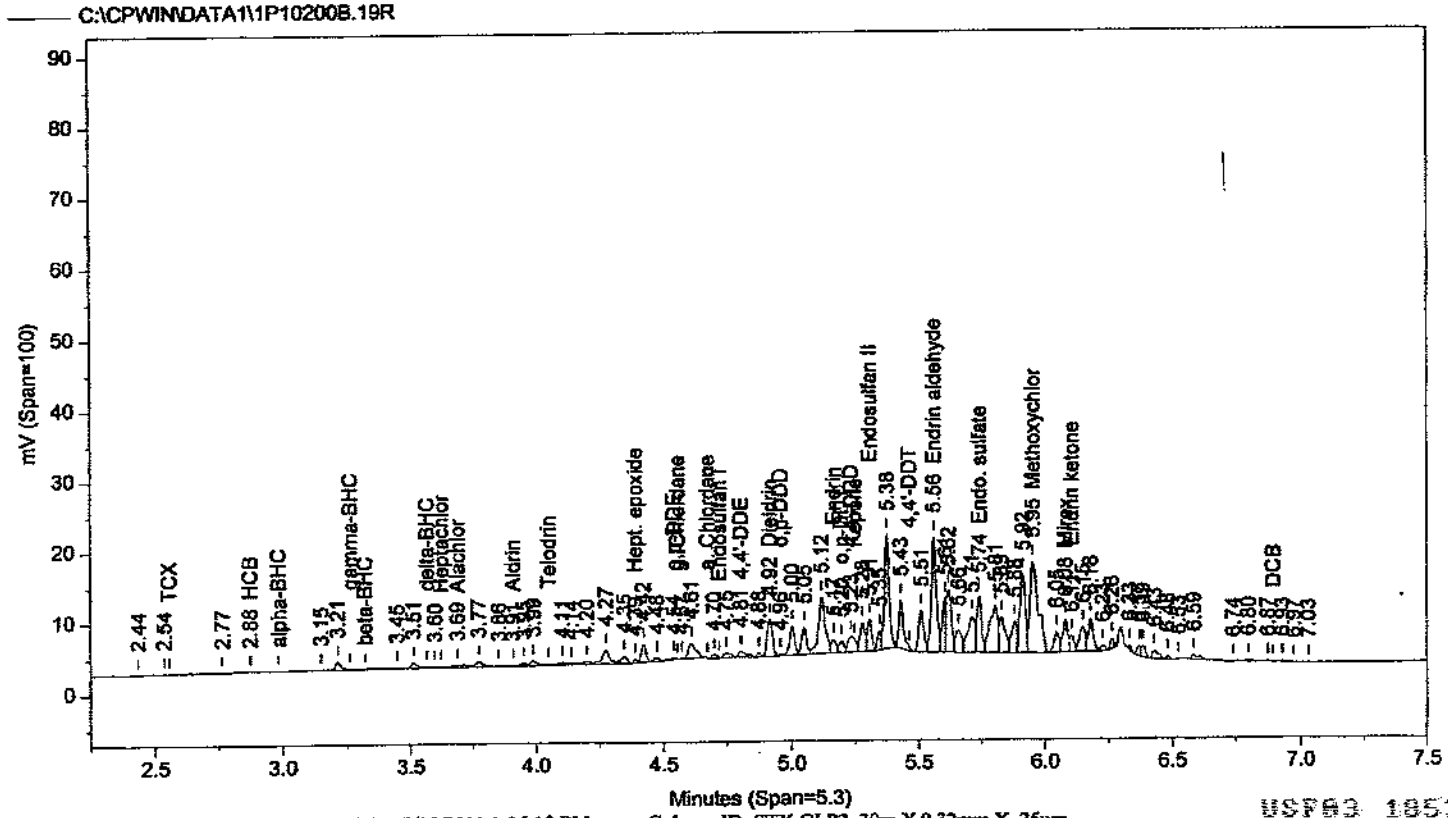
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.19R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 1:26:18 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.19R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 1:26:18 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USPB3 1853

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

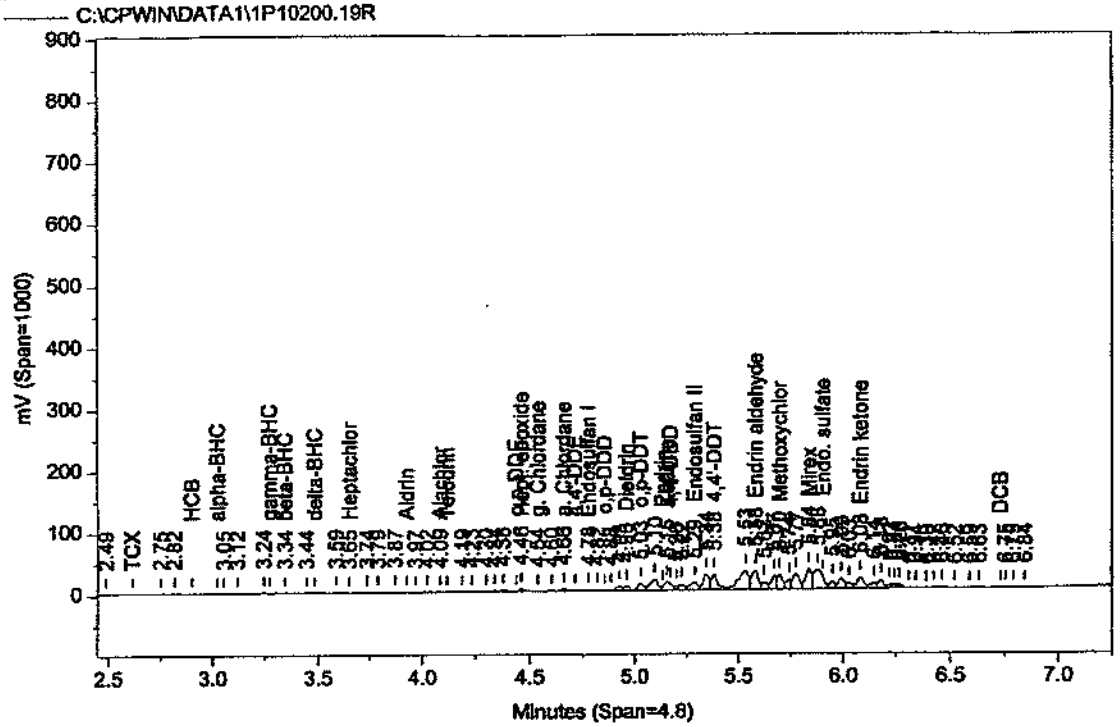
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
.	0	.	HCB	2.877	29	.009	HCB
3.341	218	.06	beta-BHC	.	0	.	beta-BHC
3.652	106	.016	Heptachlor	.	0	.	Heptachlor
4.086	748	.	Alachlor	3.69	346	.	Alachlor
.	0	.	Aldrin	3.911	78	.023	Aldrin
4.461	4015	.641	Hept. epoxide	4.391	490	.172	Hept. epoxide
4.536	673	.104	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.543	272	.139	o,p-DDE
4.658	3362	.542	a. Chlordane	.	0	.	a. Chlordane
4.776	2279	.395	Endosulfan I	.	0	.	Endosulfan I
.	0	.	4,4'-DDE	4.806	833	.288	4,4'-DDE
4.96	7082	1.128	Dieldrin	4.917	5125	1.627	Dieldrin
.	0	.	o,p-DDD	4.958	178	.105	o,p-DDD
5.028	10882	3.116	o,p-DDT	5.196	1640	.911	o,p-DDT
5.155	12568	8.444	Kepone	.	0	.	Kepone
.	0	.	Endrin	5.165	1808	.705	Endrin
.	0	.	4,4'-DDD	5.234	2152	.964	4,4'-DDD
5.286	12000	3.164	Endosulfan II	5.307	4451	1.993	Endosulfan II
5.381	24273	5.777	4,4'-DDT	.	0	.	4,4'-DDT
5.581	30209	7.388	Endrin aldehyde	5.561	16367	9.336	Endrin aldehyde
5.695	23432	11.291	Methoxychlor	5.954	12834	18.137	Methoxychlor
.	0	.	Endo. sulfate	5.743	7867	4.547	Endo. sulfate
5.836	32008	8.923	Mirex	6.082	4531	3.726	Mirex
6.08	18295	3.353	Endrin ketone	6.106	2279	1.152	Endrin ketone

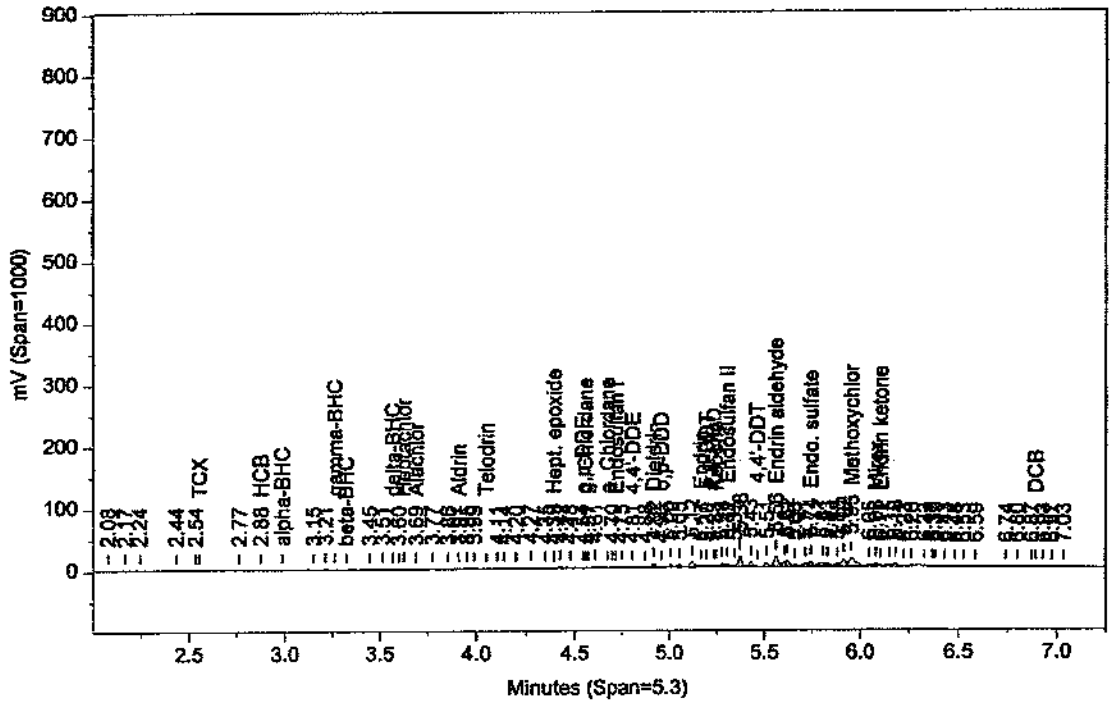
Files:
Area File: C:\CPWIN\DATA1\1P10200.19A
Area File: C:\CPWIN\DATA1\1P10200B.19A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:53:02 PM
File Reported On: 7/19/2011 at 2:53:15 PM

10X REPLOTS

C:\CPWIN\DATA1\1P10200.19R



C:\CPWIN\DATA1\1P10200B.19R



Sample Name: **TOXA31124C AATOXA3AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 01:56:27pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.20R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.081		0.0000	0.000	52.4	0.002	BB	0.015	60.08	0.005
2	1.783		0.0000	0.000	357.8	0.013	BV	0.021	281.50	0.023
3	1.809		0.0000	0.000	841.6	0.031	VV	0.035	402.20	0.033
4	1.876		0.0000	0.000	425.9	0.016	VV	0.035	200.72	0.016
5	1.936		0.0000	0.000	236.6	0.009	VB	0.028	141.30	0.012
6	1.981		0.0000	0.000	56.4	0.002	BB	0.016	60.41	0.005
7	2.164		0.0000	0.000	2434.7	0.090	BV	0.080	507.74	0.042
8	2.224		0.0000	0.000	698.0	0.026	VV	0.046	254.36	0.021
9	2.261		0.0000	0.000	1700.3	0.063	VB	0.024	1160.55	0.095
10	2.470		0.0000	0.000	48.5	0.002	BB	0.029	28.33	0.002
11	2.573		0.0000	0.000	49.1	0.002	BB	0.018	46.58	0.004
12	2.598		0.0000	0.000	153.6	0.006	BB	0.020	130.41	0.011
13	2.750		0.0000	0.000	689.8	0.026	BB	0.056	206.44	0.017
14	2.821		0.0000	0.000	698.3	0.026	BB	0.051	226.18	0.019
15	2.949		0.0000	0.000	186.5	0.007	BB	0.034	90.90	0.007
16	3.103		0.0000	0.000	111.4	0.004	BB	0.026	71.85	0.006
17	3.245		0.0000	0.000	5359.3	0.199	BV	0.028	3179.44	0.261
18	3.344	beta-BHC	0.1386	0.101	1380.5	0.051	VV	0.046	502.57	0.041
19	3.460		0.0000	0.000	609.2	0.023	VB	0.056	181.71	0.015
20	3.588		0.0000	0.000	4314.7	0.160	BV	0.034	2145.61	0.176
21	3.739		0.0000	0.000	1892.9	0.070	VV	0.041	764.30	0.063
22	3.789		0.0000	0.000	3441.6	0.128	VV	0.049	1171.16	0.096
23	3.872		0.0000	0.000	4145.2	0.154	VV	0.035	1965.61	0.161
24	3.974		0.0000	0.000	499.7	0.019	VB	0.024	353.70	0.029
25	4.026		0.0000	0.000	2298.0	0.085	BV	0.034	1130.94	0.093
26	4.089	Alachlor	0.0000	0.000	3813.3	0.142	VV	0.034	1864.41	0.153
27	4.189		0.0000	0.000	504.3	0.019	VV	0.024	356.29	0.029
28	4.235		0.0000	0.000	3917.2	0.146	VV	0.037	1746.53	0.143
29	4.302		0.0000	0.000	4205.4	0.156	VV	0.029	2381.15	0.195
30	4.340		0.0000	0.000	9776.7	0.363	VV	0.032	5124.57	0.420
31	4.378		0.0000	0.000	22007.5	0.818	VV	0.053	6949.96	0.570
32	4.463	Hept. epoxide	1.6226	1.185	22103.6	0.821	VV	0.036	10156.90	0.833
33	4.541	g. Chlordane	0.2915	0.213	4704.4	0.175	VV	0.041	1891.81	0.155
34	4.602		0.0000	0.000	8733.7	0.324	VV	0.049	2989.22	0.245
35	4.659	a. Chlordane	1.4627	1.068	31891.2	1.185	VV	0.059	9071.27	0.744
36	4.779	Endosulfan I	1.0627	0.776	20892.0	0.776	VV	0.057	6129.35	0.503
37	4.823		0.0000	0.000	11074.1	0.411	VV	0.037	4956.11	0.407
38	4.885		0.0000	0.000	11471.2	0.426	VV	0.036	5280.47	0.433
39	4.929		0.0000	0.000	35055.2	1.302	VV	0.035	16829.51	1.381
40	4.961	Dieldrin	2.8722	2.097	31669.3	1.177	VV	0.029	18029.30	1.479
41	5.030	o,p-DDT	8.0226	5.858	59684.6	2.217	VV	0.036	28016.23	2.299
42	5.098		0.0000	0.000	115448.6	4.289	VV	0.045	43007.53	3.529
43	5.154	Kepone	20.9455	15.295	78008.9	2.898	VV	0.042	31175.18	2.558
44	5.199		0.0000	0.000	23466.6	0.872	VV	0.022	17620.30	1.446
45	5.225		0.0000	0.000	43104.1	1.601	VV	0.031	23379.36	1.918
46	5.288	Endosulfan II	8.3246	6.079	83823.5	3.114	VV	0.044	31571.66	2.590
47	5.343	——	0.0000	0.000	133315.6	4.953	VV	0.036	61955.40	5.083
48	5.382	4,4'-DDT ——	14.4642	10.562	122713.2	4.559	VV	0.034	60772.02	4.986
49	5.534		0.0000	0.000	264579.6	9.830	VV	0.060	73599.24	6.039
50	5.582	Endrin aldehyde ——	18.3938	13.432	167548.5	6.225	VV	0.037	75208.14	6.171
51	5.623		0.0000	0.000	54323.5	2.018	VV	0.032	28109.78	2.306
52	5.671		0.0000	0.000	91944.7	3.416	VV	0.028	54780.94	4.495
53	5.696	Methoxychlor	28.9492	21.140	103429.6	3.843	VV	0.029	60077.55	4.929
54	5.741		0.0000	0.000	61633.5	2.290	VV	0.026	39726.82	3.259
55	5.775	——	0.0000	0.000	130731.9	4.857	VV	0.036	59915.02	4.916
56	5.837	Mirex ——	21.9465	16.026	164358.3	6.106	VV	0.035	78720.82	6.459
57	5.882		0.0000	0.000	243478.1	9.046	VV	0.054	75712.34	6.212
58	5.950		0.0000	0.000	55376.5	2.057	VV	0.028	33426.83	2.743
59	5.992		0.0000	0.000	82597.3	3.069	VV	0.034	40766.48	3.345
60	6.028		0.0000	0.000	39646.4	1.473	VV	0.027	24300.68	1.994
61	6.081	Endrin ketone ——	8.4427	6.165	99505.2	3.697	VV	0.036	46072.46	3.780
62	6.146		0.0000	0.000	47970.4	1.782	VV	0.036	21949.04	1.801
63	6.180		0.0000	0.000	59284.7	2.203	VV	0.030	33463.48	2.746
64	6.222		0.0000	0.000	18463.3	0.686	VV	0.021	14694.81	1.206

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.240		0.0000	0.000	19786.3	0.735	VV	0.022	15134.16	1.242
66	6.264		0.0000	0.000	20920.0	0.777	VV	0.023	14924.05	1.224
67	6.306		0.0000	0.000	5110.9	0.190	VV	0.027	3205.24	0.263
68	6.341		0.0000	0.000	5146.7	0.191	VV	0.028	3056.71	0.251
69	6.390		0.0000	0.000	503.1	0.019	VB	0.017	480.96	0.039
70	6.425		0.0000	0.000	2601.6	0.097	BB	0.021	2050.71	0.168
71	6.463		0.0000	0.000	3874.1	0.144	BB	0.023	2839.39	0.233
72	6.521		0.0000	0.000	1380.5	0.051	BB	0.023	1005.40	0.082
73	6.591		0.0000	0.000	1576.0	0.059	BB	0.022	1183.09	0.097
74	6.633		0.0000	0.000	3777.6	0.140	BB	0.026	2454.09	0.201
75	6.705		0.0000	0.000	400.5	0.015	BB	0.036	183.85	0.015
76	6.751		0.0000	0.000	1480.7	0.055	BB	0.026	947.27	0.078
77	6.791		0.0000	0.000	669.8	0.025	BB	0.022	497.52	0.041
78	6.848		0.0000	0.000	1590.2	0.059	BB	0.027	983.59	0.081
79	6.922		0.0000	0.000	418.0	0.016	BB	0.040	174.21	0.014
80	7.038		0.0000	0.000	194.3	0.007	BB	0.018	175.08	0.014
81	7.080		0.0000	0.000	332.0	0.012	BB	0.026	208.90	0.017
82	7.354		0.0000	0.000	22855.9	0.849	BB	0.168	2270.83	0.186

Total Area = 2691556.0, Total Amount = 136.939, Total Height = 1218819.0, Sample Units = PPB

Sample Name: **TOXA31124C AATOXA3AA ICAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 01:56:27pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.20R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.940		0.0000	0.000	236.4	0.033	BB	0.035	113.66	0.026
2	2.052		0.0000	0.000	44.8	0.006	BV	0.015	48.65	0.011
3	2.080		0.0000	0.000	282.1	0.040	VB	0.015	316.07	0.073
4	2.154		0.0000	0.000	53.3	0.008	BB	0.014	61.51	0.014
5	2.293		0.0000	0.000	165.6	0.023	BB	0.042	65.17	0.015
6	2.356		0.0000	0.000	106.9	0.015	BB	0.028	63.37	0.015
7	2.523		0.0000	0.000	31.1	0.004	BB	0.010	51.99	0.012
8	2.593		0.0000	0.000	74.1	0.010	BB	0.024	51.55	0.012
9	2.631		0.0000	0.000	45.5	0.006	BB	0.020	38.06	0.009
10	2.666		0.0000	0.000	64.2	0.009	BB	0.015	69.72	0.016
11	2.770		0.0000	0.000	300.4	0.042	BB	0.056	89.58	0.021
12	2.817		0.0000	0.000	161.7	0.023	BB	0.028	95.37	0.022
13	2.914		0.0000	0.000	200.6	0.028	BB	0.049	68.89	0.016
14	3.097		0.0000	0.000	74.5	0.010	BB	0.034	36.24	0.008
15	3.124		0.0000	0.000	49.4	0.007	BB	0.016	51.51	0.012
16	3.216		0.0000	0.000	3542.7	0.499	BB	0.024	2440.91	0.563
17	3.344		0.0000	0.000	656.3	0.092	BV	0.053	207.17	0.048
18	3.452		0.0000	0.000	220.2	0.031	VB	0.026	140.59	0.032
19	3.516		0.0000	0.000	1925.8	0.271	BB	0.024	1325.49	0.306
20	3.596		0.0000	0.000	44.5	0.006	BB	0.015	48.80	0.011
21	3.698	Alachlor	0.0000	0.000	1343.7	0.189	BV	0.040	559.41	0.129
22	3.777		0.0000	0.000	2657.1	0.374	VV	0.031	1431.14	0.330
23	3.859		0.0000	0.000	354.5	0.050	VB	0.028	212.20	0.049
24	3.955		0.0000	0.000	1086.1	0.153	BV	0.028	644.54	0.149
25	3.992		0.0000	0.000	1996.1	0.281	VV	0.026	1301.52	0.300
26	4.039	Telodrin	0.1178	0.115	687.5	0.097	VB	0.038	298.72	0.069
27	4.106		0.0000	0.000	888.0	0.125	BV	0.023	652.36	0.150
28	4.137		0.0000	0.000	346.0	0.049	VV	0.019	302.55	0.070
29	4.170		0.0000	0.000	212.0	0.030	VV	0.016	220.71	0.051
30	4.201		0.0000	0.000	1301.1	0.183	VV	0.032	677.14	0.156
31	4.276		0.0000	0.000	8499.1	1.196	VV	0.033	4324.88	0.998
32	4.349		0.0000	0.000	3253.3	0.458	VB	0.030	1806.52	0.417
33	4.393	Hept. epoxide	0.3375	0.329	1002.2	0.141	BV	0.017	960.47	0.222
34	4.426		0.0000	0.000	7262.5	1.022	VV	0.022	5569.27	1.285
35	4.477		0.0000	0.000	2344.8	0.330	VV	0.033	1172.11	0.270
36	4.546	o,p-DDE	0.4469	0.436	1198.8	0.169	VV	0.023	875.79	0.202
37	4.575		0.0000	0.000	678.8	0.096	VV	0.018	643.85	0.149
38	4.612		0.0000	0.000	12999.2	1.830	VB	0.039	5490.98	1.267
39	4.702	Endosulfan I	0.4565	0.445	2188.2	0.308	BV	0.028	1281.90	0.296
40	4.752		0.0000	0.000	3019.0	0.425	VB	0.034	1463.48	0.338
41	4.808	4,4'-DDE	0.6589	0.642	3970.9	0.559	BB	0.035	1907.59	0.440
42	4.876		0.0000	0.000	1112.4	0.157	BB	0.018	1057.82	0.244
43	4.918	Dieldrin	3.7558	3.661	17041.0	2.399	BB	0.024	11830.45	2.729
44	4.961	o,p-DDD	0.2332	0.227	295.2	0.042	BV	0.012	396.37	0.091
45	5.005		0.0000	0.000	12937.8	1.821	VV	0.023	9498.36	2.191
46	5.051		0.0000	0.000	12364.5	1.741	VV	0.023	8957.55	2.066
47	5.120	——	0.0000	0.000	36947.5	5.201	VV	0.033	18745.88	4.324
48	5.166	Endrin	1.5903	1.550	5490.0	0.773	VV	0.022	4076.75	0.940
49	5.197	o,p-DDT	2.0602	2.008	4719.1	0.664	VV	0.021	3709.09	0.856
50	5.233	4,4'-DDD	2.1187	2.065	8936.7	1.258	VV	0.031	4736.52	1.091
51	5.280		0.0000	0.000	12524.0	1.763	VV	0.022	9451.59	2.180
52	5.308	Endosulfan II	4.6070	4.490	11867.8	1.671	VB	0.019	10291.63	2.374
53	5.348		0.0000	0.000	6174.7	0.869	BV	0.017	6209.87	1.433
54	5.377	——	0.0000	0.000	50407.6	7.096	VB	0.021	39271.93	9.059
55	5.431		0.0000	0.000	20381.9	2.869	BB	0.021	16277.40	3.755
56	5.512		0.0000	0.000	19352.2	2.724	BV	0.023	13924.01	3.212
57	5.562	Endrin aldehyde ——	23.0067	22.425	56880.1	8.007	VV	0.024	40331.96	9.304
58	5.622		0.0000	0.000	47587.6	6.699	VV	0.038	20944.68	4.832
59	5.662		0.0000	0.000	11463.9	1.614	VV	0.026	7293.52	1.682
60	5.715		0.0000	0.000	25325.3	3.565	VV	0.035	12148.05	2.802
61	5.744	Endo. sulfate ——	10.6225	10.354	22395.1	3.152	VV	0.020	18379.54	4.240
62	5.808		0.0000	0.000	53412.4	7.519	VV	0.058	15388.68	3.550
63	5.885		0.0000	0.000	15317.5	2.156	VV	0.024	10554.09	2.435
64	5.917	——	0.0000	0.000	40322.4	5.676	VV	0.025	26717.57	6.163

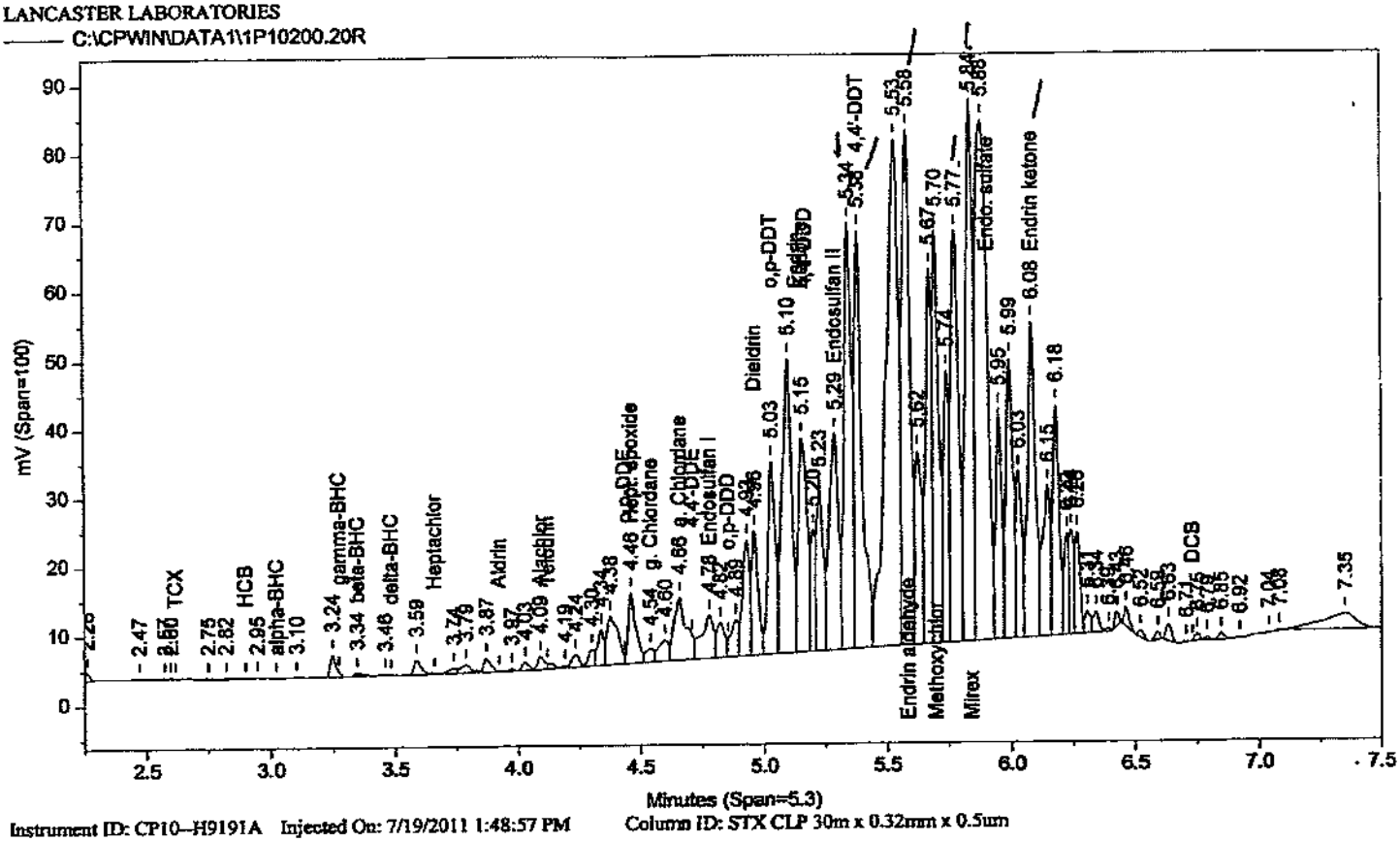
USF83 1058

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	5.956	Methoxychlor	43.4635	42.364	70831.4	9.971	VB	0.038	30755.45	7.095
66	6.049		0.0000	0.000	9926.0	1.397	BV	0.024	6955.75	1.605
67	6.083	Mirex	8.8748	8.650	21053.4	2.964	VV	0.033	10793.44	2.490
68	6.152		0.0000	0.000	13157.8	1.852	VV	0.027	8233.01	1.899
69	6.181		0.0000	0.000	13385.9	1.884	VV	0.021	10783.19	2.488
70	6.230		0.0000	0.000	2242.1	0.316	VB	0.023	1609.16	0.371
71	6.265		0.0000	0.000	3065.9	0.432	BB	0.016	3235.66	0.746
72	6.303		0.0000	0.000	92.9	0.013	BB	0.001	1381.63	0.319
73	6.335		0.0000	0.000	1201.8	0.169	BB	0.014	1437.29	0.332
74	6.388		0.0000	0.000	7213.2	1.015	BB	0.035	3480.87	0.803
75	6.434		0.0000	0.000	4124.5	0.581	BB	0.026	2685.46	0.619
76	6.486		0.0000	0.000	1031.2	0.145	BB	0.016	1061.92	0.245
77	6.528		0.0000	0.000	244.0	0.034	BB	0.017	245.59	0.057
78	6.546		0.0000	0.000	99.8	0.014	BB	0.011	156.22	0.036
79	6.589		0.0000	0.000	809.7	0.114	BB	0.018	769.22	0.177
80	6.610		0.0000	0.000	359.1	0.051	BB	0.011	546.92	0.126
81	6.742		0.0000	0.000	150.6	0.021	BB	0.021	121.35	0.028
82	6.768		0.0000	0.000	74.6	0.011	BB	0.011	115.68	0.027
83	6.804		0.0000	0.000	846.7	0.119	BB	0.025	555.98	0.128
84	6.876	DCB	0.2447	0.238	317.1	0.045	BB	0.022	242.80	0.056
85	6.932		0.0000	0.000	381.0	0.054	BB	0.017	384.37	0.089
86	6.974		0.0000	0.000	191.4	0.027	BB	0.019	170.78	0.039
87	7.016		0.0000	0.000	444.1	0.063	BB	0.054	136.66	0.032
88	7.171		0.0000	0.000	119.8	0.017	BB	0.022	90.31	0.021
89	7.230		0.0000	0.000	170.7	0.024	BB	0.021	136.25	0.031
90	7.335		0.0000	0.000	37.4	0.005	BB	0.015	40.22	0.009

Total Area = 710397.9, Total Amount = 102.595, Total Height = 433493.9, Sample Units = PPB

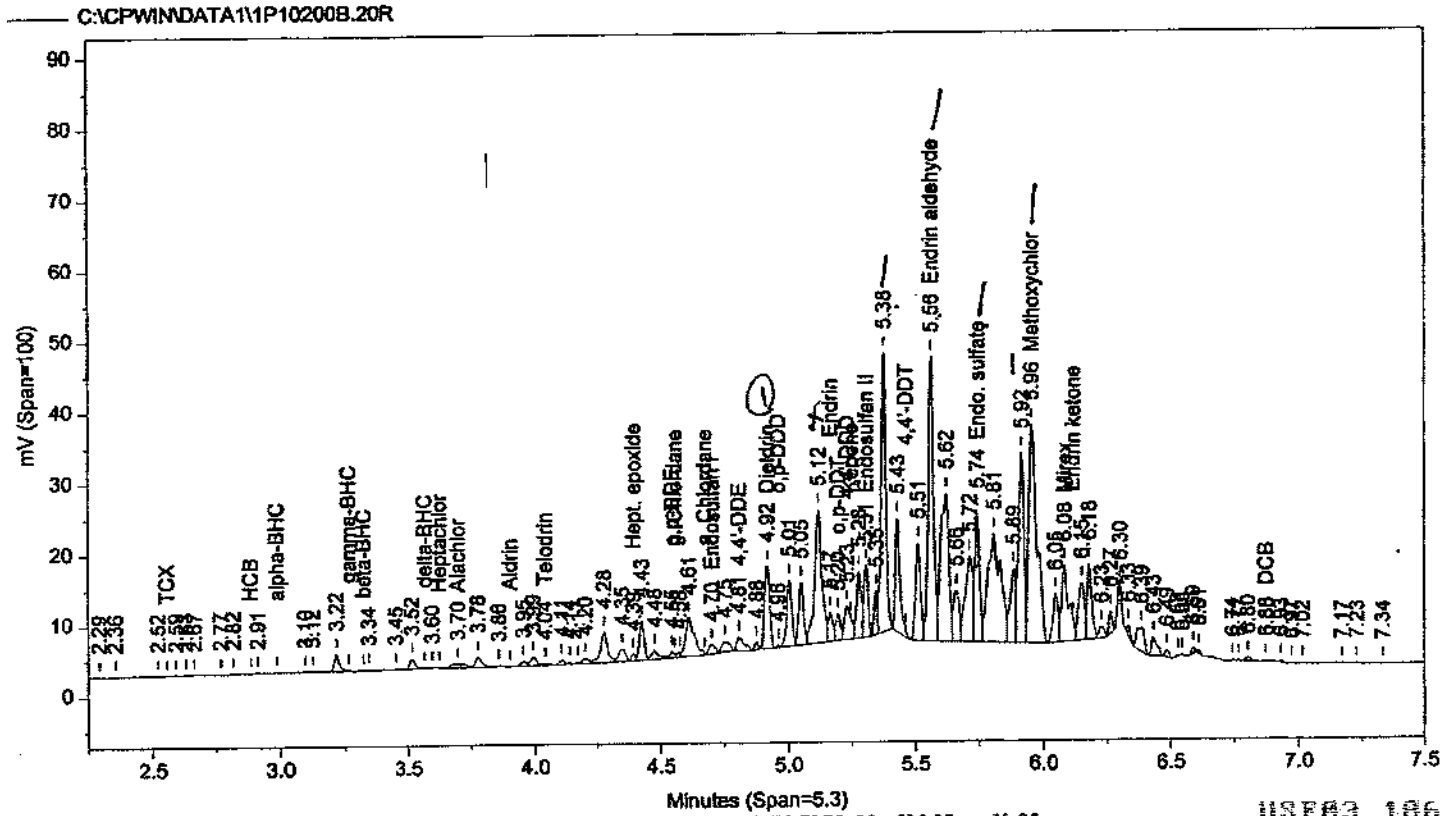
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.20R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 1:48:57 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.20R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 1:48:57 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

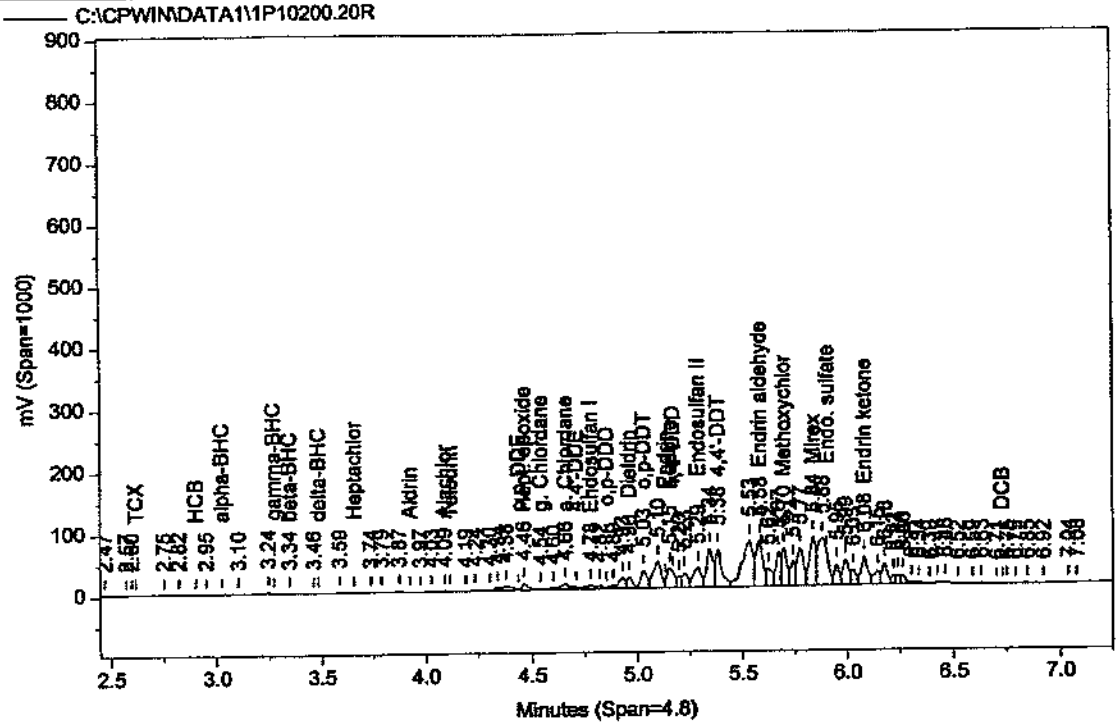
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.344	503	.139	beta-BHC	.	0	.	beta-BHC
4.089	1864	.	Alachlor	3.698	559	.	Alachlor
.	0	.	Telodrin	4.039	299	.118	Telodrin
4.463	10157	1.623	Hept. epoxide	4.393	960	.338	Hept. epoxide
4.541	1892	.291	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.546	876	.447	o,p-DDE
4.659	9071	1.463	a. Chlordane	.	0	.	a. Chlordane
4.779	6129	1.063	Endosulfan I	4.702	1282	.456	Endosulfan I
.	0	.	4,4'-DDE	4.808	1908	.659	4,4'-DDE
4.961	18029	2.872	Dieldrin	4.918	11830	3.756	Dieldrin
.	0	.	o,p-DDD	4.961	396	.233	o,p-DDD
5.03	28016	8.023	o,p-DDT	5.197	3709	2.06	o,p-DDT
5.154	31175	20.945	Kepone	.	0	.	Kepone
.	0	.	Endrin	5.166	4077	1.59	Endrin
.	0	.	4,4'-DDD	5.233	4731	2.119	4,4'-DDD
5.288	31572	8.325	Endosulfan II	5.308	10292	4.607	Endosulfan II
5.382	60772	14.464	4,4'-DDT	.	0	.	4,4'-DDT
5.582	75208	18.394	Endrin aldehyde	5.562	40332	23.007	Endrin aldehyde
5.696	60078	28.949	Methoxychlor	5.956	30755	43.463	Methoxychlor
.	0	.	Endo. sulfate	5.744	18380	10.623	Endo. sulfate
5.837	78721	21.947	Mirex	6.083	10793	8.875	Mirex
6.081	46072	8.443	Endrin ketone	.	0	.	Endrin ketone
.	0	.	DCB	6.876	243	.245	DCB

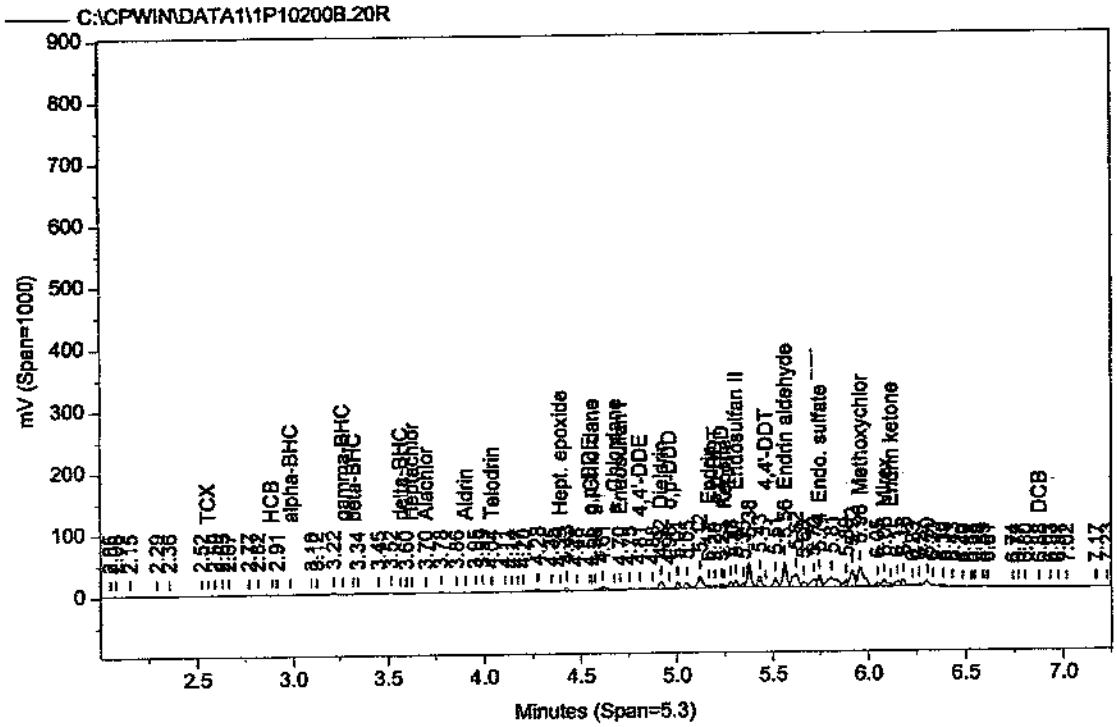
Files:
Area File: C:\CPWIN\DATA1\1P10200.20A
Area File: C:\CPWIN\DATA1\1P10200B.20A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:53:30 PM
File Reported On: 7/19/2011 at 2:53:42 PM

10X REPLOTS

C:\CPWIN\DATA1\1P10200.20R



C:\CPWIN\DATA1\1P10200B.20R



USF03 1962

Sample Name: **TOXA41124B AATOXA4AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 02:19:09pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min, to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.21R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.783		0.0000	0.000	195.9	0.003	BV	0.016	202.50	0.008
2	1.809		0.0000	0.000	630.7	0.011	VV	0.032	326.76	0.013
3	1.873		0.0000	0.000	492.7	0.009	VV	0.040	205.36	0.008
4	1.936		0.0000	0.000	211.9	0.004	VV	0.037	94.31	0.004
5	2.024		0.0000	0.000	72.9	0.001	VB	0.015	83.31	0.003
6	2.112		0.0000	0.000	261.2	0.005	BV	0.020	220.66	0.008
7	2.132		0.0000	0.000	161.6	0.003	VB	0.021	130.92	0.005
8	2.218		0.0000	0.000	331.2	0.006	BV	0.026	211.84	0.008
9	2.260		0.0000	0.000	2617.8	0.046	VB	0.031	1407.30	0.054
10	2.426		0.0000	0.000	41.3	0.001	BB	0.017	39.79	0.002
11	2.459		0.0000	0.000	78.2	0.001	BB	0.020	65.29	0.003
12	2.492		0.0000	0.000	130.4	0.002	BB	0.025	85.62	0.003
13	2.595		0.0000	0.000	690.1	0.012	BB	0.048	240.75	0.009
14	2.774		0.0000	0.000	296.4	0.005	BB	0.072	68.77	0.003
15	2.817		0.0000	0.000	704.9	0.012	BB	0.037	314.70	0.012
16	2.896	HCB	0.0073	0.003	59.7	0.001	BV	0.019	51.24	0.002
17	2.946		0.0000	0.000	432.7	0.008	VB	0.059	121.72	0.005
18	3.187		0.0000	0.000	75.8	0.001	BV	0.021	60.27	0.002
19	3.244		0.0000	0.000	11440.2	0.200	VV	0.029	6482.50	0.249
20	3.341	beta-BHC	0.2384	0.082	1556.1	0.027	VV	0.030	864.21	0.033
21	3.375		0.0000	0.000	772.5	0.014	VB	0.029	450.78	0.017
22	3.439		0.0000	0.000	845.7	0.015	BB	0.052	270.27	0.010
23	3.587		0.0000	0.000	8138.0	0.143	BV	0.036	3804.97	0.146
24	3.739		0.0000	0.000	2969.7	0.052	VV	0.038	1293.91	0.050
25	3.787		0.0000	0.000	5527.3	0.097	VV	0.049	1867.79	0.072
26	3.870		0.0000	0.000	7915.2	0.139	VV	0.037	3583.33	0.138
27	3.973		0.0000	0.000	692.0	0.012	VB	0.024	480.12	0.018
28	4.026		0.0000	0.000	3912.2	0.069	BV	0.034	1890.75	0.073
29	4.087	Alachlor	0.0000	0.000	9390.3	0.165	VV	0.042	3745.25	0.144
30	4.189		0.0000	0.000	711.9	0.012	VV	0.024	493.90	0.019
31	4.236		0.0000	0.000	6310.8	0.111	VV	0.038	2799.26	0.107
32	4.302		0.0000	0.000	7307.9	0.128	VV	0.030	4094.60	0.157
33	4.339		0.0000	0.000	16522.5	0.290	VV	0.030	9184.33	0.353
34	4.377		0.0000	0.000	42749.1	0.749	VV	0.053	13477.77	0.517
35	4.462	Hept. epoxide	3.0901	1.064	42974.4	0.753	VV	0.037	19342.82	0.742
36	4.543	g. Chlordane	0.4650	0.160	6651.2	0.117	VV	0.037	3018.28	0.116
37	4.603		0.0000	0.000	16289.7	0.285	VV	0.048	5669.58	0.218
38	4.659	a. Chlordane	2.9862	1.028	50036.9	0.877	VV	0.045	18519.45	0.711
39	4.693	4,4'-DDE	1.5067	0.519	16191.8	0.284	VV	0.031	8742.55	0.336
40	4.778	Endosulfan I	2.0323	0.700	40094.4	0.703	VV	0.057	11722.15	0.450
41	4.824		0.0000	0.000	21191.0	0.371	VV	0.040	8898.25	0.342
42	4.884		0.0000	0.000	20225.7	0.354	VV	0.035	9661.23	0.371
43	4.929		0.0000	0.000	64522.8	1.131	VV	0.033	32559.51	1.250
44	4.960	Dieldrin	5.7090	1.966	66136.3	1.159	VV	0.031	35836.21	1.376
45	5.029	o,p-DDT	16.9913	5.850	127976.3	2.243	VV	0.036	59336.70	2.278
46	5.097		0.0000	0.000	233126.6	4.085	VV	0.044	89262.75	3.426
47	5.153	Kepone	42.3764	14.591	157613.0	2.762	VV	0.042	63072.89	2.421
48	5.198		0.0000	0.000	48371.2	0.848	VV	0.022	36560.14	1.403
49	5.224		0.0000	0.000	96568.8	1.692	VV	0.033	49044.79	1.883
50	5.288	Endosulfan II	17.4417	6.005	178351.3	3.125	VV	0.045	66149.30	2.539
51	5.342		0.0000	0.000	269918.7	4.730	VV	0.034	133362.60	5.119
52	5.381	4,4'-DDT	30.5036	10.503	271041.5	4.750	VV	0.035	128162.40	4.920
53	5.533		0.0000	0.000	567022.1	9.937	VV	0.061	156047.20	5.990
54	5.581	Endrin aldehyde	39.6222	13.642	345180.1	6.049	VV	0.036	162006.80	6.219
55	5.622		0.0000	0.000	117731.9	2.063	VV	0.032	60412.61	2.319
56	5.670		0.0000	0.000	190995.4	3.347	VV	0.027	117696.20	4.518
57	5.695	Methoxychlor	61.0878	21.033	227251.3	3.982	VV	0.030	126773.80	4.866
58	5.740		0.0000	0.000	130838.5	2.293	VV	0.025	86191.79	3.308
59	5.774		0.0000	0.000	294410.7	5.159	VV	0.038	128537.50	4.934
60	5.836	Mirex	47.3559	16.305	358812.0	6.288	VV	0.035	169862.70	6.520
61	5.880		0.0000	0.000	528495.6	9.261	VV	0.053	167732.90	6.438
62	5.949		0.0000	0.000	121275.0	2.125	VV	0.027	73935.91	2.838
63	5.992		0.0000	0.000	189658.3	3.324	VV	0.035	89922.66	3.452
64	6.028		0.0000	0.000	87727.0	1.537	VV	0.027	53950.66	2.071

USF63 1963

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.081	Endrin ketone	18.3914	6.332	218224.7	3.824	VV	0.036	100363.20	3.852
66	6.144		0.0000	0.000	109306.8	1.915	VV	0.037	49504.82	1.900
67	6.179		0.0000	0.000	128107.9	2.245	VV	0.029	74887.51	2.875
68	6.221		0.0000	0.000	46779.7	0.820	VV	0.023	33502.38	1.286
69	6.239		0.0000	0.000	38582.1	0.676	VV	0.019	34301.27	1.317
70	6.264		0.0000	0.000	53029.5	0.929	VV	0.026	34425.92	1.321
71	6.305		0.0000	0.000	11962.1	0.210	VV	0.027	7275.22	0.279
72	6.340		0.0000	0.000	11710.9	0.205	VV	0.027	7105.39	0.273
73	6.389		0.0000	0.000	1423.7	0.025	VB	0.019	1240.12	0.048
74	6.424		0.0000	0.000	6038.3	0.106	BB	0.021	4842.34	0.186
75	6.462		0.0000	0.000	8810.8	0.154	BB	0.023	6479.42	0.249
76	6.520		0.0000	0.000	2722.8	0.048	BB	0.021	2210.85	0.085
77	6.589		0.0000	0.000	3538.0	0.062	BB	0.022	2708.60	0.104
78	6.632		0.0000	0.000	9970.3	0.175	BB	0.028	6006.31	0.231
79	6.749	DCB	0.6317	0.218	5419.8	0.095	BB	0.037	2427.08	0.093
80	6.789		0.0000	0.000	1414.0	0.025	BB	0.021	1107.29	0.043
81	6.846		0.0000	0.000	3659.5	0.064	BB	0.027	2231.35	0.086
82	6.900		0.0000	0.000	892.4	0.016	BB	0.036	408.94	0.016
83	6.968		0.0000	0.000	354.2	0.006	BB	0.021	281.92	0.011
84	7.034		0.0000	0.000	420.8	0.007	BB	0.020	349.02	0.013
85	7.075		0.0000	0.000	775.0	0.014	BB	0.024	528.70	0.020
86	7.352		0.0000	0.000	22368.4	0.392	BB	0.164	2271.02	0.087

Total Area = 5706439.0, Total Amount = 290.437, Total Height = 2605166.0, Sample Units = PPB

Sample Name: **TOXA41124B AATOXA4AA ICAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 02:19:09pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.21R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.027		0.0000	0.000	47.7	0.003	BB	0.019	41.78	0.004
2	1.937		0.0000	0.000	118.4	0.008	BV	0.023	87.09	0.009
3	1.977		0.0000	0.000	350.4	0.024	VV	0.048	120.69	0.012
4	2.049		0.0000	0.000	207.4	0.014	VV	0.022	154.96	0.016
5	2.078		0.0000	0.000	527.7	0.036	VV	0.019	460.61	0.047
6	2.164		0.0000	0.000	152.5	0.010	VB	0.028	89.96	0.009
7	2.299		0.0000	0.000	72.5	0.005	BB	0.020	61.23	0.006
8	2.366		0.0000	0.000	141.4	0.010	BB	0.040	59.34	0.006
9	2.527		0.0000	0.000	33.4	0.002	BB	0.020	27.56	0.003
10	2.586		0.0000	0.000	102.2	0.007	BB	0.028	60.39	0.006
11	2.634		0.0000	0.000	49.8	0.003	BB	0.013	63.73	0.007
12	2.664		0.0000	0.000	94.8	0.006	BB	0.015	103.66	0.011
13	2.885	HCB	0.0474	0.021	926.6	0.063	BV	0.104	148.86	0.015
14	2.999	alpha-BHC	0.0180	0.008	267.8	0.018	VV	0.051	87.83	0.009
15	3.054		0.0000	0.000	290.5	0.020	VV	0.051	94.53	0.010
16	3.150		0.0000	0.000	335.8	0.023	VV	0.066	85.42	0.009
17	3.214		0.0000	0.000	6677.3	0.452	VB	0.024	4557.65	0.466
18	3.343	beta-BHC	0.1390	0.062	653.0	0.044	BV	0.041	263.79	0.027
19	3.453		0.0000	0.000	528.8	0.036	VV	0.041	215.00	0.022
20	3.514		0.0000	0.000	3990.9	0.270	VV	0.028	2378.88	0.243
21	3.572	delta-BHC	0.0662	0.030	371.2	0.025	VV	0.022	286.74	0.029
22	3.612	Heptachlor	0.0876	0.039	838.8	0.057	VV	0.043	322.40	0.033
23	3.693	Alachlor	0.0000	0.000	2531.9	0.171	VV	0.043	987.20	0.101
24	3.715		0.0000	0.000	1940.5	0.131	VV	0.032	1018.54	0.104
25	3.775		0.0000	0.000	4898.9	0.332	VV	0.033	2493.38	0.255
26	3.857		0.0000	0.000	607.6	0.041	VB	0.028	355.59	0.036
27	3.951		0.0000	0.000	1621.3	0.110	BV	0.028	964.99	0.099
28	3.990		0.0000	0.000	3866.9	0.262	VV	0.027	2386.65	0.244
29	4.037	Telodrin	0.2081	0.093	1264.3	0.086	VB	0.040	527.63	0.054
30	4.105		0.0000	0.000	1590.2	0.108	BV	0.026	1035.24	0.106
31	4.137		0.0000	0.000	413.2	0.028	VV	0.018	380.35	0.039
32	4.168		0.0000	0.000	349.9	0.024	VV	0.017	344.72	0.035
33	4.200		0.0000	0.000	1897.9	0.128	VV	0.030	1057.50	0.108
34	4.274		0.0000	0.000	13788.4	0.934	VV	0.031	7397.37	0.756
35	4.348		0.0000	0.000	5367.9	0.363	VV	0.032	2839.72	0.290
36	4.391	Hept. epoxide	0.7084	0.316	2284.1	0.155	VV	0.019	2015.86	0.206
37	4.425		0.0000	0.000	12901.7	0.874	VV	0.021	10107.85	1.033
38	4.476		0.0000	0.000	3322.0	0.225	VV	0.027	2026.14	0.207
39	4.544	o,p-DDE	0.7512	0.335	2319.0	0.157	VV	0.026	1472.10	0.150
40	4.574		0.0000	0.000	1235.6	0.084	VV	0.017	1214.01	0.124
41	4.611		0.0000	0.000	23907.0	1.619	VB	0.039	10265.92	1.049
42	4.702	Endosulfan I	0.8435	0.376	4006.5	0.271	BV	0.028	2368.85	0.242
43	4.753		0.0000	0.000	5852.5	0.396	VB	0.034	2842.74	0.291
44	4.808	4,4'-DDE	1.0314	0.460	6834.2	0.463	BB	0.038	2985.78	0.305
45	4.876		0.0000	0.000	2024.6	0.137	BB	0.018	1896.38	0.194
46	4.918	Dieldrin	7.5106	3.347	34031.5	2.304	BB	0.024	23657.36	2.418
47	4.960	o,p-DDD	0.4767	0.212	647.0	0.044	BV	0.013	810.46	0.083
48	5.004		0.0000	0.000	26504.4	1.794	VV	0.023	19530.92	1.996
49	5.050		0.0000	0.000	25097.0	1.699	VV	0.023	18413.26	1.882
50	5.119		0.0000	0.000	79383.4	5.375	VV	0.033	39884.70	4.076
51	5.165	Endrin	3.2956	1.469	10507.5	0.711	VV	0.021	8448.42	0.863
52	5.196	o,p-DDT	4.3096	1.921	10701.5	0.725	VV	0.023	7758.97	0.793
53	5.232	4,4'-DDD	4.4028	1.962	17469.1	1.183	VV	0.030	9830.23	1.005
54	5.279		0.0000	0.000	27734.2	1.878	VV	0.023	20209.01	2.065
55	5.307	Endosulfan II	9.7714	4.355	24441.5	1.655	VB	0.019	21828.49	2.231
56	5.347		0.0000	0.000	13794.9	0.934	BV	0.018	13069.29	1.336
57	5.376		0.0000	0.000	106194.7	7.190	VB	0.021	85138.89	8.701
58	5.430		0.0000	0.000	43067.0	2.916	BB	0.021	34591.93	3.535
59	5.511		0.0000	0.000	40320.5	2.730	BV	0.023	29136.69	2.978
60	5.561	Endrin aldehyde	48.7392	21.722	120524.6	8.160	VV	0.024	85442.42	8.732
61	5.607		0.0000	0.000	39755.2	2.692	VV	0.017	38013.31	3.885
62	5.621		0.0000	0.000	58233.8	3.943	VV	0.022	44362.54	4.534
63	5.661		0.0000	0.000	25148.7	1.703	VV	0.028	15077.57	1.541
64	5.714		0.0000	0.000	54363.8	3.681	VV	0.035	25578.95	2.614

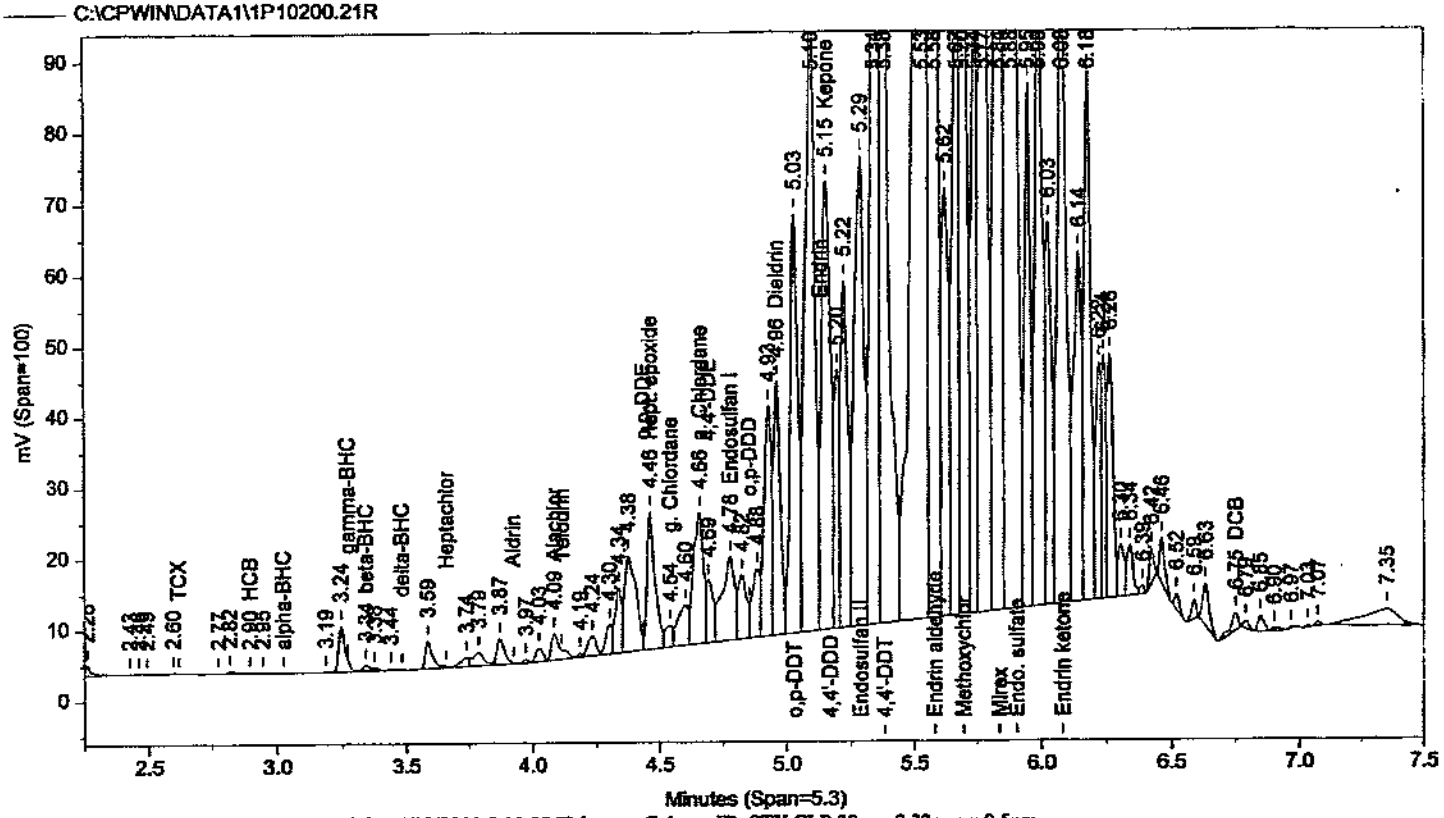
USP83 1995

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	5.743	Endo. sulfate	22.6249	10.083	46123.2	3.123	VV	0.020	39146.55	4.001
66	5.807		0.0000	0.000	73597.9	4.983	VV	0.037	33401.20	3.414
67	5.830		0.0000	0.000	38677.4	2.619	VV	0.026	24463.76	2.500
68	5.884		0.0000	0.000	32814.4	2.222	VV	0.024	22372.87	2.287
69	5.915		0.0000	0.000	84819.9	5.743	VV	0.025	56350.39	5.759
70	5.954	Methoxychlor	94.3796	42.062	151060.1	10.228	VB	0.038	66784.48	6.825
71	6.047		0.0000	0.000	19476.5	1.319	BV	0.022	14642.25	1.496
72	6.082	Mirex	19.3231	8.612	32628.3	2.209	VV	0.023	23500.46	2.402
73	6.107	Endrin ketone	5.6463	2.516	12831.0	0.869	VV	0.019	11169.08	1.141
74	6.151		0.0000	0.000	28850.9	1.953	VV	0.028	17452.65	1.784
75	6.180		0.0000	0.000	27499.1	1.862	VV	0.020	22680.87	2.318
76	6.229		0.0000	0.000	4839.2	0.328	VB	0.024	3424.38	0.350
77	6.264		0.0000	0.000	6143.8	0.416	BB	0.015	6947.71	0.710
79	6.333		0.0000	0.000	2399.1	0.162	BB	0.012	3215.71	0.329
80	6.386		0.0000	0.000	15415.2	1.044	BB	0.034	7498.20	0.766
81	6.432		0.0000	0.000	8652.4	0.586	BB	0.026	5523.41	0.564
82	6.484		0.0000	0.000	2096.5	0.142	BB	0.016	2160.26	0.221
83	6.525		0.0000	0.000	1413.5	0.096	BB	0.023	1026.00	0.105
84	6.587		0.0000	0.000	1794.2	0.121	BB	0.017	1735.19	0.177
85	6.609		0.0000	0.000	652.5	0.044	BB	0.009	1175.19	0.120
86	6.741		0.0000	0.000	275.9	0.019	BB	0.020	233.08	0.024
87	6.764		0.0000	0.000	137.6	0.009	BB	0.011	212.87	0.022
88	6.802		0.0000	0.000	1814.5	0.123	BB	0.025	1189.08	0.122
89	6.875		0.0000	0.000	1010.2	0.068	BB	0.027	618.16	0.063
90	6.929		0.0000	0.000	707.9	0.048	BB	0.016	750.06	0.077
91	6.974		0.0000	0.000	369.3	0.025	BB	0.019	321.51	0.033
92	7.013		0.0000	0.000	376.5	0.025	BB	0.024	259.70	0.027
93	7.103		0.0000	0.000	212.9	0.014	BB	0.030	116.90	0.012
94	7.142		0.0000	0.000	50.3	0.003	BB	0.016	53.84	0.006
95	7.168		0.0000	0.000	204.5	0.014	BB	0.023	150.50	0.015
96	7.225		0.0000	0.000	418.5	0.028	BB	0.024	296.05	0.030
97	7.357		0.0000	0.000	102.7	0.007	BB	0.031	54.96	0.006

Total Area = 1476991.0, Total Amount = 224.381, Total Height = 978467.1, Sample Units = PPB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.21R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 2:11:39 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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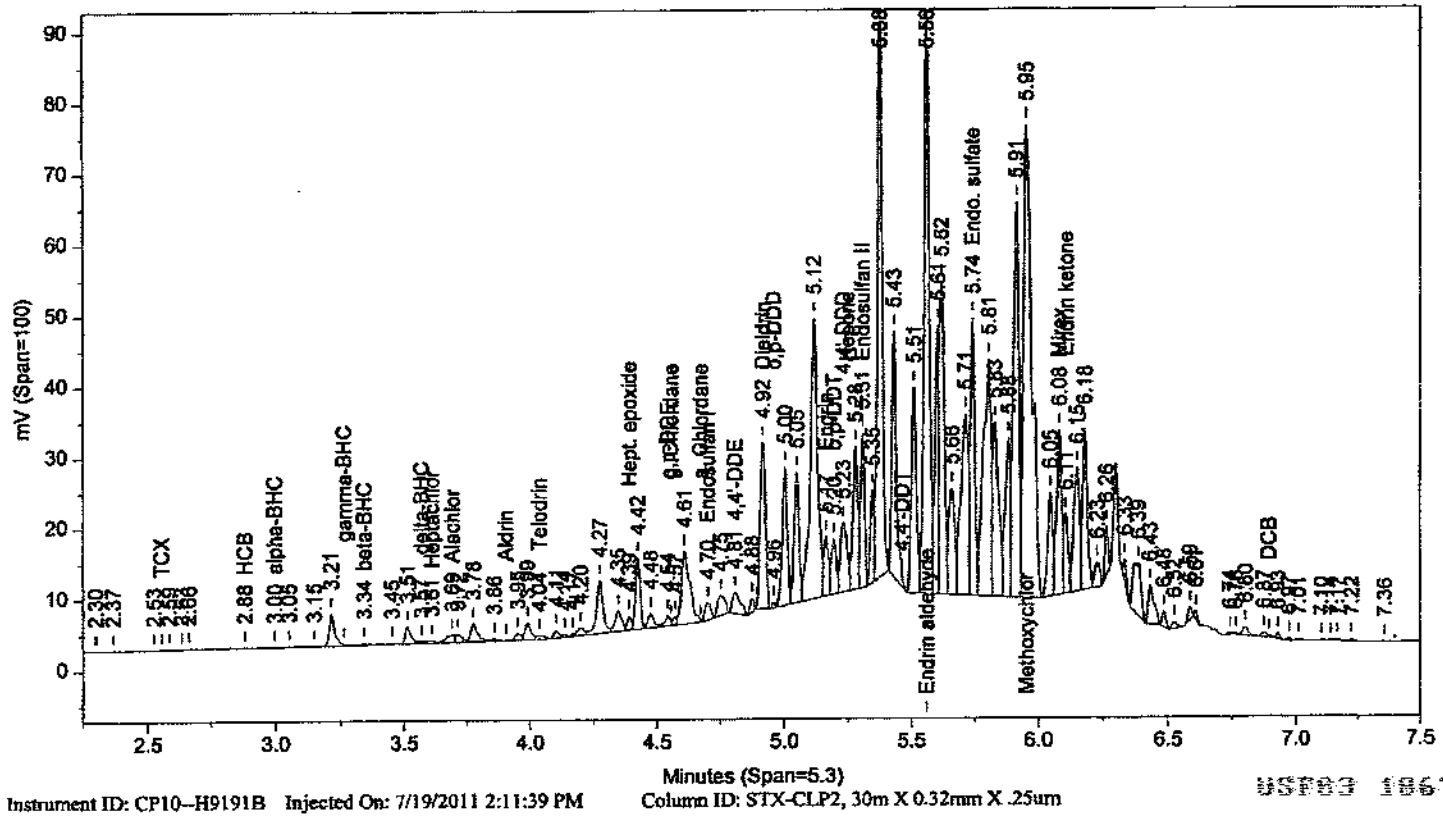


Instrument ID: CP10--H9191B Injected On: 7/19/2011 2:11:39 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

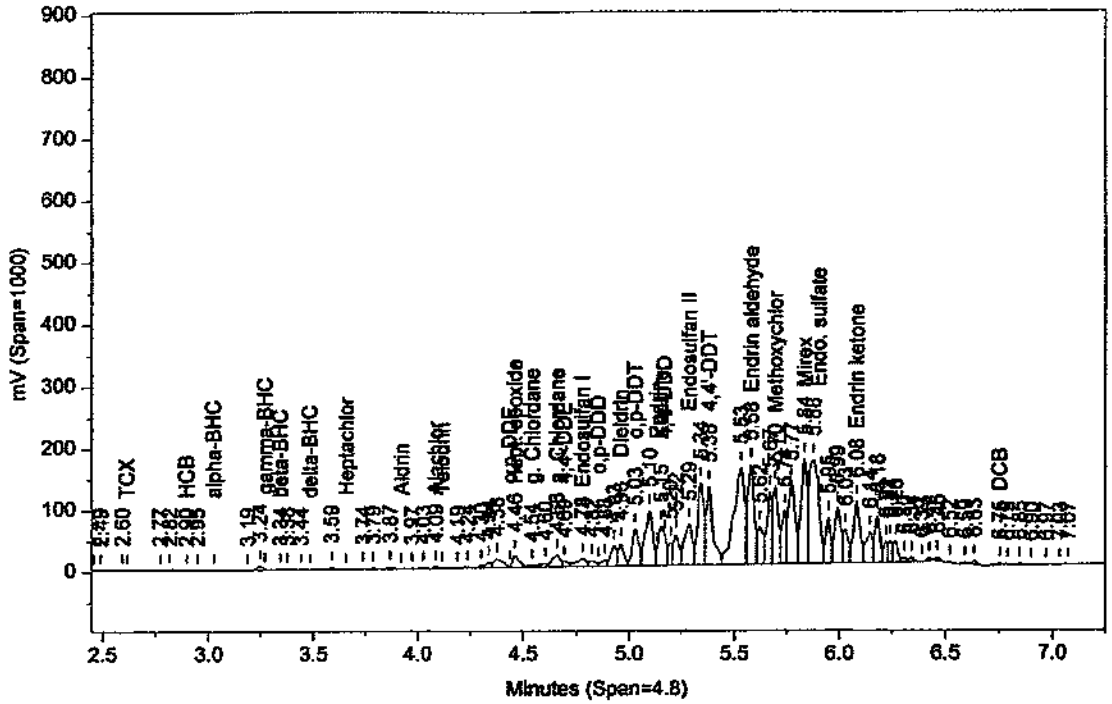
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.896	51	.007	HCB	2.885	149	.047	HCB
.	0	.	alpha-BHC	2.999	88	.018	alpha-BHC
3.341	864	.238	beta-BHC	3.343	264	.139	beta-BHC
.	0	.	delta-BHC	3.572	287	.066	delta-BHC
.	0	.	Heptachlor	3.612	322	.088	Heptachlor
4.087	3745	.	Alachlor	3.693	987	.	Alachlor
.	0	.	Telodrin	4.037	528	.208	Telodrin
4.462	19343	3.09	Hept. epoxide	4.391	2016	.708	Hept. epoxide
4.543	3018	.465	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.544	1472	.751	o,p-DDE
4.659	18519	2.986	a. Chlordane	.	0	.	a. Chlordane
4.693	8743	1.507	4,4'-DDE	4.808	2986	1.031	4,4'-DDE
4.778	11722	2.032	Endosulfan I	4.702	2369	.844	Endosulfan I
4.96	35836	5.709	Dieldrin	4.918	23657	7.511	Dieldrin
.	0	.	o,p-DDD	4.96	810	.477	o,p-DDD
5.029	59337	16.991	o,p-DDT	5.196	7759	4.31	o,p-DDT
5.153	63073	42.376	Kepone	.	0	.	Kepone
.	0	.	Endrin	5.165	8448	3.296	Endrin
.	0	.	4,4'-DDD	5.232	9830	4.403	4,4'-DDD
5.288	66149	17.442	Endosulfan II	5.307	21828	9.771	Endosulfan II
5.381	128162	30.504	4,4'-DDT	.	0	.	4,4'-DDT
5.581	162007	39.622	Endrin aldehyde	5.561	85442	48.739	Endrin aldehyde
5.695	126774	61.088	Methoxychlor	5.954	66784	94.38	Methoxychlor
.	0	.	Endo. sulfate	5.743	39147	22.625	Endo. sulfate
5.836	169863	47.356	Mirex	6.082	23500	19.323	Mirex
6.081	100363	18.391	Endrin ketone	6.107	11169	5.646	Endrin ketone
6.749	2427	.632	DCB	.	0	.	DCB

!
Files:
Area File: C:\CPWIN\DATA1\IP10200.21A
Area File: C:\CPWIN\DATA1\IP10200B.21A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:53:56 PM
File Reported On: 7/19/2011 at 2:54:09 PM

10X REPLOTS

C:\CPWIN\DATA1\1P10200.21R



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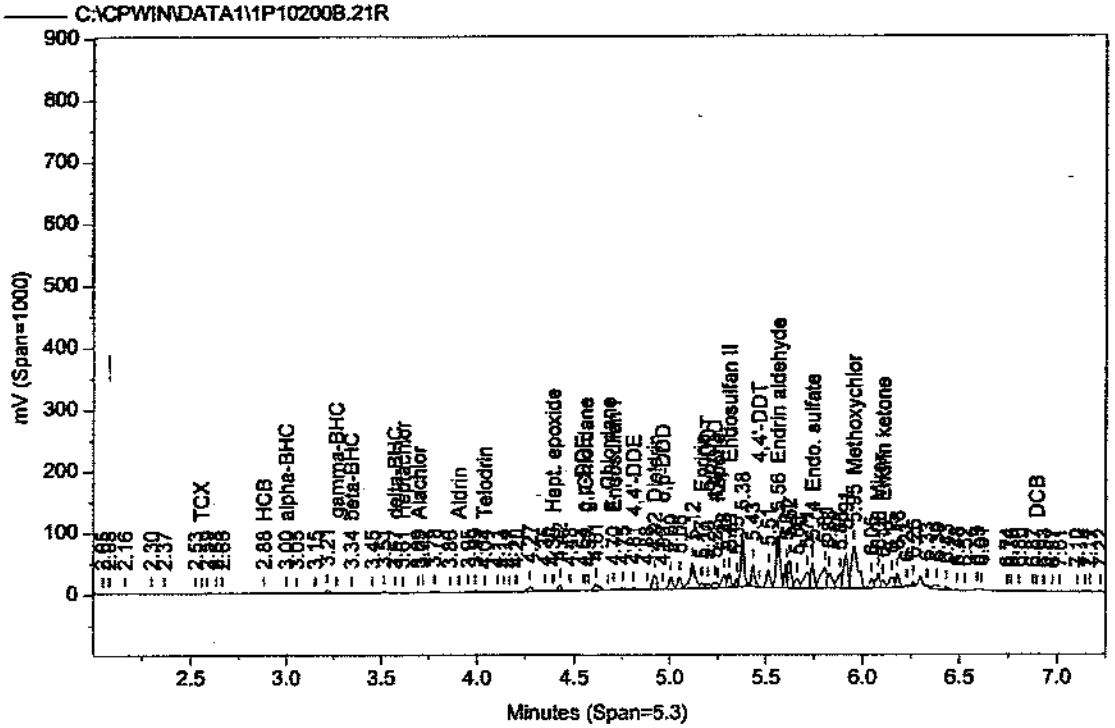


Sample Name: **TOXA51124B AATOXA5AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 02:41:49pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.22R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.054		0.0000	0.000	37.7	0.000	BB	0.019	32.26	0.001
2	0.079		0.0000	0.000	42.6	0.000	BB	0.015	47.44	0.001
3	1.781		0.0000	0.000	330.6	0.003	BV	0.021	262.80	0.005
4	1.809		0.0000	0.000	798.9	0.007	VV	0.027	491.56	0.010
5	1.871		0.0000	0.000	2418.9	0.022	VV	0.063	639.64	0.013
6	1.930		0.0000	0.000	1855.0	0.017	VV	0.051	610.48	0.012
7	2.000		0.0000	0.000	2314.7	0.021	VV	0.049	789.34	0.016
8	2.029		0.0000	0.000	2881.7	0.026	VB	0.053	909.31	0.018
9	2.113		0.0000	0.000	656.1	0.006	BV	0.021	531.85	0.011
10	2.161		0.0000	0.000	1758.0	0.016	VV	0.055	529.07	0.011
11	2.218		0.0000	0.000	972.0	0.009	VV	0.037	434.90	0.009
12	2.260		0.0000	0.000	1073.8	0.010	VB	0.026	695.57	0.014
13	2.328		0.0000	0.000	189.2	0.002	BB	0.030	106.42	0.002
14	2.456		0.0000	0.000	104.7	0.001	BB	0.024	72.56	0.001
15	2.497		0.0000	0.000	87.1	0.001	BB	0.020	71.15	0.001
16	2.596		0.0000	0.000	1265.5	0.011	BB	0.046	455.87	0.009
17	2.756		0.0000	0.000	1096.3	0.010	BB	0.054	341.03	0.007
18	2.860		0.0000	0.000	1105.4	0.010	BV	0.063	293.39	0.006
19	2.936		0.0000	0.000	1749.3	0.016	VV	0.093	312.11	0.006
20	3.117		0.0000	0.000	303.9	0.003	VV	0.058	87.59	0.002
21	3.206		0.0000	0.000	142.9	0.001	VB	0.039	60.55	0.001
22	3.245		0.0000	0.000	22847.5	0.207	BV	0.032	11772.58	0.234
23	3.341 beta-BHC		0.4374	0.078	3071.1	0.028	VV	0.032	1585.84	0.031
24	3.377		0.0000	0.000	1507.1	0.014	VV	0.027	928.90	0.018
25	3.452		0.0000	0.000	1419.6	0.013	VB	0.057	413.24	0.008
26	3.527		0.0000	0.000	64.6	0.001	BB	0.015	69.94	0.001
27	3.587		0.0000	0.000	15151.0	0.137	BV	0.038	6642.97	0.132
28	3.738		0.0000	0.000	5259.7	0.048	VV	0.041	2144.70	0.043
29	3.787		0.0000	0.000	8781.1	0.079	VV	0.048	3039.48	0.060
30	3.870		0.0000	0.000	14126.7	0.128	VB	0.038	6272.53	0.125
31	3.973		0.0000	0.000	889.6	0.008	BB	0.021	690.87	0.014
32	4.025		0.0000	0.000	6299.1	0.057	BV	0.035	3037.91	0.060
33	4.087 Alachlor		0.0000	0.000	16610.1	0.150	VB	0.040	6838.95	0.136
34	4.190		0.0000	0.000	860.8	0.008	BV	0.021	676.77	0.013
35	4.238		0.0000	0.000	10172.9	0.092	VV	0.038	4475.66	0.089
36	4.304		0.0000	0.000	10994.0	0.099	VV	0.027	6866.67	0.136
37	4.339		0.0000	0.000	30224.6	0.273	VV	0.032	15520.72	0.308
38	4.377		0.0000	0.000	78965.5	0.714	VV	0.053	24794.86	0.492
39	4.463 Hept. epoxide		5.4263	0.967	79725.7	0.721	VV	0.039	33966.81	0.674
40	4.543 g. Chlordane		0.7781	0.139	10641.3	0.096	VV	0.035	5050.39	0.100
41	4.604		0.0000	0.000	27596.5	0.250	VV	0.045	10208.62	0.203
42	4.658 a. Chlordane		5.6683	1.010	130375.4	1.179	VV	0.062	35152.47	0.698
43	4.778 Endosulfan I		3.6418	0.649	73840.8	0.668	VV	0.059	21005.13	0.417
44	4.825		0.0000	0.000	36246.8	0.328	VV	0.038	15975.74	0.317
45	4.885		0.0000	0.000	36796.3	0.333	VV	0.036	17246.71	0.342
46	4.928		0.0000	0.000	119527.2	1.081	VV	0.033	60049.88	1.192
47	4.960 Dieldrin		10.7330	1.913	125582.9	1.136	VV	0.031	67372.30	1.338
48	5.029 o,p-DDT		31.8890	5.682	244041.8	2.208	VV	0.037	111362.20	2.211
49	5.097		0.0000	0.000	446889.3	4.043	VV	0.044	169491.10	3.366
50	5.153 Kepone		79.7578	14.212	312160.2	2.824	VV	0.044	118711.40	2.357
51	5.198		0.0000	0.000	79986.5	0.724	VV	0.019	69127.29	1.373
52	5.224		0.0000	0.000	184187.2	1.666	VV	0.033	92390.27	1.835
53	5.288 Endosulfan II		34.5571	6.158	350075.5	3.167	VV	0.045	131060.80	2.603
54	5.342		0.0000	0.000	526304.2	4.761	VV	0.034	257411.60	5.111
55	5.382 4,4'-DDT		60.0703	10.704	528659.2	4.782	VV	0.035	252388.40	5.012
56	5.533		0.0000	0.000	1099096.0	9.942	VV	0.059	309774.90	6.151
57	5.581 Endrin aldehyde		78.3456	13.961	697266.1	6.307	VV	0.036	320337.90	6.361
58	5.623		0.0000	0.000	225222.3	2.037	VV	0.032	116247.90	2.308
59	5.671		0.0000	0.000	351128.1	3.176	VV	0.026	229136.60	4.550
60	5.695 Methoxychlor		119.3162	21.261	445184.7	4.027	VV	0.030	247613.70	4.917
61	5.740		0.0000	0.000	281784.9	2.549	VV	0.028	166188.10	3.300
62	5.775		0.0000	0.000	544683.9	4.927	VV	0.037	248705.20	4.939
63	5.836 Mirex		94.6824	16.872	709321.6	6.416	VV	0.035	339619.80	6.744
64	5.880		0.0000	0.000	1059506.0	9.584	VV	0.051	344360.30	6.838

USPB3 1878

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	5.949		0.0000	0.000	235480.5	2.130	VV	0.028	142181.30	2.823
66	5.992		0.0000	0.000	367962.0	3.329	VV	0.035	175153.50	3.478
67	6.028		0.0000	0.000	171306.1	1.550	VV	0.027	104118.80	2.068
68	6.082	Endrin ketone	34.7514	6.192	421814.4	3.816	VV	0.037	189641.50	3.766
69	6.145		0.0000	0.000	212925.7	1.926	VV	0.037	96540.68	1.917
70	6.179		0.0000	0.000	254074.2	2.298	VV	0.028	149057.60	2.960
71	6.221		0.0000	0.000	91472.6	0.827	VV	0.024	64812.40	1.287
72	6.239		0.0000	0.000	84730.1	0.766	VV	0.022	64909.64	1.289
73	6.264		0.0000	0.000	96361.9	0.872	VV	0.024	66219.20	1.315
74	6.305		0.0000	0.000	21555.2	0.195	VV	0.026	14058.25	0.279
75	6.341		0.0000	0.000	24409.5	0.221	VV	0.029	14155.68	0.281
76	6.389		0.0000	0.000	2526.0	0.023	VB	0.018	2380.23	0.047
77	6.425		0.0000	0.000	11596.5	0.105	BB	0.020	9442.00	0.187
78	6.462		0.0000	0.000	17178.0	0.155	BB	0.024	12127.84	0.241
79	6.520		0.0000	0.000	5235.4	0.047	BB	0.021	4125.56	0.082
80	6.590		0.0000	0.000	6995.6	0.063	BB	0.022	5352.25	0.106
81	6.633		0.0000	0.000	16226.0	0.147	BB	0.025	10747.84	0.213
82	6.696		0.0000	0.000	1967.2	0.018	BB	0.028	1166.18	0.023
83	6.750	DCB	1.1312	0.202	6709.2	0.061	BB	0.026	4346.23	0.086
84	6.790		0.0000	0.000	2828.9	0.026	BB	0.022	2137.52	0.042
85	6.847		0.0000	0.000	7001.3	0.063	BB	0.027	4274.54	0.085
86	6.903		0.0000	0.000	1486.5	0.013	BB	0.037	674.68	0.013
87	6.971		0.0000	0.000	1706.3	0.015	BB	0.036	784.80	0.016
88	7.036		0.0000	0.000	766.8	0.007	BB	0.019	679.84	0.013
89	7.077		0.0000	0.000	1619.3	0.015	BB	0.026	1029.00	0.020
90	7.141		0.0000	0.000	190.0	0.002	BB	0.024	131.20	0.003
91	7.184		0.0000	0.000	326.5	0.003	BB	0.026	207.03	0.004
92	7.355		0.0000	0.000	13960.5	0.126	BB	0.117	1985.91	0.039

Total Area = 11054670.0, Total Amount = 561.186, Total Height = 5035943.0, Sample Units = PPB

Sample Name: **TOXA51124B AATOXA5AA ICAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 02:41:49pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.22R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.079		0.0000	0.000	86.9	0.003	BB	0.037	39.55	0.002
2	1.951		0.0000	0.000	836.6	0.030	BV	0.046	303.79	0.017
3	1.997		0.0000	0.000	750.8	0.027	VV	0.045	275.65	0.015
4	2.048		0.0000	0.000	486.2	0.018	VV	0.027	296.98	0.016
5	2.079		0.0000	0.000	403.5	0.015	VB	0.027	251.75	0.014
6	2.150		0.0000	0.000	133.4	0.005	BB	0.025	90.48	0.005
7	2.293		0.0000	0.000	98.4	0.004	BB	0.028	57.84	0.003
8	2.369		0.0000	0.000	204.5	0.007	BB	0.050	67.95	0.004
9	2.477		0.0000	0.000	112.6	0.004	BB	0.042	44.43	0.002
10	2.550 TCX		0.0266	0.006	65.5	0.002	BB	0.018	61.26	0.003
11	2.607		0.0000	0.000	121.8	0.004	BB	0.040	50.32	0.003
12	2.668		0.0000	0.000	167.8	0.006	BB	0.017	165.27	0.009
13	2.818		0.0000	0.000	246.3	0.009	BB	0.031	132.80	0.007
14	2.900 HCB		0.0115	0.003	40.9	0.001	BB	0.019	36.07	0.002
15	2.923		0.0000	0.000	70.5	0.003	BB	0.021	56.19	0.003
16	3.067		0.0000	0.000	36.7	0.001	BB	0.014	42.20	0.002
17	3.215		0.0000	0.000	12087.3	0.438	BB	0.025	7980.96	0.435
18	3.343 beta-BHC		0.1663	0.040	637.2	0.023	BV	0.034	315.55	0.017
19	3.402		0.0000	0.000	144.7	0.005	VV	0.029	82.23	0.004
20	3.451		0.0000	0.000	444.9	0.016	VB	0.029	258.38	0.014
21	3.514		0.0000	0.000	6717.6	0.244	BV	0.029	3923.63	0.214
22	3.612 Heptachlor		0.1277	0.030	902.7	0.033	VV	0.032	469.89	0.026
23	3.677 Alachlor		0.0000	0.000	2168.1	0.079	VV	0.026	1372.04	0.075
24	3.716		0.0000	0.000	4394.5	0.159	VV	0.044	1672.83	0.091
25	3.775		0.0000	0.000	8324.7	0.302	VV	0.033	4162.19	0.227
26	3.859		0.0000	0.000	1129.7	0.041	VB	0.035	539.65	0.029
27	3.951		0.0000	0.000	1872.0	0.068	BV	0.025	1239.40	0.068
28	3.990		0.0000	0.000	5412.4	0.196	VB	0.025	3574.66	0.195
29	4.106		0.0000	0.000	2427.8	0.088	BV	0.025	1606.38	0.088
30	4.136		0.0000	0.000	518.7	0.019	VB	0.017	518.81	0.028
31	4.169		0.0000	0.000	511.8	0.019	BV	0.017	505.14	0.028
32	4.203		0.0000	0.000	4027.8	0.146	VV	0.037	1815.11	0.099
33	4.275		0.0000	0.000	23816.2	0.864	VV	0.030	13353.74	0.728
34	4.347		0.0000	0.000	9552.8	0.346	VV	0.036	4411.74	0.240
35	4.391 Hept. epoxide		1.3007	0.309	4470.7	0.162	VV	0.020	3700.95	0.202
36	4.426		0.0000	0.000	22824.6	0.828	VV	0.022	17031.75	0.928
37	4.476		0.0000	0.000	6046.8	0.219	VV	0.028	3649.61	0.199
38	4.545 o,p-DDE		1.3002	0.309	4177.1	0.151	VV	0.027	2547.85	0.139
39	4.575		0.0000	0.000	2182.7	0.079	VV	0.017	2122.03	0.116
40	4.611		0.0000	0.000	43991.1	1.595	VB	0.039	18602.56	1.014
41	4.704 Endosulfan I		1.4696	0.349	7147.7	0.259	BV	0.029	4127.12	0.225
42	4.753		0.0000	0.000	10806.1	0.392	VB	0.034	5265.23	0.287
43	4.810 4,4'-DDE		1.7452	0.415	11746.5	0.426	BB	0.039	5052.25	0.275
44	4.876		0.0000	0.000	3397.6	0.123	BB	0.017	3252.12	0.177
45	4.917 Dieldrin		13.9462	3.315	63085.7	2.287	BB	0.024	43928.94	2.394
46	4.961 o,p-DDD		0.7630	0.181	980.2	0.036	BB	0.013	1297.15	0.071
47	5.004		0.0000	0.000	49702.5	1.802	BV	0.023	36209.07	1.973
48	5.051		0.0000	0.000	48951.8	1.775	VV	0.024	34687.11	1.890
49	5.119		0.0000	0.000	156473.7	5.674	VV	0.034	76729.98	4.181
50	5.165 Endrin		6.0728	1.443	19352.3	0.702	VV	0.021	15567.97	0.848
51	5.196 o,p-DDT		7.9888	1.899	19571.8	0.710	VV	0.023	14382.87	0.784
52	5.232 4,4'-DDD		8.1167	1.929	31285.9	1.134	VV	0.029	18122.38	0.988
53	5.279		0.0000	0.000	51746.1	1.876	VV	0.023	37657.32	2.052
54	5.307 Endosulfan II		18.2315	4.333	45367.6	1.645	VB	0.019	40727.66	2.219
55	5.347		0.0000	0.000	25020.9	0.907	BV	0.018	23685.34	1.291
56	5.376		0.0000	0.000	200758.3	7.280	VB	0.021	159595.20	8.697
57	5.430		0.0000	0.000	81810.1	2.966	BB	0.021	65261.61	3.556
58	5.511		0.0000	0.000	75450.2	2.736	BV	0.023	54154.53	2.951
59	5.561 Endrin aldehyde		91.1173	21.657	226764.3	8.222	VV	0.024	159733.40	8.704
60	5.608		0.0000	0.000	75257.4	2.729	VV	0.017	72696.95	3.962
61	5.621		0.0000	0.000	110760.5	4.016	VV	0.022	82954.19	4.520
62	5.662		0.0000	0.000	47420.7	1.719	VV	0.028	28389.33	1.547
63	5.715		0.0000	0.000	102740.7	3.725	VV	0.035	48562.77	2.646
64	5.743 Endo. sulfate		42.1697	10.023	86994.0	3.154	VV	0.020	72963.77	3.976

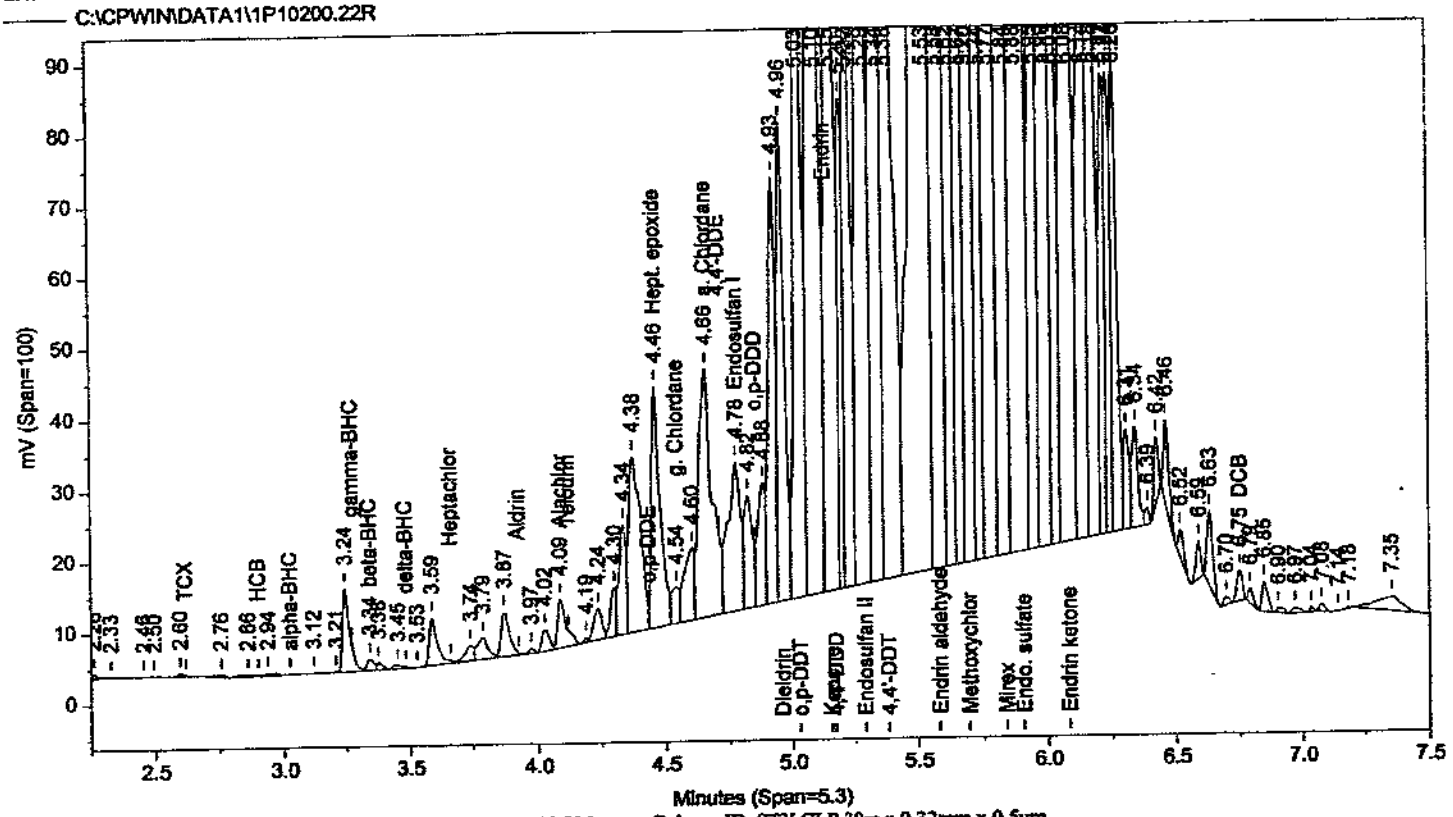
USPB3 1872

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	5.807		0.0000	0.000	139197.0	5.047	VV	0.036	63775.77	3.475
66	5.830		0.0000	0.000	72215.7	2.619	VV	0.026	45820.23	2.497
67	5.884		0.0000	0.000	61167.2	2.218	VV	0.024	41900.05	2.283
68	5.915		0.0000	0.000	160459.4	5.818	VV	0.025	106525.20	5.805
69	5.954	Methoxychlor	179.3708	42.634	286703.5	10.396	VB	0.038	126925.60	6.917
70	6.047		0.0000	0.000	36303.8	1.316	BV	0.022	27296.38	1.487
71	6.082	Mirex	36.4796	8.671	61397.4	2.226	VV	0.023	44365.96	2.418
72	6.106	Endrin ketone	10.3181	2.452	23594.4	0.856	VV	0.019	20410.56	1.112
73	6.151		0.0000	0.000	53775.0	1.950	VV	0.027	32832.32	1.789
74	6.180		0.0000	0.000	50575.6	1.834	VV	0.020	43123.08	2.350
75	6.228		0.0000	0.000	8339.7	0.302	VB	0.023	5929.09	0.323
76	6.264		0.0000	0.000	11759.8	0.426	BB	0.015	13022.49	0.710
78	6.334		0.0000	0.000	4338.0	0.157	BB	0.013	5645.82	0.308
79	6.372		0.0000	0.000	11623.3	0.421	BV	0.016	12311.28	0.671
80	6.387		0.0000	0.000	16794.5	0.609	VB	0.020	14003.39	0.763
81	6.433		0.0000	0.000	15961.8	0.579	BB	0.026	10267.27	0.559
82	6.485		0.0000	0.000	3766.9	0.137	BB	0.016	3938.10	0.215
83	6.527		0.0000	0.000	984.9	0.036	BB	0.017	939.43	0.051
84	6.546		0.0000	0.000	362.0	0.013	BB	0.011	554.18	0.030
85	6.588		0.0000	0.000	3193.5	0.116	BB	0.016	3307.30	0.180
86	6.609		0.0000	0.000	1260.4	0.046	BB	0.010	2105.23	0.115
87	6.741		0.0000	0.000	553.2	0.020	BB	0.020	466.83	0.025
88	6.766		0.0000	0.000	276.2	0.010	BB	0.011	402.84	0.022
89	6.803		0.0000	0.000	2709.5	0.098	BB	0.022	2066.73	0.113
90	6.839		0.0000	0.000	158.2	0.006	BB	0.009	296.55	0.016
91	6.875		0.0000	0.000	1151.7	0.042	BB	0.020	941.16	0.051
92	6.931		0.0000	0.000	1196.7	0.043	BB	0.016	1230.07	0.067
93	6.974		0.0000	0.000	605.6	0.022	BB	0.018	575.04	0.031
94	7.015		0.0000	0.000	622.6	0.023	BB	0.025	418.22	0.023
95	7.106		0.0000	0.000	313.3	0.011	BB	0.028	188.20	0.010
96	7.142		0.0000	0.000	79.0	0.003	BB	0.014	97.03	0.005
97	7.170		0.0000	0.000	325.0	0.012	BB	0.019	279.10	0.015
98	7.229		0.0000	0.000	625.0	0.023	BB	0.021	507.04	0.028
99	7.331		0.0000	0.000	63.4	0.002	BB	0.019	57.07	0.003
100	7.363		0.0000	0.000	112.9	0.004	BB	0.027	70.48	0.004
101	7.433		0.0000	0.000	37.7	0.001	BB	0.011	56.80	0.003

Total Area = 2757853.0, Total Amount = 420.722, Total Height = 1835086.0, Sample Units = PPB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.22R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 2:34:19 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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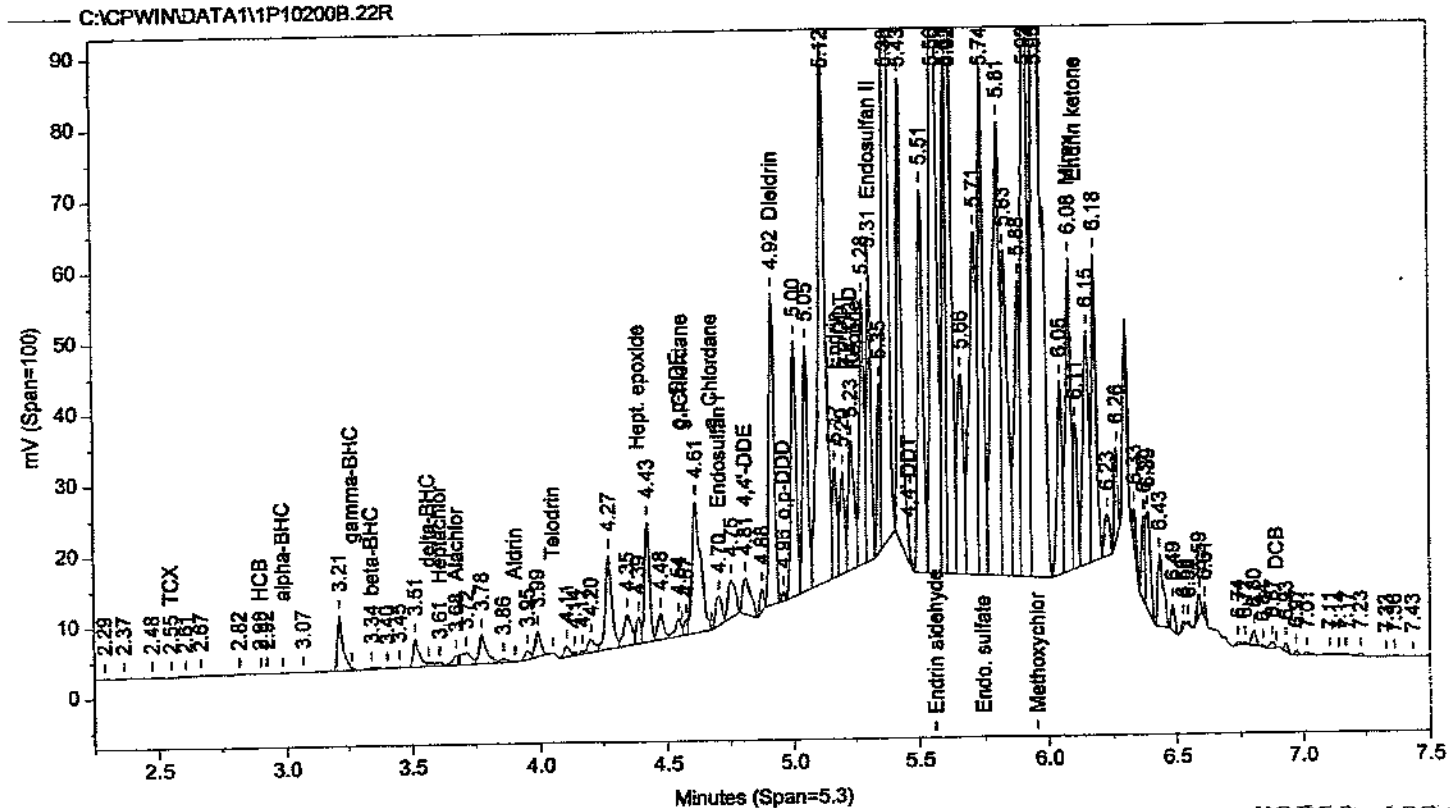

Instrument ID: CP10--H9191B Injected On: 7/19/2011 2:34:19 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
.	0	.	TCX	2.55	61	.027	TCX
.	0	.	HCB	2.9	36	.011	HCB
3.341	1586	.437	beta-BHC	3.343	316	.166	beta-BHC
.	0	.	Heptachlor	3.612	470	.128	Heptachlor
4.087	6839	.	Alachlor	3.677	1372	.	Alachlor
4.463	33967	5.426	Hept. epoxide	4.391	3701	1.301	Hept. epoxide
4.543	5050	.778	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.545	2548	1.3	o,p-DDE
4.658	35152	5.668	a. Chlordane	.	0	.	a. Chlordane
4.778	21005	3.642	Endosulfan I	4.704	4127	1.47	Endosulfan I
.	0	.	4,4'-DDE	4.81	5052	1.745	4,4'-DDE
4.96	67372	10.733	Dieldrin	4.917	43929	13.946	Dieldrin
.	0	.	o,p-DDD	4.961	1297	.763	o,p-DDD
5.029	111362	31.889	o,p-DDT	5.196	14383	7.989	o,p-DDT
5.153	118711	79.758	Kepone	.	0	.	Kepone
.	0	.	Endrin	5.165	15568	6.073	Endrin
.	0	.	4,4'-DDD	5.232	18122	8.117	4,4'-DDD
5.288	131061	34.557	Endosulfan II	5.307	40728	18.231	Endosulfan II
5.382	252388	60.07	4,4'-DDT	.	0	.	4,4'-DDT
5.581	320338	78.346	Endrin aldehyde	5.561	159733	91.117	Endrin aldehyde
5.695	247614	119.316	Methoxychlor	5.954	126926	179.371	Methoxychlor
.	0	.	Endo. sulfate	5.743	72964	42.17	Endo. sulfate
5.836	339620	94.682	Mirex	6.082	44366	36.48	Mirex
6.082	189642	34.751	Endrin ketone	6.106	20411	10.318	Endrin ketone
6.75	4346	1.131	DCB	.	0	.	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.22A
Area File: C:\CPWIN\DATA1\1P10200B.22A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 2:54:24 PM
File Reported On: 7/19/2011 at 2:54:36 PM

10X REPLOTS

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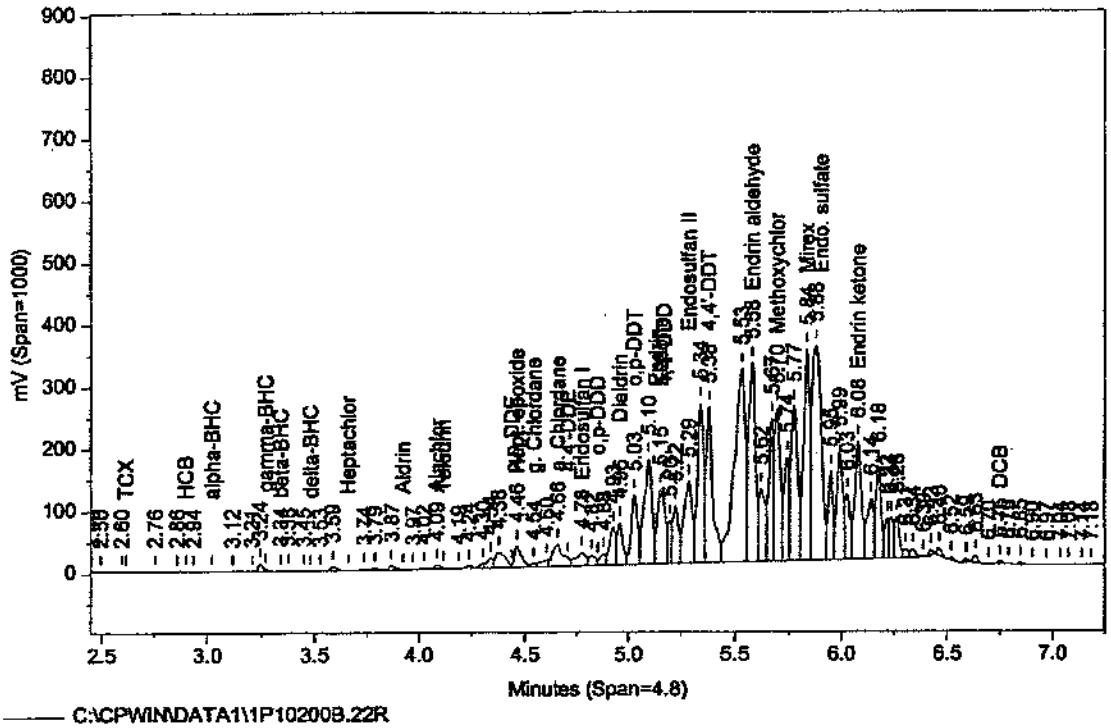

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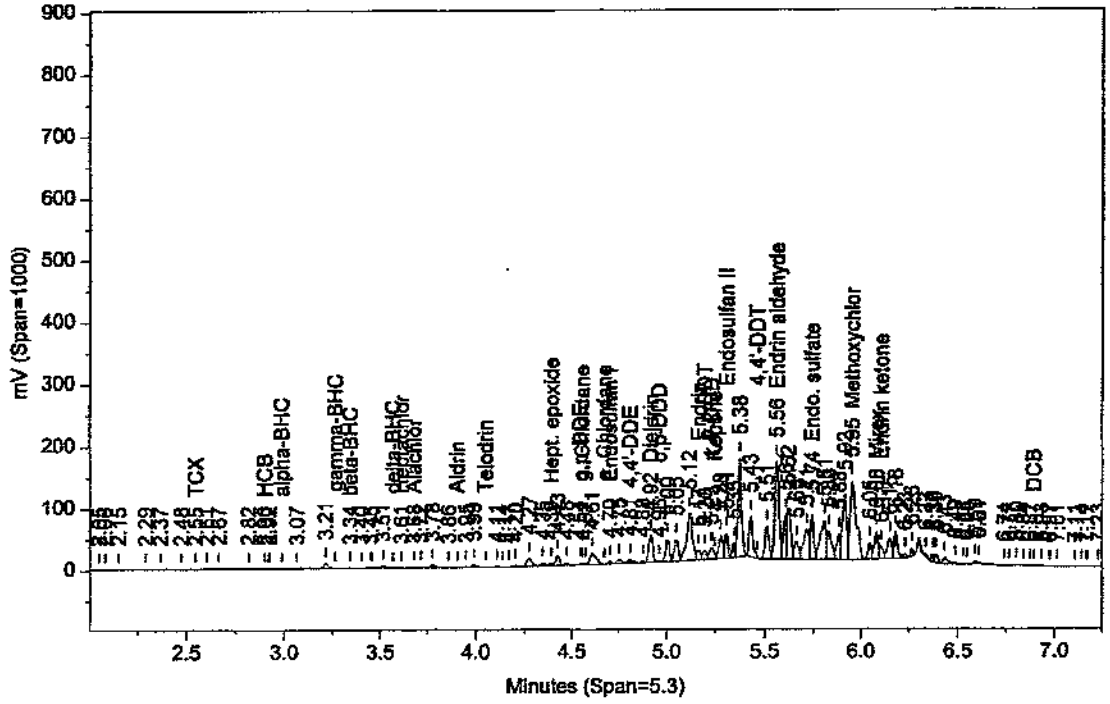


Sample Name: **ICTXX1124B FUICTXXFU CCAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 03:04:30pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.23R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

Not Used
See Reintegration

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.782		0.0000	0.000	412.8	0.016	BV	0.023	304.34	0.027
2	1.809		0.0000	0.000	2392.5	0.093	VV	0.091	437.89	0.039
3	1.944		0.0000	0.000	1196.6	0.046	VV	0.044	449.10	0.040
4	1.980		0.0000	0.000	2111.3	0.082	VV	0.060	586.51	0.053
5	2.060		0.0000	0.000	1556.1	0.060	VB	0.042	622.83	0.056
6	2.110		0.0000	0.000	2544.7	0.099	BV	0.048	890.52	0.080
7	2.259		0.0000	0.000	2558.5	0.099	VB	0.027	1596.48	0.144
8	2.319		0.0000	0.000	100.0	0.004	BB	0.023	71.75	0.006
9	2.373		0.0000	0.000	397.9	0.015	BB	0.033	203.06	0.018
10	2.552		0.0000	0.000	37.3	0.001	BB	0.011	56.18	0.005
11	2.651		0.0000	0.000	377.5	0.015	BB	0.043	147.38	0.013
12	2.714		0.0000	0.000	99.1	0.004	BB	0.014	121.47	0.011
13	2.822		0.0000	0.000	783.8	0.030	BV	0.043	300.54	0.027
14	2.937		0.0000	0.000	790.2	0.031	VB	0.084	157.71	0.014
15	3.022	alpha-BHC	0.0873	0.074	1078.6	0.042	BV	0.024	742.24	0.067
16	3.162		0.0000	0.000	103.9	0.004	VB	0.019	90.65	0.008
17	3.256	gamma-BHC	0.0841	0.071	1024.4	0.040	BV	0.027	641.28	0.058
18	3.335	beta-BHC	0.0383	0.033	116.0	0.004	VV	0.014	138.97	0.013
19	3.364		0.0000	0.000	410.0	0.016	VB	0.037	182.77	0.016
20	3.448		0.0000	0.000	340.8	0.013	BB	0.035	161.31	0.015
21	3.528		0.0000	0.000	165.1	0.006	BV	0.015	184.80	0.017
22	3.553		0.0000	0.000	493.1	0.019	VV	0.022	370.21	0.033
23	3.584		0.0000	0.000	1085.3	0.042	VV	0.033	552.66	0.050
24	3.654	Heptachlor	0.0514	0.044	735.1	0.029	VV	0.035	349.68	0.032
25	3.702		0.0000	0.000	984.7	0.038	VV	0.037	445.54	0.040
26	3.788		0.0000	0.000	1292.8	0.050	VV	0.039	559.59	0.050
27	3.832		0.0000	0.000	310.3	0.012	VV	0.024	218.88	0.020
28	3.921	Aldrin	0.1688	0.143	3583.3	0.139	VV	0.052	1141.34	0.103
29	3.966		0.0000	0.000	1269.7	0.049	VV	0.028	742.70	0.067
30	4.029		0.0000	0.000	2645.7	0.103	VV	0.037	1176.74	0.106
31	4.087	Alachlor	0.0000	0.000	8804.7	0.342	VV	0.049	2973.94	0.268
32	4.216		0.0000	0.000	9358.4	0.363	VV	0.070	2237.42	0.202
33	4.302		0.0000	0.000	10668.4	0.414	VV	0.041	4298.97	0.388
34	4.339		0.0000	0.000	3756.6	0.146	VV	0.022	2783.19	0.251
35	4.372		0.0000	0.000	25856.9	1.003	VV	0.058	7471.60	0.674
36	4.457	Hept. epoxide	0.6378	0.542	7192.2	0.279	VV	0.030	3992.35	0.360
37	4.481		0.0000	0.000	7396.6	0.287	VV	0.028	4357.75	0.393
38	4.537	g. Chlordane	1.0318	0.876	18934.2	0.735	VV	0.047	6696.61	0.604
39	4.575		0.0000	0.000	15391.5	0.597	VV	0.040	6463.90	0.583
40	4.653	a. Chlordane	2.2342	1.897	36085.3	1.400	VV	0.043	13855.91	1.249
41	4.689		0.0000	0.000	13974.8	0.542	VV	0.031	7534.05	0.679
42	4.776	Endosulfan I	2.3191	1.969	42372.7	1.644	VV	0.053	13376.28	1.206
43	4.816		0.0000	0.000	31730.0	1.231	VV	0.040	13285.28	1.198
44	4.875		0.0000	0.000	31218.4	1.211	VV	0.039	13473.50	1.215
45	4.928		0.0000	0.000	54406.9	2.111	VV	0.037	24202.46	2.182
46	4.956	Dieldrin	3.1022	2.635	36697.6	1.424	VV	0.031	19473.13	1.756
47	5.027	o,p-DDT	8.5956	7.300	61391.3	2.382	VV	0.034	30017.36	2.707
48	5.076		0.0000	0.000	97606.1	3.787	VV	0.051	31965.41	2.883
49	5.152	Kepone	26.0720	22.141	96850.3	3.758	VV	0.042	38805.50	3.499
50	5.197		0.0000	0.000	44996.9	1.746	VV	0.026	28368.21	2.558
51	5.227		0.0000	0.000	54425.7	2.112	VV	0.033	27641.47	2.493
52	5.287	Endosulfan II	8.9018	7.560	95412.0	3.702	VV	0.047	33760.86	3.044
53	5.379	4,4'-DDT	11.9970	10.188	195247.9	7.575	VV	0.065	50406.20	4.545
54	5.494		0.0000	0.000	100613.0	3.904	VV	0.052	32207.51	2.904
55	5.536		0.0000	0.000	119945.4	4.654	VV	0.033	60813.35	5.484
56	5.579		0.0000	0.000	156155.5	6.059	VV	0.040	64982.39	5.860
57	5.622		0.0000	0.000	64609.7	2.507	VV	0.034	31879.26	2.875
58	5.670		0.0000	0.000	71579.4	2.777	VV	0.027	44237.67	3.989
59	5.694	Methoxychlor	24.0879	20.456	95991.0	3.724	VV	0.032	49988.96	4.508
60	5.736		0.0000	0.000	33590.8	1.303	VV	0.022	25213.46	2.274
61	5.773		0.0000	0.000	128151.7	4.972	VV	0.038	55817.84	5.033
62	5.835	Mirex	18.8636	16.020	152715.5	5.925	VV	0.038	67662.60	6.102
63	5.866		0.0000	0.000	180968.6	7.021	VV	0.052	58428.79	5.269
64	5.948		0.0000	0.000	47201.2	1.831	VV	0.030	26532.66	2.393

USF83 1977

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	5.991		0.0000	0.000	49542.7	1.922	VV	0.031	26731.92	2.411
66	6.025		0.0000	0.000	37260.7	1.446	VV	0.030	20382.75	1.838
67	6.080	Endria ketone	9.1404	7.762	107830.4	4.184	VV	0.036	49880.07	4.498
68	6.142		0.0000	0.000	37938.9	1.472	VV	0.037	17297.98	1.560
69	6.178		0.0000	0.000	55049.0	2.136	VV	0.028	32516.19	2.932
70	6.239		0.0000	0.000	54472.9	2.113	VV	0.060	15238.99	1.374
71	6.303		0.0000	0.000	6445.4	0.250	VV	0.025	4217.24	0.380
72	6.340		0.0000	0.000	8761.2	0.340	VB	0.032	4586.56	0.414
73	6.423		0.0000	0.000	2112.1	0.082	BB	0.020	1748.73	0.158
74	6.460		0.0000	0.000	3768.7	0.146	BB	0.023	2724.56	0.246
75	6.518		0.0000	0.000	3105.9	0.121	BB	0.027	1905.05	0.172
76	6.588		0.0000	0.000	1716.3	0.067	BB	0.018	1571.12	0.142
77	6.627		0.0000	0.000	4825.1	0.187	BB	0.025	3250.14	0.293
78	6.693		0.0000	0.000	400.4	0.016	BB	0.024	275.40	0.025
79	6.750	DCB	0.3399	0.289	2221.9	0.086	BB	0.028	1305.83	0.118
80	6.786		0.0000	0.000	2229.2	0.086	BB	0.025	1463.06	0.132
81	6.841		0.0000	0.000	2574.3	0.100	BB	0.025	1735.25	0.156
82	6.970		0.0000	0.000	254.0	0.010	BB	0.038	111.07	0.010
83	6.986		0.0000	0.000	51.4	0.002	BB	0.011	76.85	0.007
84	7.030		0.0000	0.000	861.6	0.033	BB	0.022	656.59	0.059
85	7.077		0.0000	0.000	523.4	0.020	BB	0.024	360.86	0.033
86	7.203		0.0000	0.000	236.2	0.009	BB	0.030	133.06	0.012
87	7.356		0.0000	0.000	12907.4	0.501	BB	0.112	1915.81	0.173

Not Used
See Reintegration

Total Area = 2577383.0, Total Amount = 117.753, Total Height = 1108936.0, Sample Units = PPB

Sample Name: **ICTXX1124B FUICTXXFU CCAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 03:04:30pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.23R**
Method File: C:\CPWIN\DATA1\PESTDLMET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.782		0.0000	0.000	412.8	0.016	BV	0.023	304.34	0.026
2	1.809		0.0000	0.000	2392.5	0.093	VV	0.091	437.89	0.038
3	1.944		0.0000	0.000	1196.6	0.046	VV	0.044	449.10	0.039
4	1.980		0.0000	0.000	2111.3	0.082	VV	0.060	586.51	0.051
5	2.060		0.0000	0.000	1556.1	0.060	VB	0.042	622.83	0.054
6	2.110		0.0000	0.000	2544.7	0.099	BV	0.048	890.52	0.077
7	2.259		0.0000	0.000	2558.5	0.099	VB	0.027	1596.48	0.139
8	2.319		0.0000	0.000	100.0	0.004	BB	0.023	71.75	0.006
9	2.373		0.0000	0.000	397.9	0.015	BB	0.033	203.06	0.018
10	2.552		0.0000	0.000	37.3	0.001	BB	0.011	56.18	0.005
11	2.651		0.0000	0.000	377.5	0.015	BB	0.043	147.38	0.013
12	2.714		0.0000	0.000	99.1	0.004	BB	0.014	121.47	0.011
13	2.822		0.0000	0.000	783.8	0.030	BV	0.043	300.54	0.026
14	2.937		0.0000	0.000	790.2	0.031	VB	0.084	157.71	0.014
15	3.022	alpha-BHC	0.0873	0.074	1078.6	0.042	BV	0.024	742.24	0.065
16	3.162		0.0000	0.000	103.9	0.004	VB	0.019	90.65	0.008
17	3.256	gamma-BHC	0.0841	0.071	1024.4	0.040	BV	0.027	641.28	0.056
18	3.335	beta-BHC	0.0383	0.033	116.0	0.004	VV	0.014	138.97	0.012
19	3.364		0.0000	0.000	410.0	0.016	VB	0.037	182.77	0.016
20	3.448		0.0000	0.000	340.8	0.013	BB	0.035	161.31	0.014
21	3.528		0.0000	0.000	165.1	0.006	BV	0.015	184.80	0.016
22	3.553		0.0000	0.000	493.1	0.019	VV	0.022	370.21	0.032
23	3.584		0.0000	0.000	1085.3	0.042	VV	0.033	552.66	0.048
24	3.654	Heptachlor	0.0514	0.044	735.1	0.029	VV	0.035	349.68	0.030
25	3.702		0.0000	0.000	984.7	0.038	VV	0.037	445.54	0.039
26	3.788		0.0000	0.000	1292.8	0.050	VV	0.039	559.59	0.049
27	3.832		0.0000	0.000	310.3	0.012	VV	0.024	218.88	0.019
28	3.921	Aldrin	0.1688	0.143	3583.3	0.139	VV	0.052	1141.34	0.099
29	3.966		0.0000	0.000	1269.7	0.049	VV	0.028	742.70	0.065
30	4.029		0.0000	0.000	2645.7	0.103	VV	0.037	1176.74	0.102
31	4.087	Alachlor	0.0000	0.000	8804.7	0.342	VV	0.049	2973.94	0.258
32	4.216		0.0000	0.000	9358.4	0.363	VV	0.070	2237.42	0.194
33	4.302		0.0000	0.000	10668.4	0.414	VV	0.041	4298.97	0.374
34	4.339		0.0000	0.000	3756.6	0.146	VV	0.022	2783.19	0.242
35	4.372		0.0000	0.000	25856.9	1.003	VV	0.058	7471.60	0.649
36	4.457	Hept. epoxide	0.6378	0.542	7192.2	0.279	VV	0.030	3992.35	0.347
37	4.481		0.0000	0.000	7396.6	0.287	VV	0.028	4357.75	0.379
38	4.537	g. Chlordane	1.0318	0.876	18934.2	0.735	VV	0.047	6696.61	0.582
39	4.575		0.0000	0.000	15391.5	0.597	VV	0.040	6463.90	0.562
40	4.653	a. Chlordane	2.2342	1.897	36085.3	1.400	VV	0.043	13855.91	1.204
41	4.689		0.0000	0.000	13974.8	0.542	VV	0.031	7534.05	0.655
42	4.776	Endosulfan I	2.3191	1.969	42372.7	1.644	VV	0.053	13376.28	1.163
43	4.816		0.0000	0.000	31730.0	1.231	VV	0.040	13285.28	1.155
44	4.875		0.0000	0.000	31218.4	1.211	VV	0.039	13473.50	1.171
45	4.928		0.0000	0.000	54406.9	2.111	VV	0.037	24202.46	2.103
46	4.956	Dieldrin	3.1022	2.635	36697.6	1.424	VV	0.031	19473.13	1.692
47	5.027	o,p-DDT	8.5956	7.300	61391.3	2.382	VV	0.034	30017.36	2.609
48	5.076		0.0000	0.000	97606.1	3.787	VV	0.051	31965.41	2.778
49	5.152	Kepone	26.0720	22.141	96850.3	3.758	VV	0.042	38805.50	3.373
50	5.197		0.0000	0.000	44996.9	1.746	VV	0.026	28368.21	2.465
51	5.227		0.0000	0.000	54425.7	2.112	VV	0.033	27641.47	2.402
52	5.287	Endosulfan II	8.9018	7.560	95412.0	3.702	VV	0.047	33760.86	2.934
53	5.363		0.0000	0.000	85555.9	3.319	VV	0.034	41679.45	3.622
54	5.379	4,4'-DDT	11.9970	10.188	109692.0	4.256	VV	0.036	50406.20	4.381
55	5.494		0.0000	0.000	100613.0	3.904	VV	0.052	32207.51	2.799
56	5.536		0.0000	0.000	119945.4	4.654	VV	0.033	60813.35	5.285
57	5.579		0.0000	0.000	156155.5	6.059	VV	0.040	64982.39	5.648
58	5.622		0.0000	0.000	64609.7	2.507	VV	0.034	31879.26	2.771
59	5.670		0.0000	0.000	71579.4	2.777	VV	0.027	44237.67	3.845
60	5.694	Methoxychlor	24.0879	20.456	95991.0	3.724	VV	0.032	49988.96	4.345
61	5.736		0.0000	0.000	33590.8	1.303	VV	0.022	25213.46	2.191
62	5.773		0.0000	0.000	128151.7	4.972	VV	0.038	55817.84	4.851
63	5.835	Mirex	18.8636	16.020	152715.5	5.925	VV	0.038	67662.60	5.881
64	5.866		0.0000	0.000	180968.6	7.021	VV	0.052	58428.79	5.078

USF63 1879

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	5.948		0.0000	0.000	47201.2	1.831	VV	0.030	26532.66	2.306
66	5.991		0.0000	0.000	49542.7	1.922	VV	0.031	26731.92	2.323
67	6.025		0.0000	0.000	37260.7	1.446	VV	0.030	20382.75	1.771
68	6.080	Endrin ketone	9.1404	7.762	107830.4	4.184	VV	0.036	49880.07	4.335
69	6.142		0.0000	0.000	37938.9	1.472	VV	0.037	17297.98	1.503
70	6.178		0.0000	0.000	55049.0	2.136	VV	0.028	32516.19	2.826
71	6.239		0.0000	0.000	54472.9	2.113	VV	0.060	15238.99	1.324
72	6.303		0.0000	0.000	6445.4	0.250	VV	0.025	4217.24	0.367
73	6.340		0.0000	0.000	8761.2	0.340	VB	0.032	4586.56	0.399
74	6.423		0.0000	0.000	2112.1	0.082	BB	0.020	1748.73	0.152
75	6.460		0.0000	0.000	3768.7	0.146	BB	0.023	2724.56	0.237
76	6.518		0.0000	0.000	3105.9	0.121	BB	0.027	1905.05	0.166
77	6.588		0.0000	0.000	1716.3	0.067	BB	0.018	1571.12	0.137
78	6.627		0.0000	0.000	4825.1	0.187	BB	0.025	3250.14	0.282
79	6.693		0.0000	0.000	400.4	0.016	BB	0.024	275.40	0.024
80	6.750	DCB	0.3399	0.289	2221.9	0.086	BB	0.028	1305.83	0.113
81	6.786		0.0000	0.000	2229.2	0.086	BB	0.025	1463.06	0.127
82	6.841		0.0000	0.000	2574.3	0.100	BB	0.025	1735.25	0.151
83	6.970		0.0000	0.000	254.0	0.010	BB	0.038	111.07	0.010
84	6.986		0.0000	0.000	51.4	0.002	BB	0.011	76.85	0.007
85	7.030		0.0000	0.000	861.6	0.033	BB	0.022	656.59	0.057
86	7.077		0.0000	0.000	523.4	0.020	BB	0.024	360.86	0.031
87	7.203		0.0000	0.000	236.2	0.009	BB	0.030	133.06	0.012
88	7.356		0.0000	0.000	12907.4	0.501	BB	0.112	1915.81	0.167

Total Area = 2577383.0, Total Amount = 117.753, Total Height = 1150615.0, Sample Units = PPB

USP93 1898

Sample Name: **ICTXX1124B FUICTXXFU CCAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 03:04:30pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.23R**
Method File: C:\CPWIN\DATA1\PESTDB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.077		0.0000	0.000	55.3	0.009	BB	0.014	66.84	0.017
2	1.975		0.0000	0.000	615.6	0.104	BV	0.067	154.27	0.040
3	2.050		0.0000	0.000	284.2	0.048	VV	0.017	285.48	0.074
4	2.077		0.0000	0.000	417.3	0.070	VB	0.014	483.88	0.126
5	2.206		0.0000	0.000	45.6	0.008	BB	0.018	41.74	0.011
6	2.237		0.0000	0.000	73.9	0.012	BB	0.019	64.48	0.017
7	2.358		0.0000	0.000	144.3	0.024	BB	0.019	124.71	0.032
8	2.520		0.0000	0.000	42.3	0.007	BB	0.012	60.13	0.016
9	2.579		0.0000	0.000	61.4	0.010	BB	0.020	52.40	0.014
10	2.633		0.0000	0.000	39.1	0.007	BB	0.020	33.25	0.009
11	2.762		0.0000	0.000	234.4	0.039	BB	0.061	63.88	0.017
12	2.828		0.0000	0.000	631.5	0.106	BV	0.064	163.59	0.043
13	2.915		0.0000	0.000	418.9	0.071	VV	0.049	143.32	0.037
14	2.987	alpha-BHC	0.0999	0.128	685.8	0.115	VV	0.023	487.63	0.127
15	3.085		0.0000	0.000	214.7	0.036	VV	0.038	94.09	0.024
16	3.216		0.0000	0.000	261.8	0.044	VV	0.027	161.86	0.042
17	3.252	gamma-BHC	0.1245	0.160	700.3	0.118	VB	0.021	567.70	0.148
18	3.311	beta-BHC	0.0488	0.063	126.6	0.021	BV	0.023	92.64	0.024
19	3.353		0.0000	0.000	126.8	0.021	VV	0.019	114.01	0.030
20	3.477		0.0000	0.000	287.1	0.048	VV	0.132	36.22	0.009
21	3.511		0.0000	0.000	241.0	0.041	VV	0.019	210.97	0.055
22	3.542		0.0000	0.000	775.9	0.131	VV	0.041	312.89	0.081
23	3.594		0.0000	0.000	510.0	0.086	VV	0.023	362.04	0.094
24	3.635	Heptachlor	0.0754	0.097	435.4	0.073	VV	0.026	277.57	0.072
25	3.712		0.0000	0.000	1317.4	0.222	VV	0.051	433.16	0.113
26	3.773		0.0000	0.000	237.4	0.040	VV	0.020	201.41	0.052
27	3.813		0.0000	0.000	1734.2	0.292	VB	0.039	743.26	0.193
28	3.946		0.0000	0.000	1043.3	0.176	BV	0.034	505.22	0.131
29	3.990		0.0000	0.000	2604.4	0.438	VV	0.031	1400.16	0.364
30	4.043	Telodrin	0.1042	0.134	429.1	0.072	VB	0.027	264.26	0.069
31	4.106		0.0000	0.000	1132.5	0.191	BV	0.022	843.27	0.219
32	4.133		0.0000	0.000	346.4	0.058	VV	0.018	328.09	0.085
33	4.180		0.0000	0.000	1718.2	0.289	VV	0.039	732.48	0.190
34	4.227		0.0000	0.000	1636.4	0.275	VV	0.024	1130.25	0.294
35	4.271		0.0000	0.000	4158.6	0.700	VV	0.027	2568.09	0.668
36	4.341		0.0000	0.000	2322.7	0.391	VB	0.041	935.98	0.243
37	4.395	Hept. epoxide	0.4481	0.575	1979.6	0.333	BV	0.026	1275.09	0.332
38	4.419		0.0000	0.000	1127.3	0.190	VB	0.018	1070.19	0.278
39	4.477		0.0000	0.000	3462.3	0.583	BV	0.025	2308.30	0.600
40	4.507		0.0000	0.000	1177.7	0.198	VV	0.021	939.61	0.244
41	4.541	o,p-DDE	0.6390	0.820	1441.0	0.243	VB	0.019	1252.27	0.326
42	4.611		0.0000	0.000	12986.5	2.186	BV	0.028	7626.69	1.983
43	4.663	a. Chlordane	0.4356	0.559	1633.5	0.275	VV	0.020	1362.94	0.354
44	4.702	Endosulfan I	0.4757	0.611	1782.5	0.300	VB	0.022	1336.03	0.347
45	4.743		0.0000	0.000	954.4	0.161	BB	0.018	894.28	0.232
46	4.768		0.0000	0.000	748.8	0.126	BV	0.016	764.25	0.199
47	4.804	4,4'-DDE	1.1457	1.470	7892.1	1.329	VB	0.040	3316.58	0.862
48	4.874		0.0000	0.000	815.4	0.137	BB	0.015	897.48	0.233
49	4.917	Dieldrin	3.8787	4.978	20036.7	3.373	BB	0.027	12217.53	3.176
50	5.003		0.0000	0.000	8672.5	1.460	BV	0.021	6905.66	1.795
51	5.048		0.0000	0.000	14455.0	2.434	VV	0.028	8610.81	2.239
52	5.086		0.0000	0.000	7016.1	1.181	VV	0.030	3837.33	0.998
53	5.118		0.0000	0.000	21317.5	3.589	VV	0.039	9219.42	2.397
54	5.164	Endrin	2.5954	3.331	8526.9	1.436	VV	0.021	6653.38	1.730
55	5.193	o,p-DDT	1.6442	2.110	3485.2	0.587	VV	0.020	2960.23	0.770
56	5.229	4,4'-DDD	3.4350	4.409	14321.9	2.411	VV	0.031	7669.53	1.994
57	5.279		0.0000	0.000	11960.9	2.014	VV	0.022	9187.22	2.389
58	5.306	Endosulfan II	5.9291	7.610	16610.8	2.796	VV	0.021	13245.22	3.444
59	5.376		0.0000	0.000	38666.8	6.510	VB	0.024	27353.56	7.111
60	5.432		0.0000	0.000	7933.2	1.336	BB	0.018	7370.90	1.916
61	5.510		0.0000	0.000	20758.0	3.495	BV	0.029	11851.85	3.081
62	5.562	Endrin aldehyde	14.1898	18.212	37351.6	6.288	VV	0.025	24875.45	6.467
63	5.619		0.0000	0.000	39905.3	6.718	VV	0.037	17911.53	4.657
64	5.656		0.0000	0.000	10789.2	1.816	VV	0.024	7454.31	1.938

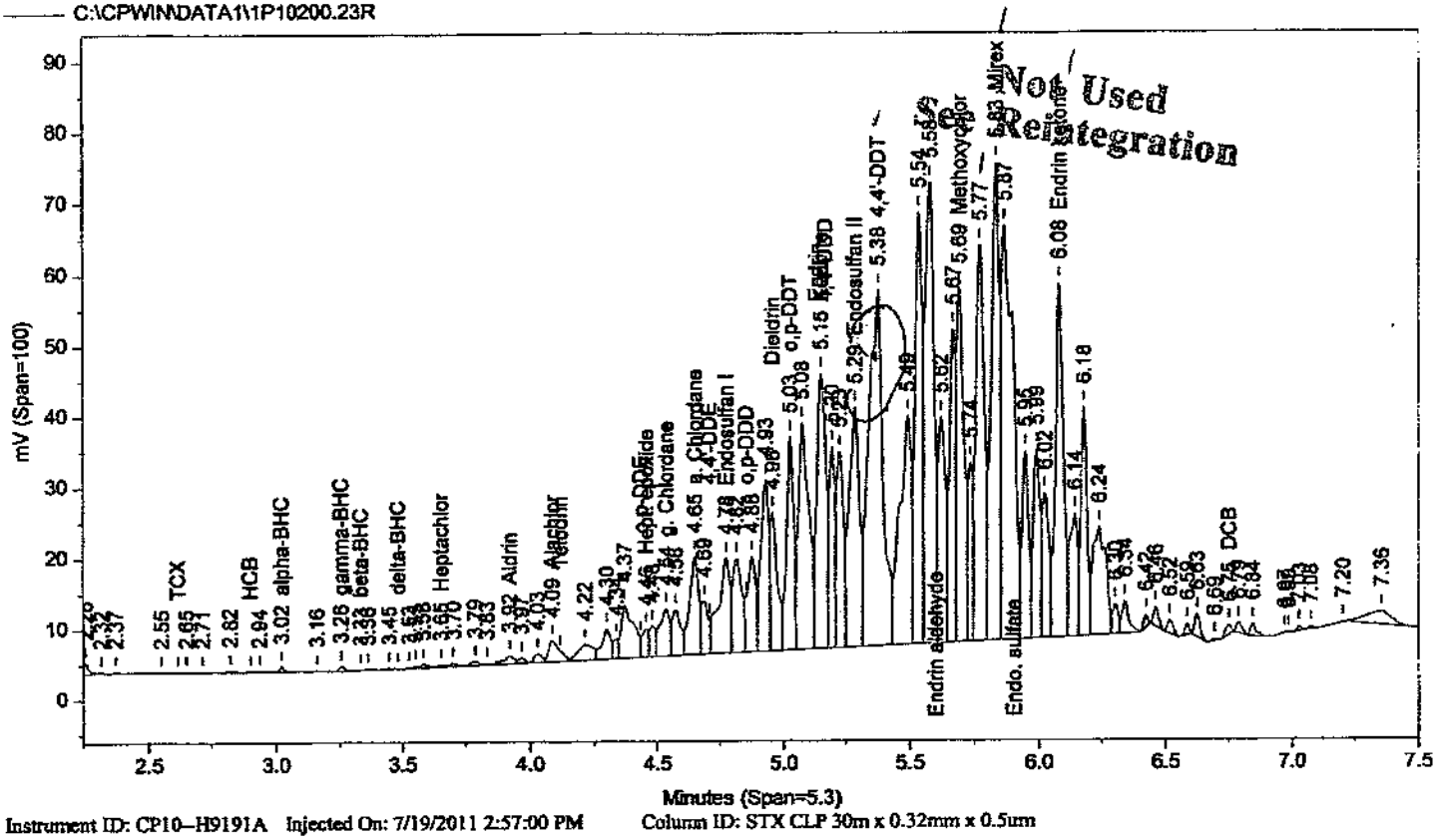
USP03 1001

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	5.713		0.0000	0.000	27949.4	4.705	VV	0.032	14738.09	3.832
66	5.742	Endo. sulfate	6.1010	7.830	12684.4	2.135	VV	0.020	10556.21	2.744
67	5.787		0.0000	0.000	15297.9	2.575	VV	0.028	9021.88	2.346
68	5.809		0.0000	0.000	7886.2	1.328	VV	0.016	8317.59	2.162
69	5.830		0.0000	0.000	19596.8	3.299	VV	0.032	10300.00	2.678
70	5.882		0.0000	0.000	15758.8	2.653	VV	0.027	9896.85	2.573
71	5.915		0.0000	0.000	33714.4	5.676	VV	0.025	22342.60	5.809
72	5.952	Methoxychlor	29.4643	37.816	32973.7	5.551	VV	0.026	20849.42	5.420
73	5.986		0.0000	0.000	16516.2	2.781	VB	0.021	13034.20	3.389
74	6.047		0.0000	0.000	6483.3	1.091	BV	0.021	5142.50	1.337
75	6.081	Mirex	6.4861	8.325	13328.9	2.244	VV	0.028	7888.29	2.051
76	6.150		0.0000	0.000	9844.4	1.657	VV	0.026	6330.42	1.646
77	6.179		0.0000	0.000	15717.8	2.646	VV	0.023	11336.76	2.947
78	6.225		0.0000	0.000	2421.3	0.408	VB	0.021	1899.03	0.494
79	6.262		0.0000	0.000	2787.8	0.469	BB	0.015	3159.02	0.821
81	6.334		0.0000	0.000	1409.7	0.237	BB	0.014	1666.00	0.433
82	6.371		0.0000	0.000	2397.5	0.404	BV	0.017	2381.29	0.619
83	6.386		0.0000	0.000	3309.9	0.557	VB	0.019	2908.89	0.756
84	6.431		0.0000	0.000	2531.3	0.426	BB	0.024	1771.56	0.461
85	6.482		0.0000	0.000	1150.0	0.194	BB	0.016	1175.47	0.306
86	6.522		0.0000	0.000	444.6	0.075	BB	0.024	315.03	0.082
87	6.585		0.0000	0.000	613.3	0.103	BB	0.017	604.72	0.157
88	6.608		0.0000	0.000	368.2	0.062	BB	0.012	512.43	0.133
89	6.632		0.0000	0.000	1042.7	0.176	BB	0.031	567.20	0.147
90	6.723		0.0000	0.000	212.0	0.036	BB	0.020	172.63	0.045
91	6.791		0.0000	0.000	564.2	0.095	BB	0.025	374.33	0.097
92	6.837		0.0000	0.000	258.4	0.043	BB	0.014	297.43	0.077
93	6.876	DCB	0.5936	0.762	941.6	0.159	BB	0.027	588.99	0.153
94	6.927		0.0000	0.000	764.6	0.129	BB	0.017	745.71	0.194
95	7.008		0.0000	0.000	335.4	0.056	BB	0.022	257.83	0.067
96	7.080		0.0000	0.000	86.3	0.015	BB	0.019	74.20	0.019
97	7.162		0.0000	0.000	424.4	0.071	BB	0.022	315.56	0.082
98	7.221		0.0000	0.000	260.3	0.044	BB	0.023	191.83	0.050

Total Area = 593994.9, Total Amount = 77.914, Total Height = 384642.8, Sample Units = PPB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.23R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 2:57:00 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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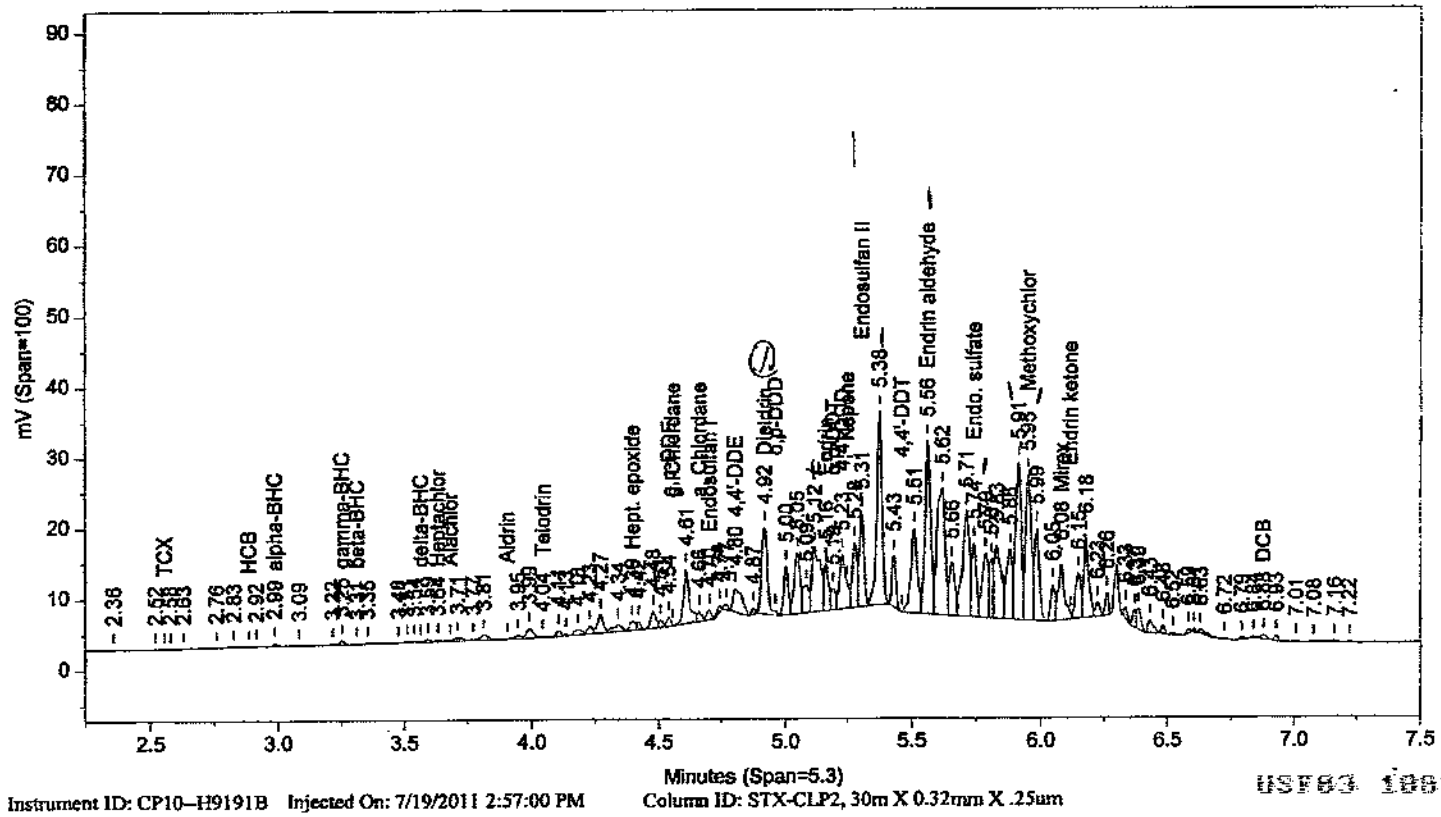

Instrument ID: CP10--H9191B Injected On: 7/19/2011 2:57:00 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF83 1883

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Not Used
See Reintegration

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.022	742	.087	alpha-BHC	2.987	488	.1	alpha-BHC
3.256	641	.084	gamma-BHC	3.252	568	.125	gamma-BHC
3.335	139	.038	beta-BHC	3.311	93	.049	beta-BHC
3.654	350	.051	Heptachlor	3.635	278	.075	Heptachlor
3.921	1141	.169	Aldrin	.	0	.	Aldrin
.	0	.	Telodrin	4.043	264	.104	Telodrin
4.087	2974	.	Alachlor	.	0	.	Alachlor
4.457	3992	.638	Hept. epoxide	4.395	1275	.448	Hept. epoxide
4.537	6697	1.032	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.541	1252	.639	o,p-DDE
4.653	13856	2.234	a. Chlordane	4.663	1363	.436	a. Chlordane
4.776	13376	2.319	Endosulfan I	4.702	1336	.476	Endosulfan I
.	0	.	4,4'-DDE	4.804	3317	1.146	4,4'-DDE
4.956	19473	3.102	Dieldrin	4.917	12218	3.879	Dieldrin
5.027	30017	8.596	o,p-DDT	5.193	2960	1.644	o,p-DDT
5.152	38805	26.072	Kepone	.	0	.	Kepone
.	0	.	Endrin	5.164	6653	2.595	Endrin
.	0	.	4,4'-DDD	5.229	7670	3.435	4,4'-DDD
5.287	33761	8.902	Endosulfan II	5.306	13245	5.929	Endosulfan II
5.379	50406	11.997	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.562	24875	14.19	Endrin aldehyde
5.694	49989	24.088	Methoxychlor	5.952	20849	29.464	Methoxychlor
.	0	.	Endo. sulfate	5.742	10556	6.101	Endo. sulfate
5.835	67663	18.864	Mirex	6.081	7888	6.486	Mirex
6.08	49880	9.14	Endrin ketone	.	0	.	Endrin ketone
6.75	1306	.34	DCB	6.876	589	.594	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.23A
Area File: C:\CPWIN\DATA1\1P10200B.23A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 8:05:56 PM
File Reported On: 7/19/2011 at 8:06:08 PM

USF03 1894

10X REPLOTS

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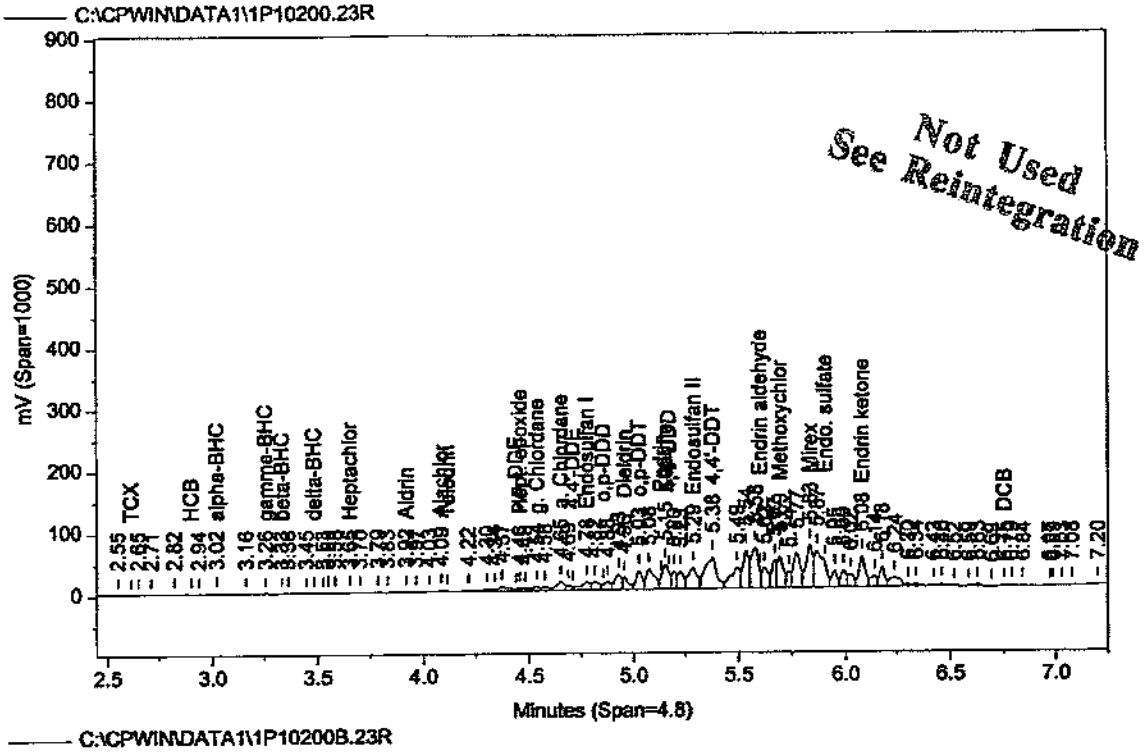

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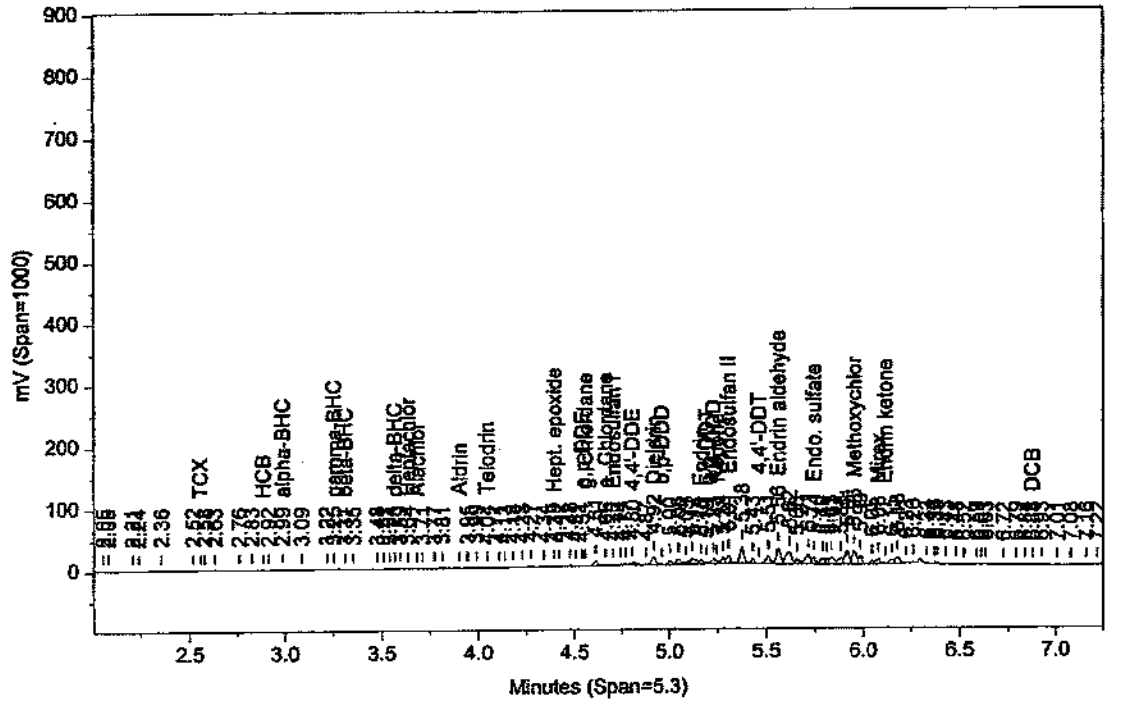

LANCASTER LABORATORIES

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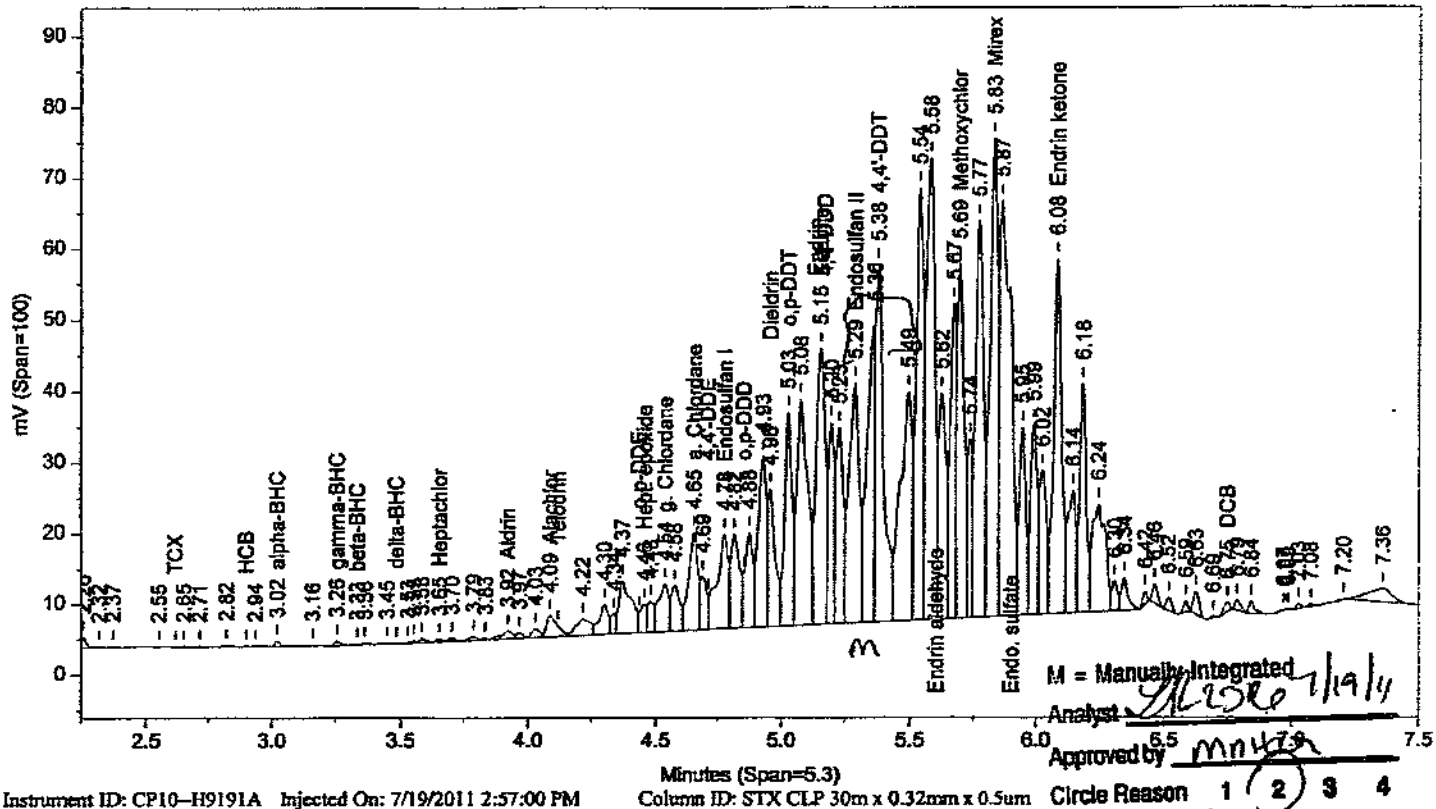


M = Manually Integrated

Analyst 7/19/11

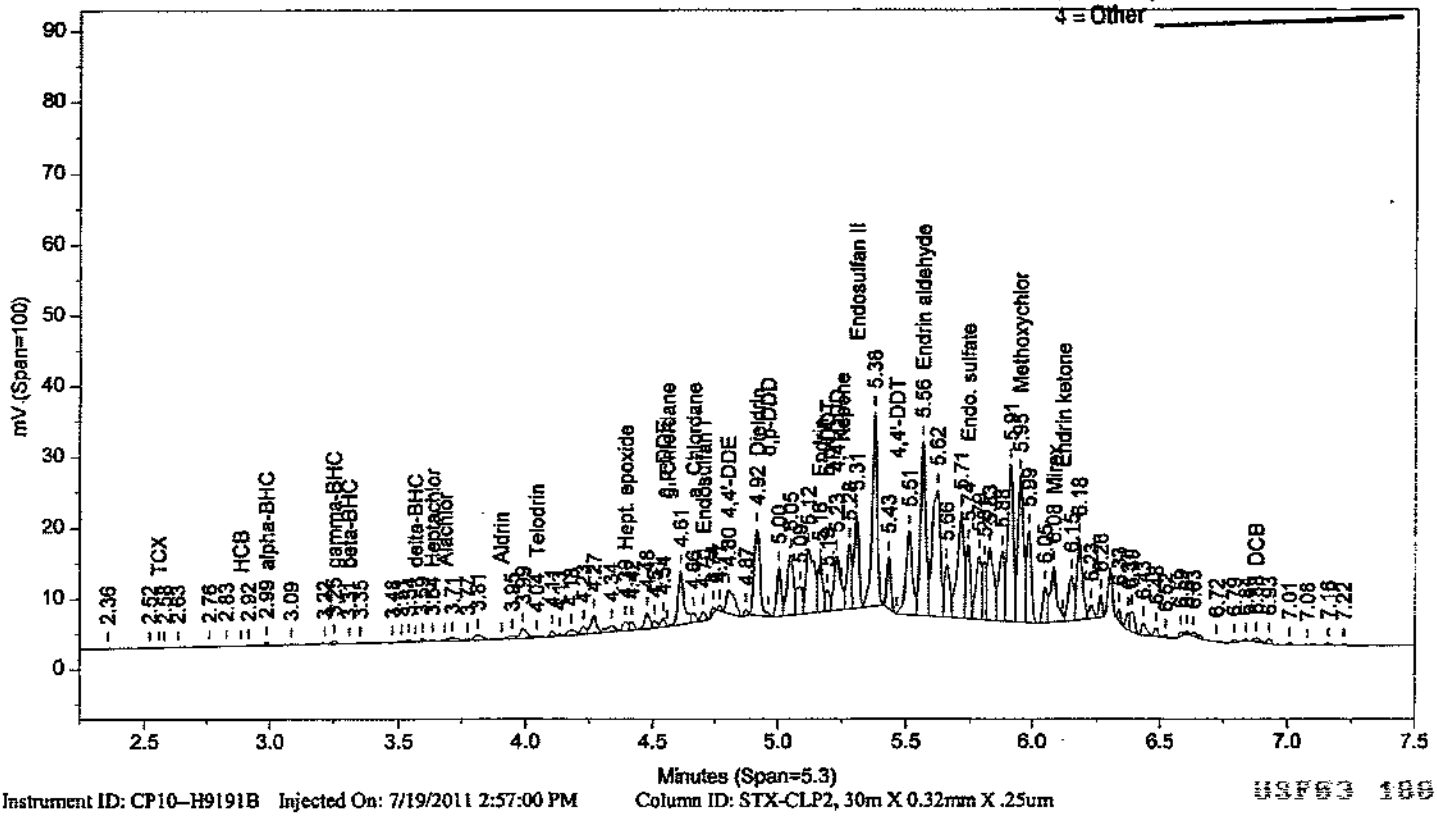
Approved by 7/19/11

Instrument ID: CP10–H9191A Injected On: 7/19/2011 2:57:00 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

Circle Reason 1 2 3 4

1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

C:\CPWIN\DATA1\1P10200B.23R



Instrument ID: CP10–H9191B Injected On: 7/19/2011 2:57:00 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USPS3 1896

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

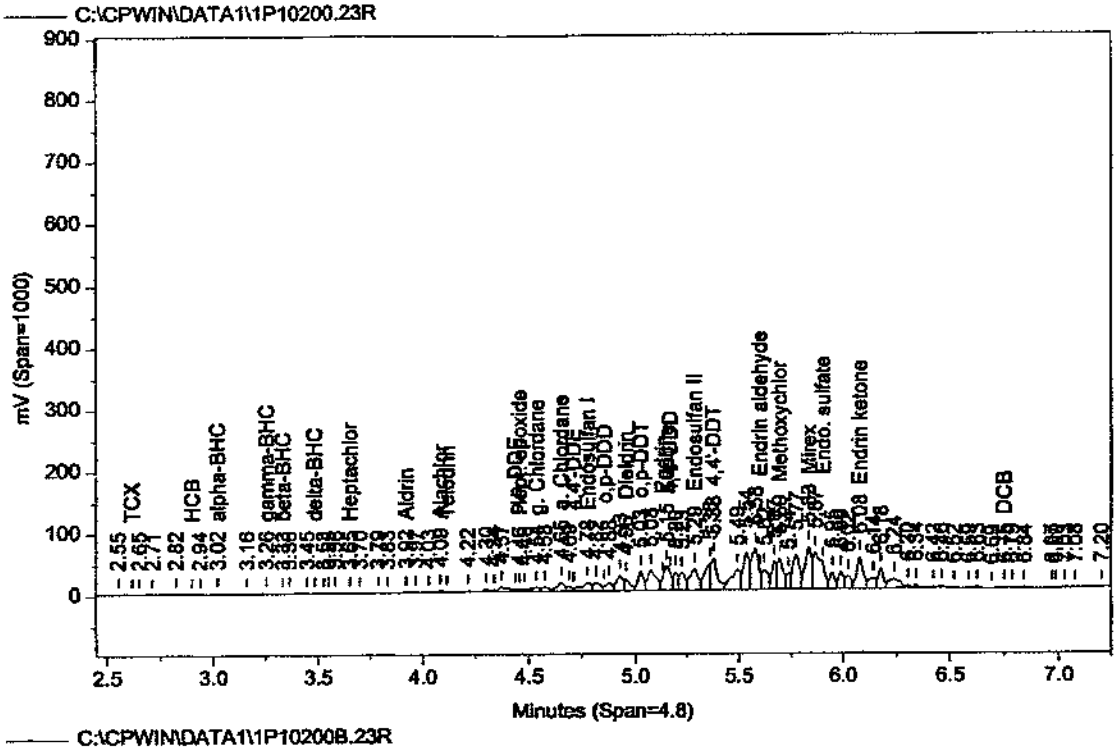
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.022	742	.087	alpha-BHC	2.987	488	.1	alpha-BHC
3.256	641	.084	gamma-BHC	3.252	568	.125	gamma-BHC
3.335	139	.038	beta-BHC	3.311	93	.049	beta-BHC
3.654	350	.051	Heptachlor	3.635	278	.075	Heptachlor
3.921	1141	.169	Aldrin	.	0	.	Aldrin
.	0	.	Telodrin	4.043	264	.104	Telodrin
4.087	2974	.	Alachlor	.	0	.	Alachlor
4.457	3992	.638	Hept. epoxide	4.395	1275	.448	Hept. epoxide
4.537	6697	1.032	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.541	1252	.639	o,p-DDE
4.653	13856	2.234	a. Chlordane	4.663	1363	.436	a. Chlordane
4.776	13376	2.319	Endosulfan I	4.702	1336	.476	Endosulfan I
.	0	.	4,4'-DDE	4.804	3317	1.146	4,4'-DDE
4.956	19473	3.102	Dieldrin	4.917	12218	3.879	Dieldrin
5.027	30017	8.596	o,p-DDT	5.193	2960	1.644	o,p-DDT
5.152	38805	26.072	Kepone	.	0	.	Kepone
.	0	.	Endrin	5.164	6653	2.595	Endrin
.	0	.	4,4'-DDD	5.229	7670	3.435	4,4'-DDD
5.287	33761	8.902	Endosulfan II	5.306	13245	5.929	Endosulfan II
5.379	50406	11.997	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.562	24875	14.19	Endrin aldehyde
5.694	49989	24.088	Methoxychlor	5.952	20849	29.464	Methoxychlor
.	0	.	Endo. sulfate	5.742	10556	6.101	Endo. sulfate
5.835	67663	18.864	Mirex	6.081	7888	6.486	Mirex
6.08	49880	9.14	Endrin ketone	.	0	.	Endrin ketone
6.75	1306	.34	DCB	6.876	589	.594	DCB

Files:
Area File: C:\CPWIN\~Dualcha.00A
Area File: C:\CPWIN\~Dualchb.00A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 8:44:14 PM
File Reported On: 7/19/2011 at 8:44:13 PM

USP63 1587

10X REPLOTS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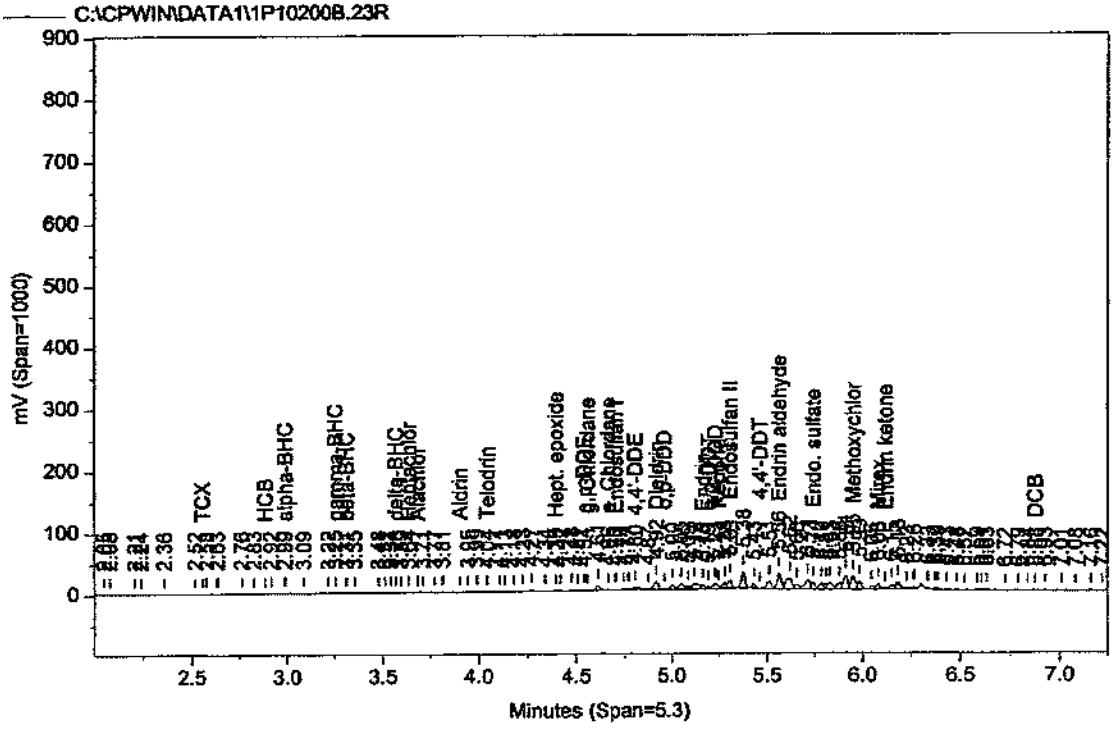
mV (Span=1000)
Minutes (Span=4.8)
TCX
HCB
alpha-BHC
gamma-BHC
beta-BHC
delta-BHC
Heptachlor
Aldrin
Heptachlor epoxide
g. Chlordane
a. Chlordane
Endosulfan I
o,p-DDD
Dieldrin
o,p-DDT
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endo. sulfate
Mirex
Endrin ketone
DCB


C:\CPWIN\DATA1\1P10200B.23R
mV (Span=1000)
Minutes (Span=5.3)
TCX
HCB
alpha-BHC
delta-BHC
Aldrin
Telodrin
Hept. epoxide
4,4'-DDE
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
DCB

Sample Name: **CHLD11124A AACHLD1AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 04:13:18pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.26R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.780		0.0000	0.000	314.3	0.084	BV	0.023	226.59	0.149
2	1.808		0.0000	0.000	594.0	0.159	VV	0.024	415.12	0.273
3	1.843		0.0000	0.000	1021.0	0.274	VV	0.034	493.98	0.325
4	1.936		0.0000	0.000	469.0	0.126	VV	0.041	191.38	0.126
5	1.980		0.0000	0.000	268.3	0.072	VV	0.026	170.33	0.112
6	2.009		0.0000	0.000	224.6	0.060	VB	0.020	188.80	0.124
7	2.167		0.0000	0.000	3008.2	0.807	BV	0.076	662.35	0.435
8	2.233		0.0000	0.000	1073.5	0.288	VV	0.057	315.95	0.208
9	2.260		0.0000	0.000	1587.0	0.426	VB	0.027	981.36	0.645
10	2.463		0.0000	0.000	309.1	0.083	BB	0.048	107.89	0.071
11	2.577		0.0000	0.000	1092.2	0.293	BB	0.016	1136.84	0.747
12	2.619 TCX		4.1694	21.789	42874.1	11.502	BB	0.027	26615.39	17.498
13	2.873		0.0000	0.000	1056.7	0.283	BB	0.398	44.27	0.029
14	2.897 HCB		0.0468	0.245	760.0	0.204	BB	0.039	328.10	0.216
15	3.066		0.0000	0.000	1649.7	0.443	BV	0.036	768.73	0.505
16	3.144		0.0000	0.000	1261.0	0.338	VV	0.037	573.53	0.377
17	3.213		0.0000	0.000	921.1	0.247	VV	0.030	505.02	0.332
18	3.242		0.0000	0.000	1134.1	0.304	VV	0.039	478.93	0.315
19	3.316 beta-BHC		0.1039	0.543	650.1	0.174	VV	0.029	376.73	0.248
20	3.353		0.0000	0.000	2009.7	0.539	VV	0.076	441.40	0.290
21	3.445		0.0000	0.000	2448.3	0.657	VV	0.061	668.65	0.440
22	3.526		0.0000	0.000	2087.7	0.560	VV	0.043	804.41	0.529
23	3.595		0.0000	0.000	10452.2	2.804	VV	0.030	5836.84	3.837
24	3.663 Heptachlor		1.0254	5.359	13470.7	3.614	VV	0.032	6978.38	4.588
25	3.762		0.0000	0.000	7734.9	2.075	VV	0.077	1666.19	1.095
26	3.947		0.0000	0.000	702.1	0.188	VV	0.022	540.19	0.355
27	3.997		0.0000	0.000	1514.4	0.406	VV	0.032	797.53	0.524
28	4.045		0.0000	0.000	13767.4	3.693	VV	0.039	5928.57	3.898
29	4.183		0.0000	0.000	7685.1	2.062	VV	0.102	1257.86	0.827
30	4.263		0.0000	0.000	3265.2	0.876	VV	0.036	1510.25	0.993
31	4.313		0.0000	0.000	5831.8	1.564	VV	0.055	1768.74	1.163
32	4.397		0.0000	0.000	7470.8	2.004	VV	0.034	3681.71	2.420
33	4.451 Hept. epoxide		0.3111	1.626	4179.7	1.121	VV	0.036	1947.56	1.280
34	4.486		0.0000	0.000	5023.3	1.348	VV	0.035	2392.81	1.573
35	4.556 g. Chlordane		2.5347	13.246	36891.7	9.897	VV	0.037	16451.19	10.815
36	4.657 a. Chlordane		2.8921	15.114	47271.2	12.681	VV	0.044	17935.59	11.791
37	4.786 Endosulfan I		0.2133	1.115	2442.7	0.655	VV	0.033	1230.15	0.809
38	4.828		0.0000	0.000	6650.5	1.784	VV	0.057	1960.62	1.289
39	4.901		0.0000	0.000	6622.5	1.777	VV	0.050	2210.21	1.453
40	4.973 Dieldrin		0.2190	1.144	2974.5	0.798	VV	0.036	1374.46	0.904
41	5.019		0.0000	0.000	5484.0	1.471	VV	0.050	1821.20	1.197
42	5.097		0.0000	0.000	4558.3	1.223	VV	0.057	1322.69	0.870
43	5.156 Kepone		2.8057	14.663	11304.1	3.033	VV	0.045	4176.01	2.745
44	5.219		0.0000	0.000	2328.3	0.625	VV	0.025	1540.57	1.013
45	5.251		0.0000	0.000	10226.5	2.743	VB	0.035	4934.29	3.244
46	5.363 4,4'-DDT		0.2386	1.247	3721.6	0.998	BV	0.062	1002.46	0.659
47	5.429		0.0000	0.000	5007.2	1.343	VV	0.058	1435.02	0.943
48	5.550		0.0000	0.000	4373.2	1.173	VV	0.056	1300.81	0.855
49	5.688		0.0000	0.000	372.2	0.100	VB	0.083	75.11	0.049
50	5.882 Endo. sulfate		0.0325	0.170	419.6	0.113	BV	0.052	133.61	0.088
51	5.942		0.0000	0.000	499.0	0.134	VB	0.030	280.50	0.184
52	5.994		0.0000	0.000	421.5	0.113	BV	0.038	185.00	0.122
53	6.041		0.0000	0.000	585.8	0.157	VV	0.043	227.10	0.149
54	6.143		0.0000	0.000	771.3	0.207	VV	0.062	208.71	0.137
55	6.197		0.0000	0.000	878.3	0.236	VV	0.049	296.59	0.195
56	6.257		0.0000	0.000	457.5	0.123	VB	0.027	277.57	0.182
57	6.322		0.0000	0.000	784.6	0.210	BV	0.038	343.46	0.226
58	6.430		0.0000	0.000	287.1	0.077	VB	0.093	51.36	0.034
59	6.546		0.0000	0.000	149.4	0.040	BB	0.062	40.02	0.026
60	6.614		0.0000	0.000	242.5	0.065	BB	0.030	133.01	0.087
61	6.668		0.0000	0.000	217.4	0.058	BB	0.025	146.10	0.096
62	6.735 DCB		4.5428	23.740	28940.2	7.764	BB	0.028	17453.74	11.475
63	6.900		0.0000	0.000	408.4	0.110	BB	0.092	73.66	0.048
64	7.356		0.0000	0.000	39561.4	10.613	BB	0.246	2685.30	1.765

US783 1889

Total Area = 372763.9, Total Amount = 19.135, Total Height = 152108.5, Sample Units = PPB

USP83 1898

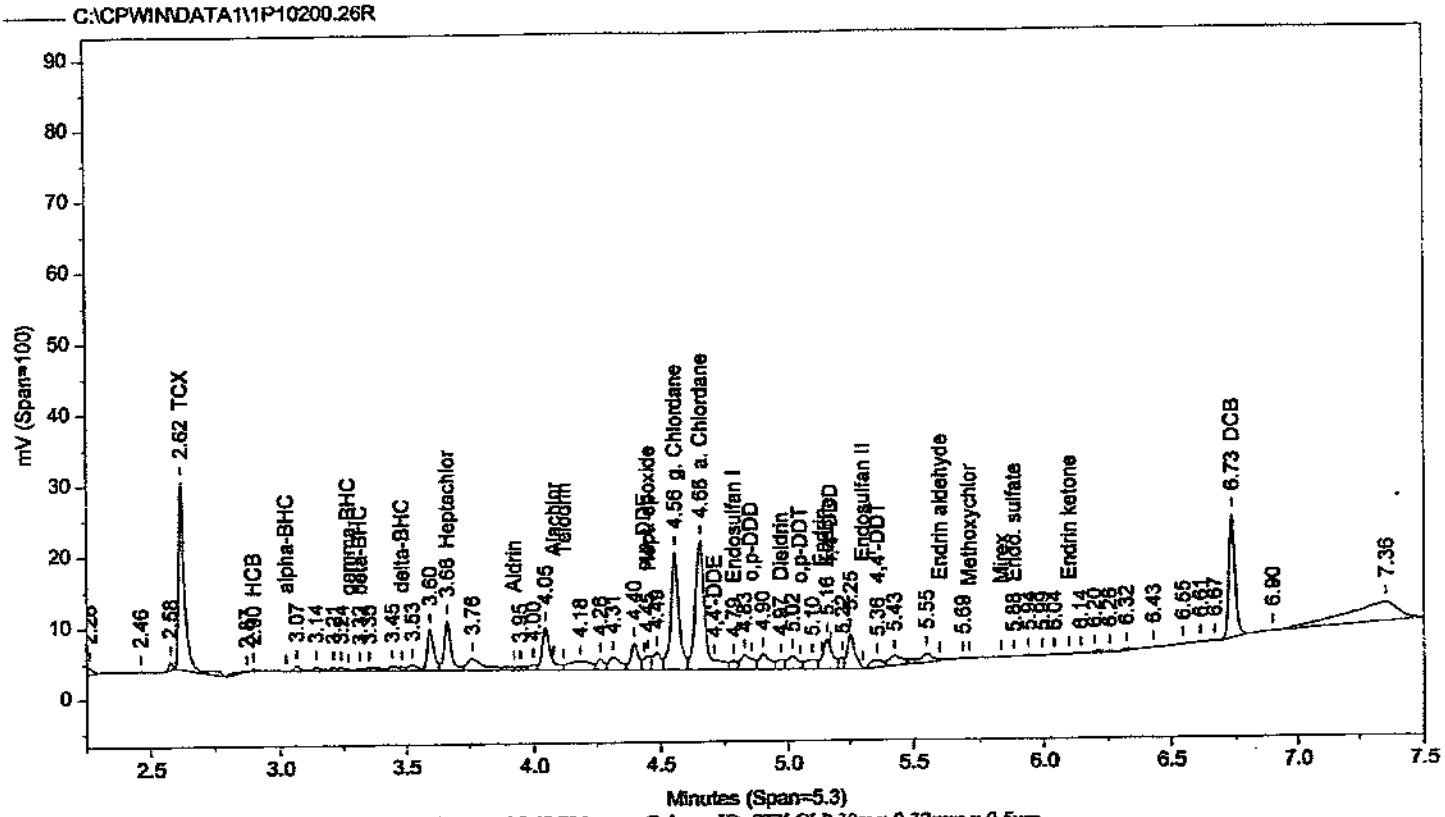
Sample Name: **CHLD11124A AACHLD1AA ICAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 04:13:18pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.26R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.950		0.0000	0.000	556.9	0.483	BB	0.047	195.91	0.273
2	2.077		0.0000	0.000	304.0	0.264	BB	0.021	246.32	0.343
3	2.351		0.0000	0.000	196.6	0.170	BB	0.029	113.50	0.158
4	2.497		0.0000	0.000	419.3	0.363	BB	0.048	146.65	0.204
5	2.558	TCX	3.7887	19.309	7497.3	6.499	BB	0.014	8733.96	12.151
6	2.585		0.0000	0.000	246.1	0.213	BB	0.008	518.70	0.722
7	2.738		0.0000	0.000	431.6	0.374	BB	0.061	117.06	0.163
8	2.818		0.0000	0.000	312.2	0.271	BB	0.023	229.52	0.319
9	2.927		0.0000	0.000	145.6	0.126	BV	0.028	86.99	0.121
10	2.955		0.0000	0.000	527.7	0.457	VV	0.024	360.51	0.502
11	3.016		0.0000	0.000	1223.6	1.061	VV	0.073	280.47	0.390
12	3.188		0.0000	0.000	463.2	0.401	VV	0.023	328.51	0.457
13	3.219		0.0000	0.000	1133.4	0.982	VV	0.042	451.32	0.628
14	3.300		0.0000	0.000	230.7	0.200	VV	0.022	173.78	0.242
15	3.359		0.0000	0.000	940.8	0.816	VV	0.039	403.45	0.561
16	3.414		0.0000	0.000	949.8	0.823	VV	0.045	354.92	0.494
17	3.474		0.0000	0.000	563.8	0.489	VV	0.019	484.64	0.674
18	3.503		0.0000	0.000	5326.3	4.617	VV	0.026	3428.64	4.770
19	3.625	Heptachlor	1.0803	5.506	6875.0	5.960	VV	0.029	3976.40	5.532
20	3.714		0.0000	0.000	1299.6	1.127	VV	0.029	737.84	1.026
21	3.756		0.0000	0.000	1433.8	1.243	VV	0.040	598.01	0.832
22	3.869		0.0000	0.000	693.5	0.601	VV	0.035	331.68	0.461
23	3.957		0.0000	0.000	1543.4	1.338	VV	0.035	730.52	1.016
24	4.036	Telodrin	1.0864	5.537	4710.4	4.083	VV	0.029	2754.35	3.832
25	4.084		0.0000	0.000	664.0	0.576	VV	0.029	383.58	0.534
26	4.150		0.0000	0.000	1168.9	1.013	VV	0.038	510.90	0.711
27	4.177		0.0000	0.000	674.8	0.585	VV	0.021	545.96	0.760
28	4.213		0.0000	0.000	1774.0	1.538	VV	0.030	972.44	1.353
29	4.265		0.0000	0.000	1169.7	1.014	VV	0.027	710.70	0.989
30	4.306		0.0000	0.000	325.1	0.282	VV	0.027	203.12	0.283
31	4.369		0.0000	0.000	1448.2	1.255	VB	0.025	947.79	1.319
32	4.432		0.0000	0.000	528.6	0.458	BV	0.027	331.99	0.462
33	4.466		0.0000	0.000	2637.4	2.286	VV	0.027	1606.75	2.235
34	4.502		0.0000	0.000	1013.9	0.879	VV	0.028	595.16	0.828
35	4.559	o,p-DDE	4.4164	22.507	13572.8	11.765	VV	0.026	8654.37	12.040
36	4.633		0.0000	0.000	10107.4	8.761	VV	0.026	6570.00	9.140
37	4.675	a. Chlordane	2.3607	12.031	9787.6	8.484	VB	0.022	7386.70	10.276
38	4.790	4,4'-DDE	0.0955	0.487	612.0	0.531	BV	0.037	276.56	0.385
39	4.865		0.0000	0.000	994.0	0.862	VB	0.023	712.00	0.991
40	4.937	Dieldrin	0.3767	1.920	3460.8	3.000	BV	0.049	1186.61	1.651
41	5.013		0.0000	0.000	1376.5	1.193	VV	0.027	837.49	1.165
42	5.046		0.0000	0.000	3699.6	3.207	VB	0.055	1120.84	1.559
43	5.141		0.0000	0.000	3057.9	2.651	BV	0.040	1281.98	1.783
44	5.224	4,4'-DDD	0.9741	4.964	4554.3	3.948	VV	0.035	2174.97	3.026
45	5.283		0.0000	0.000	1735.1	1.504	VV	0.047	609.56	0.848
46	5.353		0.0000	0.000	2983.2	2.586	VB	0.023	2187.47	3.043
47	5.444		0.0000	0.000	140.3	0.122	BB	0.026	89.36	0.124
48	5.573	Endrin aldehyde	0.3511	1.789	1816.0	1.574	BB	0.049	615.42	0.856
49	5.768	Endo. sulfate	0.0636	0.324	269.6	0.234	BB	0.041	110.04	0.153
50	6.064		0.0000	0.000	262.9	0.228	BB	0.035	125.54	0.175
51	6.181		0.0000	0.000	238.9	0.207	BB	0.033	121.31	0.169
52	6.451		0.0000	0.000	494.1	0.428	BB	0.076	108.36	0.151
53	6.900	DCB	5.0283	25.626	6630.1	5.747	BB	0.022	4989.55	6.941
54	7.247		0.0000	0.000	89.6	0.078	BB	0.021	70.46	0.098
55	7.410		0.0000	0.000	49.6	0.043	BB	0.014	59.43	0.083

Total Area = 115361.7, Total Amount = 19.622, Total Height = 71880.05, Sample Units = PPB

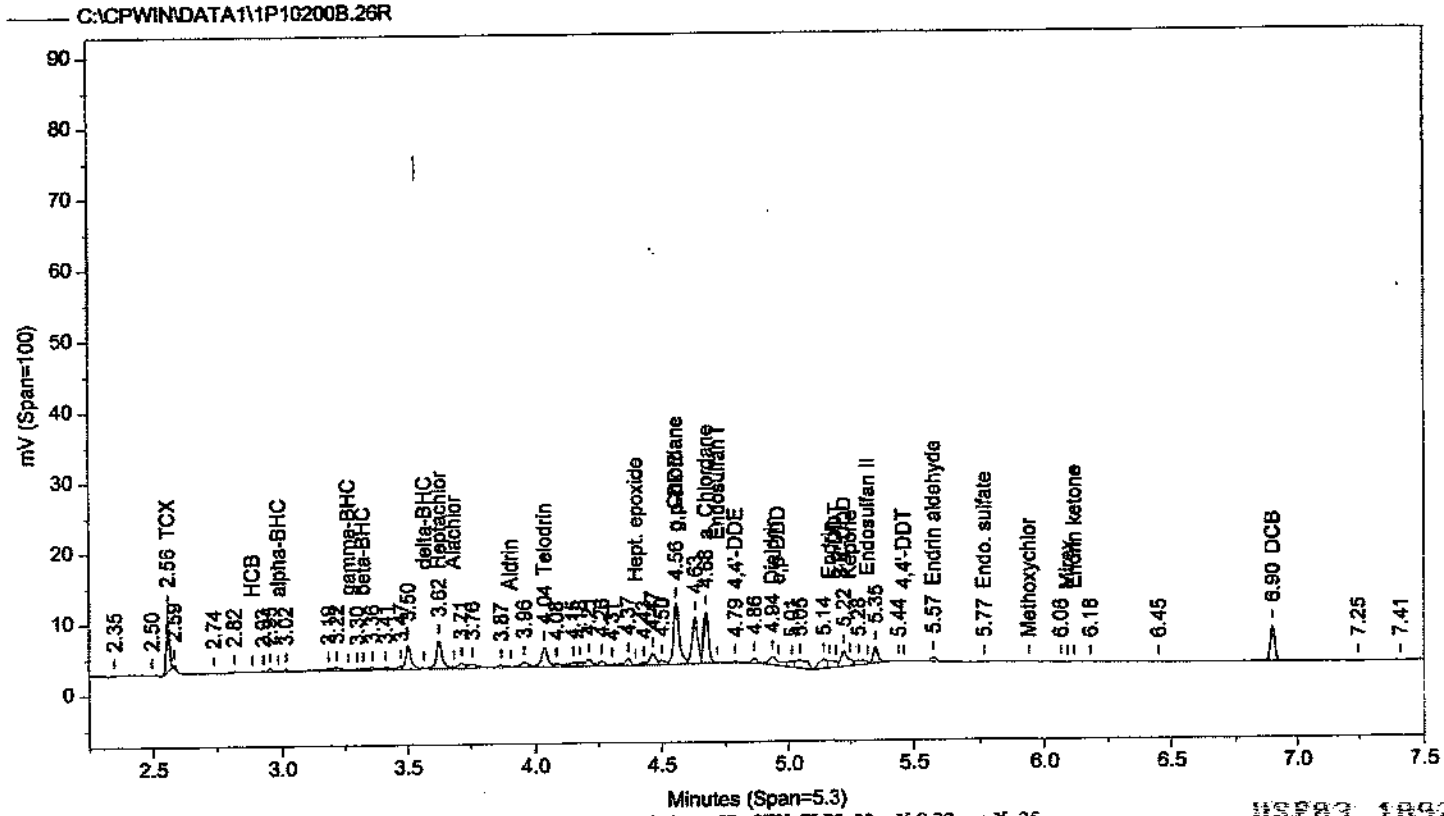
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.26R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 4:05:48 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.26R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 4:05:48 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USP83 1892

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

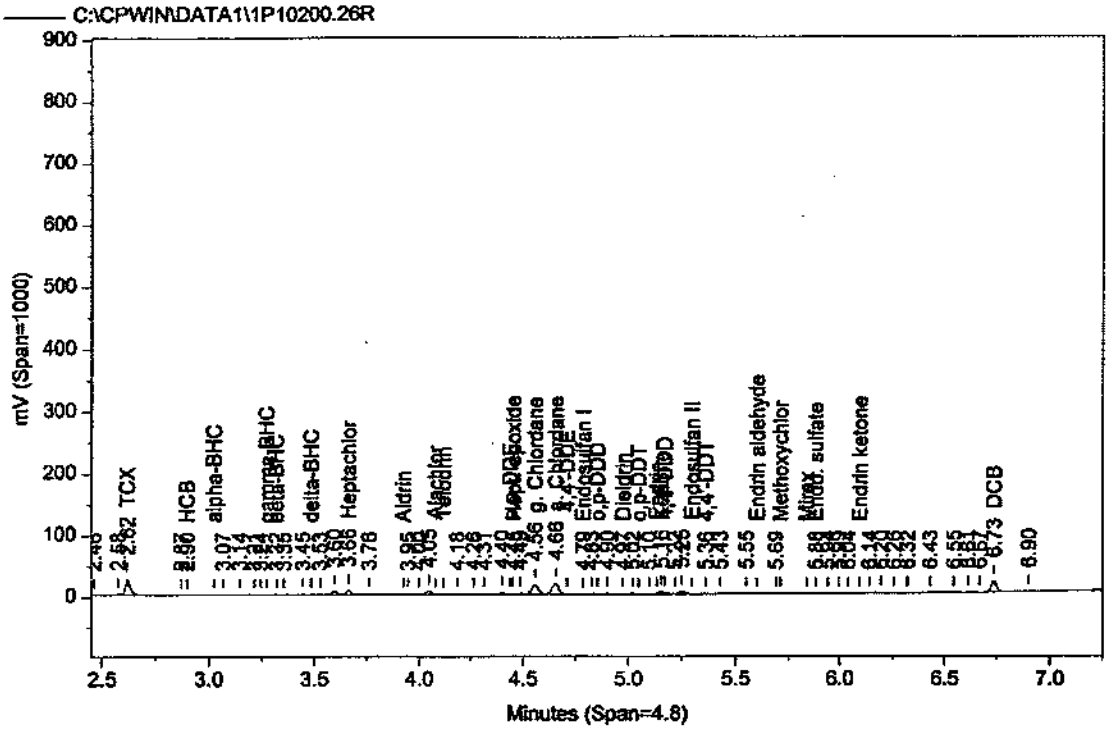
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	26615	4.169	TCX	2.558	8734	3.789	TCX
2.897	328	.047	HCB	.	0	.	HCB
3.316	377	.104	beta-BHC	.	0	.	beta-BHC
3.663	6978	1.025	Heptachlor	3.625	3976	1.08	Heptachlor
.	0	.	Telodrin	4.036	2754	1.086	Telodrin
4.451	1948	.311	Hept. epoxide	.	0	.	Hept. epoxide
4.556	16451	2.535	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.559	8654	4.416	o,p-DDE
4.657	17936	2.892	a. Chlordane	4.675	7387	2.361	a. Chlordane
4.786	1230	.213	Endosulfan I	.	0	.	Endosulfan I
.	0	.	4,4'-DDE	4.79	277	.096	4,4'-DDE
4.973	1374	.219	Dieldrin	4.937	1187	.377	Dieldrin
5.156	4176	2.806	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.224	2175	.974	4,4'-DDD
5.363	1002	.239	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.573	615	.351	Endrin aldehyde
5.882	134	.032	Endo. sulfate	5.768	110	.064	Endo. sulfate
6.735	17454	4.543	DCB	6.9	4990	5.028	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.26A
Area File: C:\CPWIN\DATA1\1P10200B.26A
Method A: C:\CPWIN\DATA1\PESTDLMET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 4:13:26 PM
File Reported On: 7/19/2011 at 4:13:39 PM

10X REPLOTS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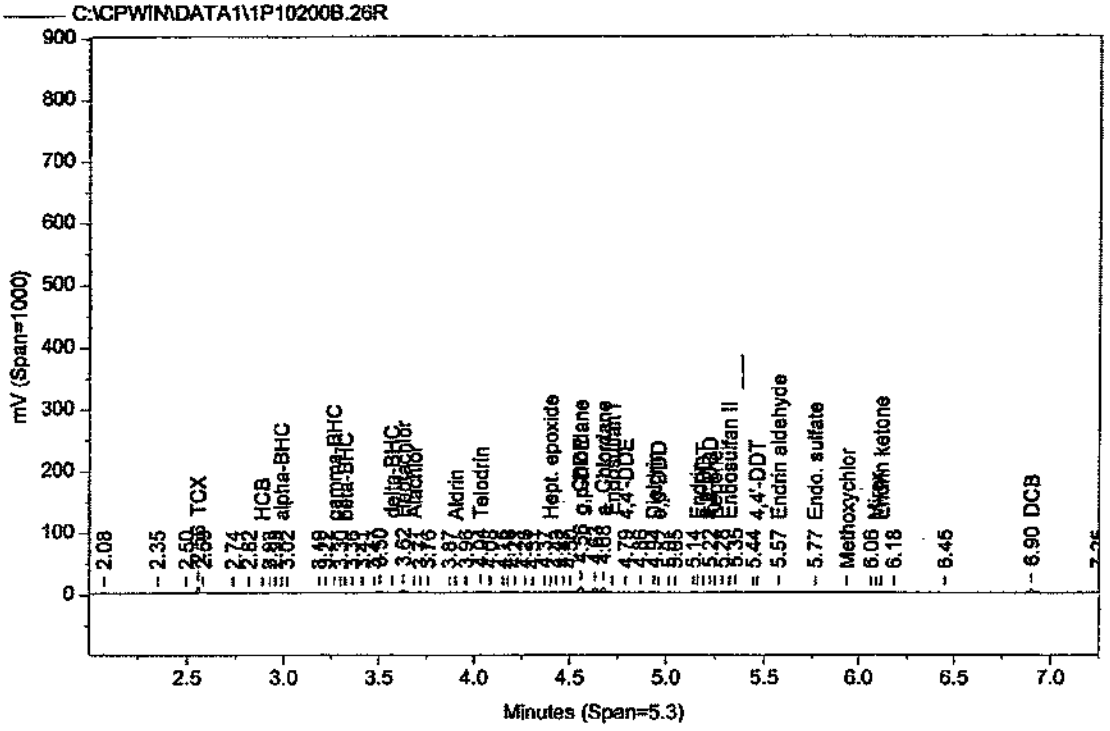
mV (Span=1000)
Minutes (Span=4.8)
TCX
HCB
alpha-BHC
delta-BHC
Heptachlor
Aldrin
g. Chlordane
Endosulfan I
o,p-DDD
Dieldrin
Endosulfan II
4,4-DDT
Endrin aldehyde
Methoxychlor
Endrin ketone
DCB


C:\CPWIN\DATA1\1P10200B.26R
mV (Span=1000)
Minutes (Span=5.3)
TCX
HCB
alpha-BHC
Aldrin
Telodrin
Hept. epoxide
4,4-DDE
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
6.45
6.90 DCB

Sample Name: **CHLD21124A AACHLD2AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 04:36:31pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.27R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.053		0.0000	0.000	122.9	0.014	BB	0.058	35.28	0.008
2	1.808		0.0000	0.000	1054.7	0.119	BV	0.040	436.53	0.100
3	1.844		0.0000	0.000	3205.3	0.361	VV	0.052	1020.15	0.234
4	1.930		0.0000	0.000	2416.2	0.272	VV	0.056	714.48	0.164
5	2.011		0.0000	0.000	5293.7	0.596	VB	0.064	1374.19	0.315
6	2.124		0.0000	0.000	2614.1	0.294	BV	0.056	773.94	0.177
7	2.213		0.0000	0.000	200.1	0.023	VB	0.031	107.36	0.025
8	2.261		0.0000	0.000	32730.2	3.683	BB	0.026	21166.28	4.846
9	2.490		0.0000	0.000	305.8	0.034	BB	0.025	206.49	0.047
10	2.576		0.0000	0.000	1789.0	0.201	BB	0.015	1951.94	0.447
11	2.619	TCX	19.5109	32.757	197645.2	22.243	BB	0.026	124548.00	28.518
12	2.750		0.0000	0.000	402.3	0.045	BB	0.026	254.01	0.058
13	2.818		0.0000	0.000	470.2	0.053	BB	0.033	239.15	0.055
14	2.899	HCB	0.2602	0.437	2989.3	0.336	BV	0.027	1824.23	0.418
15	2.949		0.0000	0.000	4002.7	0.450	VB	0.045	1476.00	0.338
16	3.067		0.0000	0.000	7296.4	0.821	BV	0.054	2256.21	0.517
17	3.141		0.0000	0.000	5551.1	0.625	VV	0.050	1841.56	0.422
18	3.213		0.0000	0.000	3873.9	0.436	VV	0.037	1767.57	0.405
19	3.241		0.0000	0.000	5207.9	0.586	VV	0.048	1818.01	0.416
20	3.379		0.0000	0.000	9982.9	1.123	VV	0.118	1415.70	0.324
21	3.444		0.0000	0.000	4320.7	0.486	VV	0.039	1827.14	0.418
22	3.486	delta-BHC	0.2055	0.345	2611.0	0.294	VV	0.029	1486.38	0.340
23	3.525		0.0000	0.000	5761.9	0.648	VV	0.047	2062.28	0.472
24	3.595		0.0000	0.000	23204.8	2.611	VV	0.031	12400.50	2.839
25	3.663	Heptachlor	2.1926	3.681	29753.4	3.348	VV	0.033	14922.49	3.417
26	3.759		0.0000	0.000	16201.8	1.823	VV	0.072	3763.11	0.862
27	3.850		0.0000	0.000	6685.9	0.752	VV	0.073	1519.53	0.348
28	3.963		0.0000	0.000	2889.7	0.325	VV	0.037	1308.16	0.300
29	3.996		0.0000	0.000	4243.4	0.478	VV	0.039	1796.59	0.411
30	4.045		0.0000	0.000	28085.2	3.161	VV	0.039	12013.05	2.751
31	4.188		0.0000	0.000	15168.0	1.707	VV	0.100	2537.62	0.581
32	4.263		0.0000	0.000	6696.9	0.754	VV	0.036	3100.84	0.710
33	4.312		0.0000	0.000	10861.8	1.222	VV	0.052	3479.99	0.797
34	4.397		0.0000	0.000	14295.8	1.609	VV	0.032	7339.09	1.680
35	4.453	Hept. epoxide	0.5792	0.973	7663.9	0.862	VV	0.035	3625.87	0.830
36	4.486		0.0000	0.000	10552.7	1.188	VV	0.036	4843.86	1.109
37	4.556	g. Chlordane	5.1731	8.685	69721.6	7.846	VV	0.035	33574.59	7.688
38	4.657	a. Chlordane	5.8636	9.845	92607.2	10.422	VV	0.042	36364.11	8.326
39	4.786	Endosulfan I	0.3167	0.532	3294.9	0.371	VV	0.030	1826.75	0.418
40	4.827		0.0000	0.000	11000.8	1.238	VV	0.053	3433.66	0.786
41	4.901		0.0000	0.000	9896.4	1.114	VV	0.046	3608.38	0.826
42	4.971	Dieldrin	0.3153	0.529	4456.2	0.501	VV	0.038	1979.37	0.453
43	5.019		0.0000	0.000	7956.2	0.895	VV	0.045	2920.88	0.669
44	5.091		0.0000	0.000	5720.7	0.644	VV	0.053	1805.47	0.413
45	5.155	Kepone	4.8440	8.133	17036.4	1.917	VV	0.039	7209.78	1.651
46	5.217		0.0000	0.000	3244.0	0.365	VV	0.027	1983.54	0.454
47	5.251		0.0000	0.000	16555.2	1.863	VB	0.031	9039.26	2.070
48	5.356	4,4'-DDT	0.2581	0.433	2266.1	0.255	BV	0.035	1084.31	0.248
49	5.427		0.0000	0.000	9424.4	1.061	VV	0.067	2344.78	0.537
50	5.552		0.0000	0.000	5243.1	0.590	VV	0.050	1753.54	0.402
51	5.667		0.0000	0.000	3748.3	0.422	VV	0.094	665.56	0.152
52	5.720	Methoxychlor	0.2785	0.468	993.2	0.112	VV	0.029	577.98	0.132
53	5.759		0.0000	0.000	2491.9	0.280	VV	0.072	576.65	0.132
54	5.878		0.0000	0.000	1844.0	0.208	VV	0.059	516.67	0.118
55	5.902	Endo. sulfate	0.1428	0.240	1096.9	0.123	VV	0.031	587.29	0.134
56	5.941		0.0000	0.000	1558.5	0.175	VV	0.033	784.61	0.180
57	5.987		0.0000	0.000	979.7	0.110	VV	0.032	503.23	0.115
58	6.037		0.0000	0.000	1051.1	0.118	VV	0.042	421.01	0.096
59	6.114	Endrin ketone	0.0503	0.084	442.6	0.050	VV	0.027	274.48	0.063
60	6.153		0.0000	0.000	561.2	0.063	VV	0.026	361.41	0.083
61	6.198		0.0000	0.000	3421.3	0.385	VB	0.069	831.67	0.190
62	6.318		0.0000	0.000	1105.2	0.124	BV	0.039	477.50	0.109
63	6.421		0.0000	0.000	134.7	0.015	VB	0.023	99.25	0.023
64	6.496		0.0000	0.000	242.2	0.027	BB	0.054	74.41	0.017

USF03 1895

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.554		0.0000	0.000	173.6	0.020	BB	0.090	32.10	0.007
66	6.612		0.0000	0.000	805.4	0.091	BB	0.026	526.22	0.120
67	6.674		0.0000	0.000	85.5	0.010	BB	0.045	31.37	0.007
68	6.734 DCB		19.5710	32.858	122904.0	13.832	BB	0.027	75193.43	17.217
69	6.860		0.0000	0.000	37.7	0.004	BB	0.010	62.34	0.014
70	6.910		0.0000	0.000	80.2	0.009	BB	0.019	69.60	0.016
71	6.977		0.0000	0.000	116.6	0.013	BB	0.024	81.18	0.019
72	7.042		0.0000	0.000	160.9	0.018	BB	0.044	60.95	0.014
73	7.247		0.0000	0.000	193.8	0.022	BB	0.077	42.09	0.010
74	7.357		0.0000	0.000	9770.7	1.100	BB	0.096	1704.44	0.390

Total Area = 888573.4, Total Amount = 59.562, Total Height = 436737.5, Sample Units = PPB

USP83 1896

Sample Name: **CHLD21124A AACHLD2AA ICAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 04:36:31pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.27R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.036		0.0000	0.000	123.0	0.048	BB	0.025	81.77	0.044
2	1.941		0.0000	0.000	1114.2	0.434	BV	0.041	450.66	0.243
3	2.044		0.0000	0.000	144.7	0.056	VB	0.019	125.83	0.068
4	2.078		0.0000	0.000	6713.9	2.614	BB	0.017	6538.06	3.532
5	2.307		0.0000	0.000	137.3	0.053	BB	0.017	132.77	0.072
6	2.369		0.0000	0.000	768.8	0.299	BB	0.070	182.58	0.099
7	2.558 TCX		20.7861	32.521	52193.0	20.318	BB	0.018	47916.79	25.889
8	2.740		0.0000	0.000	1216.3	0.473	BB	0.066	306.38	0.166
9	2.815		0.0000	0.000	1415.2	0.551	BB	0.022	1060.66	0.573
10	2.923		0.0000	0.000	183.5	0.071	BV	0.018	174.73	0.094
11	2.954		0.0000	0.000	781.8	0.304	VV	0.020	651.68	0.352
12	3.015		0.0000	0.000	802.0	0.312	VV	0.030	441.60	0.239
13	3.187		0.0000	0.000	542.5	0.211	VV	0.019	473.70	0.256
14	3.214		0.0000	0.000	1573.4	0.612	VV	0.038	691.99	0.374
15	3.311		0.0000	0.000	221.2	0.086	VV	0.025	145.90	0.079
16	3.322 beta-BHC		0.1349	0.211	261.9	0.102	VV	0.017	255.86	0.138
17	3.357		0.0000	0.000	930.2	0.362	VV	0.028	558.11	0.302
18	3.414		0.0000	0.000	1228.5	0.478	VV	0.035	577.11	0.312
19	3.474		0.0000	0.000	728.6	0.284	VV	0.017	716.12	0.387
20	3.502		0.0000	0.000	9162.0	3.567	VV	0.023	6544.53	3.536
21	3.624 Heptachlor		2.0919	3.273	11776.2	4.584	VV	0.025	7700.03	4.160
22	3.713		0.0000	0.000	2201.4	0.857	VV	0.031	1196.89	0.647
23	3.754		0.0000	0.000	2114.5	0.823	VV	0.040	888.01	0.480
24	3.864		0.0000	0.000	991.6	0.386	VV	0.039	428.76	0.232
25	3.958		0.0000	0.000	2791.5	1.087	VV	0.028	1640.50	0.886
26	4.035 Telodrin		2.0769	3.249	8254.9	3.213	VV	0.026	5265.37	2.845
27	4.087		0.0000	0.000	759.3	0.296	VV	0.024	532.96	0.288
28	4.151		0.0000	0.000	1180.9	0.460	VV	0.027	734.52	0.397
29	4.174		0.0000	0.000	1531.0	0.596	VV	0.031	832.88	0.450
30	4.211		0.0000	0.000	2523.8	0.982	VV	0.026	1609.72	0.870
31	4.265		0.0000	0.000	1784.5	0.695	VV	0.025	1178.56	0.637
32	4.339		0.0000	0.000	273.6	0.106	VV	0.019	237.01	0.128
33	4.369		0.0000	0.000	2338.4	0.910	VB	0.022	1771.35	0.957
34	4.429		0.0000	0.000	695.4	0.271	BV	0.023	513.12	0.277
35	4.465		0.0000	0.000	4832.1	1.881	VV	0.026	3087.78	1.668
36	4.501		0.0000	0.000	1508.3	0.587	VV	0.026	957.95	0.518
37	4.558 o,p-DDE		9.0823	14.210	24687.2	9.610	VV	0.023	17797.65	9.616
38	4.632		0.0000	0.000	19531.1	7.603	VV	0.025	13280.81	7.175
39	4.674 a. Chlordane		4.8133	7.531	19388.7	7.548	VB	0.021	15061.07	8.137
40	4.747		0.0000	0.000	68.8	0.027	BV	0.013	87.51	0.047
41	4.788 4,4'-DDE		0.1867	0.292	1009.7	0.393	VB	0.031	540.57	0.292
42	4.865		0.0000	0.000	1673.4	0.651	BB	0.022	1285.71	0.695
43	4.936 Dieldrin		0.6168	0.965	4450.3	1.732	BV	0.038	1942.77	1.050
44	5.009		0.0000	0.000	1532.0	0.596	VV	0.025	1016.63	0.549
45	5.038		0.0000	0.000	3074.2	1.197	VV	0.035	1445.01	0.781
46	5.073		0.0000	0.000	1943.8	0.757	VB	0.021	1554.50	0.840
47	5.143 Endrin		0.6572	1.028	6620.8	2.577	BV	0.065	1684.73	0.910
48	5.223 4,4'-DDD		1.7001	2.660	6648.2	2.588	VV	0.029	3795.77	2.051
49	5.283		0.0000	0.000	2261.3	0.880	VV	0.048	792.33	0.428
50	5.352		0.0000	0.000	5560.1	2.164	VB	0.022	4168.13	2.252
51	5.420		0.0000	0.000	207.0	0.081	BV	0.019	180.20	0.097
52	5.444		0.0000	0.000	182.3	0.071	VB	0.016	186.02	0.101
53	5.576 Endrin aldehyde		0.5741	0.898	2026.2	0.789	BV	0.034	1006.47	0.544
54	5.700		0.0000	0.000	136.3	0.053	VB	0.015	154.14	0.083
55	5.764 Endo. sulfate		0.1077	0.168	319.1	0.124	BV	0.029	186.30	0.101
56	5.900		0.0000	0.000	1261.7	0.491	VB	0.102	206.91	0.112
57	6.120 Endrin ketone		0.0860	0.135	284.4	0.111	BV	0.028	170.05	0.092
58	6.183		0.0000	0.000	400.3	0.156	VB	0.036	185.18	0.100
59	6.344		0.0000	0.000	432.8	0.168	BB	0.035	206.37	0.111
60	6.482		0.0000	0.000	96.9	0.038	BB	0.020	79.20	0.043
61	6.533		0.0000	0.000	73.4	0.029	BB	0.020	62.20	0.034
62	6.587		0.0000	0.000	78.3	0.030	BB	0.019	68.97	0.037
63	6.670		0.0000	0.000	92.4	0.036	BB	0.022	70.57	0.038
64	6.731		0.0000	0.000	265.4	0.103	BB	0.024	185.63	0.100

USF93 1897

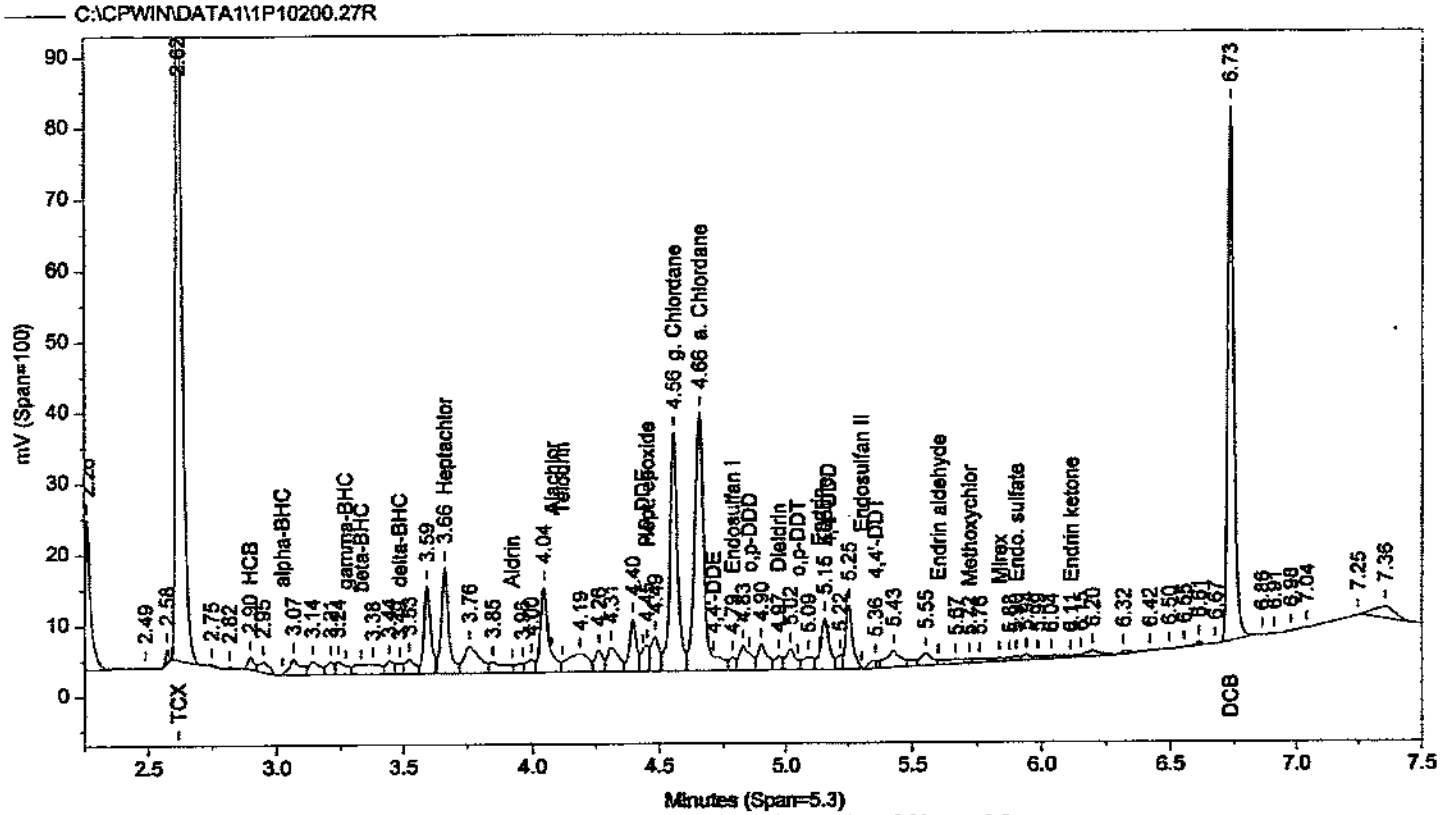
PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.899 DCB		21.0013	32.858	26256.1	10.221	BB	0.021	20839.39	11.259
66	7.137		0.0000	0.000	142.5	0.055	BB	0.029	81.86	0.044
67	7.241		0.0000	0.000	326.4	0.127	BB	0.054	99.91	0.054
68	7.384		0.0000	0.000	50.2	0.020	BB	0.013	63.13	0.034

Total Area = 256881.0, Total Amount = 63.915, Total Height = 185088.0, Sample Units = PPB

USF93 1998

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.27R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 4:29:01 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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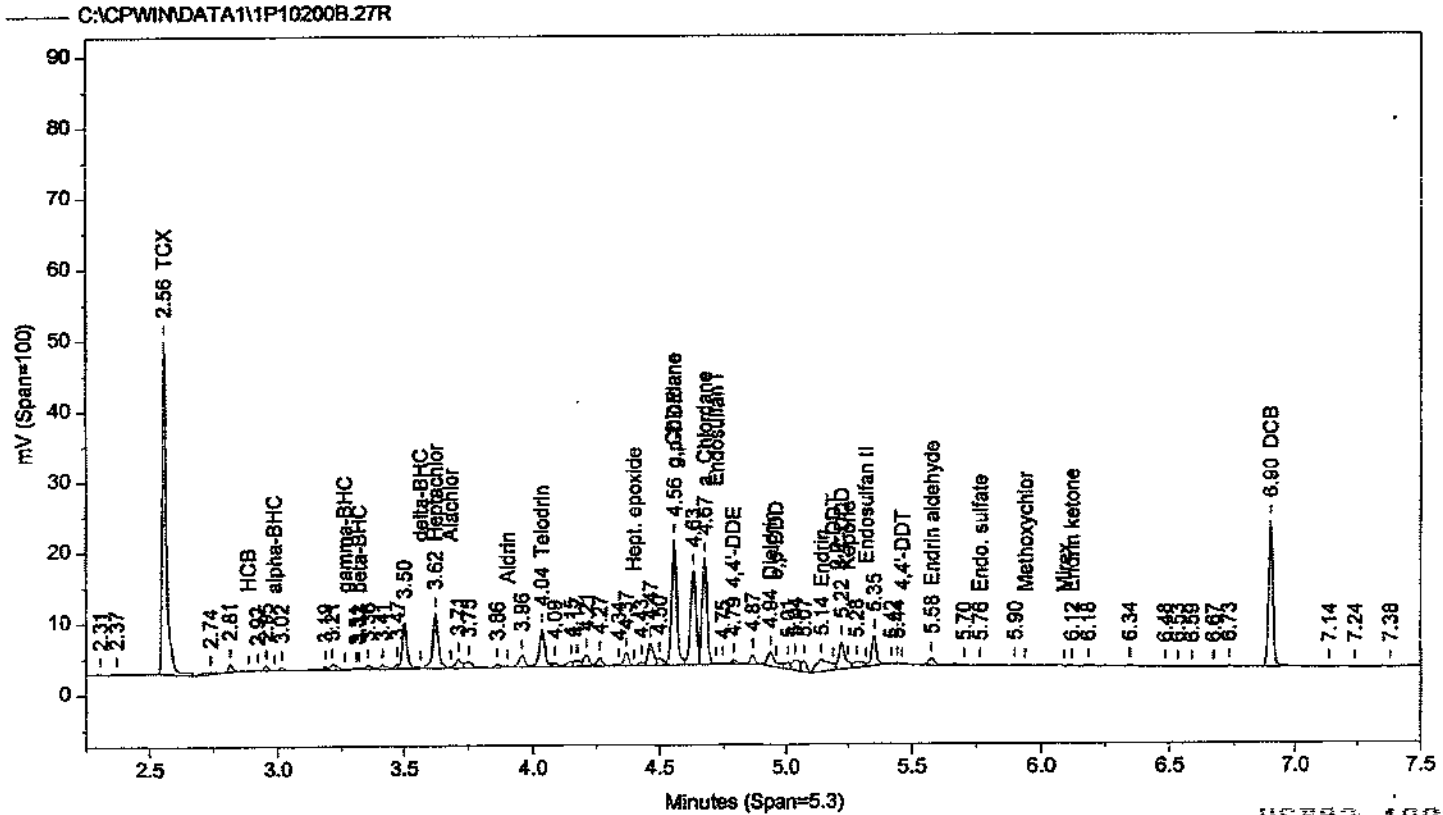


Instrument ID: CP10--H9191B Injected On: 7/19/2011 4:29:01 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USEPA 1899

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

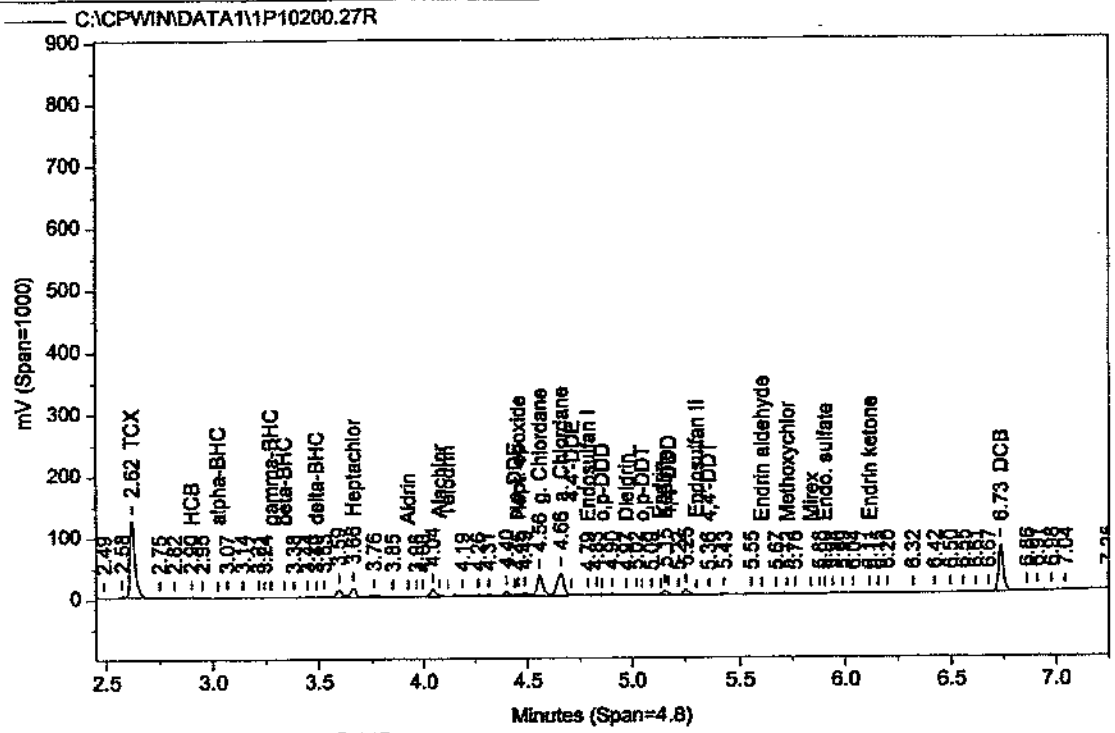
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	124548	19.511	TCX	2.558	47917	20.786	TCX
2.899	1824	.26	HCB	.	0	.	HCB
.	0	.	beta-BHC	3.322	256	.135	beta-BHC
3.486	1486	.206	delta-BHC	.	0	.	delta-BHC
3.663	14922	2.193	Heptachlor	3.624	7700	2.092	Heptachlor
.	0	.	Telodrin	4.035	5265	2.077	Telodrin
4.453	3626	.579	Hept. epoxide	.	0	.	Hept. epoxide
4.556	33575	5.173	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.558	17798	9.082	o,p-DDE
4.657	36364	5.864	a. Chlordane	4.674	15061	4.813	a. Chlordane
4.786	1827	.317	Endosulfan I	.	0	.	Endosulfan I
.	0	.	4,4'-DDE	4.788	541	.187	4,4'-DDE
4.971	1979	.315	Dieldrin	4.936	1943	.617	Dieldrin
.	0	.	Endrin	5.143	1685	.657	Endrin
5.155	7210	4.844	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.223	3796	1.7	4,4'-DDD
5.356	1084	.258	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.576	1006	.574	Endrin aldehyde
5.72	578	.279	Methoxychlor	.	0	.	Methoxychlor
5.902	587	.143	Endo. sulfate	5.764	186	.108	Endo. sulfate
6.114	274	.05	Endrin ketone	6.12	170	.086	Endrin ketone
6.734	75193	19.571	DCB	6.899	20839	21.001	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.27A
Area File: C:\CPWIN\DATA1\1P10200B.27A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 4:36:38 PM
File Reported On: 7/19/2011 at 4:36:51 PM

10X REPLOTS

USPB3 1988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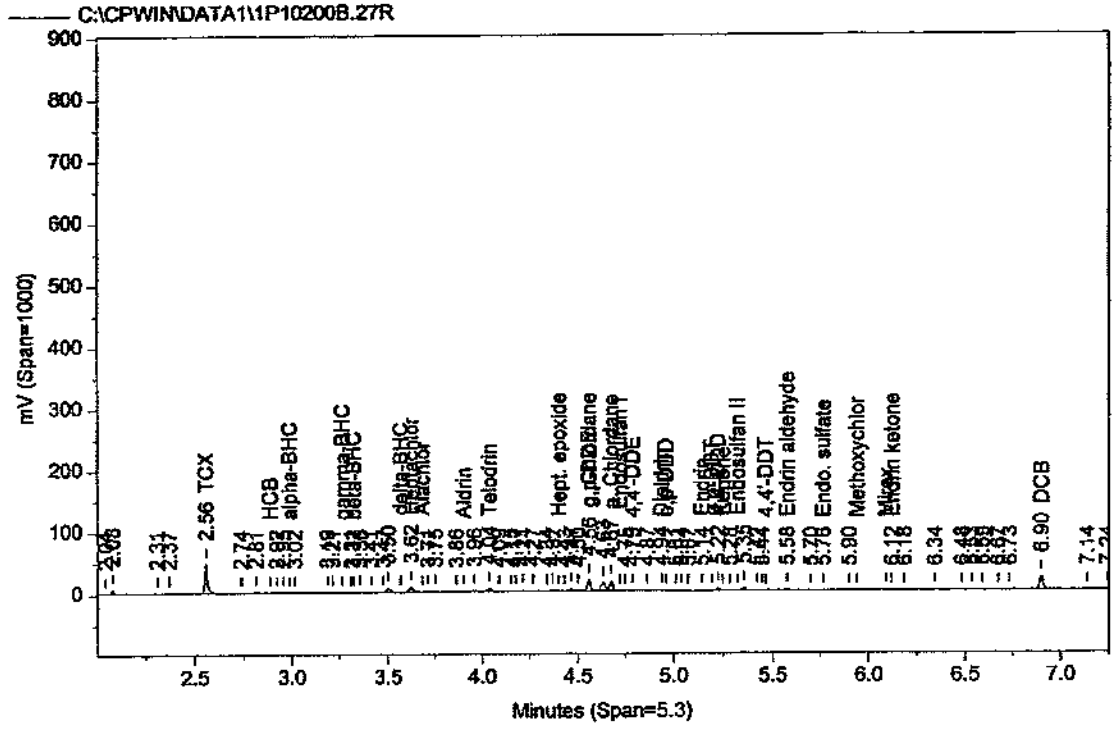
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
HCB
alpha-BHC
Heptachlor
Aldrin
g. Chlordane
a. Chlordane
Endosulfan I
o,p-DDD
Dieldrin
o,p-DDT
Endosulfan II
4,4-DDT
Endrin aldehyde
Methoxychlor
Endo. sulfate
Endrin ketone
6.73 DCB


C:\CPWIN\DATA1\1P10200B.27R
mV (Span=1000)
Minutes (Span=5.3)
2.56 TCX
HCB
alpha-BHC
Aldrin
Telodrin
Hept. epoxide
Endosulfan II
4,4-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
Endrin ketone
6.90 DCB

Sample Name: **CHLD31124A AACHLD3AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 04:51:47pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.28R**
Method File: C:\CPWIN\DATA1\PESTDLMET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.086		0.0000	0.000	246.0	0.018	BB	0.040	103.14	0.014
2	1.776		0.0000	0.000	132.2	0.010	BV	0.014	160.21	0.021
3	1.807		0.0000	0.000	317.0	0.023	VV	0.022	241.49	0.032
4	1.843		0.0000	0.000	2037.3	0.151	VV	0.027	1247.14	0.165
5	1.928		0.0000	0.000	136.1	0.010	VB	0.018	129.20	0.017
6	2.010		0.0000	0.000	1633.6	0.121	BB	0.021	1267.38	0.168
7	2.116		0.0000	0.000	2596.5	0.192	BV	0.045	951.28	0.126
8	2.194		0.0000	0.000	431.4	0.032	VB	0.029	250.25	0.033
9	2.259		0.0000	0.000	1815.8	0.134	BB	0.024	1253.57	0.166
10	2.383		0.0000	0.000	93.0	0.007	BB	0.022	68.95	0.009
11	2.448		0.0000	0.000	113.7	0.008	BB	0.022	86.15	0.011
12	2.490		0.0000	0.000	415.9	0.031	BB	0.031	220.98	0.029
13	2.575		0.0000	0.000	4378.3	0.324	BB	0.016	4544.13	0.601
14	2.618	TCX	38.8063	33.633	374038.5	27.683	BB	0.025	247720.30	32.751
15	2.817		0.0000	0.000	564.3	0.042	BB	0.040	236.11	0.031
16	2.897	HCB	0.4283	0.371	5537.0	0.410	BB	0.031	3003.18	0.397
17	3.064		0.0000	0.000	4707.0	0.348	BV	0.028	2815.66	0.372
18	3.140		0.0000	0.000	2888.6	0.214	VV	0.028	1739.14	0.230
19	3.209		0.0000	0.000	1749.8	0.130	VV	0.025	1163.05	0.154
20	3.241		0.0000	0.000	3634.9	0.269	VV	0.031	1928.77	0.255
21	3.313		0.0000	0.000	1073.7	0.079	VV	0.024	732.71	0.097
22	3.356		0.0000	0.000	1157.9	0.086	VV	0.027	726.58	0.096
23	3.375		0.0000	0.000	1960.4	0.145	VV	0.043	753.00	0.100
24	3.443		0.0000	0.000	2717.0	0.201	VV	0.027	1675.64	0.222
25	3.483	delta-BHC	0.1228	0.106	1264.1	0.094	VV	0.024	887.87	0.117
26	3.523		0.0000	0.000	4084.5	0.302	VV	0.032	2160.68	0.286
27	3.593	——	0.0000	0.000	39295.2	2.908	VV	0.028	23262.91	3.076
28	3.661	Heptachlor ——	4.2194	3.657	49283.3	3.648	VV	0.029	28716.37	3.797
29	3.756		0.0000	0.000	16358.0	1.211	VV	0.052	5196.28	0.687
30	3.848		0.0000	0.000	2254.3	0.167	VV	0.030	1235.11	0.163
31	3.893		0.0000	0.000	685.4	0.051	VV	0.035	329.35	0.044
32	3.995		0.0000	0.000	4264.3	0.316	VV	0.042	1690.25	0.223
33	4.043	——	0.0000	0.000	42638.0	3.156	VV	0.033	21472.62	2.839
34	4.190		0.0000	0.000	16204.1	1.199	VV	0.088	3076.93	0.407
35	4.260		0.0000	0.000	7254.3	0.537	VV	0.031	3948.61	0.522
36	4.310		0.0000	0.000	12724.6	0.942	VV	0.041	5133.77	0.679
37	4.395		0.0000	0.000	22108.8	1.636	VV	0.029	12854.92	1.700
38	4.451	Hept. epoxide	0.8561	0.742	10971.3	0.812	VV	0.034	5358.58	0.708
39	4.484		0.0000	0.000	17467.4	1.293	VV	0.032	8964.39	1.185
40	4.554	g. Chlordane ——	10.1749	8.819	126042.8	9.329	VV	0.032	66037.60	8.731
41	4.654	a. Chlordane ——	12.3902	10.738	182480.4	13.506	VV	0.040	76839.02	10.159
42	4.725	4,4'-DDE	0.3383	0.293	4645.0	0.344	VV	0.039	1963.18	0.260
43	4.785	Endosulfan I	0.3172	0.275	3018.8	0.223	VV	0.027	1829.59	0.242
44	4.825		0.0000	0.000	13575.7	1.005	VV	0.044	5161.00	0.682
45	4.899		0.0000	0.000	12183.3	0.902	VV	0.034	5889.57	0.779
46	4.970	Dieldrin	0.3429	0.297	3882.8	0.287	VV	0.030	2152.39	0.285
47	5.017		0.0000	0.000	8475.9	0.627	VV	0.033	4280.68	0.566
48	5.091		0.0000	0.000	4284.4	0.317	VV	0.045	1584.42	0.209
49	5.153	Kepone	8.2424	7.144	23803.8	1.762	VV	0.032	12268.02	1.622
50	5.215		0.0000	0.000	2510.7	0.186	VV	0.022	1901.26	0.251
51	5.250	——	0.0000	0.000	27059.4	2.003	VV	0.028	16387.22	2.167
52	5.340		0.0000	0.000	1359.7	0.101	VV	0.044	512.34	0.068
53	5.425		0.0000	0.000	8170.8	0.605	VV	0.043	3194.73	0.422
54	5.553		0.0000	0.000	2509.7	0.186	VB	0.041	1015.33	0.134
55	5.617	Endrin aldehyde	0.0407	0.035	193.9	0.014	BB	0.019	166.61	0.022
56	5.660		0.0000	0.000	167.3	0.012	BB	0.016	177.67	0.023
57	5.722	Methoxychlor	0.0896	0.078	259.6	0.019	BV	0.023	186.01	0.025
58	5.746		0.0000	0.000	377.4	0.028	VB	0.024	265.30	0.035
59	5.806		0.0000	0.000	134.9	0.010	BV	0.017	132.93	0.018
60	5.837	Mirex	0.0694	0.060	402.1	0.030	VV	0.027	248.82	0.033
61	5.900	Endo. sulfate	0.1620	0.140	1312.2	0.097	VV	0.033	666.22	0.088
62	5.939		0.0000	0.000	1317.8	0.098	VB	0.024	896.50	0.119
63	5.987		0.0000	0.000	536.9	0.040	BV	0.020	438.90	0.058
64	6.047		0.0000	0.000	203.3	0.015	VV	0.024	139.53	0.018

USF83 1982

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.127		0.0000	0.000	176.4	0.013	VV	0.037	79.87	0.011
66	6.198		0.0000	0.000	2684.4	0.199	VB	0.040	1117.12	0.148
67	6.319		0.0000	0.000	952.5	0.070	BV	0.033	480.78	0.064
68	6.392		0.0000	0.000	79.9	0.006	VB	0.021	62.63	0.008
69	6.453		0.0000	0.000	128.0	0.009	BB	0.039	54.08	0.007
70	6.498		0.0000	0.000	100.4	0.007	BB	0.032	52.66	0.007
71	6.544		0.0000	0.000	110.8	0.008	BB	0.024	76.70	0.010
72	6.609		0.0000	0.000	3374.2	0.250	BB	0.043	1313.97	0.174
73	6.731	DCB	38.7804	33.611	240986.3	17.836	BB	0.027	148997.30	19.699
74	6.853		0.0000	0.000	123.1	0.009	BB	0.018	111.25	0.015
75	6.963		0.0000	0.000	382.2	0.028	BB	0.036	177.73	0.023
76	7.057		0.0000	0.000	581.0	0.043	BB	0.106	91.00	0.012
77	7.237		0.0000	0.000	487.0	0.036	BB	0.033	242.75	0.032
78	7.359		0.0000	0.000	10821.7	0.801	BB	0.096	1883.10	0.249

Total Area = 1351130.0, Total Amount = 115.381, Total Height = 756382.6, Sample Units = PPB

Sample Name: **CHLD31124A AACHLD3AA ICAL 1119599999**
Acquired from CP10–H9191B via port 2 on 7/19/11 04:51:47pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.28R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.017		0.0000	0.000	68.1	0.016	BB	0.014	79.46	0.023
3	1.942		0.0000	0.000	958.5	0.219	BV	0.023	701.69	0.204
4	2.004		0.0000	0.000	254.7	0.058	VV	0.023	181.54	0.053
5	2.044		0.0000	0.000	300.7	0.069	VV	0.017	289.89	0.084
6	2.079		0.0000	0.000	320.8	0.073	VB	0.013	396.32	0.115
7	2.207		0.0000	0.000	63.1	0.014	BB	0.016	67.21	0.020
8	2.296		0.0000	0.000	223.2	0.051	BB	0.032	116.18	0.034
9	2.349		0.0000	0.000	301.1	0.069	BB	0.041	122.20	0.036
10	2.490		0.0000	0.000	125.4	0.029	BB	0.025	82.74	0.024
11	2.558 TCX		42.4420	33.872	97601.1	22.323	BB	0.017	97838.63	28.477
12	2.736		0.0000	0.000	105.9	0.024	BB	0.023	76.86	0.022
13	2.815		0.0000	0.000	1730.4	0.396	BB	0.019	1516.07	0.441
14	2.891 HCB		0.0232	0.018	70.3	0.016	BB	0.016	72.76	0.021
15	2.923		0.0000	0.000	335.9	0.077	BV	0.016	341.55	0.099
16	2.954		0.0000	0.000	1557.3	0.356	VV	0.019	1351.68	0.393
17	3.014		0.0000	0.000	1372.3	0.314	VV	0.029	798.85	0.233
18	3.185		0.0000	0.000	915.1	0.209	VV	0.022	692.16	0.201
19	3.215		0.0000	0.000	2326.2	0.532	VV	0.030	1297.38	0.378
20	3.296		0.0000	0.000	445.1	0.102	VV	0.033	223.73	0.065
21	3.321 beta-BHC		0.2007	0.160	534.5	0.122	VV	0.023	380.69	0.111
22	3.357		0.0000	0.000	1358.5	0.311	VV	0.021	1062.24	0.309
23	3.414		0.0000	0.000	1792.5	0.410	VV	0.033	898.19	0.261
24	3.474		0.0000	0.000	1259.9	0.288	VV	0.017	1254.05	0.365
25	3.502		0.0000	0.000	17173.5	3.928	VV	0.022	13038.55	3.795
26	3.624 Heptachlor		4.2566	3.397	22213.8	5.081	VV	0.024	15667.99	4.560
27	3.713		0.0000	0.000	3227.6	0.738	VV	0.027	2021.20	0.588
28	3.754		0.0000	0.000	3623.1	0.829	VB	0.038	1584.42	0.461
29	3.863		0.0000	0.000	1197.9	0.274	BV	0.030	676.19	0.197
30	3.956		0.0000	0.000	3145.1	0.719	VV	0.025	2130.71	0.620
31	4.035 Telodrin		3.9255	3.133	14667.1	3.355	VV	0.025	9951.92	2.897
32	4.086		0.0000	0.000	1330.3	0.304	VV	0.026	862.49	0.251
33	4.150		0.0000	0.000	2330.1	0.533	VV	0.031	1240.22	0.361
34	4.176		0.0000	0.000	1895.6	0.434	VV	0.023	1375.12	0.400
35	4.211		0.0000	0.000	4639.1	1.061	VV	0.025	3032.33	0.883
36	4.264		0.0000	0.000	2610.4	0.597	VV	0.022	2021.33	0.588
37	4.371		0.0000	0.000	7265.5	1.662	VB	0.022	5386.34	1.568
38	4.429		0.0000	0.000	936.3	0.214	BV	0.021	737.58	0.215
39	4.465		0.0000	0.000	9235.9	2.112	VV	0.026	6034.08	1.756
40	4.500		0.0000	0.000	2564.2	0.586	VV	0.025	1735.35	0.505
41	4.558 o,p-DDE		17.9641	14.337	47446.9	10.852	VV	0.022	35202.48	10.246
42	4.633		0.0000	0.000	37667.3	8.615	VV	0.024	25715.31	7.485
43	4.674 a. Chlordane		9.5941	7.657	38006.3	8.693	VB	0.021	30020.39	8.738
44	4.753		0.0000	0.000	147.0	0.034	BV	0.015	160.41	0.047
45	4.790 4,4'-DDE		0.3256	0.260	1897.0	0.434	VB	0.034	942.59	0.274
46	4.865		0.0000	0.000	3189.2	0.729	BB	0.023	2351.18	0.684
47	4.937 Dieldrin		1.1288	0.901	6277.2	1.436	BV	0.029	3555.50	1.035
48	5.009		0.0000	0.000	1211.3	0.277	VV	0.024	834.68	0.243
49	5.039		0.0000	0.000	2669.6	0.611	VV	0.033	1366.55	0.398
50	5.075		0.0000	0.000	1566.7	0.358	VB	0.019	1400.60	0.408
51	5.141		0.0000	0.000	4788.8	1.095	BV	0.042	1880.21	0.547
52	5.223 4,4'-DDD		2.7345	2.182	8772.9	2.006	VV	0.024	6105.31	1.777
53	5.284		0.0000	0.000	1105.1	0.253	VV	0.022	845.88	0.246
54	5.302 Endosulfan II		0.3706	0.296	998.9	0.228	VV	0.020	827.84	0.241
55	5.352		0.0000	0.000	9699.5	2.218	VB	0.021	7684.91	2.237
56	5.421		0.0000	0.000	525.2	0.120	BV	0.023	386.82	0.113
57	5.444		0.0000	0.000	971.7	0.222	VB	0.036	446.72	0.130
58	5.577 Endrin aldehyde		0.8902	0.710	2377.5	0.544	BV	0.025	1560.60	0.454
59	5.643		0.0000	0.000	351.4	0.080	VV	0.022	270.31	0.079
60	5.667		0.0000	0.000	655.2	0.150	VB	0.029	379.96	0.111
61	5.765 Endo. sulfate		0.1189	0.095	305.8	0.070	BV	0.025	205.69	0.060
62	5.803		0.0000	0.000	765.9	0.175	VB	0.050	256.56	0.075
63	5.902		0.0000	0.000	314.1	0.072	BB	0.020	263.10	0.077
64	6.007		0.0000	0.000	284.2	0.065	BV	0.039	122.50	0.036
65	6.071		0.0000	0.000	574.3	0.131	VV	0.026	362.81	0.106

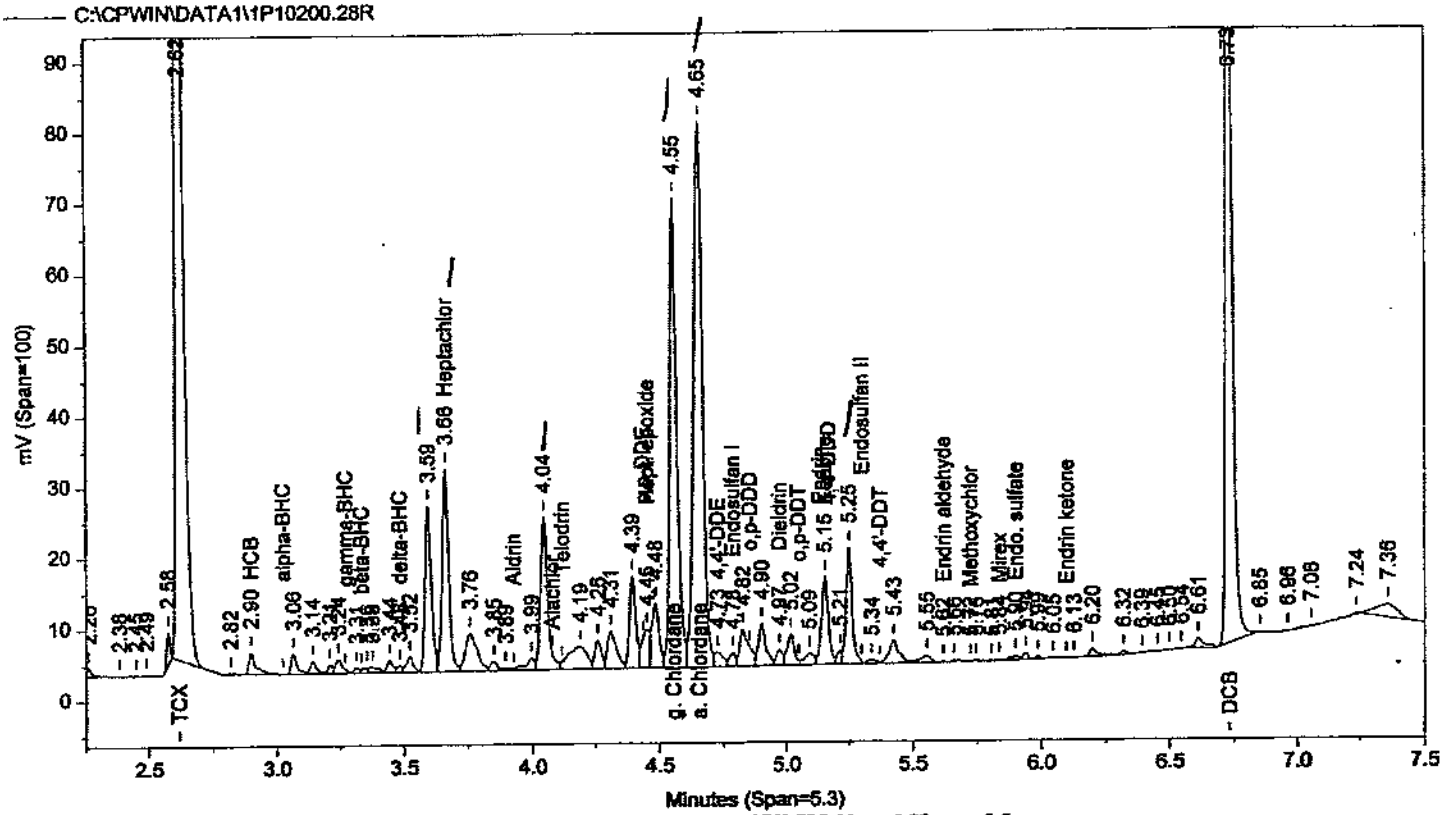
USF63 1984

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
66	6.119	Endrin ketone	0.1315	0.105	361.4	0.083	VB	0.023	260.04	0.076
67	6.176		0.0000	0.000	190.3	0.044	BB	0.018	172.66	0.050
68	6.251		0.0000	0.000	136.8	0.031	BB	0.018	125.51	0.037
69	6.282		0.0000	0.000	49.3	0.011	BB	0.014	59.25	0.017
70	6.343		0.0000	0.000	429.6	0.098	BB	0.019	384.56	0.112
71	6.560		0.0000	0.000	50.8	0.012	BB	0.012	71.47	0.021
72	6.590		0.0000	0.000	162.1	0.037	BB	0.022	121.73	0.035
73	6.678		0.0000	0.000	116.9	0.027	BB	0.022	87.51	0.025
74	6.731		0.0000	0.000	446.7	0.102	BB	0.019	387.30	0.113
75	6.797		0.0000	0.000	30.5	0.007	BB	0.006	86.28	0.025
76	6.858		0.0000	0.000	51.2	0.012	BB	0.012	72.02	0.021
77	6.896	DCB	41.1959	32.877	49956.2	11.426	BB	0.020	40878.19	11.898
78	7.061		0.0000	0.000	32.3	0.007	BB	0.007	78.42	0.023
79	7.181		0.0000	0.000	257.5	0.059	BB	0.035	121.50	0.035
80	7.237		0.0000	0.000	266.4	0.061	BB	0.045	98.09	0.029
81	7.408		0.0000	0.000	40.5	0.009	BB	0.009	75.19	0.022

Total Area = 437223.4, Total Amount = 125.302, Total Height = 343566.5, Sample Units = PPB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.28R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 4:44:17 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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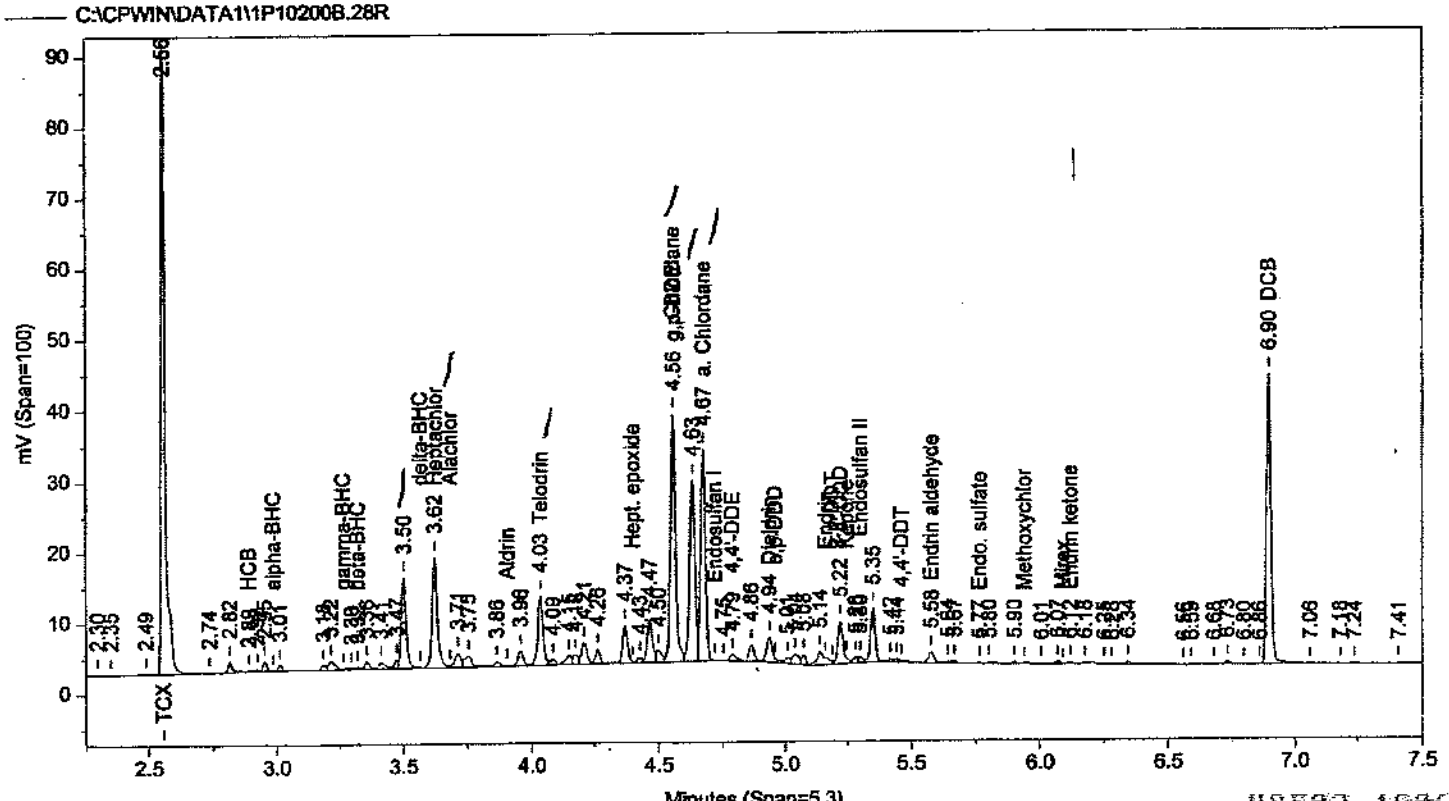

Instrument ID: CP10--H9191B Injected On: 7/19/2011 4:44:17 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USTS3 1986

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 1
Analyst: 0856

Dilution Factor: 1

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	247720	38.806	TCX	2.558	97839	42.442	TCX
2.897	3003	.428	HCB	2.891	73	.023	HCB
.	0	.	beta-BHC	3.321	381	.201	beta-BHC
3.483	888	.123	delta-BHC	.	0	.	delta-BHC
3.661	28716	4.219	Heptachlor	3.624	15668	4.257	Heptachlor
.	0	.	Telodrin	4.035	9952	3.925	Telodrin
4.451	5359	.856	Hept. epoxide	.	0	.	Hept. epoxide
4.554	66038	10.175	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.558	35202	17.964	o,p-DDE
4.654	76839	12.39	a. Chlordane	4.674	30020	9.594	a. Chlordane
4.725	1963	.338	4,4'-DDE	4.79	943	.326	4,4'-DDE
4.785	1830	.317	Endosulfan I	.	0	.	Endosulfan I
4.97	2152	.343	Dieldrin	4.937	3555	1.129	Dieldrin
5.153	12268	8.242	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.223	6105	2.734	4,4'-DDD
.	0	.	Endosulfan II	5.302	828	.371	Endosulfan II
5.617	167	.041	Endrin aldehyde	5.577	1561	.89	Endrin aldehyde
5.722	186	.09	Methoxychlor	.	0	.	Methoxychlor
5.9	666	.162	Endo. sulfate	5.765	206	.119	Endo. sulfate
5.837	249	.069	Mirex	.	0	.	Mirex
.	0	.	Endrin ketone	6.119	260	.131	Endrin ketone
6.731	148997	38.78	DCB	6.896	40878	41.196	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.28A
Area File: C:\CPWIN\DATA1\1P10200B.28A
Method A: C:\CPWIN\DATA1\PESTD1.MET
Method B: C:\CPWIN\DATA1\PESTD1B.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 4:51:54 PM
File Reported On: 7/19/2011 at 4:52:07 PM

10X REPLOTS

UST03 1982

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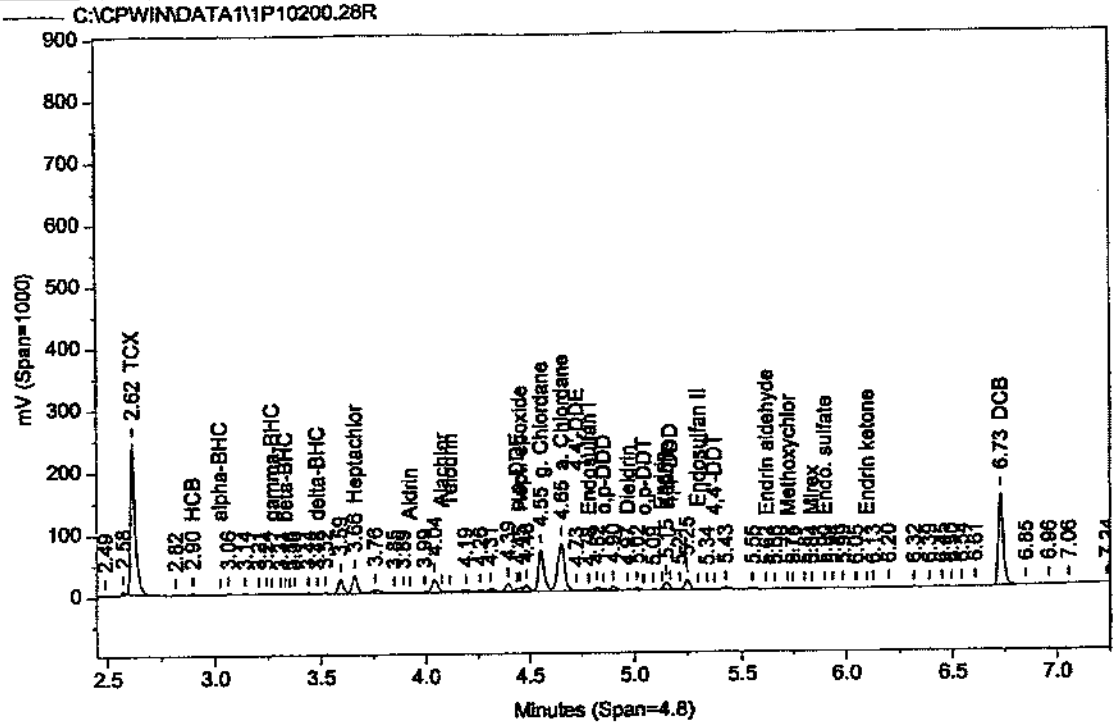

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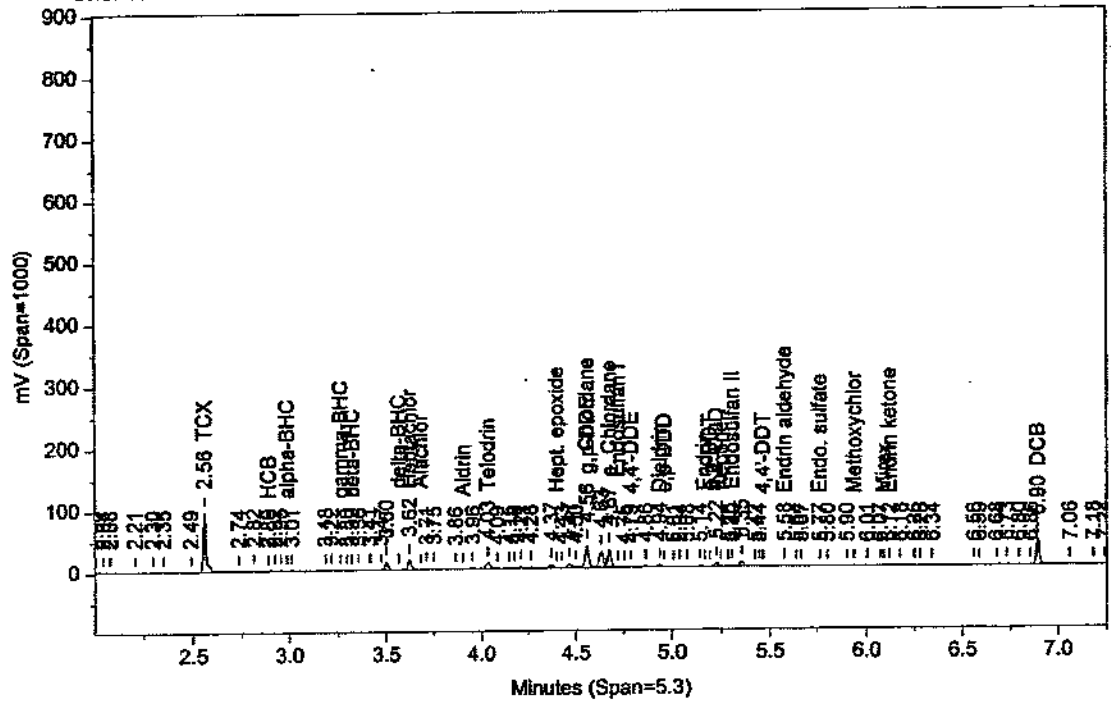


Sample Name: **CHLD41124A AACHLD4AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 05:07:33pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.29R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.770		0.0000	0.000	342.1	0.014	BV	0.032	175.72	0.013
2	1.841		0.0000	0.000	6676.7	0.279	VV	0.038	2909.28	0.222
3	2.009		0.0000	0.000	8573.4	0.358	VB	0.052	2726.81	0.208
4	2.116		0.0000	0.000	3696.0	0.154	BV	0.049	1249.62	0.095
5	2.190		0.0000	0.000	1211.3	0.051	VV	0.032	637.53	0.049
6	2.258		0.0000	0.000	1747.2	0.073	VB	0.025	1173.28	0.090
7	2.320		0.0000	0.000	186.6	0.008	BB	0.018	168.14	0.013
8	2.513		0.0000	0.000	202.2	0.008	BB	0.045	74.63	0.006
9	2.574		0.0000	0.000	8443.1	0.352	BB	0.016	9017.27	0.688
10	2.618 TCX		56.7644	29.616	548284.8	22.876	BB	0.025	362356.40	27.657
11	2.822		0.0000	0.000	472.5	0.020	BB	0.036	221.65	0.017
12	2.896 HCB		0.6236	0.325	7955.1	0.332	BB	0.030	4372.91	0.334
13	3.063		0.0000	0.000	9235.7	0.385	BV	0.028	5559.88	0.424
14	3.140		0.0000	0.000	6113.9	0.255	VV	0.030	3417.27	0.261
15	3.208		0.0000	0.000	4404.5	0.184	VV	0.026	2811.96	0.215
16	3.241		0.0000	0.000	7296.0	0.304	VV	0.032	3758.53	0.287
17	3.312		0.0000	0.000	2581.1	0.108	VV	0.028	1550.79	0.118
18	3.356		0.0000	0.000	2399.2	0.100	VV	0.028	1414.59	0.108
19	3.374		0.0000	0.000	3846.2	0.160	VV	0.041	1552.56	0.119
20	3.442		0.0000	0.000	6532.7	0.273	VV	0.031	3470.03	0.265
21	3.480 delta-BHC		0.2594	0.135	2810.1	0.117	VV	0.025	1875.81	0.143
22	3.522		0.0000	0.000	8399.8	0.350	VV	0.031	4484.58	0.342
23	3.592		0.0000	0.000	80536.1	3.360	VV	0.028	47233.48	3.605
24	3.660 Heptachlor		8.5451	4.458	100303.0	4.185	VV	0.029	58155.70	4.439
25	3.756		0.0000	0.000	33311.5	1.390	VV	0.053	10523.40	0.803
26	3.847		0.0000	0.000	5364.4	0.224	VV	0.034	2613.25	0.199
27	3.893		0.0000	0.000	1611.3	0.067	VV	0.028	943.36	0.072
28	3.962		0.0000	0.000	4369.2	0.182	VV	0.048	1526.49	0.117
29	3.994		0.0000	0.000	6254.6	0.261	VV	0.028	3743.63	0.286
30	4.041		0.0000	0.000	85624.2	3.573	VV	0.033	42773.71	3.265
31	4.187		0.0000	0.000	33500.1	1.398	VV	0.087	6404.94	0.489
32	4.259		0.0000	0.000	15089.3	0.630	VV	0.031	8168.87	0.623
33	4.309		0.0000	0.000	27425.5	1.144	VV	0.042	10798.28	0.824
34	4.393		0.0000	0.000	46255.8	1.930	VV	0.029	26254.62	2.004
35	4.448 Hept. epoxide		1.7645	0.921	21102.0	0.880	VV	0.032	11044.96	0.843
36	4.482		0.0000	0.000	36473.4	1.522	VV	0.034	18073.50	1.379
37	4.552 g. Chlordane		20.6406	10.769	258808.0	10.798	VV	0.032	133962.90	10.225
38	4.652 a. Chlordane		24.6488	12.860	362883.3	15.141	VV	0.040	152862.70	11.667
39	4.723 4,4'-DDE		0.7476	0.390	9980.1	0.416	VV	0.038	4338.06	0.331
40	4.783 Endosulfan I		0.6864	0.358	7228.7	0.302	VV	0.030	3958.75	0.302
41	4.823		0.0000	0.000	28840.7	1.203	VV	0.044	11004.08	0.840
42	4.897		0.0000	0.000	25341.2	1.057	VV	0.036	11881.93	0.907
43	4.968 Dieldrin		0.7231	0.377	8770.6	0.366	VV	0.032	4539.11	0.346
44	5.015		0.0000	0.000	17899.3	0.747	VV	0.034	8661.16	0.661
45	5.089		0.0000	0.000	10124.5	0.422	VV	0.049	3472.73	0.265
46	5.151 Kepone		16.8025	8.767	48101.0	2.007	VV	0.032	25008.82	1.909
47	5.213		0.0000	0.000	5145.8	0.215	VV	0.022	3988.20	0.304
48	5.248		0.0000	0.000	56467.7	2.356	VV	0.028	33463.90	2.554
49	5.342		0.0000	0.000	3017.5	0.126	VV	0.044	1141.29	0.087
50	5.423		0.0000	0.000	17775.5	0.742	VV	0.044	6686.79	0.510
51	5.496		0.0000	0.000	935.2	0.039	VV	0.024	649.06	0.050
52	5.550		0.0000	0.000	5760.3	0.240	VV	0.043	2214.96	0.169
53	5.614 Endrin aldehyde		0.1130	0.059	609.2	0.025	VV	0.022	462.02	0.035
54	5.660		0.0000	0.000	1444.8	0.060	VV	0.043	561.72	0.043
55	5.716 Methoxychlor		0.2068	0.108	498.4	0.021	VV	0.019	429.09	0.033
56	5.741		0.0000	0.000	995.2	0.042	VB	0.026	635.21	0.048
57	5.802		0.0000	0.000	238.0	0.010	BV	0.024	164.10	0.013
58	5.834 Mirex		0.1650	0.086	770.4	0.032	VV	0.022	591.78	0.045
59	5.877		0.0000	0.000	996.9	0.042	VV	0.020	823.08	0.063
60	5.897 Endo. sulfate		0.2954	0.154	1839.1	0.077	VV	0.025	1215.00	0.093
61	5.936		0.0000	0.000	2960.6	0.124	VV	0.025	1965.50	0.150
62	5.983		0.0000	0.000	1715.3	0.072	VV	0.033	878.27	0.067
63	6.078 Endrin ketone		0.0299	0.016	285.5	0.012	VB	0.029	163.19	0.012
64	6.195		0.0000	0.000	2944.9	0.123	BV	0.032	1557.54	0.119

USF93 1989

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.254		0.0000	0.000	774.1	0.032	VB	0.028	457.56	0.035
66	6.497		0.0000	0.000	1127.5	0.047	BB	0.299	62.88	0.005
67	6.536		0.0000	0.000	84.9	0.004	BB	0.019	75.63	0.006
68	6.607		0.0000	0.000	2955.5	0.123	BB	0.030	1653.14	0.126
69	6.731	DCB	58.6504	30.600	364751.2	15.219	BB	0.027	225339.20	17.199
70	6.954		0.0000	0.000	500.6	0.021	BB	0.025	335.84	0.026
71	7.027		0.0000	0.000	538.8	0.022	BB	0.038	234.03	0.018
72	7.233		0.0000	0.000	449.4	0.019	BB	0.025	293.77	0.022
73	7.308		0.0000	0.000	77.8	0.003	BB	0.018	72.40	0.006
74	7.357		0.0000	0.000	4459.6	0.186	BB	0.066	1122.97	0.086

Total Area = 2396727.0, Total Amount = 191.666, Total Height = 1310166.0, Sample Units = PPB

Sample Name: **CHLD41124A AACHLD4AA ICAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 05:07:33pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.29R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.939		0.0000	0.000	1197.5	0.157	BV	0.020	993.02	0.168
2	1.977		0.0000	0.000	591.7	0.078	VV	0.030	327.08	0.055
3	2.010		0.0000	0.000	515.6	0.068	VV	0.033	264.13	0.045
4	2.043		0.0000	0.000	416.0	0.055	VV	0.018	377.10	0.064
5	2.077		0.0000	0.000	361.9	0.048	VB	0.018	332.93	0.056
6	2.112		0.0000	0.000	262.7	0.034	BB	0.028	158.79	0.027
7	2.463		0.0000	0.000	50.0	0.007	BB	0.010	82.84	0.014
8	2.557	TCX	60.3251	29.816	142123.5	18.662	BB	0.017	139063.50	23.555
9	2.723		0.0000	0.000	88.5	0.012	BB	0.021	70.71	0.012
10	2.762		0.0000	0.000	43.9	0.006	BB	0.011	65.20	0.011
11	2.814		0.0000	0.000	2582.9	0.339	BB	0.021	2049.52	0.347
12	2.922		0.0000	0.000	407.0	0.053	BV	0.018	386.47	0.065
13	2.952		0.0000	0.000	2805.0	0.368	VB	0.019	2490.54	0.422
14	3.013		0.0000	0.000	1759.8	0.231	BB	0.019	1531.03	0.259
15	3.184		0.0000	0.000	1874.1	0.246	BV	0.020	1550.92	0.263
16	3.214		0.0000	0.000	4398.8	0.578	VV	0.030	2484.41	0.421
17	3.270	gamma-BHC	0.0838	0.041	447.1	0.059	VV	0.020	382.14	0.065
18	3.290		0.0000	0.000	506.4	0.067	VV	0.021	392.93	0.067
19	3.322	beta-BHC	0.3345	0.165	769.2	0.101	VV	0.020	634.67	0.108
20	3.357		0.0000	0.000	2389.3	0.314	VV	0.020	1944.82	0.329
21	3.412		0.0000	0.000	3064.6	0.402	VV	0.032	1582.55	0.268
22	3.473		0.0000	0.000	2569.1	0.337	VV	0.018	2384.30	0.404
23	3.501		0.0000	0.000	33635.2	4.417	VV	0.021	26367.58	4.466
24	3.622	Heptachlor	8.4488	4.176	42881.2	5.631	VV	0.023	31098.78	5.268
25	3.712		0.0000	0.000	6170.7	0.810	VV	0.027	3743.08	0.634
26	3.752		0.0000	0.000	6200.1	0.814	VB	0.035	2940.21	0.498
27	3.862		0.0000	0.000	1888.6	0.248	BV	0.025	1254.82	0.213
28	3.954		0.0000	0.000	5679.6	0.746	VV	0.024	3885.70	0.658
29	4.033	Telodria	7.4628	3.688	27542.2	3.617	VV	0.024	18919.88	3.205
30	4.085		0.0000	0.000	2380.6	0.313	VV	0.026	1527.35	0.259
31	4.149		0.0000	0.000	4008.4	0.526	VV	0.029	2284.17	0.387
32	4.174		0.0000	0.000	3926.3	0.516	VV	0.026	2512.17	0.426
33	4.210		0.0000	0.000	8584.2	1.127	VV	0.025	5836.78	0.989
34	4.263		0.0000	0.000	4862.3	0.638	VB	0.021	3847.72	0.652
35	4.304		0.0000	0.000	320.4	0.042	BV	0.017	323.20	0.055
36	4.368		0.0000	0.000	12690.8	1.666	VV	0.022	9481.98	1.606
37	4.426		0.0000	0.000	1788.3	0.235	VV	0.021	1396.95	0.237
38	4.463		0.0000	0.000	17153.4	2.252	VV	0.025	11586.49	1.963
39	4.498		0.0000	0.000	4849.9	0.637	VV	0.025	3210.15	0.544
40	4.555	o,p-DDE	35.0394	17.318	92712.0	12.174	VV	0.023	68663.44	11.631
41	4.630		0.0000	0.000	73683.1	9.675	VV	0.024	50537.82	8.560
42	4.672	a. Chlordane	18.5614	9.174	71896.2	9.441	VB	0.021	58079.52	9.838
43	4.752		0.0000	0.000	234.2	0.031	BV	0.015	265.90	0.045
44	4.786	4,4'-DDE	0.6411	0.317	3724.6	0.489	VB	0.033	1855.85	0.314
45	4.862		0.0000	0.000	6054.2	0.795	BB	0.022	4669.22	0.791
46	4.934	Dieldrin	2.0536	1.015	11172.0	1.467	BV	0.029	6468.70	1.096
47	5.008		0.0000	0.000	2251.0	0.296	VV	0.024	1561.48	0.264
48	5.036		0.0000	0.000	5093.9	0.669	VV	0.031	2714.50	0.460
49	5.072		0.0000	0.000	2819.5	0.370	VB	0.018	2603.78	0.441
50	5.139		0.0000	0.000	9251.2	1.215	BV	0.045	3431.25	0.581
51	5.221	4,4'-DDD	5.2887	2.614	16607.9	2.181	VV	0.023	11808.16	2.000
52	5.281		0.0000	0.000	2036.7	0.267	VV	0.021	1605.97	0.272
53	5.300	Endosulfan II	0.7017	0.347	2095.8	0.275	VV	0.022	1567.65	0.266
54	5.350		0.0000	0.000	18584.7	2.440	VB	0.021	14971.93	2.536
55	5.418		0.0000	0.000	1025.0	0.135	BV	0.022	779.70	0.132
56	5.443		0.0000	0.000	1988.9	0.261	VB	0.037	902.15	0.153
57	5.574	Endrin aldehyde	1.6850	0.833	4483.0	0.589	BV	0.025	2953.93	0.500
58	5.664		0.0000	0.000	1714.3	0.225	VB	0.042	675.60	0.114
59	5.761	Endo. sulfate	0.1553	0.077	320.3	0.042	BB	0.020	268.79	0.046
60	5.800		0.0000	0.000	246.4	0.032	BB	0.016	261.53	0.044
61	5.899		0.0000	0.000	625.8	0.082	BV	0.021	505.24	0.086
62	5.945	Methoxychlor	0.3868	0.191	427.7	0.056	VB	0.026	273.72	0.046
63	6.001		0.0000	0.000	242.2	0.032	BV	0.030	134.69	0.023
64	6.071	Mirex	0.5004	0.247	983.5	0.129	VV	0.027	608.52	0.103

USF03 1911

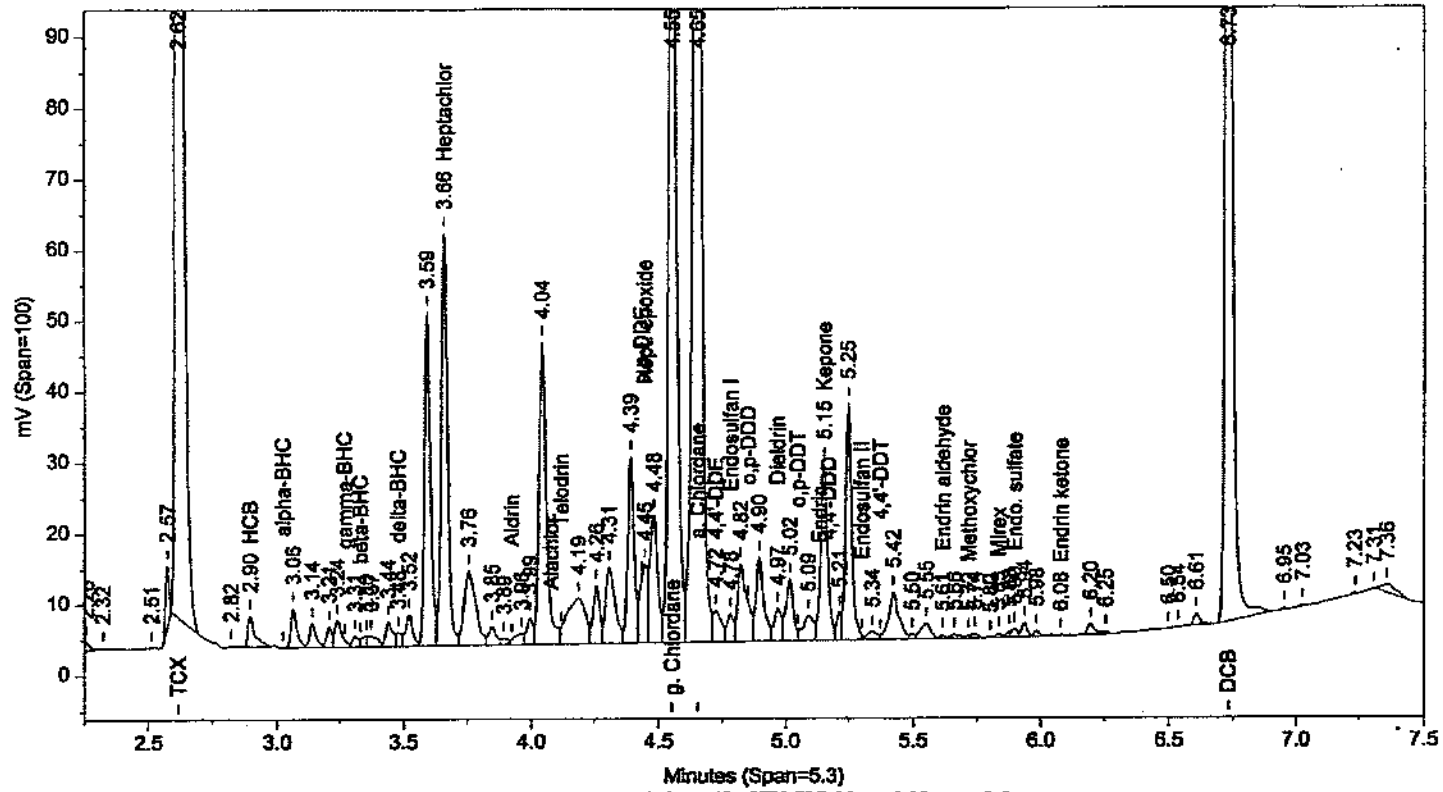
PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.117	Endrin ketone	0.2651	0.131	792.4	0.104	VV	0.025	524.46	0.089
66	6.201		0.0000	0.000	574.6	0.075	VB	0.019	497.88	0.084
67	6.342		0.0000	0.000	919.3	0.121	BB	0.027	570.98	0.097
68	6.591		0.0000	0.000	188.4	0.025	BB	0.030	104.90	0.018
69	6.676		0.0000	0.000	135.0	0.018	BB	0.022	102.54	0.017
70	6.730		0.0000	0.000	797.2	0.105	BB	0.024	557.93	0.095
71	6.896	DCB	60.3938	29.850	73792.5	9.690	BB	0.021	59928.02	10.151
72	7.247		0.0000	0.000	294.4	0.039	BB	0.033	150.11	0.025

Total Area = 761555.0, Total Amount = 202.327, Total Height = 590372.6, Sample Units = PPB

USF83 1912

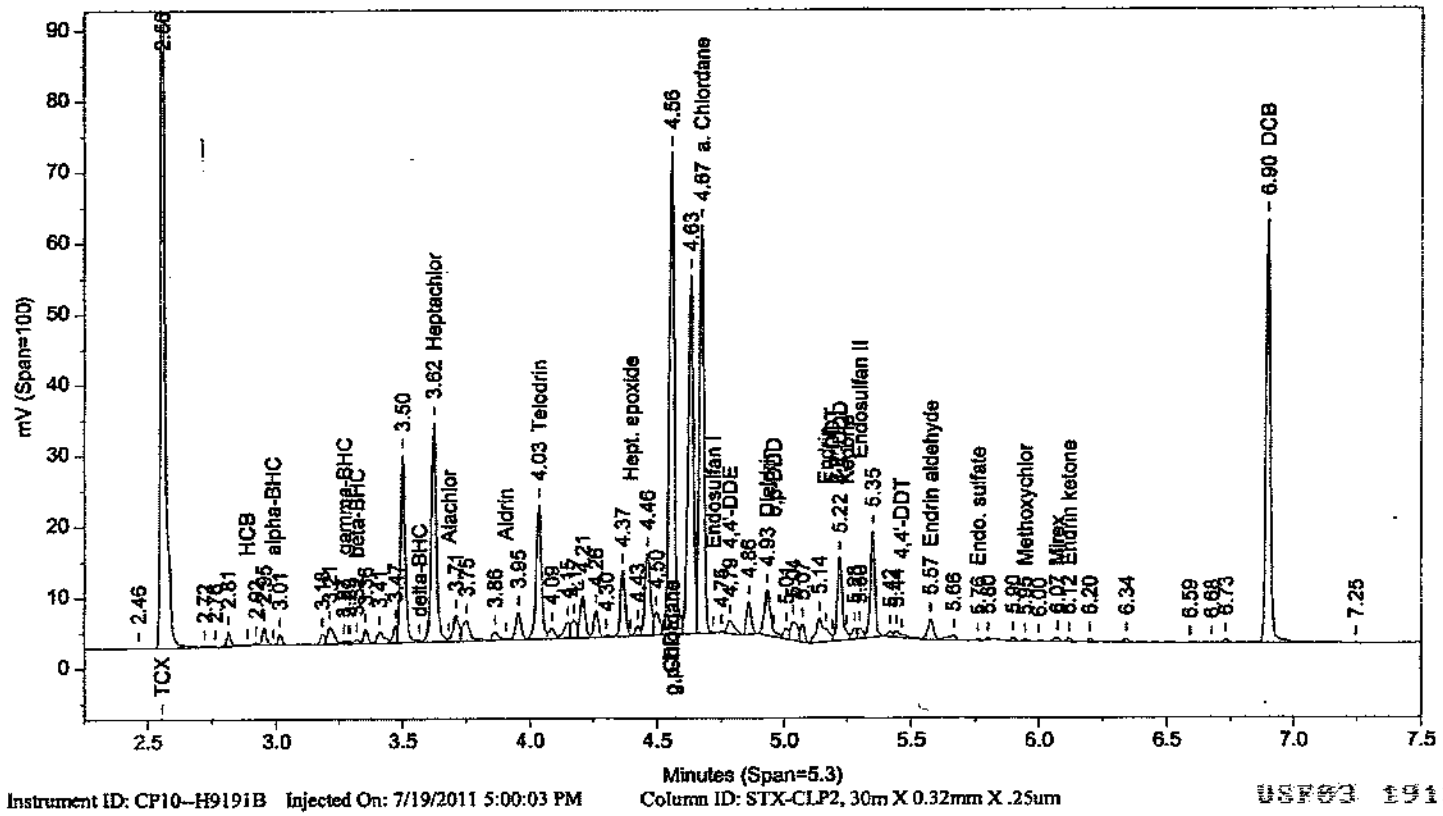
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.29R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 5:00:03 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.29R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 5:00:03 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantiation: Height

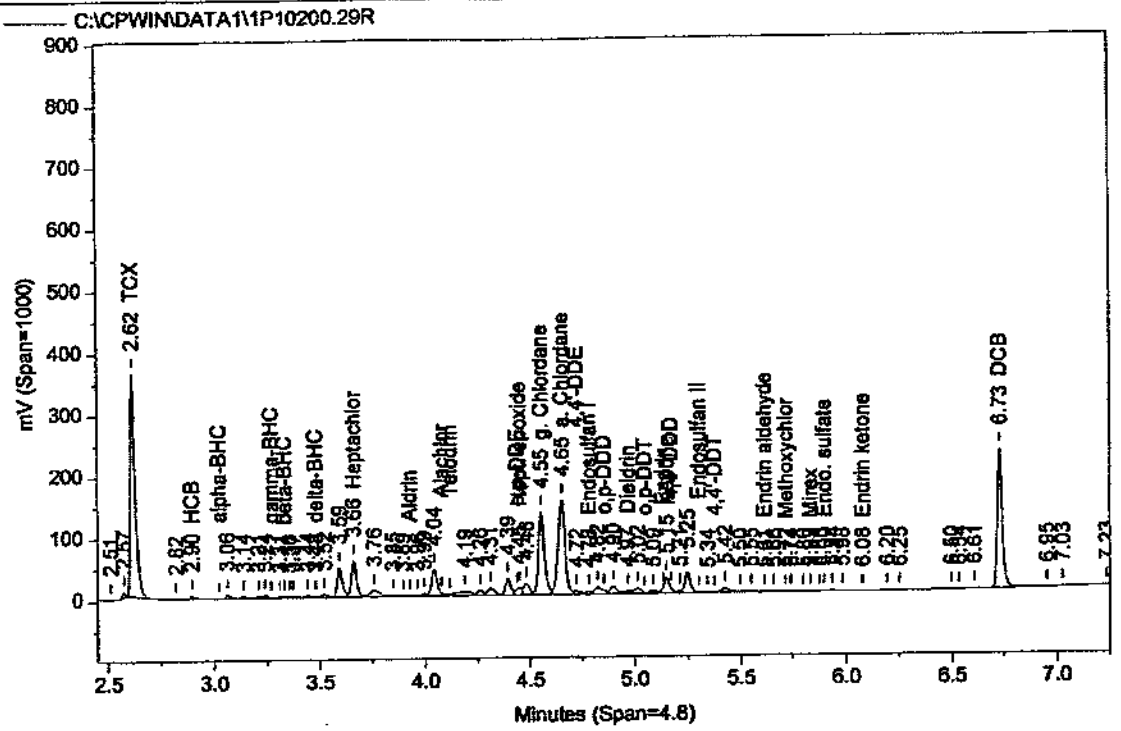
Sample Weight: 1
Analyst: 0856

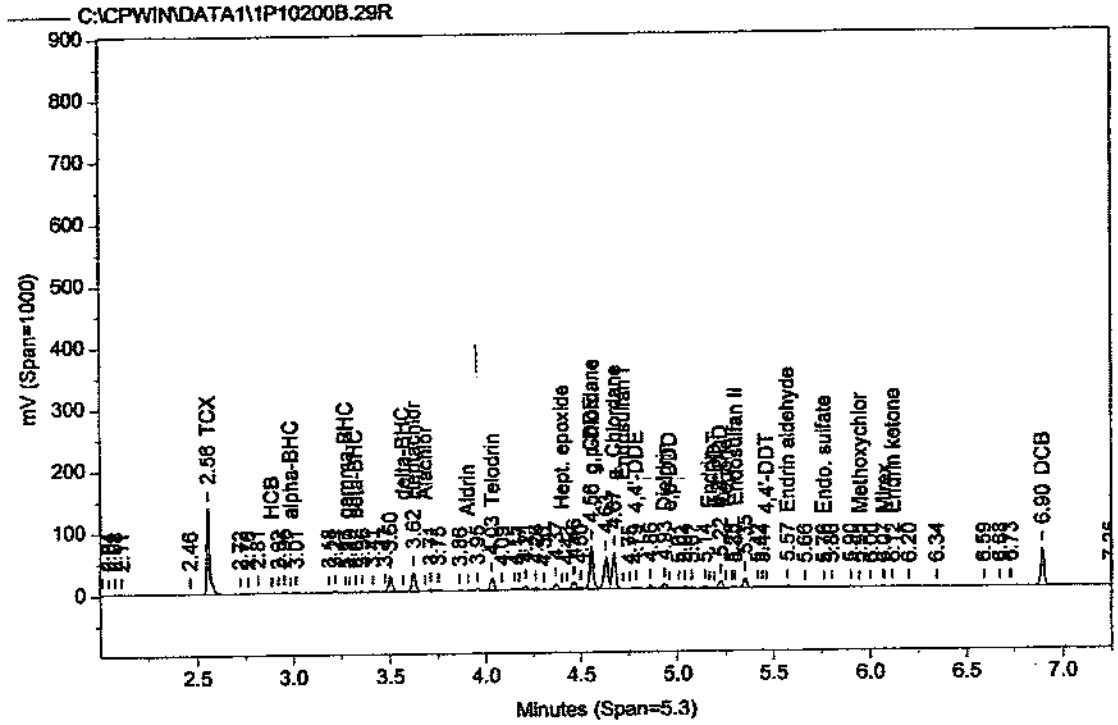
Dilution Factor: 1

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	362356	56.764	TCX	2.557	139064	60.325	TCX
2.896	4373	.624	HCB	.	0	.	HCB
.	0	.	gamma-BHC	3.27	382	.084	gamma-BHC
.	0	.	beta-BHC	3.322	635	.335	beta-BHC
3.48	1876	.259	delta-BHC	.	0	.	delta-BHC
3.66	58156	8.545	Heptachlor	3.622	31099	8.449	Heptachlor
.	0	.	Telodrin	4.033	18920	7.463	Telodrin
4.448	11045	1.764	Hept. epoxide	.	0	.	Hept. epoxide
4.552	133963	20.641	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.555	68663	35.039	o,p-DDE
4.652	152863	24.649	a. Chlordane	4.672	58080	18.561	a. Chlordane
4.723	4338	.748	4,4'-DDE	4.786	1856	.641	4,4'-DDE
4.783	3959	.686	Endosulfan I	.	0	.	Endosulfan I
4.968	4539	.723	Dieldrin	4.934	6469	2.054	Dieldrin
5.151	25009	16.803	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.221	11808	5.289	4,4'-DDD
.	0	.	Endosulfan II	5.3	1568	.702	Endosulfan II
5.614	462	.113	Endrin aldehyde	5.574	2954	1.685	Endrin aldehyde
5.716	429	.207	Methoxychlor	5.945	274	.387	Methoxychlor
5.897	1215	.295	Endo. sulfate	5.761	269	.155	Endo. sulfate
5.834	592	.165	Mirex	6.071	609	.5	Mirex
6.078	163	.03	Endrin ketone	6.117	524	.265	Endrin ketone
6.731	225339	58.65	DCB	6.896	59928	60.394	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.29A
Area File: C:\CPWIN\DATA1\1P10200B.29A
Method A: C:\CPWIN\DATA1\PESTD1.MET
Method B: C:\CPWIN\DATA1\PESTD1B.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 5:07:42 PM
File Reported On: 7/19/2011 at 5:07:54 PM

10X REPLOTS


C:\CPWIN\DATA1\1P10200.29R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.82 HCB
3.06 alpha-BHC
3.58 Heptachlor
3.76
3.86 Aldrin
4.04
4.18
4.31
4.55 g. Chlordane
4.65 a. Chlordane
4.72 4,4'-DDE
4.80 Endosulfan I
4.92 o,p-DDD
5.02 Dieldrin
5.06 o,p-DDT
5.15
5.25 Endosulfan II
5.34 4,4'-DDT
5.42
6.08 Endrin ketone
6.20
6.50
6.61
6.73 DCB
6.85
7.03
7.23


C:\CPWIN\DATA1\1P10200B.29R
mV (Span=1000)
Minutes (Span=5.3)
2.46
2.58 TCX
HCB
alpha-BHC
3.62
3.75
3.86 Aldrin
3.96
4.03 Telodrin
Hept. epoxide
4.56 g. Chlordane
4.67 a. Chlordane
4.75 4,4'-DDE
4.83
5.14
5.22
5.44 4,4'-DDT
5.57 Endrin aldehyde
5.66
5.78 Endo. sulfate
5.88
6.00 Methoxychlor
6.20
6.34
6.59
6.69
6.90 DCB
7.25

Sample Name: **CHLD51124A AACHLD5AA ICAL 1119599999**
Acquired from CP10--H9191A via port 1 on 7/19/11 05:32:17pm by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.30R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.087		0.0000	0.000	34.3	0.001	BB	0.017	32.87	0.001
2	1.843		0.0000	0.000	10515.9	0.213	BV	0.037	4797.13	0.195
3	2.011		0.0000	0.000	6784.1	0.137	VV	0.041	2738.76	0.111
4	2.063		0.0000	0.000	1387.7	0.028	VB	0.020	1176.75	0.048
5	2.116		0.0000	0.000	3177.5	0.064	BV	0.044	1215.80	0.049
6	2.192		0.0000	0.000	1681.5	0.034	VV	0.031	898.02	0.036
7	2.260		0.0000	0.000	2034.5	0.041	VV	0.030	1144.70	0.047
8	2.319		0.0000	0.000	393.3	0.008	VB	0.022	294.51	0.012
9	2.384		0.0000	0.000	77.9	0.002	BB	0.017	75.66	0.003
10	2.461		0.0000	0.000	71.2	0.001	BB	0.015	77.05	0.003
11	2.496		0.0000	0.000	177.2	0.004	BB	0.018	163.33	0.007
12	2.529		0.0000	0.000	195.4	0.004	BB	0.017	189.14	0.008
13	2.578		0.0000	0.000	18531.0	0.375	BB	0.016	19093.88	0.776
14	2.622	TCX	65.7429	19.782	731160.5	14.800	BB	0.029	419670.10	17.049
15	2.826		0.0000	0.000	335.6	0.007	BB	0.029	190.09	0.008
16	2.900	HCB	0.7198	0.217	11290.2	0.229	BV	0.037	5047.17	0.205
17	2.998		0.0000	0.000	855.1	0.017	VB	0.026	551.77	0.022
18	3.068		0.0000	0.000	21779.1	0.441	BV	0.031	11784.34	0.479
19	3.145		0.0000	0.000	13875.5	0.281	VV	0.033	7101.83	0.289
20	3.214		0.0000	0.000	8068.9	0.163	VV	0.026	5091.90	0.207
21	3.246		0.0000	0.000	19818.3	0.401	VV	0.036	9200.87	0.374
22	3.317	beta-BHC	0.9466	0.285	5251.9	0.106	VV	0.026	3432.05	0.139
23	3.356		0.0000	0.000	6911.3	0.140	VV	0.034	3349.51	0.136
24	3.379		0.0000	0.000	8414.6	0.170	VV	0.038	3684.28	0.150
25	3.447		0.0000	0.000	15413.3	0.312	VV	0.032	8056.07	0.327
26	3.484	delta-BHC	0.6286	0.189	7753.1	0.157	VV	0.028	4546.08	0.185
27	3.526		0.0000	0.000	20867.9	0.422	VV	0.033	10685.13	0.434
28	3.598		0.0000	0.000	199867.1	4.046	VV	0.032	105643.10	4.292
29	3.665	Heptachlor	19.2331	5.787	250310.8	5.067	VV	0.032	130895.30	5.318
30	3.761		0.0000	0.000	81237.9	1.644	VV	0.056	24266.48	0.986
31	3.851		0.0000	0.000	14839.5	0.300	VV	0.037	6661.06	0.271
32	3.897		0.0000	0.000	4861.0	0.098	VV	0.032	2502.31	0.102
33	3.966		0.0000	0.000	10350.6	0.210	VV	0.043	4016.05	0.163
34	3.998		0.0000	0.000	16754.7	0.339	VV	0.030	9192.94	0.373
35	4.046		0.0000	0.000	206612.9	4.182	VV	0.036	94762.96	3.850
36	4.193		0.0000	0.000	85085.3	1.722	VV	0.087	16306.82	0.662
37	4.263		0.0000	0.000	38363.8	0.777	VV	0.033	19616.06	0.797
38	4.313		0.0000	0.000	67201.4	1.360	VV	0.045	24651.44	1.001
39	4.398		0.0000	0.000	116479.5	2.358	VV	0.031	63197.06	2.567
40	4.455	Hept. epoxide	4.4292	1.333	52828.8	1.069	VV	0.032	27725.38	1.126
41	4.487		0.0000	0.000	99777.0	2.020	VV	0.035	47045.70	1.911
42	4.557	g. Chlordane	50.9615	15.334	646482.0	13.086	VV	0.033	330753.70	13.437
43	4.657	a. Chlordane	65.1676	19.609	963595.9	19.505	VV	0.040	404145.00	16.419
44	4.728	4,4'-DDE	1.9764	0.595	25999.8	0.526	VV	0.038	11468.37	0.466
45	4.787	Endosulfan I	1.7676	0.532	17939.9	0.363	VV	0.029	10195.14	0.414
46	4.828		0.0000	0.000	75232.0	1.523	VV	0.045	28049.70	1.140
47	4.901		0.0000	0.000	68299.1	1.383	VV	0.037	31155.98	1.266
48	4.973	Dieldrin	1.8213	0.548	21560.8	0.436	VV	0.031	11432.55	0.464
49	5.020		0.0000	0.000	47481.6	0.961	VV	0.036	21999.28	0.894
50	5.093		0.0000	0.000	27044.7	0.547	VV	0.049	9199.83	0.374
51	5.156	Kepone	41.1691	12.388	118710.1	2.403	VV	0.032	61275.95	2.489
52	5.217		0.0000	0.000	13062.0	0.264	VV	0.021	10290.14	0.418
53	5.252		0.0000	0.000	163444.4	3.309	VV	0.032	84062.70	3.415
54	5.428		0.0000	0.000	50104.0	1.014	VV	0.048	17341.31	0.705
55	5.500		0.0000	0.000	3025.8	0.061	VV	0.024	2066.01	0.084
56	5.557		0.0000	0.000	14321.8	0.290	VV	0.050	4770.59	0.194
57	5.619	Endrin aldehyde	0.3680	0.111	2458.6	0.050	VV	0.027	1504.52	0.061
58	5.661		0.0000	0.000	2653.2	0.054	VV	0.026	1685.34	0.068
59	5.683		0.0000	0.000	1826.2	0.037	VV	0.021	1417.69	0.058
60	5.718	Methoxychlor	0.6205	0.187	1975.3	0.040	VV	0.026	1287.68	0.052
61	5.745		0.0000	0.000	2923.0	0.059	VV	0.028	1721.18	0.070
62	5.802		0.0000	0.000	1037.1	0.021	VV	0.030	573.03	0.023
63	5.840	Mirex	0.4305	0.130	2306.0	0.047	VV	0.025	1544.29	0.063
64	5.883		0.0000	0.000	2927.8	0.059	VV	0.022	2209.03	0.090

USF03 1916

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	5.902	Endo. sulfate	0.7716	0.232	4822.0	0.098	VV	0.025	3174.04	0.129
66	5.942		0.0000	0.000	7852.6	0.159	VV	0.027	4782.30	0.194
67	5.988		0.0000	0.000	3870.6	0.078	VV	0.028	2322.13	0.094
68	6.048		0.0000	0.000	973.6	0.020	VV	0.026	612.89	0.025
69	6.082	Endrin ketone	0.0767	0.023	700.4	0.014	VB	0.028	418.78	0.017
70	6.199		0.0000	0.000	4324.3	0.088	BV	0.036	1979.61	0.080
71	6.261		0.0000	0.000	1244.4	0.025	VB	0.026	785.40	0.032
72	6.326		0.0000	0.000	775.7	0.016	BB	0.034	379.40	0.015
73	6.404		0.0000	0.000	74.1	0.002	BB	0.017	72.56	0.003
74	6.466		0.0000	0.000	674.2	0.014	BB	0.050	224.71	0.009
75	6.548		0.0000	0.000	122.2	0.002	BB	0.031	64.77	0.003
76	6.574		0.0000	0.000	150.9	0.003	BB	0.018	138.09	0.006
77	6.614		0.0000	0.000	3190.0	0.065	BB	0.027	1976.32	0.080
78	6.738	DCB	75.5101	22.721	461427.7	9.340	BB	0.027	290115.60	11.786
79	6.839		0.0000	0.000	79.0	0.002	BB	0.017	76.78	0.003
80	6.861		0.0000	0.000	570.1	0.012	BB	0.019	506.89	0.021
81	6.960		0.0000	0.000	712.2	0.014	BB	0.028	428.06	0.017
82	7.037		0.0000	0.000	1367.0	0.028	BB	0.051	446.18	0.018
83	7.243		0.0000	0.000	1740.5	0.035	BB	0.071	410.88	0.017
84	7.359		0.0000	0.000	9617.5	0.195	BB	0.097	1656.93	0.067

Total Area = 4940127.0, Total Amount = 332.341, Total Height = 2461493.0, Sample Units = PPB

USF03 1917

Sample Name: **CHLD51124A AACHLD5AA ICAL 1119599999**
Acquired from CP10--H9191B via port 2 on 7/19/11 05:32:17pm by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.30R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.047		0.0000	0.000	37.3	0.002	BB	0.016	38.47	0.003
2	1.939		0.0000	0.000	1050.4	0.066	BV	0.019	925.37	0.080
3	2.010		0.0000	0.000	352.0	0.022	VV	0.021	276.87	0.024
4	2.046		0.0000	0.000	630.3	0.040	VV	0.022	480.09	0.042
5	2.078		0.0000	0.000	599.4	0.038	VV	0.023	431.58	0.037
6	2.111		0.0000	0.000	665.3	0.042	VB	0.031	362.44	0.031
7	2.298		0.0000	0.000	77.4	0.005	BB	0.025	51.12	0.004
8	2.363		0.0000	0.000	153.8	0.010	BB	0.031	81.87	0.007
9	2.516		0.0000	0.000	331.0	0.021	BB	0.034	160.52	0.014
10	2.559	TCX	67.9511	19.789	197712.6	12.411	BB	0.021	156643.30	13.561
11	2.735		0.0000	0.000	245.7	0.015	BB	0.036	114.88	0.010
12	2.817		0.0000	0.000	2784.4	0.175	BB	0.019	2400.53	0.208
13	2.864		0.0000	0.000	198.9	0.012	BB	0.013	249.73	0.022
14	2.923		0.0000	0.000	468.2	0.029	BV	0.019	410.49	0.036
15	2.955		0.0000	0.000	6901.1	0.433	VV	0.022	5283.98	0.457
16	3.016		0.0000	0.000	4394.6	0.276	VV	0.023	3160.69	0.274
17	3.087		0.0000	0.000	350.7	0.022	VV	0.025	233.66	0.020
18	3.128		0.0000	0.000	374.5	0.024	VB	0.025	254.59	0.022
19	3.188		0.0000	0.000	3459.7	0.217	BV	0.021	2726.43	0.236
20	3.217		0.0000	0.000	10595.4	0.665	VV	0.033	5416.93	0.469
21	3.274	gamma-BHC	0.2131	0.062	1146.3	0.072	VV	0.020	971.63	0.084
22	3.293		0.0000	0.000	1130.3	0.071	VV	0.021	901.00	0.078
23	3.324	beta-BHC	0.6536	0.190	1577.3	0.099	VV	0.021	1239.97	0.107
24	3.360		0.0000	0.000	5415.0	0.340	VV	0.023	3995.99	0.346
25	3.415		0.0000	0.000	5963.0	0.374	VV	0.036	2768.10	0.240
26	3.477		0.0000	0.000	4668.9	0.293	VV	0.016	5006.43	0.433
27	3.504		0.0000	0.000	84567.0	5.309	VV	0.023	60890.89	5.272
28	3.625	Heptachlor	19.7786	5.760	107427.2	6.744	VV	0.025	72802.05	6.303
29	3.714		0.0000	0.000	13435.5	0.843	VV	0.028	7947.38	0.688
30	3.755		0.0000	0.000	12633.4	0.793	VV	0.033	6329.60	0.548
31	3.811		0.0000	0.000	856.6	0.054	VB	0.025	577.27	0.050
32	3.865		0.0000	0.000	4587.6	0.288	BV	0.030	2559.70	0.222
33	3.957		0.0000	0.000	12510.2	0.785	VV	0.025	8327.66	0.721
34	4.037	Telodrin	16.8613	4.910	65050.0	4.084	VV	0.025	42747.04	3.701
35	4.086		0.0000	0.000	4800.3	0.301	VV	0.026	3109.42	0.269
36	4.151		0.0000	0.000	8014.6	0.503	VV	0.027	4896.30	0.424
37	4.177		0.0000	0.000	8957.4	0.562	VV	0.026	5706.65	0.494
38	4.212		0.0000	0.000	20908.7	1.313	VV	0.026	13435.83	1.163
39	4.266		0.0000	0.000	10808.4	0.678	VB	0.022	8289.76	0.718
40	4.310		0.0000	0.000	499.0	0.031	BV	0.015	537.33	0.047
41	4.372		0.0000	0.000	35798.5	2.247	VV	0.023	26264.97	2.274
42	4.429		0.0000	0.000	4042.6	0.254	VV	0.023	2967.58	0.257
43	4.467		0.0000	0.000	41381.1	2.598	VV	0.025	28020.46	2.426
44	4.502		0.0000	0.000	11288.4	0.709	VV	0.025	7398.19	0.640
45	4.559	o,p-DDE	87.9299	25.607	236924.0	14.873	VV	0.023	172307.90	14.917
46	4.634		0.0000	0.000	189122.0	11.872	VV	0.025	127051.00	10.999
47	4.675	a. Chlordane	45.9646	13.386	183246.6	11.503	VB	0.021	143825.50	12.451
48	4.753		0.0000	0.000	613.0	0.038	BV	0.017	601.68	0.052
49	4.789	4,4'-DDE	1.4772	0.430	8579.2	0.539	VB	0.033	4276.44	0.370
50	4.865		0.0000	0.000	14142.6	0.888	BB	0.022	10732.27	0.929
51	4.937	Dieldrin	4.8111	1.401	24211.5	1.520	BB	0.027	15154.26	1.312
52	5.011		0.0000	0.000	2883.2	0.181	BV	0.020	2400.95	0.208
53	5.040		0.0000	0.000	7867.1	0.494	VV	0.029	4474.00	0.387
54	5.077		0.0000	0.000	4708.7	0.296	VB	0.018	4326.70	0.375
55	5.142		0.0000	0.000	11923.1	0.748	BV	0.032	6124.49	0.530
56	5.224	4,4'-DDD	11.6882	3.404	32230.0	2.023	VV	0.021	26096.72	2.259
57	5.284		0.0000	0.000	3263.3	0.205	VV	0.020	2686.99	0.233
58	5.303	Endosulfan II	1.2889	0.375	3611.3	0.227	VV	0.021	2879.23	0.249
59	5.353		0.0000	0.000	43116.5	2.707	VB	0.020	35659.87	3.087
60	5.421		0.0000	0.000	2267.2	0.142	BV	0.022	1692.60	0.147
61	5.446	4,4'-DDT	1.0457	0.305	3814.8	0.239	VV	0.033	1918.61	0.166
62	5.523		0.0000	0.000	450.5	0.028	VB	0.018	412.70	0.036
63	5.578	Endrin aldehyde	3.5904	1.046	9273.0	0.582	BV	0.025	6294.15	0.545
64	5.668		0.0000	0.000	3562.5	0.224	VB	0.040	1470.61	0.127

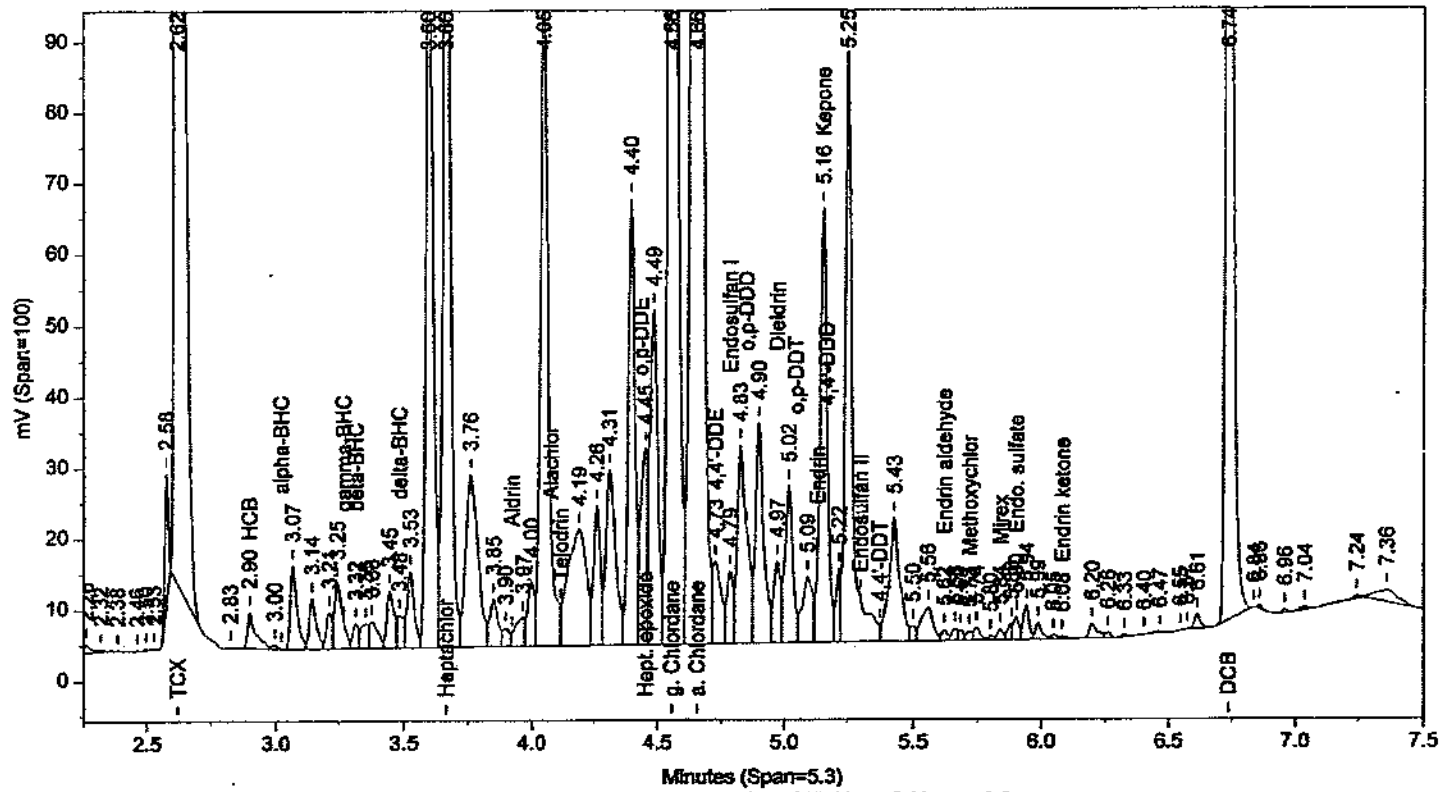
USF83 1919

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	5.764	Endo. sulfate	0.3518	0.102	767.6	0.048	BV	0.021	608.72	0.053
66	5.805		0.0000	0.000	1200.0	0.075	VV	0.020	980.68	0.085
67	5.827		0.0000	0.000	1410.2	0.089	VV	0.030	790.08	0.068
68	5.902		0.0000	0.000	1440.5	0.090	VV	0.022	1097.48	0.095
69	5.950	Methoxychlor	0.8679	0.253	906.3	0.057	VB	0.025	614.11	0.053
70	6.008		0.0000	0.000	401.2	0.025	BV	0.022	306.62	0.027
71	6.076	Mirex	1.1788	0.343	2275.4	0.143	VV	0.026	1433.63	0.124
72	6.121	Endrin ketone	0.5423	0.158	1399.1	0.088	VV	0.022	1072.65	0.093
73	6.180		0.0000	0.000	349.9	0.022	VV	0.018	321.65	0.028
74	6.206		0.0000	0.000	1249.3	0.078	VV	0.019	1114.42	0.096
75	6.250		0.0000	0.000	186.9	0.012	VB	0.016	192.40	0.017
76	6.346		0.0000	0.000	931.5	0.058	BV	0.022	704.01	0.061
77	6.410		0.0000	0.000	302.4	0.019	VB	0.024	209.03	0.018
78	6.454		0.0000	0.000	285.7	0.018	BB	0.046	103.02	0.009
79	6.594		0.0000	0.000	220.1	0.014	BB	0.024	154.94	0.013
80	6.681		0.0000	0.000	189.6	0.012	BB	0.032	99.34	0.009
81	6.736		0.0000	0.000	816.5	0.051	BB	0.021	644.80	0.056
82	6.903	DCB	77.1899	22.479	93576.2	5.874	BB	0.020	76594.58	6.631
83	7.191		0.0000	0.000	130.2	0.008	BB	0.020	106.79	0.009
84	7.250		0.0000	0.000	294.8	0.019	BB	0.030	162.35	0.014

Total Area = 1592994.0, Total Amount = 343.384, Total Height = 1155093.0, Sample Units = PPB

LANCASTER LABORATORIES

—— C:\CPWIN\DATA1\1P10200.30R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 5:24:47 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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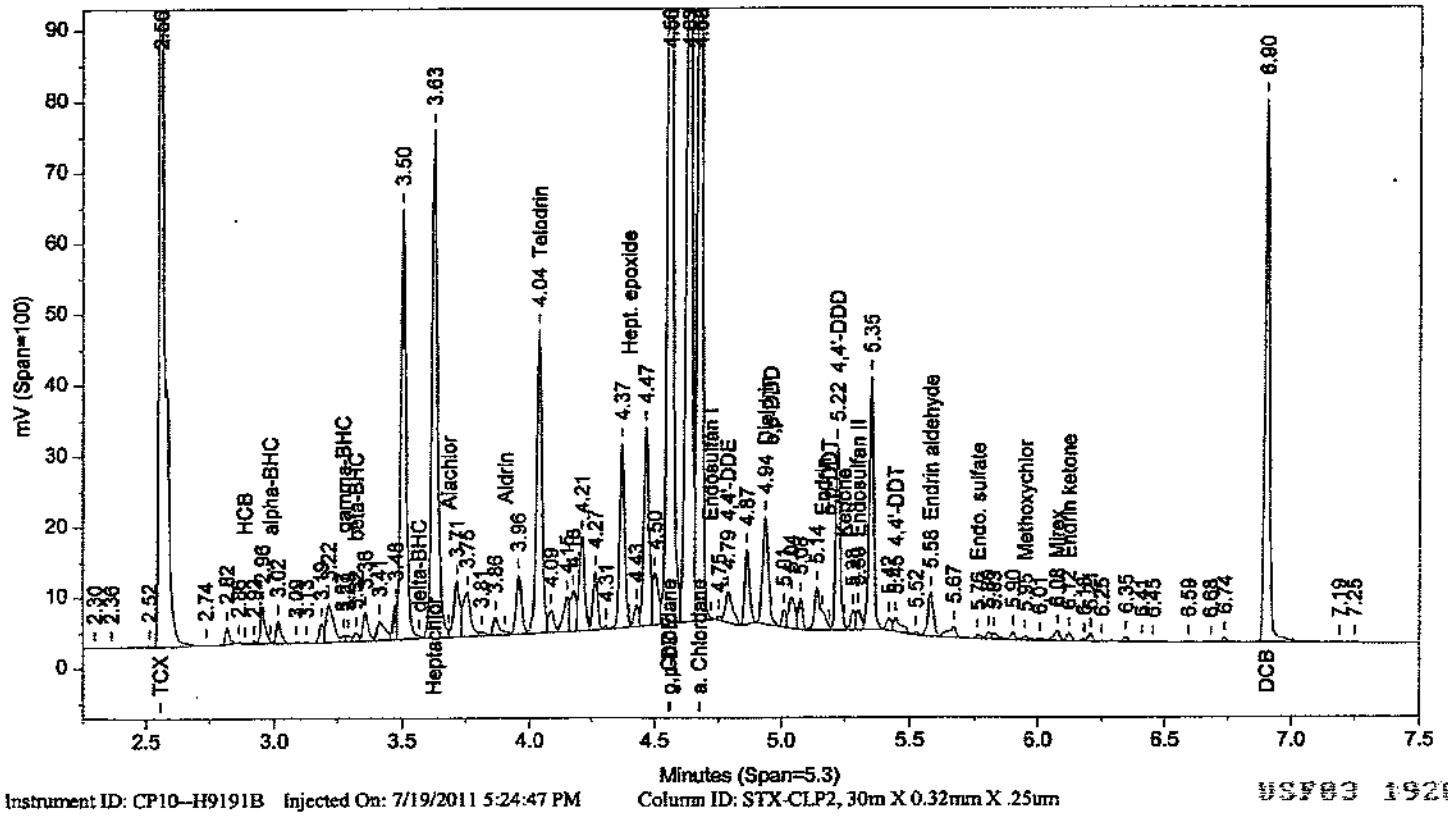

Instrument ID: CP10--H9191B Injected On: 7/19/2011 5:24:47 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF03 1928

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 1
Analyst: 0856

Dilution Factor: 1

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.622	419670	65.743	TCX	2.559	156643	67.951	TCX
2.9	5047	.72	HCB	.	0	.	HCB
.	0	.	gamma-BHC	3.274	972	.213	gamma-BHC
3.317	3432	.947	beta-BHC	3.324	1240	.654	beta-BHC
3.484	4546	.629	delta-BHC	.	0	.	delta-BHC
3.665	130895	19.233	Heptachlor	3.625	72802	19.779	Heptachlor
.	0	.	Telodrin	4.037	42747	16.861	Telodrin
4.455	27725	4.429	Hept. epoxide	.	0	.	Hept. epoxide
4.557	330754	50.961	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.559	172308	87.93	o,p-DDE
4.657	404145	65.168	a. Chlordane	4.675	143825	45.965	a. Chlordane
4.728	11468	1.976	4,4'-DDE	4.789	4276	1.477	4,4'-DDE
4.787	10195	1.768	Endosulfan I	.	0	.	Endosulfan I
4.973	11433	1.821	Dieldrin	4.937	15154	4.811	Dieldrin
5.156	61276	41.169	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.224	26097	11.688	4,4'-DDD
.	0	.	Endosulfan II	5.303	2879	1.289	Endosulfan II
.	0	.	4,4'-DDT	5.446	1919	1.046	4,4'-DDT
5.619	1505	.368	Endrin aldehyde	5.578	6294	3.59	Endrin aldehyde
5.718	1288	.62	Methoxychlor	5.95	614	.868	Methoxychlor
5.902	3174	.772	Endo. sulfate	5.764	609	.352	Endo. sulfate
5.84	1544	.431	Mirex	6.076	1434	1.179	Mirex
6.082	419	.077	Endrin ketone	6.121	1073	.542	Endrin ketone
6.738	290116	75.51	DCB	6.903	76595	77.19	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.30A
Area File: C:\CPWIN\DATA1\1P10200B.30A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 5:32:26 PM
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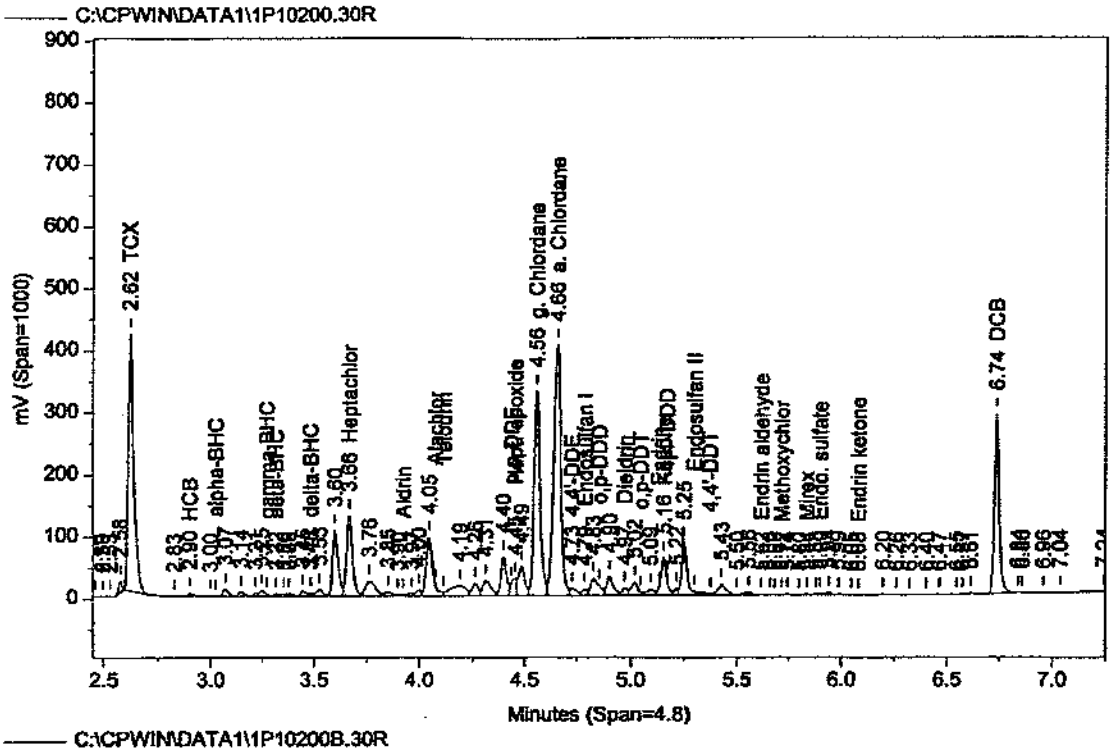
10X REPLOTS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mV (Span=1000)
Minutes (Span=4.8)
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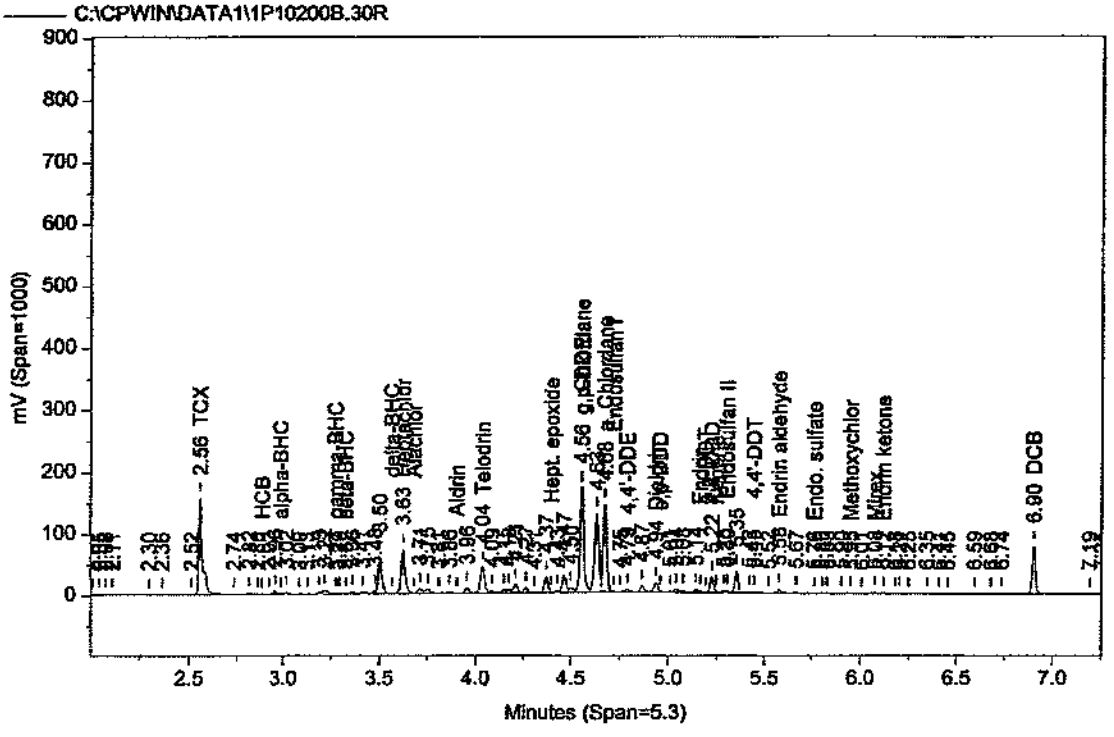
HCB
alpha-BHC
Heptachlor
Aldrin
4.56 g. Chlordane
4.66 a. Chlordane
4,4'-DDE
Dieldrin
o,p'-DDT
4,4'-DDT
Endosulfan II
Endrin aldehyde
Methoxychlor
Endo. sulfate
Endrin ketone
6.74 DCB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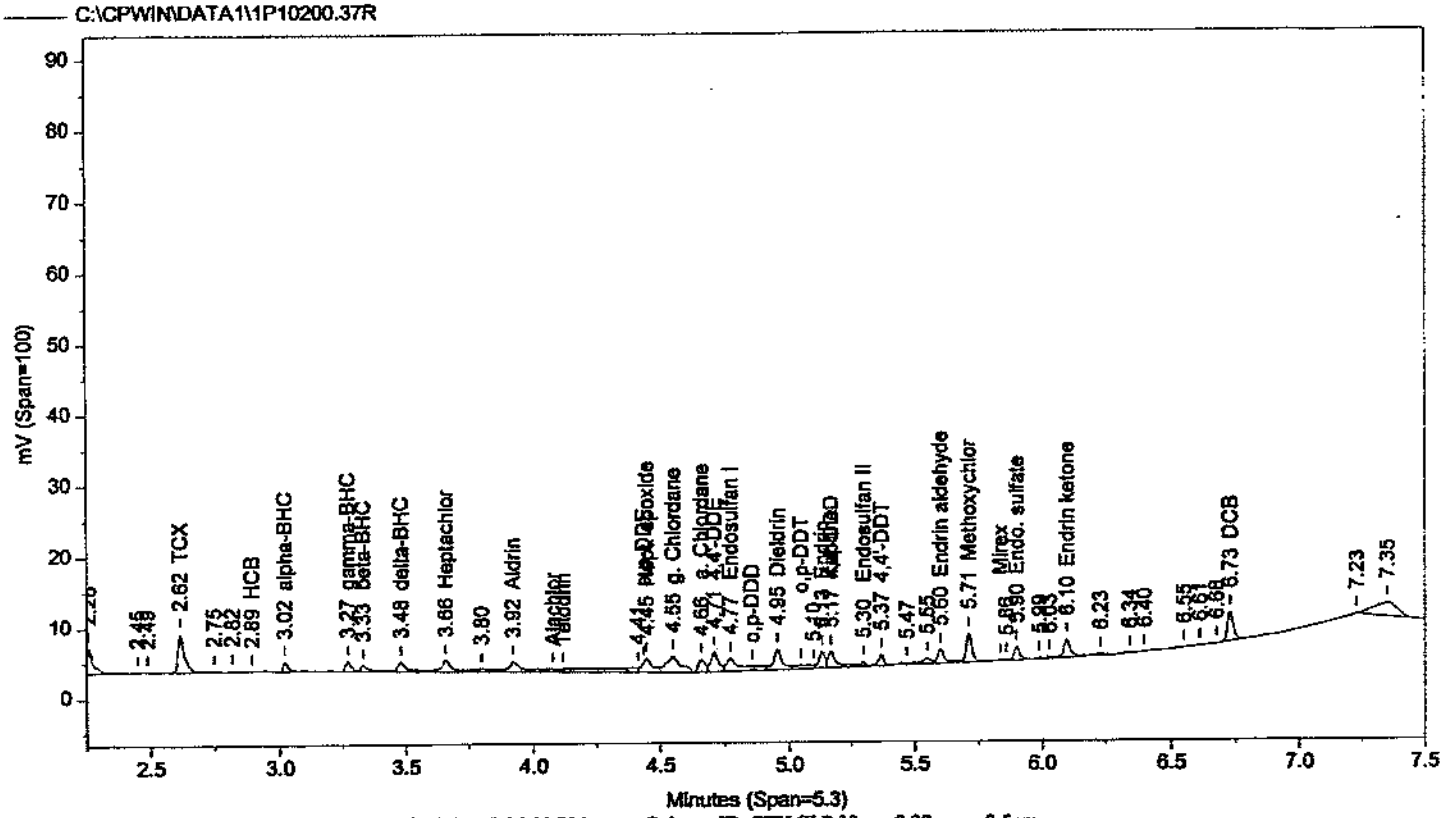
Minutes (Span=5.3)
2.56 TCX
HCB
alpha-BHC
Aldrin
Telodrin
Hept. epoxide
4,4'-DDE
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
Endrin ketone
6.90 DCB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.37R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 7:36:03 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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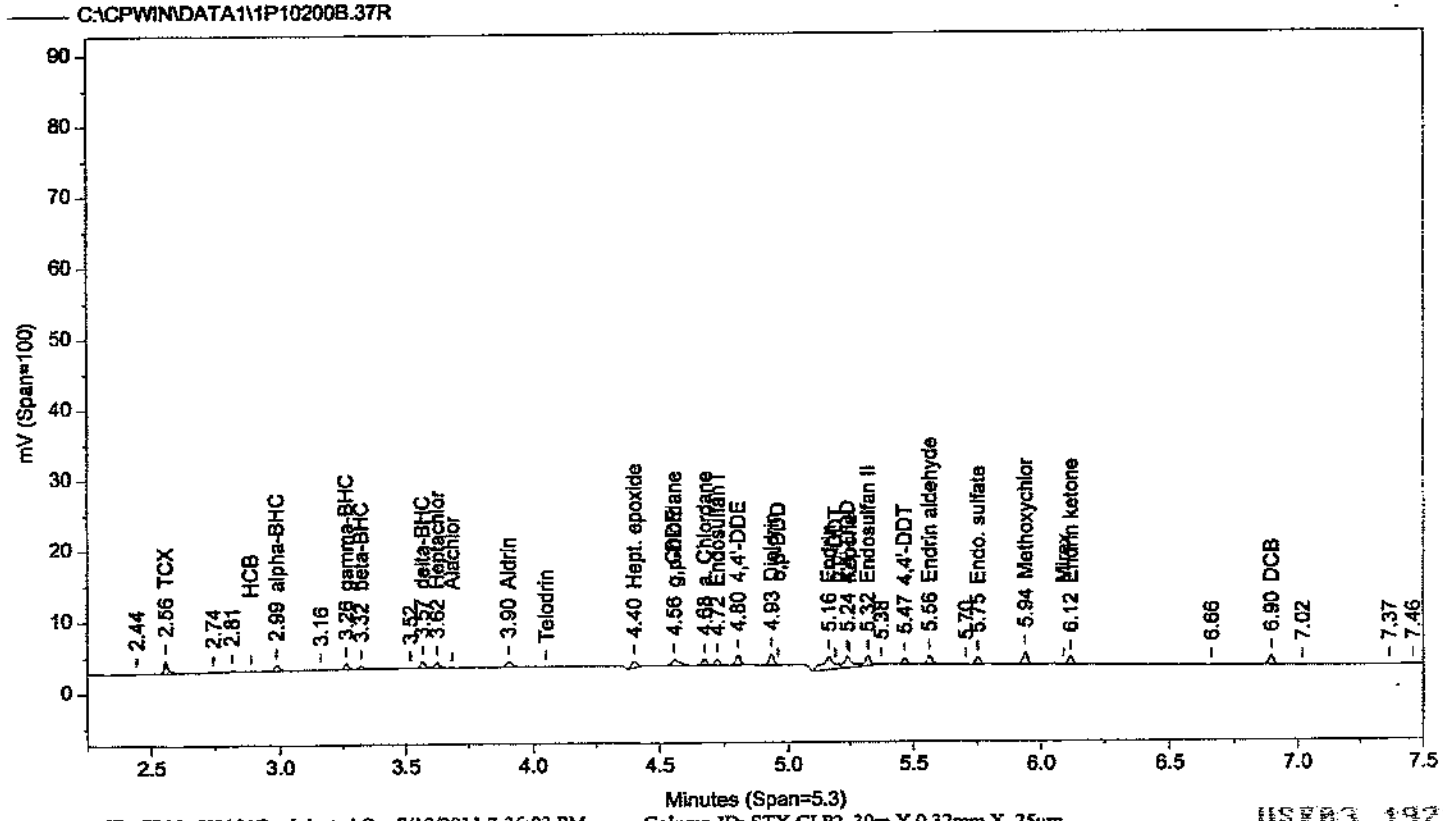

Instrument ID: CP10--H9191B Injected On: 7/19/2011 7:36:03 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USFBS 1923

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.616	5388	.844	TCX	2.557	1840	.798	TCX
2.894	97	.014	HCB	.	0	.	HCB
3.022	1364	.16	alpha-BHC	2.988	864	.177	alpha-BHC
3.269	1377	.181	gamma-BHC	3.262	832	.182	gamma-BHC
3.332	856	.236	beta-BHC	3.323	437	.23	beta-BHC
3.482	1361	.188	delta-BHC	3.566	908	.21	delta-BHC
3.658	1606	.236	Heptachlor	3.623	784	.213	Heptachlor
3.921	1500	.222	Aldrin	3.904	727	.216	Aldrin
4.447	1945	.311	Hept. epoxide	4.402	898	.316	Hept. epoxide
4.55	2292	.353	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.558	794	.405	o,p-DDE
4.66	1813	.292	a. Chlordane	4.675	811	.259	a. Chlordane
4.709	2815	.485	4,4'-DDE	4.803	1344	.464	4,4'-DDE
4.77	1822	.316	Endosulfan I	4.723	763	.272	Endosulfan I
4.954	2910	.464	Dieldrin	4.934	1514	.481	Dieldrin
5.132	2327	.449	Endrin	5.164	1902	.742	Endrin
5.168	2327	.494	4,4'-DDD	5.24	1615	.723	4,4'-DDD
5.3	649	.171	Endosulfan II	5.321	1364	.61	Endosulfan II
5.37	1585	.377	4,4'-DDT	5.465	829	.452	4,4'-DDT
5.6	1940	.474	Endrin aldehyde	5.561	1159	.661	Endrin aldehyde
5.71	4115	1.983	Methoxychlor	5.939	1763	2.492	Methoxychlor
5.901	1938	.471	Endo. sulfate	5.752	1026	.593	Endo. sulfate
6.097	2626	.481	Endrin ketone	6.117	1151	.582	Endrin ketone
6.73	4124	1.073	DCB	6.896	1311	1.321	DCB

19-CHLD LR 7/19/11

Files:
Area File: C:\CPWIN\DATA1\1P10200.37A
Area File: C:\CPWIN\DATA1\1P10200B.37A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 7:43:40 PM
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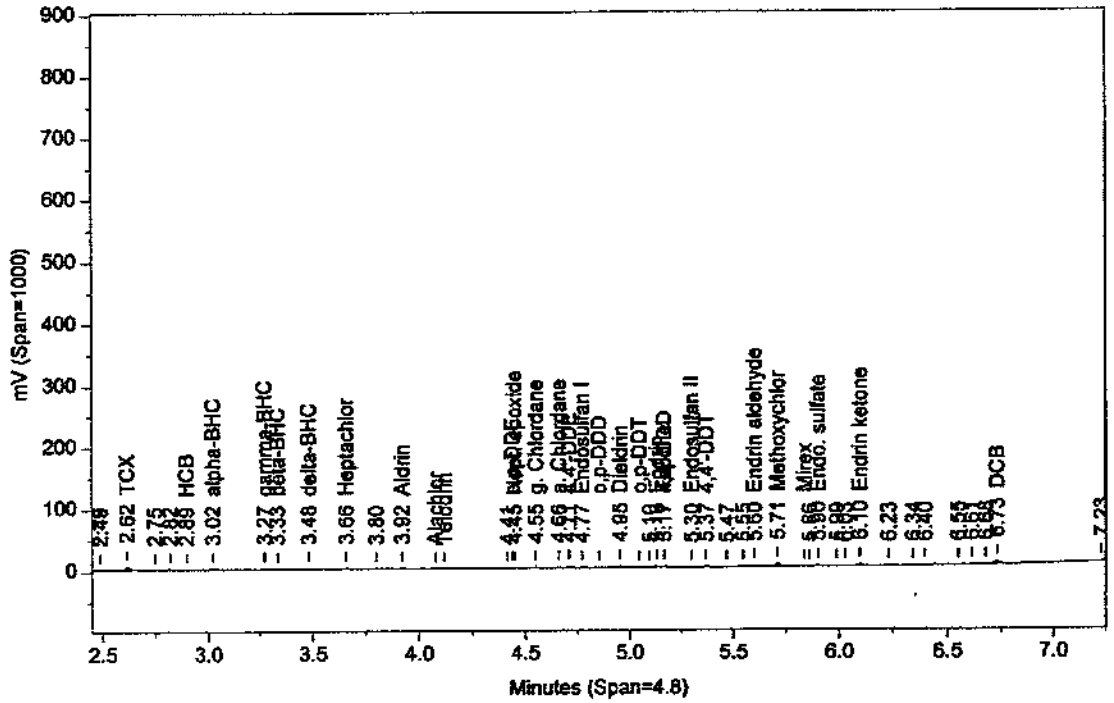
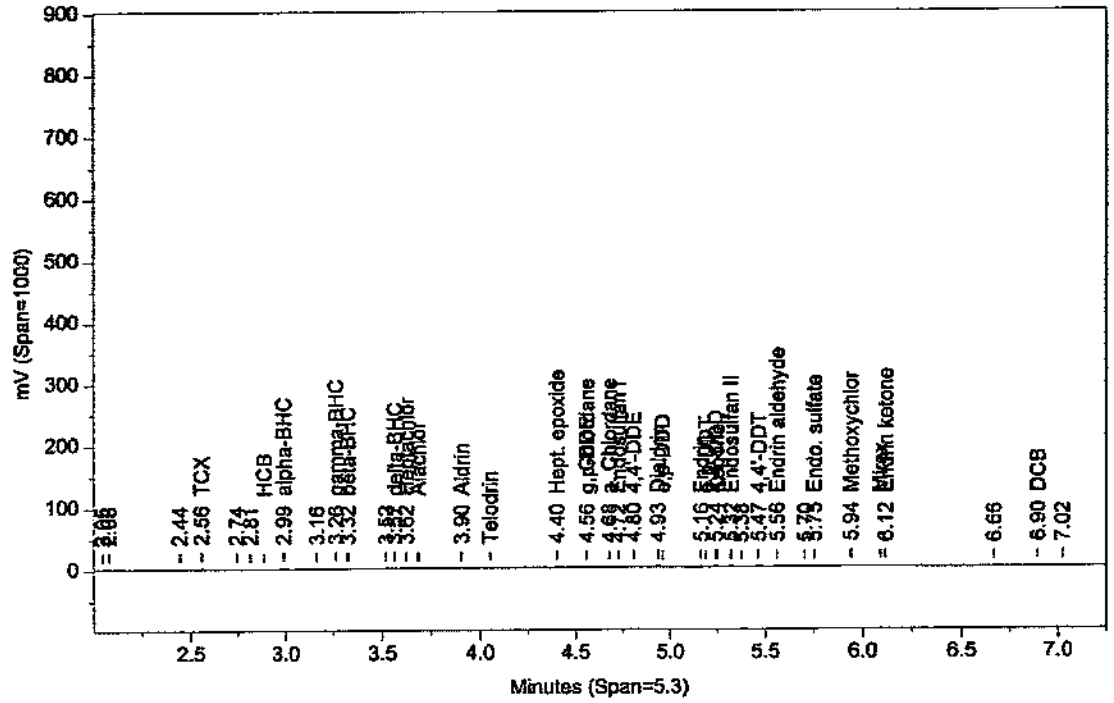
10X REPLOTS

C:\CPWIN\DATA1\1P10200.37R

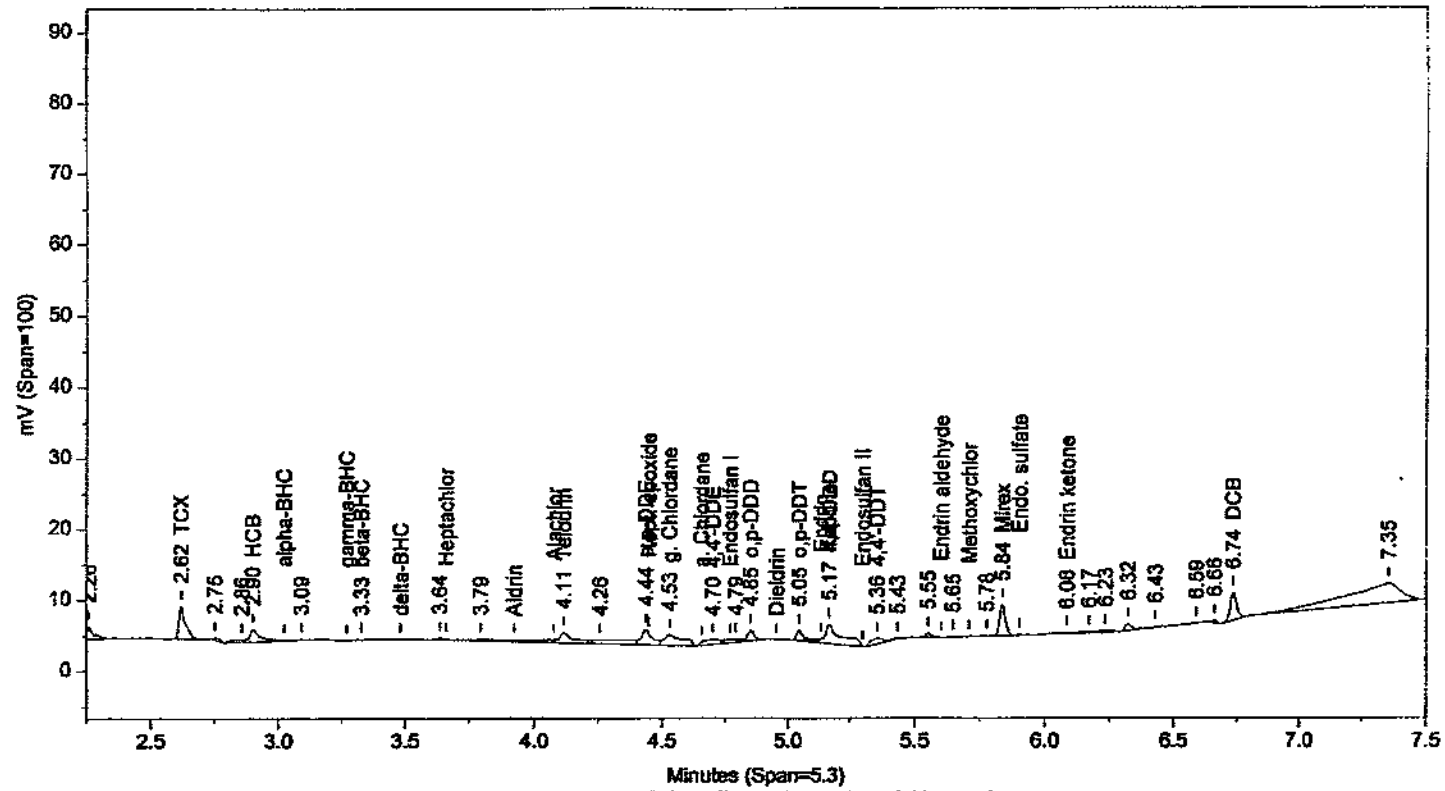


C:\CPWIN\DATA1\1P10200B.37R



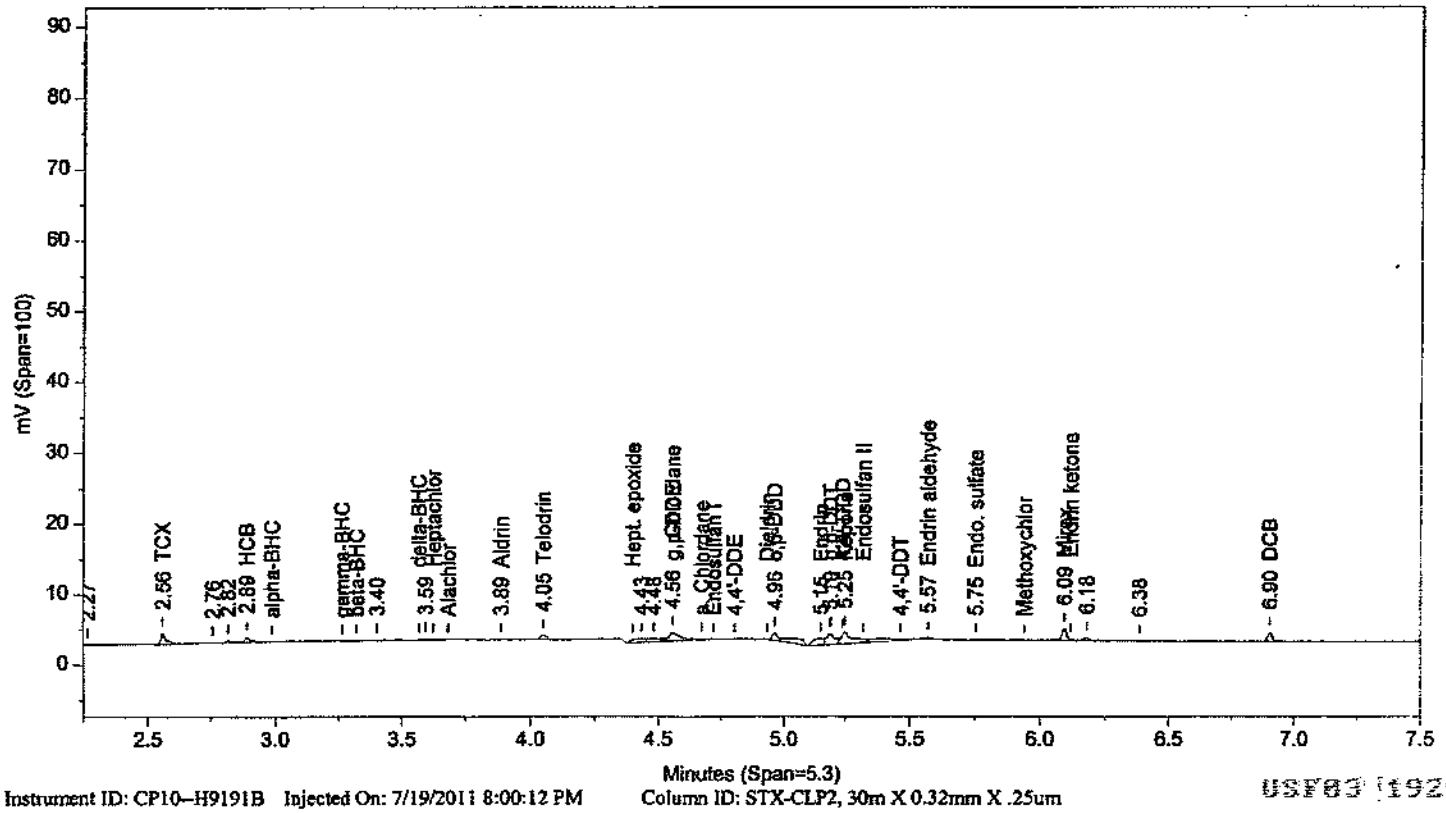
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.38R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 8:00:12 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.38R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 8:00:12 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF83 (1926

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

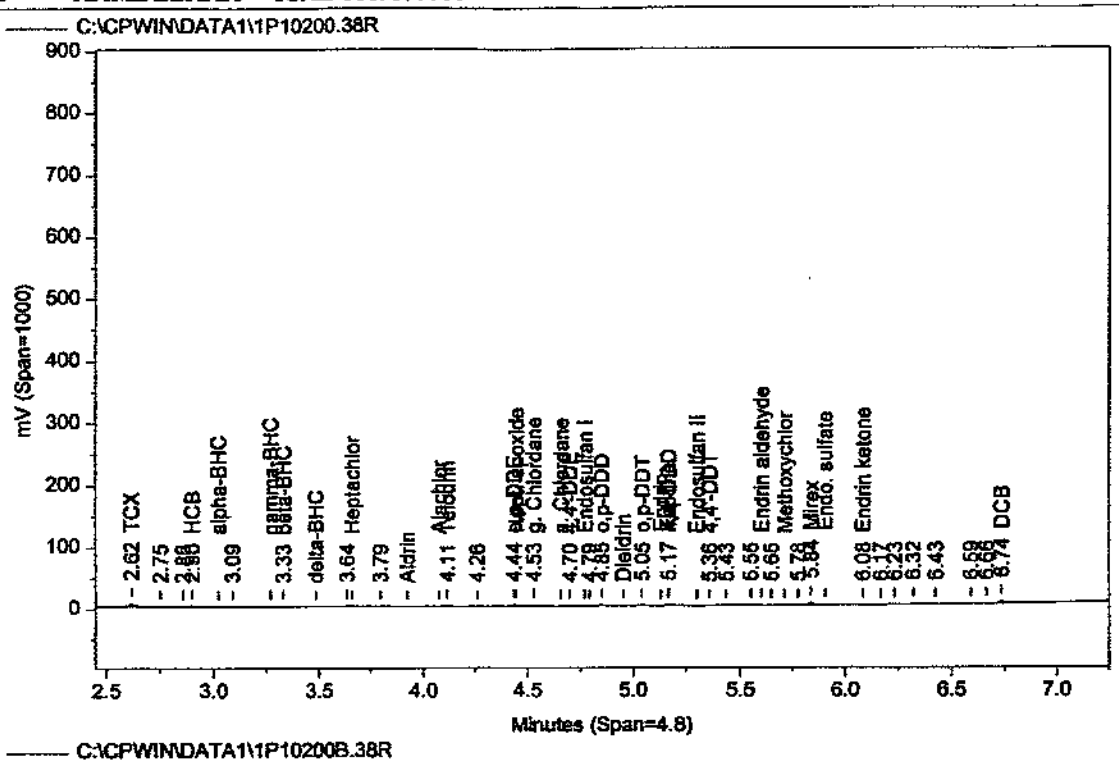
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

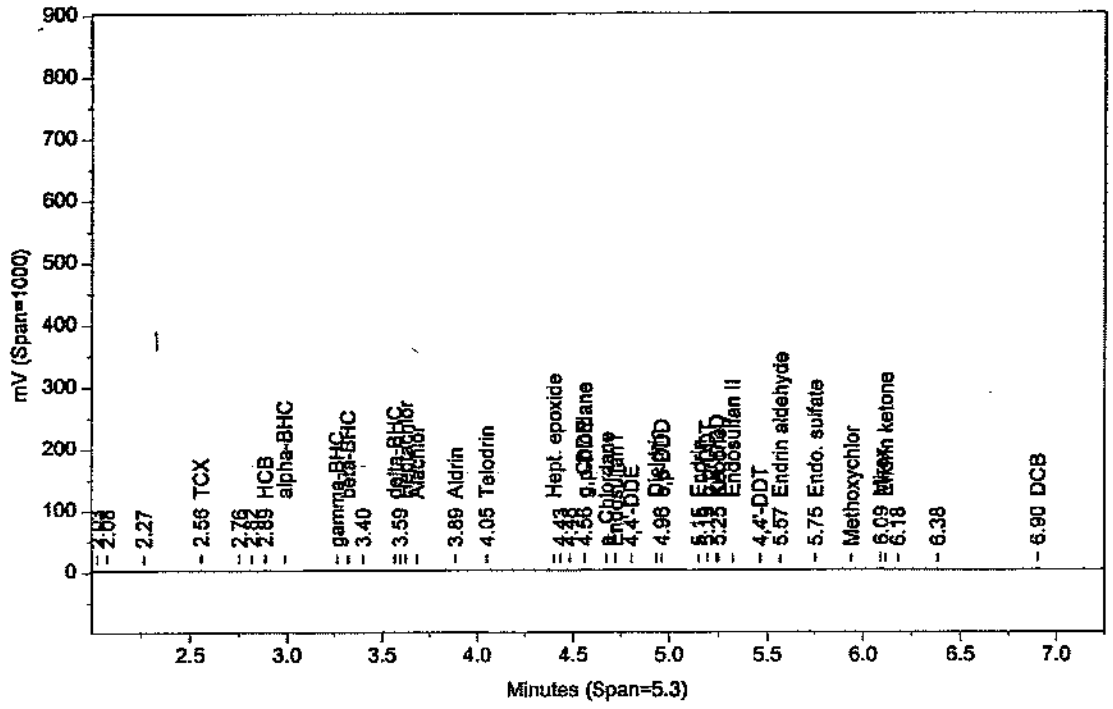
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	4563	.715	TCX	2.558	1651	.716	TCX
2.9	1772	.253	HCB	2.889	702	.223	HCB
3.329	31	.009	beta-BHC	.	0	.	beta-BHC
.	0	.	Aldrin	3.887	107	.032	Aldrin
4.115	1439	.286	Telodrin	4.05	616	.243	Telodrin
4.436	2143	.575	o,p-DDE	4.558	1251	.639	o,p-DDE
4.529	1507	.232	g. Chlordane	.	0	.	g. Chlordane
4.7	691	.119	4,4'-DDE	.	0	.	4,4'-DDE
4.851	1487	.46	o,p-DDD	4.962	991	.583	o,p-DDD
5.045	1513	.433	o,p-DDT	5.19	1568	.871	o,p-DDT
.	0	.	Endrin	5.151	900	.351	Endrin
5.169	2738	.582	4,4'-DDD (Kepone)	.	0	.	4,4'-DDD
.	0	.	Kepone	5.249	1616	2.194	Kepone
5.357	766	.182	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.568	280	.16	Endrin aldehyde
.	0	.	Endo. sulfate	5.752	83	.048	Endo. sulfate
5.837	4370	1.218	Mirex	6.094	1632	1.342	Mirex
6.085	130	.024	Endrin ketone	.	0	.	Endrin ketone
6.735	3949	1.028	DCB	6.901	1252	1.262	DCB

7/19/11

Files:
Area File: C:\CPWIN\DATA1\1P10200.38A
Area File: C:\CPWIN\DATA1\1P10200B.38A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 8:07:50 PM
File Reported On: 7/19/2011 at 8:08:00 PM

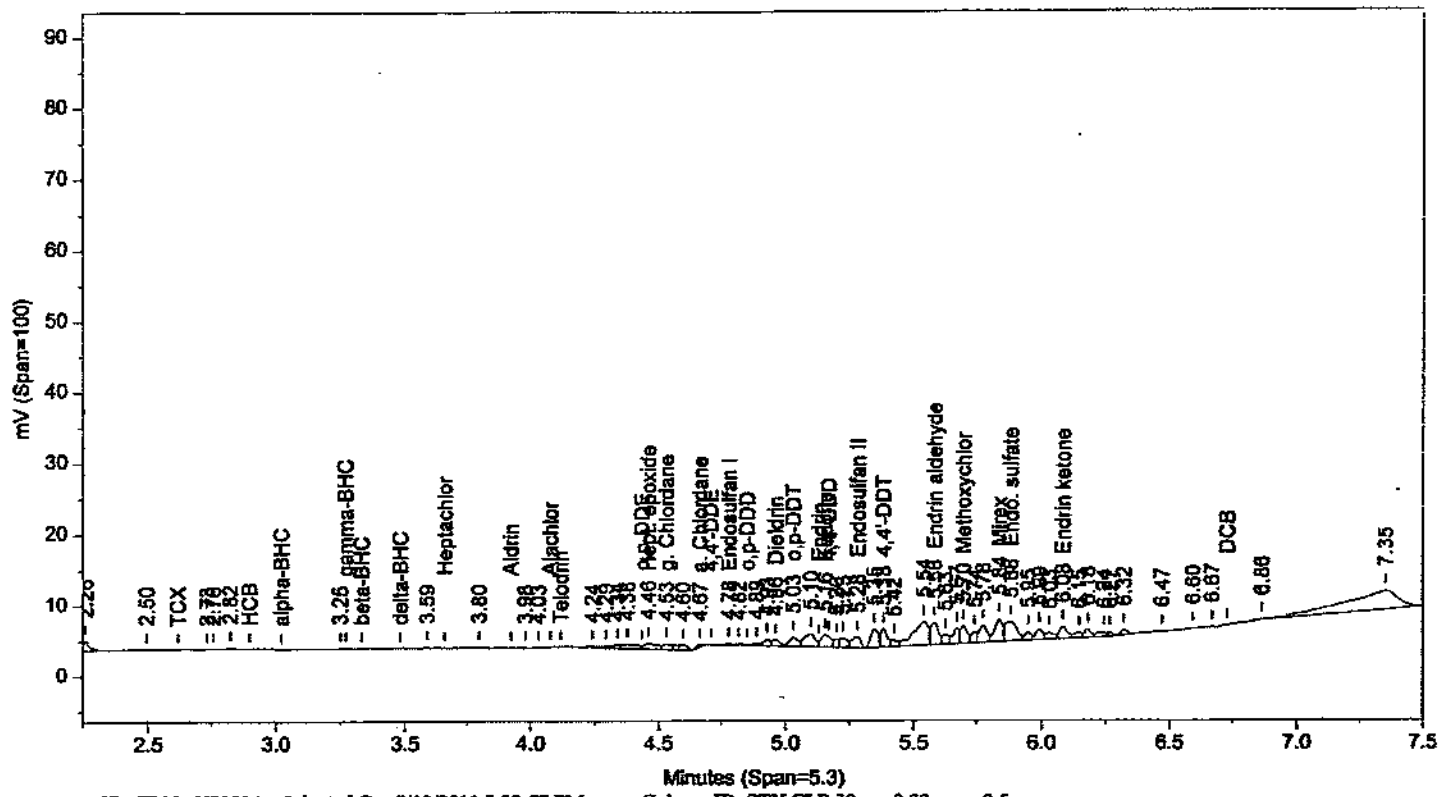
10X REPLOTS


C:\CPWIN\DATA1\1P10200.38R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.75
HCB
alpha-BHC
3.09
3.33
delta-BHC
3.64 Heptachlor
3.79
Aldrin
4.11
4.26
4.44
4.53 g. Chlordane
4.70
4.78
Endosulfan I
o,p-DDD
Dieldrin
5.05 o,p-DDT
5.17
4,4-DDT
5.36
5.43
5.55 Endrin aldehyde
5.65 Methoxychlor
5.78
5.84 Mirex
Endo. sulfate
6.08 Endrin ketone
6.17
6.23
6.32
6.43
6.59
6.65
6.74 DCB


C:\CPWIN\DATA1\1P10200B.38R
mV (Span=1000)
Minutes (Span=5.3)
2.27
2.56 TCX
2.76
HCB
alpha-BHC
gamma-BHC
3.40
3.59
Aldrin
3.89 Aldrin
4.05 Telodrin
4.33
4.38
Hept. epoxide
4.58
Endosulfan I
4,4-DDE
4.98
5.15
5.25
Endosulfan II
4,4'-DDT
5.57 Endrin aldehyde
5.75 Endo. sulfate
Methoxychlor
6.09
6.18
6.38
6.90 DCB

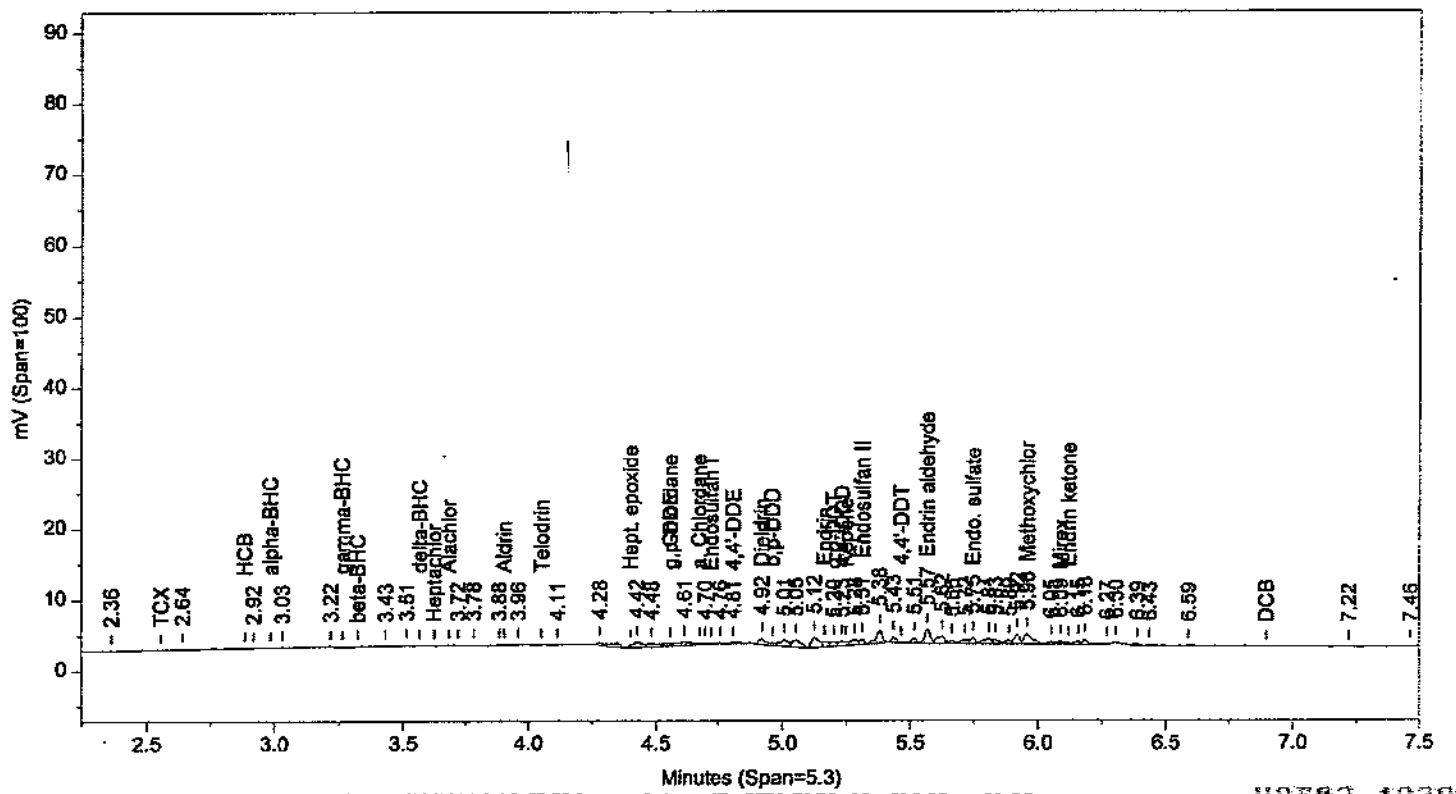
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.39R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 8:22:57 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.39R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 8:22:57 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF03 1929

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

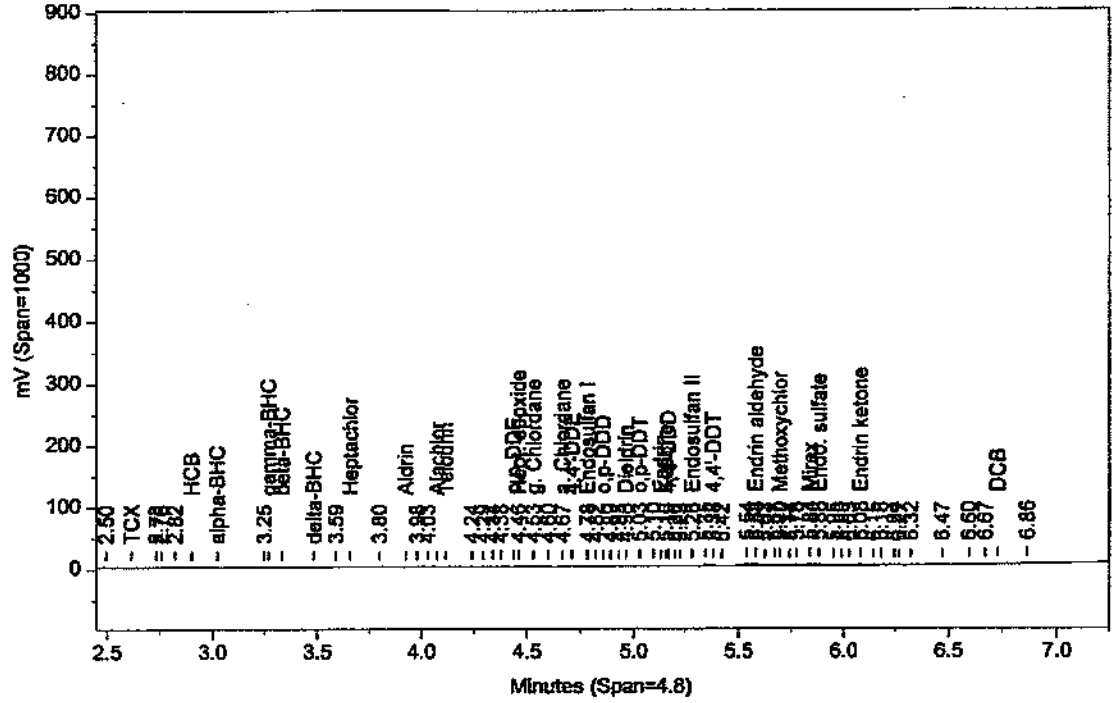
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
4.46	870	.139	Hept. epoxide	.	0	.	Hept. epoxide
4.531	766	.118	g. Chlordane	.	0	.	g. Chlordane
4.667	296	.048	a. Chlordane	.	0	.	a. Chlordane
4.782	255	.044	Endosulfan I	.	0	.	Endosulfan I
.	0	.	4,4'-DDE	4.809	146	.05	4,4'-DDE
4.962	945	.151	Dieldrin	4.92	789	.251	Dieldrin
5.03	1315	.377	o,p-DDT	5.2	672	.373	o,p-DDT
5.155	1700	1.142	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.233	643	.288	4,4'-DDD
5.282	1551	.409	Endosulfan II	5.31	703	.315	Endosulfan II
5.382	2592	.617	4,4'-DDT	.	0	.	4,4'-DDT
5.583	3071	.751	Endrin aldehyde	5.565	1971	1.124	Endrin aldehyde
5.697	2434	1.173	Methoxychlor	5.957	1372	1.938	Methoxychlor
5.883	2706	.658	Endo. sulfate	5.746	862	.498	Endo. sulfate
5.839	3204	.893	Mirex	6.085	445	.366	Mirex
6.082	1736	.318	Endrin ketone	.	0	.	Endrin ketone

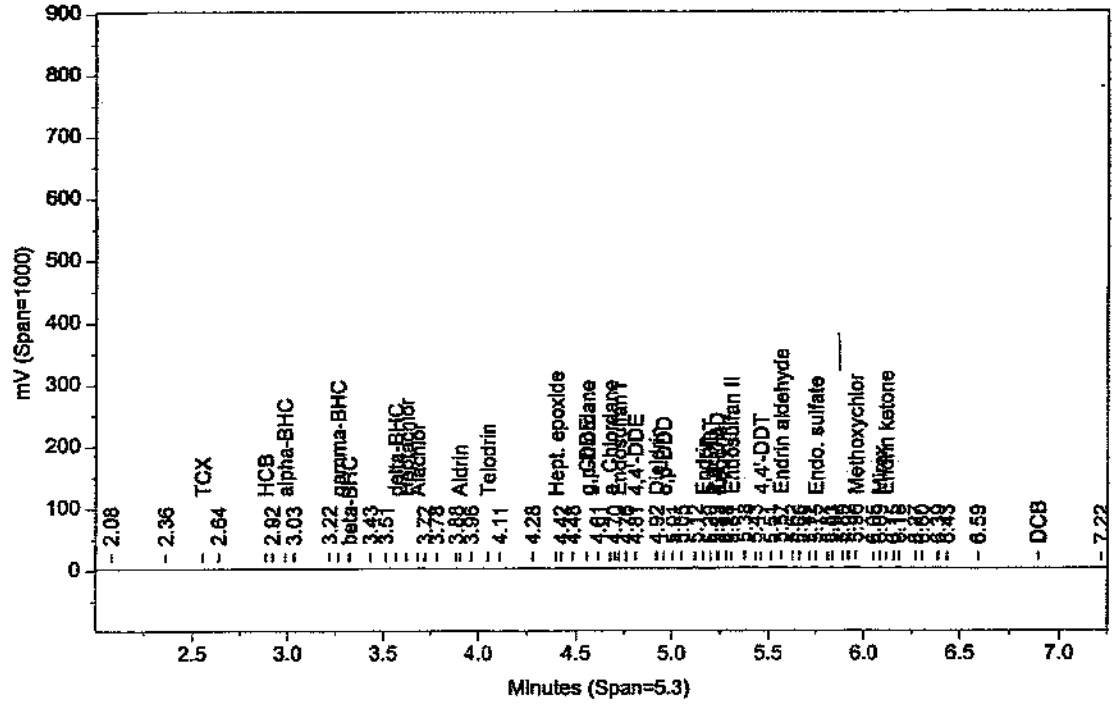
Files:
Area File: C:\CPWIN\DATA1\1P10200.39A
Area File: C:\CPWIN\DATA1\1P10200B.39A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 8:30:34 PM
File Reported On: 7/19/2011 at 8:30:45 PM

10X REPLOTS

C:\CPWIN\DATA1\1P10200.39R

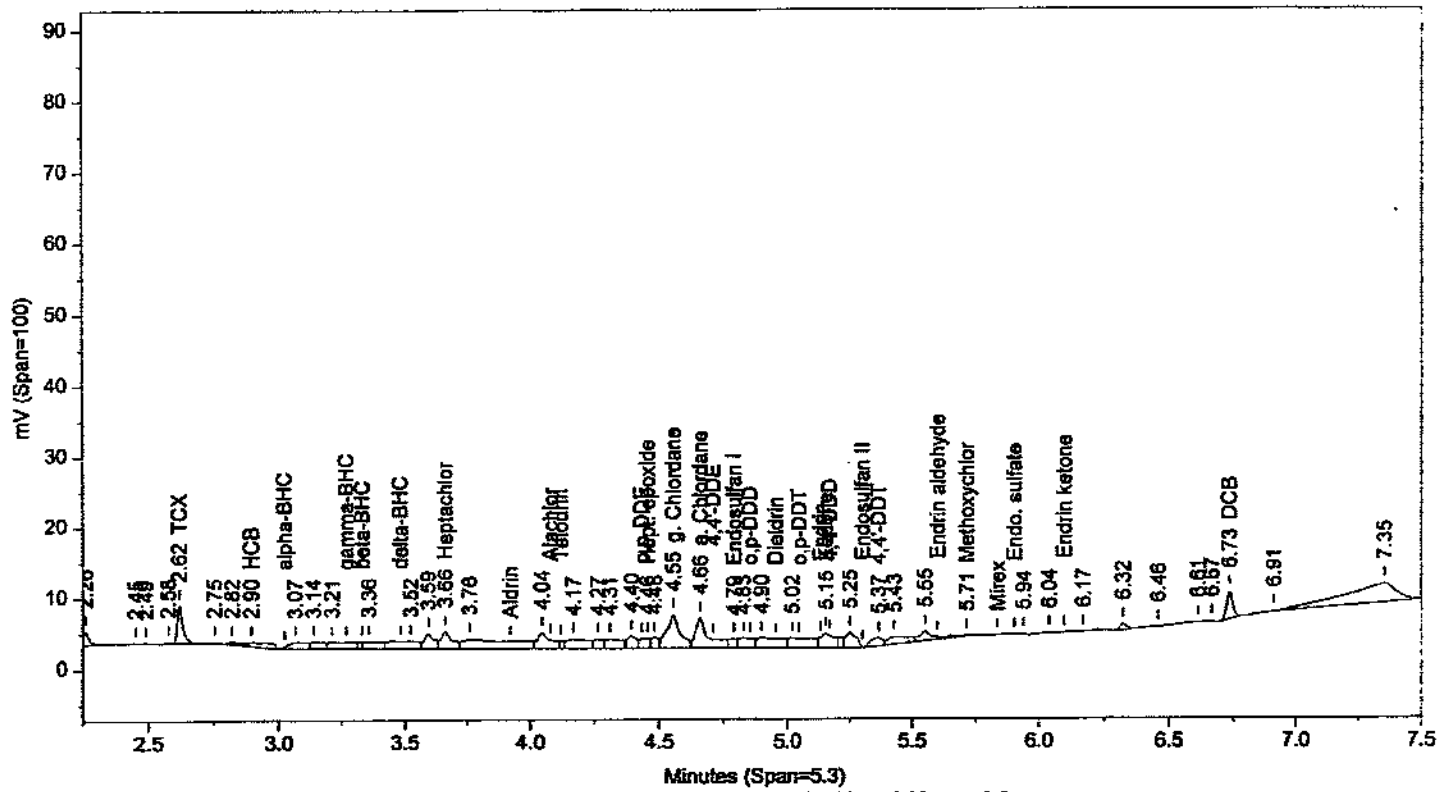


C:\CPWIN\DATA1\1P10200B.39R



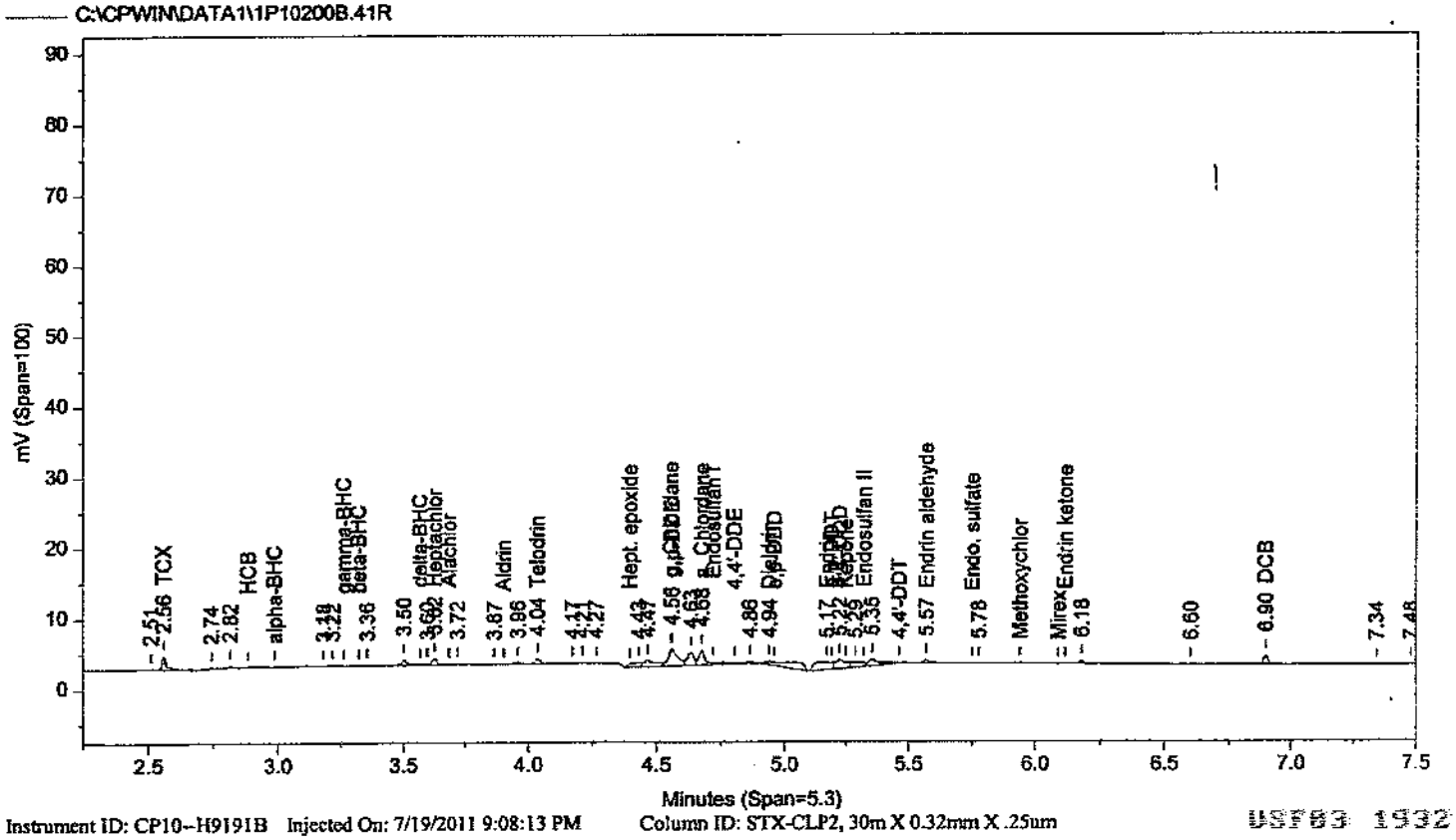
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.41R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 9:08:13 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.41R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 9:08:13 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USP83 1932

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

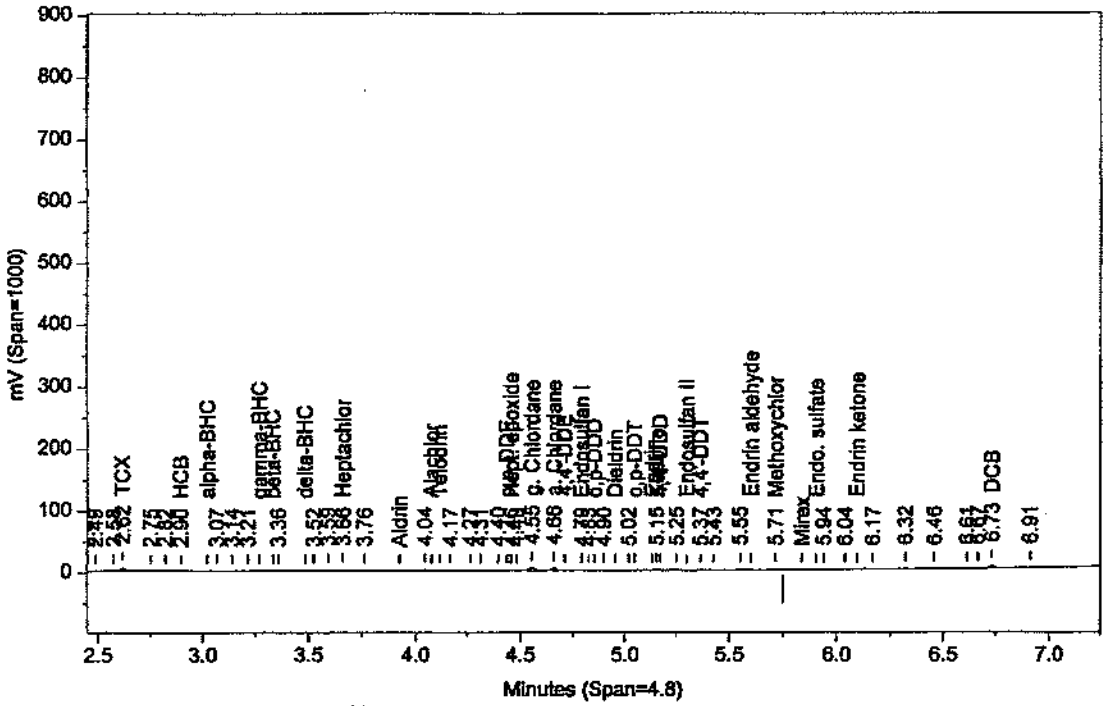
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	5327	.834	TCX	2.559	1920	.833	TCX
2.896	600	.086	HCB	.	0	.	HCB
3.662	2361	.347	Heptachlor	3.625	927	.252	Heptachlor
.	0	.	Telodrin	4.035	635	.251	Telodrin
4.457	1342	.214	Hept. epoxide	.	0	.	Hept. epoxide
4.555	4715	.726	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.56	2417	1.233	o,p-DDE
4.659	4233	.683	a. Chlordane	4.676	2062	.659	a. Chlordane
4.791	1259	.218	Endosulfan I	.	0	.	Endosulfan I
.	0	.	Dieldrin	4.94	474	.151	Dieldrin
5.154	1990	1.337	Kepone	.	0	.	Kepone
.	0	.	Endrin	5.17	1063	.414	Endrin
.	0	.	4,4'-DDD	5.223	1202	.538	4,4'-DDD
5.366	1111	.264	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.57	390	.222	Endrin aldehyde
5.714	173	.083	Methoxychlor	.	0	.	Methoxychlor
6.734	3846	1.001	DCB	6.899	1241	1.251	DCB

Files:
Area File: C:\CPWIN\DATA1\IP10200.41A
Area File: C:\CPWIN\DATA1\IP10200B.41A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 9:15:50 PM
File Reported On: 7/19/2011 at 9:16:01 PM

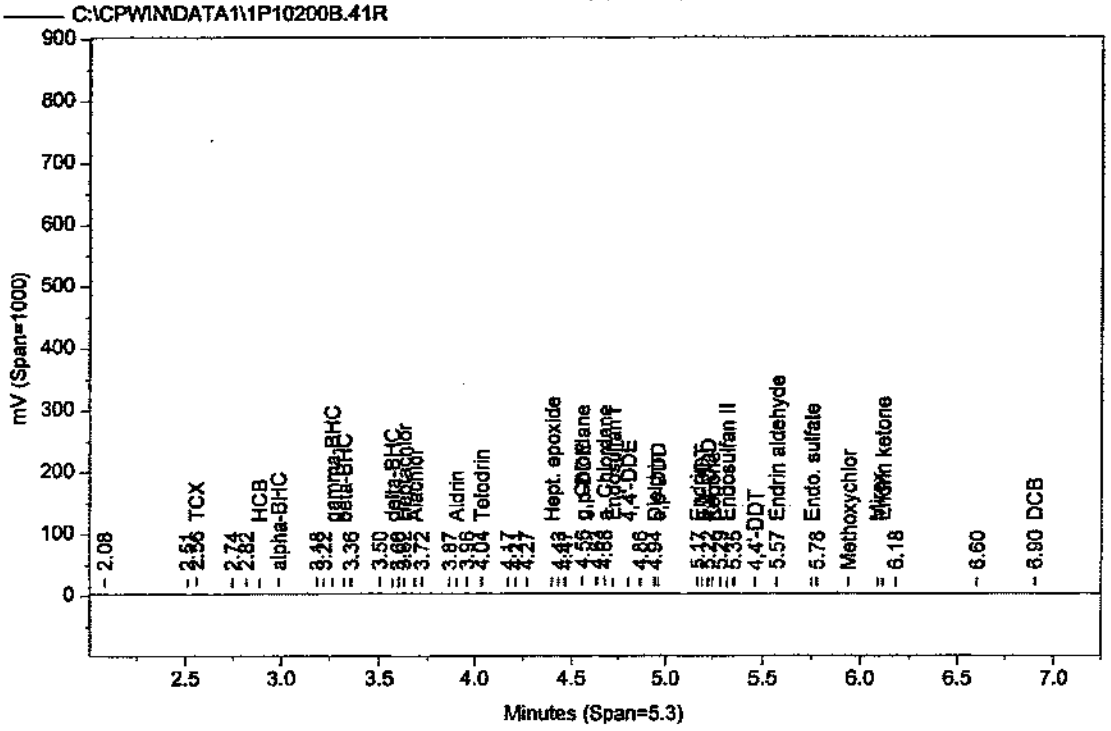
10X REPLOTS

USF03 1933

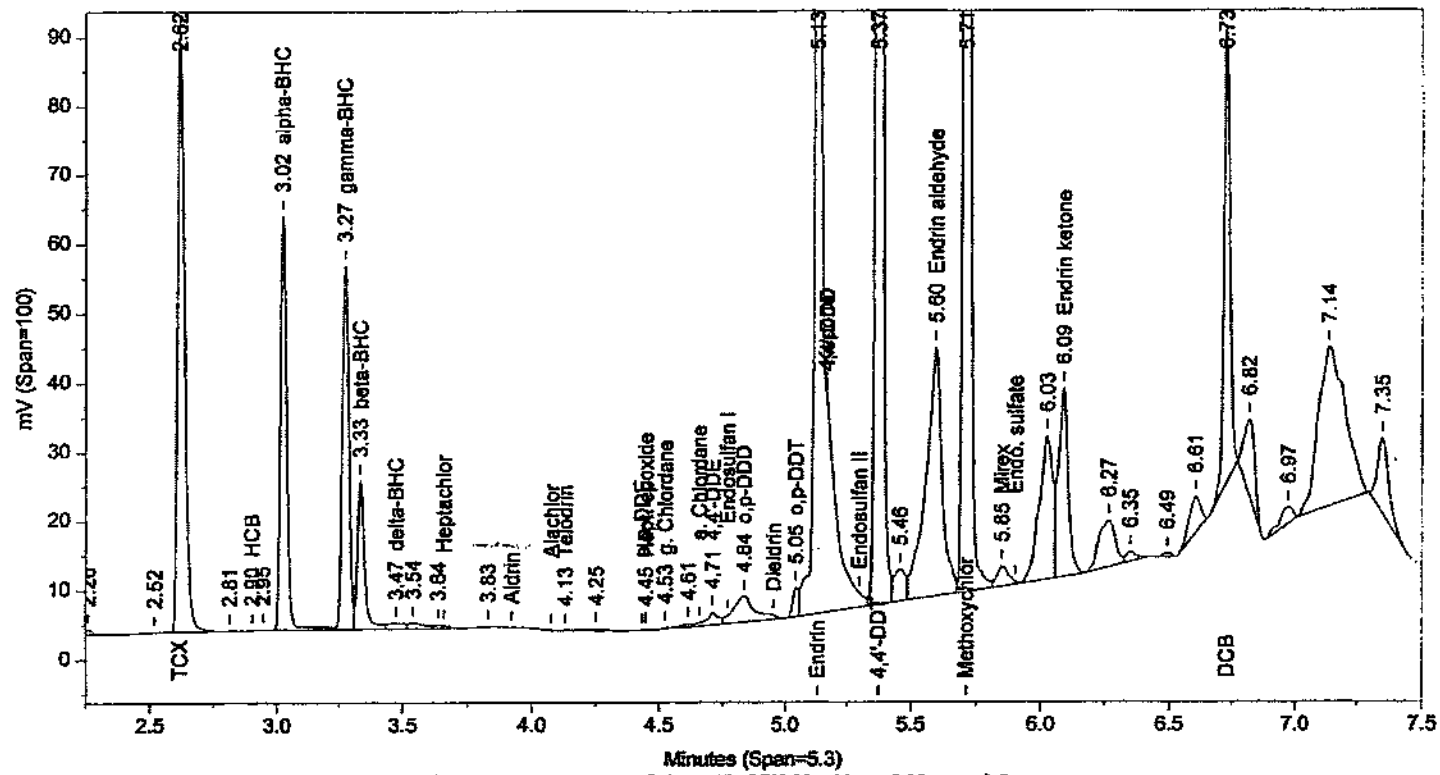
C:\CPWIN\DATA1\1P10200.41R



C:\CPWIN\DATA1\1P10200B.41R



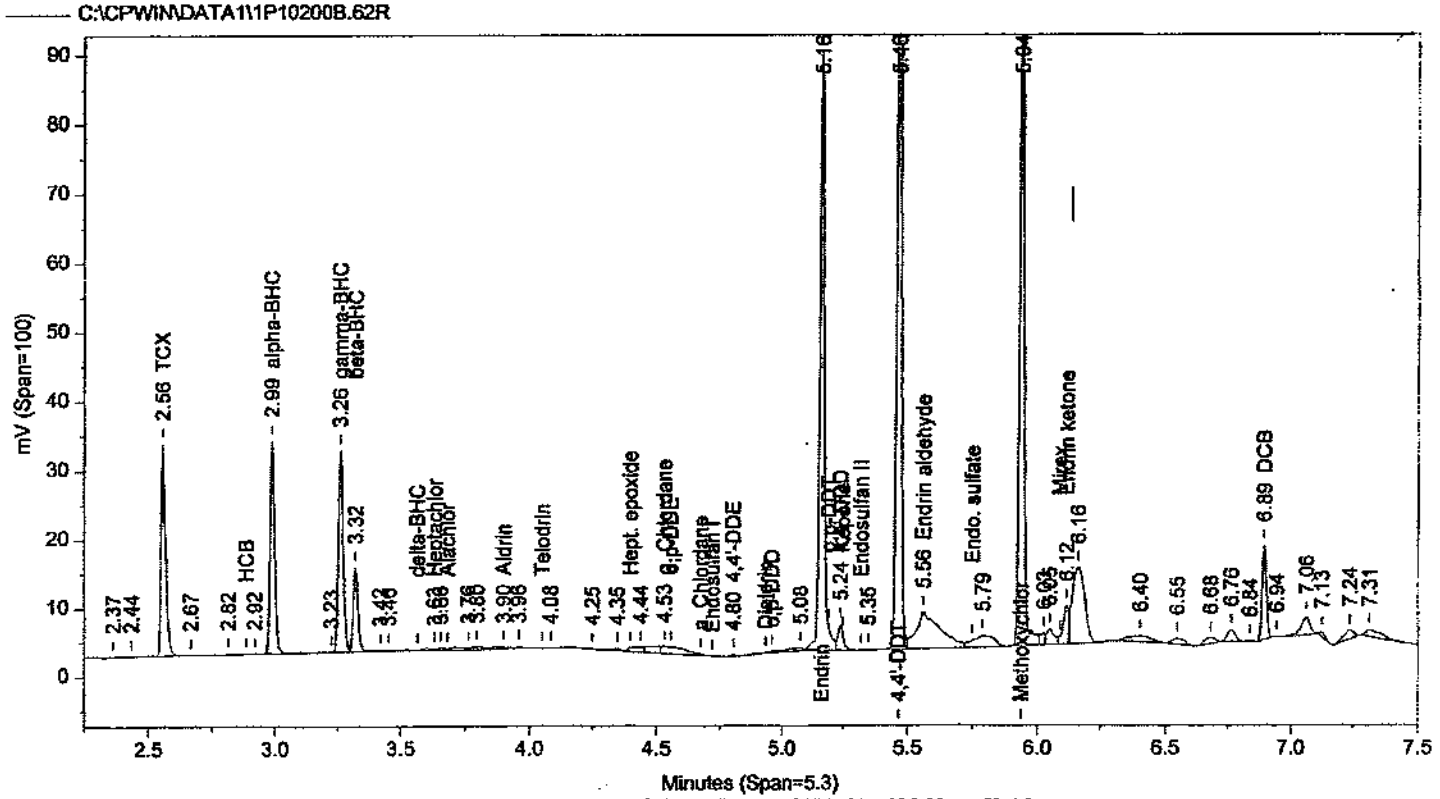
LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P10200.62R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 3:25:20 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

%DDT BD= 0.4840402

File: C:\CPWIN\DATA1\1P10200B.62R %ENDRIN BD= 24.13341



Instrument ID: CP10--H9191B Injected On: 7/20/2011 3:25:20 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

%DDT BD= 3.391445

%ENDRIN BD= 11.16666

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

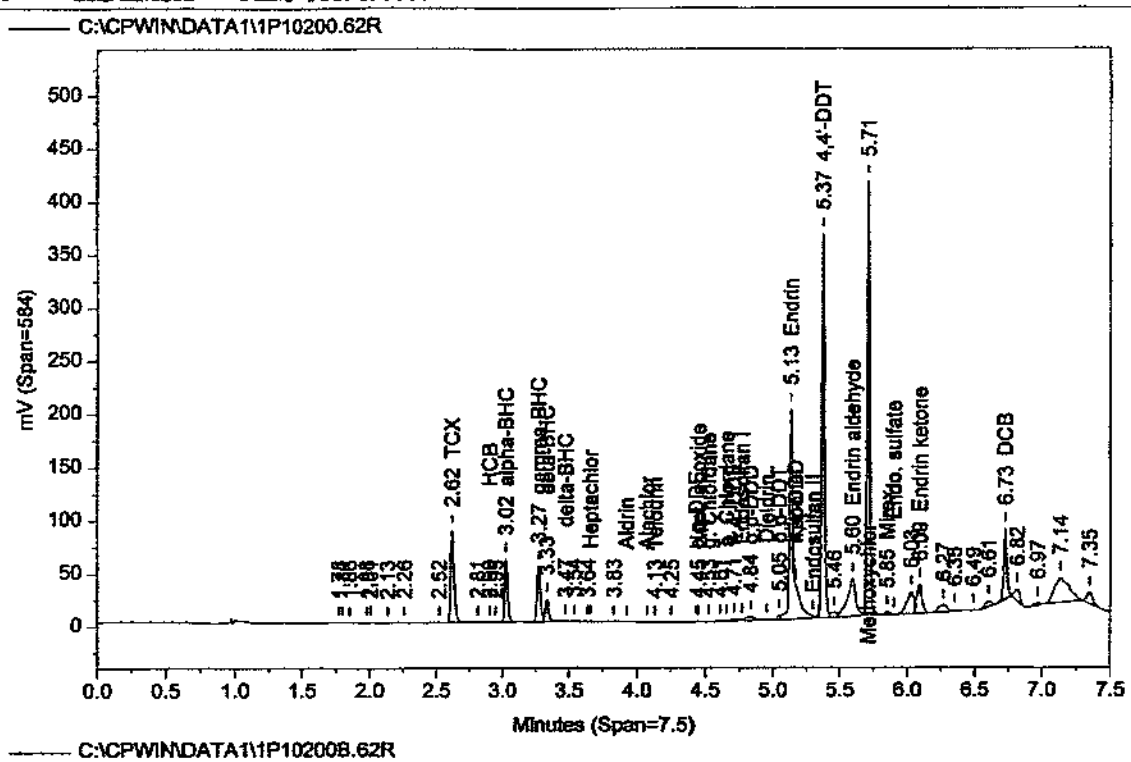
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

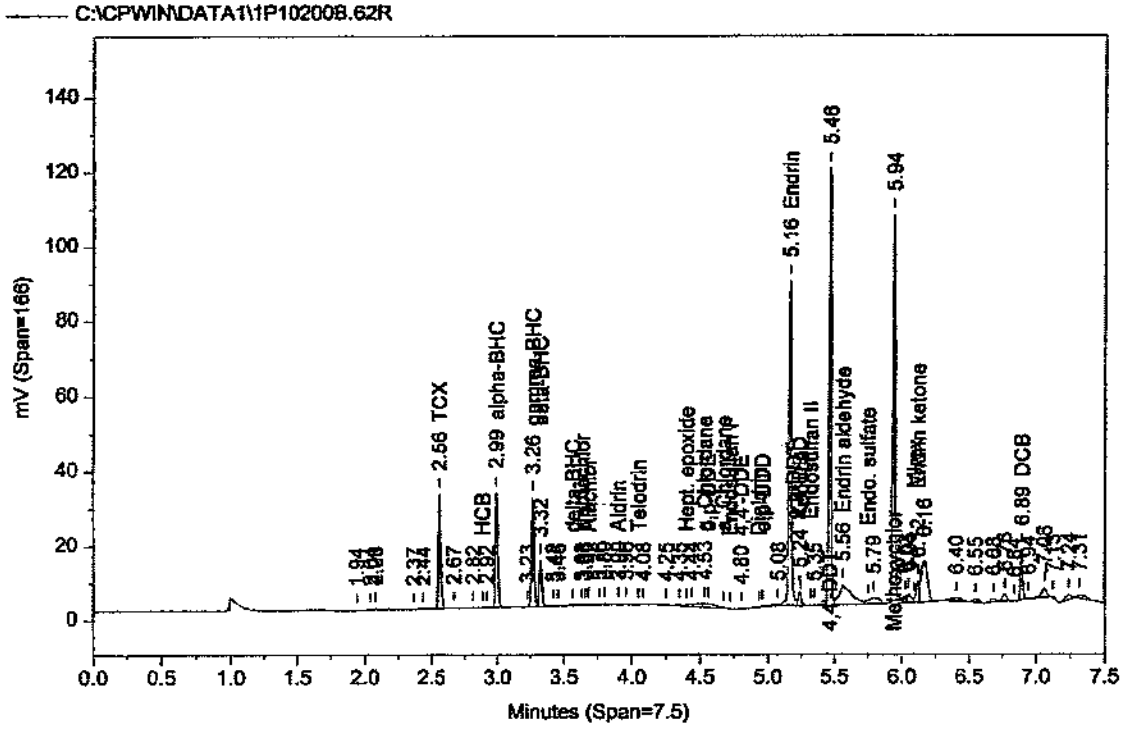
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	86920	13.616	TCX	2.558	31100	13.491	TCX
2.903	50	.007	HCB	.	0	.	HCB
3.024	59907	7.044	alpha-BHC	2.989	31252	6.404	alpha-BHC
3.272	52913	6.942	gamma-BHC	3.263	29275	6.421	gamma-BHC
3.334	21500	5.93	beta-BHC	3.324	12346	6.507	beta-BHC
3.474	768	.106	delta-BHC	.	0	.	delta-BHC
.	0	.	Heptachlor	3.633	222	.06	Heptachlor
.	0	.	Aldrin	3.901	308	.092	Aldrin
4.131	91	.018	Telodrin	.	0	.	Telodrin
4.449	80	.013	Hept. epoxide	.	0	.	Hept. epoxide
4.525	269	.041	g. Chlordane	4.532	1083	.35	g. Chlordane
4.71	1769	.305	4,4'-DDE	4.803	336	.116	4,4'-DDE
4.835	3723	1.152	o,p-DDD	.	0	.	o,p-DDD
5.045	4154	1.189	o,p-DDT	.	0	.	o,p-DDT
5.132	198866	38.405	Endrin	5.162	87590	34.168	Endrin
.	0	.	4,4'-DDD	5.239	3830	1.715	4,4'-DDD
5.374	363638	86.548	4,4'-DDT	5.465	118682	64.685	4,4'-DDT
5.596	35958	8.794	Endrin aldehyde	5.561	5344	3.048	Endrin aldehyde
5.712	415837	200.377	Methoxychlor	5.939	105791	149.503	Methoxychlor
5.851	2906	.81	Mirex	.	0	.	Mirex
6.092	27302	5.003	Endrin ketone	6.117	5666	2.864	Endrin ketone
6.729	66469	17.3	DCB	6.894	13753	13.86	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.62A
Area File: C:\CPWIN\DATA1\1P10200B.62A
Method A: C:\CPWIN\DATA1\EVALD.MET
Method B: C:\CPWIN\DATA1\EVALDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\EVALD.FMTA
Format B: C:\CPWIN\DATA1\EVALD.FMTB
Area File Created On: 7/20/2011 3:32:58 AM
File Reported On: 7/20/2011 at 3:33:08 AM

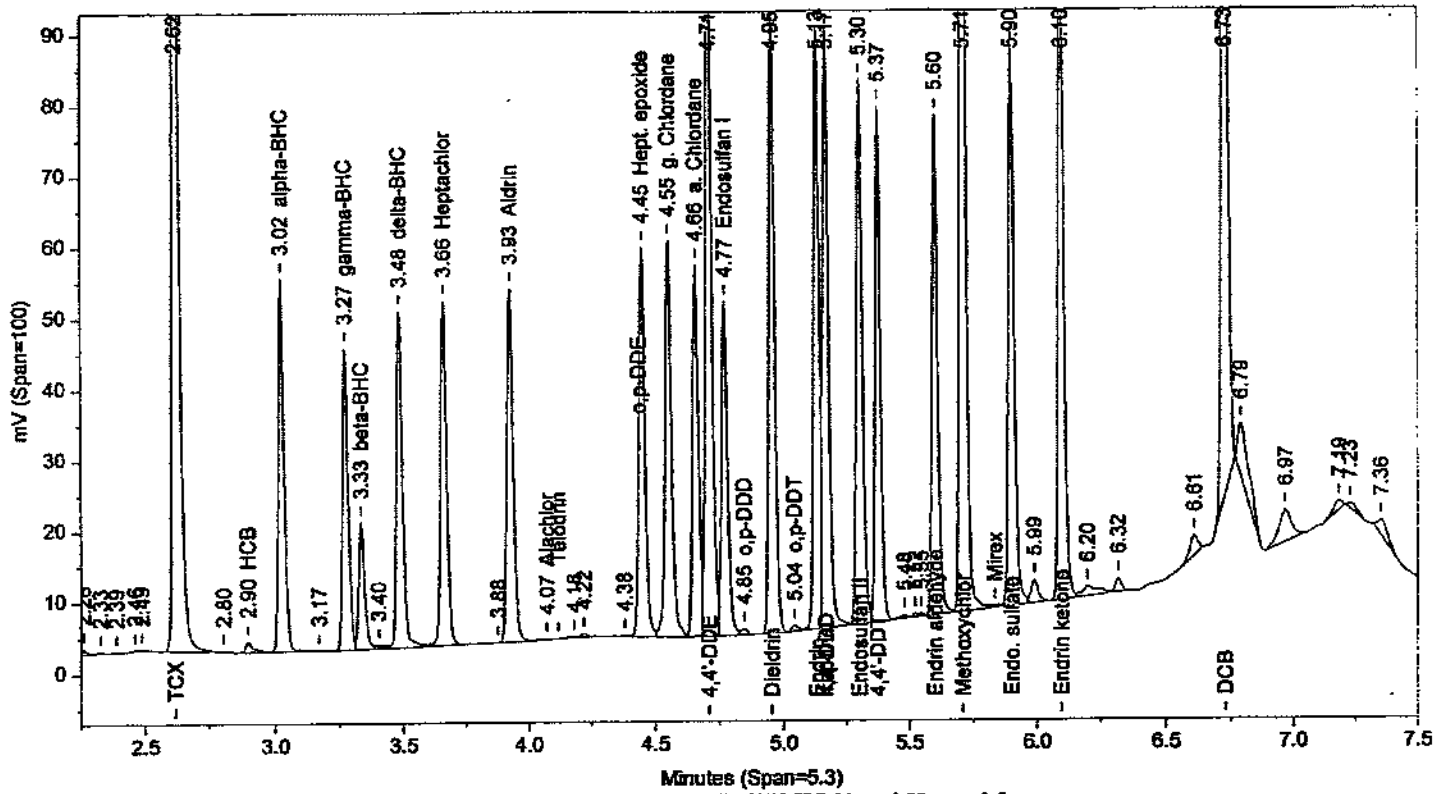
REPLOTS


C:\CPWIN\DATA1\1P10200.62R
mV (Span=584)
Minutes (Span=7.5)
2.62 TCX
HCB
3.02 alpha-BHC
delta-BHC
Heptachlor
Aldrin
5.13 Endrin
5.37 4,4'-DDT
5.71
5.60 Endrin aldehyde
Methoxychlor
5.85 Endo. sulfate
Endrin ketone
6.73 DCB
6.82
6.97
7.14
7.35


C:\CPWIN\DATA1\1P10200B.62R
mV (Span=166)
Minutes (Span=7.5)
2.56 TCX
HCB
2.99 alpha-BHC
3.26
Aldrin
Telodrin
Hept. epoxide
5.16 Endrin
5.46
Endosulfan II
5.56 Endrin aldehyde
5.79 Endo. sulfate
5.94
Methoxychlor
Endrin ketone
6.89 DCB

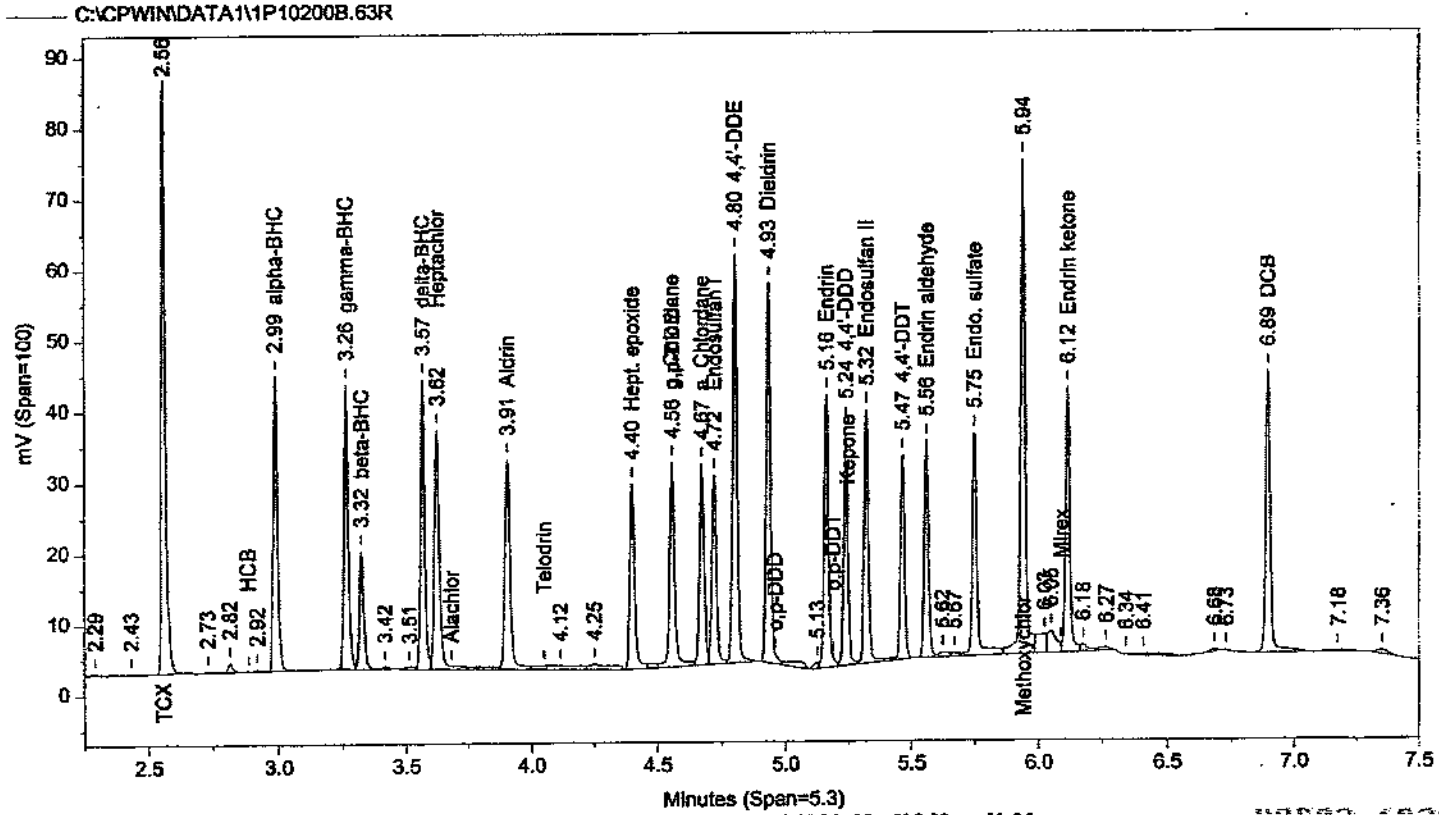
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.63R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 3:41:07 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.63R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 3:41:07 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

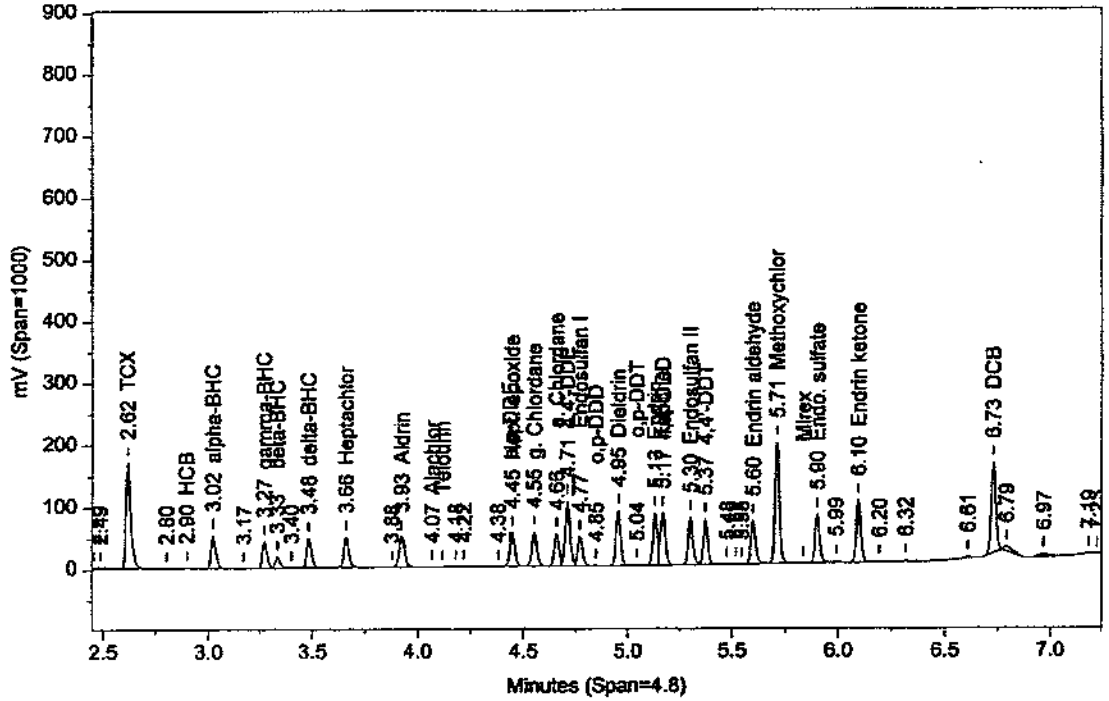
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	171769	26.908	TCX	2.559	85517	37.097	TCX
2.897	1421	.203	HCB	.	0	.	HCB
3.023	52445	6.167	alpha-BHC	2.989	41998	8.606	alpha-BHC
3.271	42853	5.622	gamma-BHC	3.263	40144	8.805	gamma-BHC
3.334	17858	4.926	beta-BHC	3.324	16882	8.898	beta-BHC
3.484	47669	6.591	delta-BHC	3.567	40903	9.443	delta-BHC
3.661	48778	7.167	Heptachlor	3.624	34069	9.256	Heptachlor
3.925	50008	7.398	Aldrin	3.906	29882	8.893	Aldrin
4.07	153	.	Alachlor	.	0	.	Alachlor
4.448	55430	8.855	Hept. epoxide	4.401	26638	9.362	Hept. epoxide
4.552	56312	8.676	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.558	29297	14.95	o,p-DDE
4.658	52789	8.512	a. Chlordane	4.674	28548	9.123	a. Chlordane
4.71	105153	18.122	4,4'-DDE	4.803	57697	19.931	4,4'-DDE
4.77	47154	8.175	Endosulfan I	4.722	26980	9.607	Endosulfan I
4.846	865	.268	o,p-DDD	.	0	.	o,p-DDD
4.954	89355	14.235	Dieldrin	4.933	53635	17.028	Dieldrin
5.044	871	.25	o,p-DDT	.	0	.	o,p-DDT
5.133	85007	16.417	Endrin	5.163	38447	14.998	Endrin
5.169	84690	17.991	4,4'-DDD	5.24	34128	15.285	4,4'-DDD
5.301	76991	20.301	Endosulfan II	5.32	35755	16.006	Endosulfan II
5.373	72741	17.313	4,4'-DDT	5.466	29133	15.878	4,4'-DDT
5.6	70582	17.262	Endrin aldehyde	5.56	30652	17.485	Endrin aldehyde
5.712	197796	95.311	Methoxychlor	5.939	69960	98.867	Methoxychlor
5.902	79724	19.381	Endo. sulfate	5.751	31661	18.299	Endo. sulfate
6.097	100705	18.454	Endrin ketone	6.117	37253	18.832	Endrin ketone
6.73	145481	37.865	DCB	6.894	40138	40.45	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.63A
Area File: C:\CPWIN\DATA1\1P10200B.63A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 3:48:46 AM
File Reported On: 7/20/2011 at 3:48:55 AM

USP93 1939

10X REPLOTS

C:\CPWIN\DATA1\1P10200.63R



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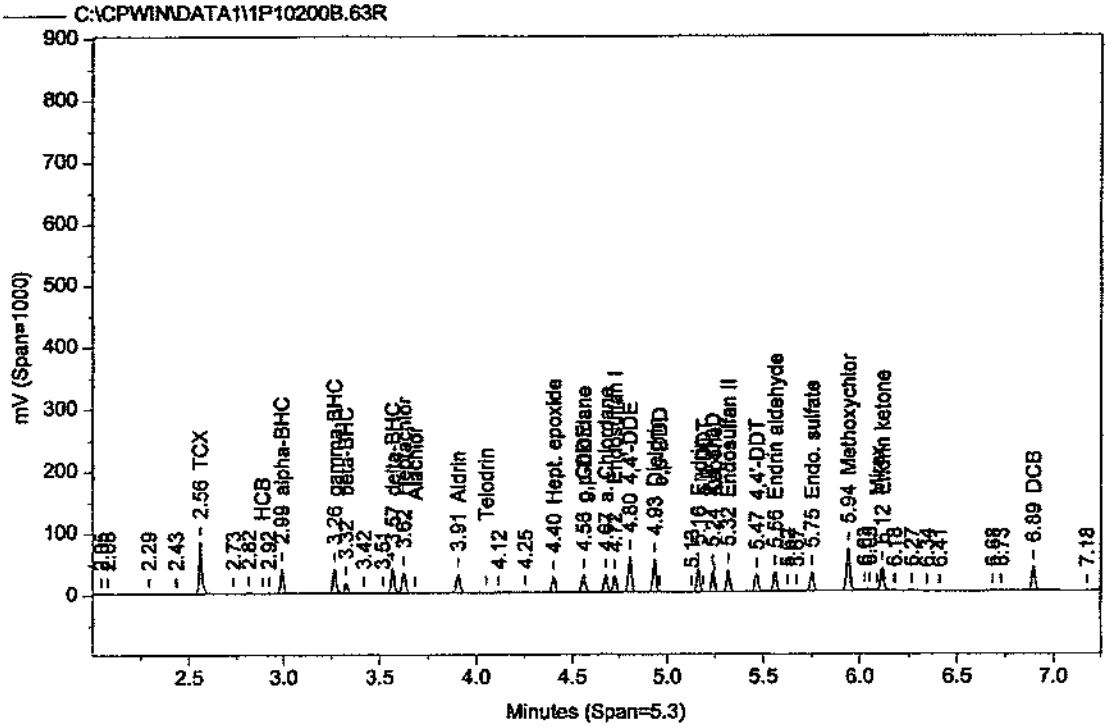

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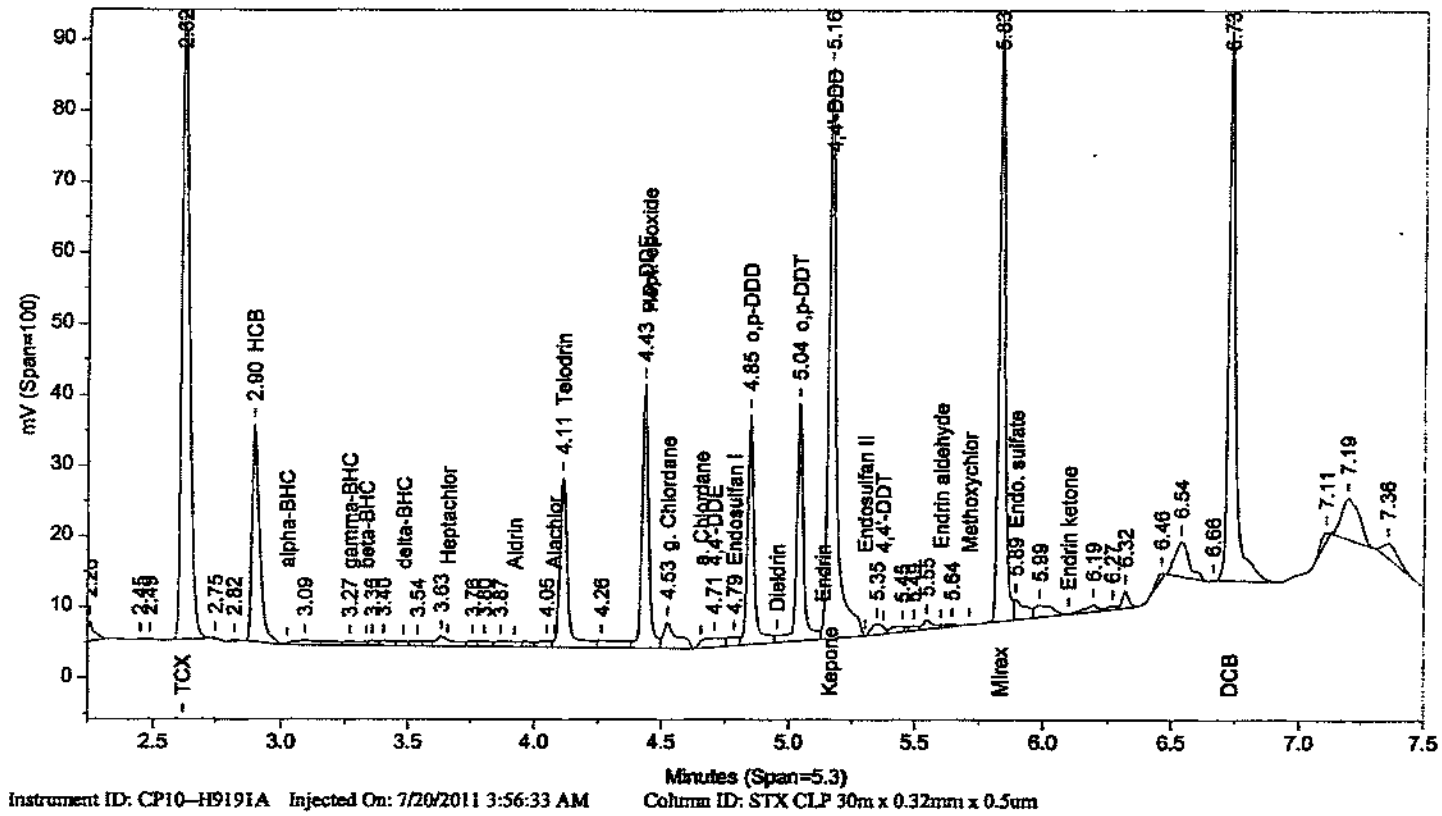
C:\CPWIN\DATA1\1P10200.64R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 3:56:33 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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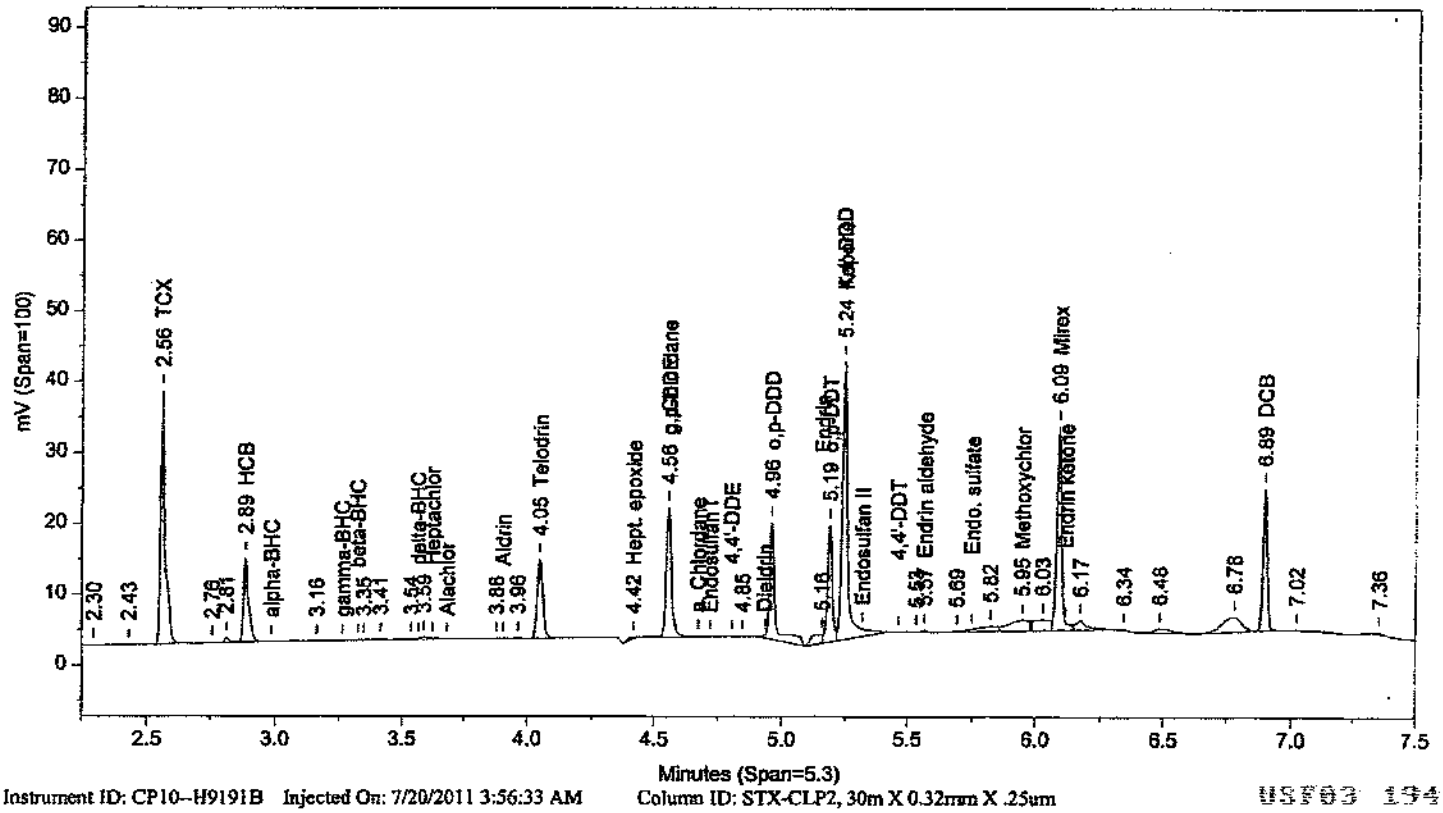


Instrument ID: CP10--H9191B Injected On: 7/20/2011 3:56:33 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USEPA 1941

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

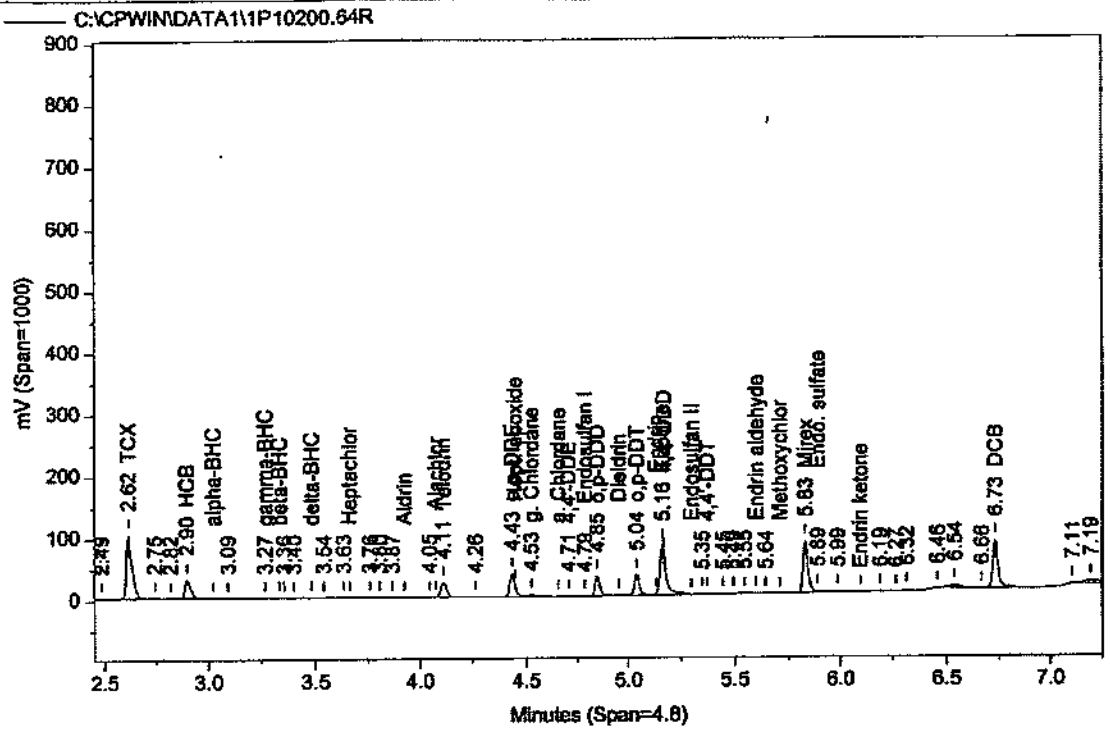
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	102843	16.111	TCX	2.556	35769	15.516	TCX
2.897	30761	4.387	HCB	2.888	12034	3.832	HCB
3.267	587	.077	gamma-BHC	.	0	.	gamma-BHC
4.112	24221	4.822	Telodrin	4.048	11242	4.434	Telodrin
.	0	.	Hept. epoxide	4.417	249	.087	Hept. epoxide
4.433	37221	9.992	o,p-DDE	4.556	18382	9.38	o,p-DDE
4.525	3624	.558	g. Chlordane	.	0	.	g. Chlordane
4.707	1298	.224	4,4'-DDE	.	0	.	4,4'-DDE
4.787	1161	.201	Endosulfan I	.	0	.	Endosulfan I
4.847	32651	10.107	o,p-DDD	4.96	16541	9.73	o,p-DDD
5.042	33951	9.722	o,p-DDT	5.188	16613	9.227	o,p-DDT
.	0	.	Endrin	5.158	1209	.472	Endrin
5.163	80590	54.145	Kepone	5.244	39616	53.793	Kepone
.	0	.	Endrin aldehyde	5.566	351	.2	Endrin aldehyde
5.832	84057	23.434	Mirex	6.09	28715	23.61	Mirex
5.893	2808	.683	Endo. sulfate	.	0	.	Endo. sulfate
.	0	.	Methoxychlor	5.948	1507	2.13	Methoxychlor
6.73	77481	20.167	DCB	6.894	19969	20.125	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.64A
Area File: C:\CPWIN\DATA1\1P10200B.64A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On| 7/20/2011 4:04:10 AM
File Reported On: 7/20/2011 at 4:04:20 AM

10X REPLOTS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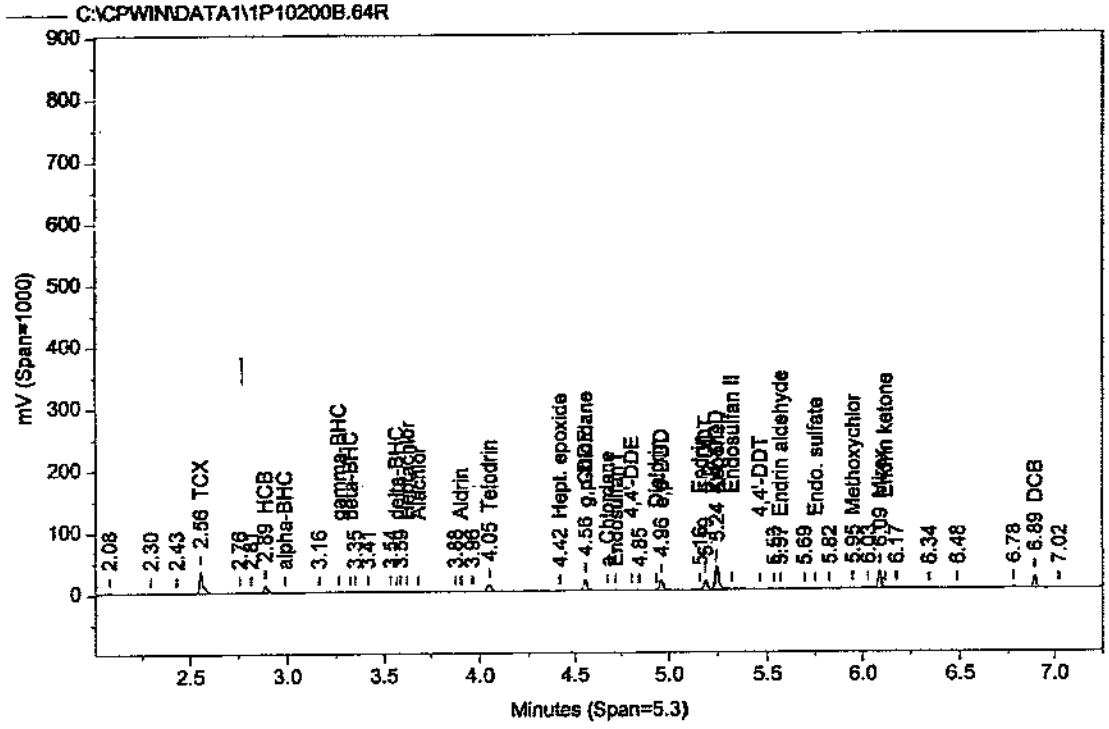
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.90 HCB
3.09 alpha-BHC
4.26
6.73 DCB
7.11
7.19


C:\CPWIN\DATA1\1P10200B.64R
mV (Span=1000)
Minutes (Span=5.3)
2.08
2.30
2.43
2.56 TCX
2.89 HCB
3.16 alpha-BHC
4.05 Aldrin
4.42 Hepl. epoxide
4.85 4,4'-DDE
4.96 Dieldrin
5.24 Endosulfan II
4,4'-DDT
5.69 Endo. sulfate
5.82 Methoxychlor
6.34
6.48
6.78
6.89 DCB
7.02

Sample Name: **TOXA31124C FDTOXA3FD CCAL 1119899999**
Acquired from CP10--H9191A via port 1 on 7/20/11 04:19:51am by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.65R**
Method File: C:\CPWIN\DATA1\PESTDLMET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.782		0.0000	0.000	205.4	0.006	BV	0.017	199.91	0.014
2	1.808		0.0000	0.000	822.2	0.023	VV	0.036	382.77	0.027
3	1.865		0.0000	0.000	563.0	0.016	VV	0.043	218.62	0.016
4	1.986		0.0000	0.000	199.5	0.006	VB	0.030	109.46	0.008
5	2.162		0.0000	0.000	2628.8	0.074	BV	0.081	541.67	0.039
6	2.221		0.0000	0.000	1115.6	0.032	VV	0.049	379.58	0.027
7	2.258		0.0000	0.000	1926.2	0.054	VB	0.025	1272.53	0.091
8	2.320		0.0000	0.000	241.8	0.007	BB	0.035	115.88	0.008
9	2.453		0.0000	0.000	131.6	0.004	BB	0.027	82.30	0.006
10	2.597		0.0000	0.000	186.3	0.005	BB	0.024	130.75	0.009
11	2.719		0.0000	0.000	154.6	0.004	BB	0.031	83.85	0.006
12	2.825		0.0000	0.000	422.9	0.012	BB	0.039	180.12	0.013
13	2.936		0.0000	0.000	182.4	0.005	BB	0.040	76.86	0.005
14	3.094		0.0000	0.000	982.9	0.028	BV	0.095	172.24	0.012
15	3.242		0.0000	0.000	5983.4	0.169	VV	0.029	3446.45	0.246
16	3.338	beta-BHC	0.1667	0.109	1662.5	0.047	VB	0.046	604.45	0.043
17	3.452		0.0000	0.000	548.7	0.016	BB	0.049	186.18	0.013
18	3.584		0.0000	0.000	5133.0	0.145	BV	0.035	2412.74	0.172
19	3.734		0.0000	0.000	1773.1	0.050	VV	0.041	719.68	0.051
20	3.786		0.0000	0.000	3133.0	0.089	VV	0.046	1140.10	0.081
21	3.867		0.0000	0.000	4679.8	0.132	VV	0.033	2381.67	0.170
22	3.970		0.0000	0.000	675.3	0.019	VB	0.022	523.29	0.037
23	4.021		0.0000	0.000	2263.7	0.064	BV	0.032	1164.94	0.083
24	4.085	Alachlor	0.0000	0.000	4585.7	0.130	VB	0.040	1902.59	0.136
25	4.186		0.0000	0.000	292.9	0.008	BV	0.021	227.47	0.016
26	4.235		0.0000	0.000	3245.9	0.092	VB	0.034	1579.88	0.113
27	4.297		0.0000	0.000	3950.2	0.112	BV	0.028	2371.69	0.169
28	4.336		0.0000	0.000	8422.4	0.238	VV	0.029	4819.42	0.344
29	4.374		0.0000	0.000	20442.0	0.578	VV	0.050	6815.41	0.486
30	4.459	Hept. epoxide	1.5648	1.024	20735.5	0.586	VV	0.035	9795.14	0.699
31	4.542	g. Chlordane	0.2200	0.144	3456.6	0.098	VV	0.040	1427.69	0.102
32	4.601		0.0000	0.000	7241.8	0.205	VV	0.047	2575.15	0.184
33	4.657	a. Chlordane	1.3734	0.899	30511.6	0.863	VV	0.060	8517.39	0.608
34	4.775	Endosulfan I	0.9610	0.629	16788.1	0.475	VV	0.050	5543.15	0.396
35	4.819		0.0000	0.000	8548.7	0.242	VV	0.035	4043.76	0.289
36	4.881		0.0000	0.000	10285.0	0.291	VV	0.038	4463.15	0.318
37	4.926		0.0000	0.000	29841.0	0.844	VV	0.032	15507.23	1.107
38	4.958	Dieldrin	2.7680	1.811	31963.2	0.904	VV	0.031	17375.05	1.240
39	5.026	o,p-DDT	8.3740	5.478	59637.1	1.686	VV	0.034	29243.36	2.087
40	5.095		0.0000	0.000	114268.7	3.230	VV	0.044	42827.25	3.056
41	5.151	Kepone	20.7257	13.559	76163.1	2.153	VV	0.041	30848.17	2.201
42	5.196		0.0000	0.000	22862.7	0.646	VV	0.022	17252.12	1.231
43	5.222		0.0000	0.000	41739.5	1.180	VV	0.031	22780.95	1.626
44	5.286	Endosulfan II	8.4280	5.514	82637.4	2.336	VV	0.043	31964.08	2.281
45	5.340		0.0000	0.000	135075.1	3.819	VV	0.035	64058.16	4.571
46	5.379	4,4'-DDT	14.7940	9.678	124269.2	3.513	VV	0.033	62157.96	4.435
47	5.531		0.0000	0.000	264748.6	7.484	VV	0.059	74869.87	5.342
48	5.579		0.0000	0.000	168454.0	4.762	VV	0.037	76005.59	5.423
49	5.620		0.0000	0.000	53244.4	1.505	VV	0.032	27735.25	1.979
50	5.668		0.0000	0.000	91988.1	2.600	VV	0.028	54927.50	3.919
51	5.693	Methoxychlor	28.8491	18.874	103243.7	2.919	VV	0.029	59869.86	4.272
52	5.738		0.0000	0.000	61054.7	1.726	VV	0.026	39767.32	2.838
53	5.771		0.0000	0.000	132436.0	3.744	VV	0.036	60836.94	4.341
54	5.833	Mirex	22.7914	14.910	170334.0	4.815	VV	0.035	81751.27	5.833
55	5.879		0.0000	0.000	265777.5	7.513	VV	0.055	81169.02	5.792
56	5.948		0.0000	0.000	85752.4	2.424	VV	0.030	47016.87	3.355
57	5.989		0.0000	0.000	193568.5	5.472	VV	0.053	60671.42	4.329
58	6.078	Endrin ketone	8.8549	5.793	108494.5	3.067	VV	0.037	48322.01	3.448
59	6.142		0.0000	0.000	51253.2	1.449	VV	0.037	23144.58	1.651
60	6.176		0.0000	0.000	60799.2	1.719	VV	0.029	34775.08	2.481
61	6.219		0.0000	0.000	18460.3	0.522	VV	0.021	14785.58	1.055
62	6.237		0.0000	0.000	19840.4	0.561	VV	0.022	15270.18	1.090
63	6.262		0.0000	0.000	23937.6	0.677	VV	0.025	16155.57	1.153
64	6.305		0.0000	0.000	6877.4	0.194	VV	0.029	3957.60	0.282

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PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.337		0.0000	0.000	5266.4	0.149	VV	0.024	3603.13	0.257
66	6.388		0.0000	0.000	400.2	0.011	VB	0.017	393.83	0.028
67	6.425		0.0000	0.000	2170.0	0.061	BB	0.023	1591.74	0.114
68	6.459		0.0000	0.000	5750.3	0.163	BB	0.025	3788.25	0.270
69	6.615		0.0000	0.000	100612.0	2.844	BB	0.053	31708.33	2.263
70	6.733 DCB		32.9837	21.578	617001.2	17.442	BB	0.081	126725.80	9.043
71	6.982		0.0000	0.000	12762.7	0.361	BB	0.050	4265.62	0.304
72	7.236		0.0000	0.000	20557.6	0.581	BB	0.092	3705.48	0.264

Total Area = 3537364.0, Total Amount = 152.855, Total Height = 1401436.0, Sample Units = PPB

Sample Name: **TOXA31124C FDTOXA3FD CCAL 1119899999**
Acquired from CP10--H9191B via port 2 on 7/20/11 04:19:51am by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.65R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

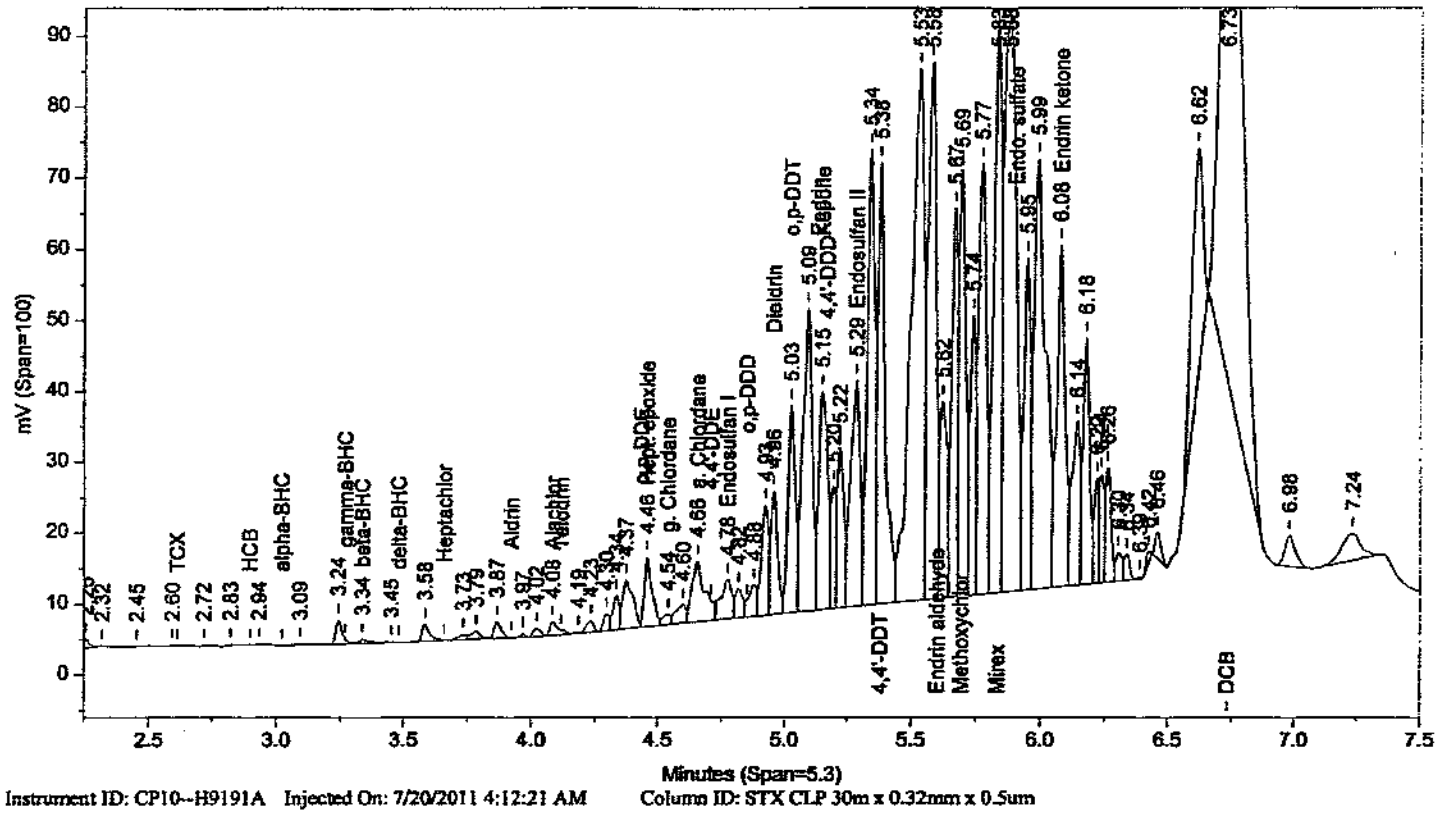
PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.983		0.0000	0.000	1689.3	0.230	BV	0.103	273.32	0.060
2	2.078		0.0000	0.000	609.4	0.083	VB	0.027	372.86	0.082
3	2.362		0.0000	0.000	137.3	0.019	BB	0.045	50.94	0.011
4	2.666		0.0000	0.000	331.5	0.045	BB	0.064	86.53	0.019
5	2.894	HCB	0.0383	0.036	786.2	0.107	BB	0.109	120.36	0.026
6	3.063		0.0000	0.000	45.2	0.006	BB	0.019	38.67	0.008
7	3.214		0.0000	0.000	3265.2	0.445	BB	0.023	2337.51	0.513
8	3.347		0.0000	0.000	249.6	0.034	BB	0.032	129.05	0.028
9	3.451		0.0000	0.000	243.8	0.033	BB	0.027	152.52	0.033
10	3.514		0.0000	0.000	2330.2	0.318	BV	0.026	1465.72	0.322
11	3.573	delta-BHC	0.0433	0.041	262.3	0.036	VV	0.023	187.50	0.041
12	3.605	Heptachlor	0.0577	0.054	499.6	0.068	VV	0.039	212.48	0.047
13	3.694	Alachlor	0.0000	0.000	1495.4	0.204	VV	0.046	545.62	0.120
14	3.717		0.0000	0.000	930.3	0.127	VV	0.027	577.62	0.127
15	3.776		0.0000	0.000	2629.6	0.358	VV	0.029	1527.44	0.335
16	3.854		0.0000	0.000	581.6	0.079	VB	0.029	339.35	0.075
17	3.952		0.0000	0.000	981.2	0.134	BV	0.028	592.40	0.130
18	3.990		0.0000	0.000	1974.9	0.269	VV	0.025	1304.85	0.287
19	4.039	Telodrin	0.1339	0.126	841.7	0.115	VB	0.041	339.55	0.075
20	4.104		0.0000	0.000	903.7	0.123	BV	0.024	630.12	0.138
21	4.137		0.0000	0.000	414.2	0.056	VV	0.021	332.13	0.073
22	4.198		0.0000	0.000	2014.9	0.275	VV	0.039	858.53	0.189
23	4.274		0.0000	0.000	8457.9	1.153	VV	0.033	4274.60	0.939
24	4.346		0.0000	0.000	3514.5	0.479	VB	0.031	1895.62	0.416
25	4.392	Hept. epoxide	0.3622	0.341	1067.9	0.146	BV	0.017	1030.60	0.226
26	4.424		0.0000	0.000	7639.6	1.041	VV	0.022	5735.51	1.259
27	4.476		0.0000	0.000	2430.4	0.331	VV	0.032	1270.72	0.279
28	4.543	o,p-DDE	0.5385	0.508	1742.9	0.237	VV	0.028	1055.21	0.232
29	4.574		0.0000	0.000	668.8	0.091	VV	0.017	639.54	0.140
30	4.610		0.0000	0.000	12223.6	1.666	VB	0.039	5275.16	1.158
31	4.698		0.0000	0.000	2500.1	0.341	BV	0.030	1375.43	0.302
32	4.753		0.0000	0.000	2925.4	0.399	VB	0.035	1401.44	0.308
33	4.807	4,4'-DDE	0.6201	0.585	3684.6	0.502	BB	0.034	1795.02	0.394
34	4.874		0.0000	0.000	1013.9	0.138	BB	0.017	993.40	0.218
35	4.917	Dieldrin	3.6430	3.435	16691.6	2.275	BB	0.024	11474.98	2.520
36	4.959	o,p-DDD	0.2175	0.205	276.7	0.038	BB	0.012	369.73	0.081
37	5.004		0.0000	0.000	12936.5	1.763	BV	0.023	9249.41	2.031
38	5.050		0.0000	0.000	12017.0	1.638	VV	0.022	8902.49	1.955
39	5.118		0.0000	0.000	37668.0	5.133	VV	0.033	18859.58	4.141
40	5.165	Endrin	1.5782	1.488	5032.9	0.686	VV	0.021	4045.66	0.888
41	5.196	o,p-DDT	2.0722	1.954	4823.6	0.657	VV	0.022	3730.79	0.819
42	5.231	4,4'-DDD	2.0128	1.898	8389.1	1.143	VV	0.031	4493.97	0.987
43	5.279		0.0000	0.000	13042.6	1.777	VV	0.024	9244.38	2.030
44	5.307	Endosulfan II	4.5034	4.246	11228.9	1.530	VB	0.019	10060.26	2.209
45	5.346		0.0000	0.000	6655.3	0.907	BV	0.018	6197.12	1.361
46	5.376		0.0000	0.000	49868.8	6.796	VB	0.021	39623.91	8.701
47	5.430		0.0000	0.000	20190.2	2.751	BB	0.021	15876.15	3.486
48	5.511		0.0000	0.000	18576.1	2.531	BV	0.023	13668.40	3.001
49	5.561	Endrin aldehyde	22.4976	21.211	56844.1	7.746	VV	0.024	39439.39	8.660
50	5.620		0.0000	0.000	45794.0	6.240	VV	0.037	20737.03	4.553
51	5.661		0.0000	0.000	11883.2	1.619	VV	0.028	7082.87	1.555
52	5.714		0.0000	0.000	23605.2	3.217	VV	0.033	11902.87	2.614
53	5.743	Endo. sulfate	10.8788	10.257	24283.8	3.309	VV	0.022	18822.94	4.133
54	5.806		0.0000	0.000	35498.8	4.837	VV	0.037	15817.20	3.473
55	5.830		0.0000	0.000	18858.5	2.570	VV	0.027	11769.00	2.584
56	5.884		0.0000	0.000	16211.9	2.209	VV	0.025	10827.24	2.377
57	5.915		0.0000	0.000	41520.5	5.658	VV	0.025	27235.25	5.980
58	5.954	Methoxychlor	44.6636	42.109	73443.9	10.008	VV	0.039	31604.68	6.940
59	6.047		0.0000	0.000	11215.9	1.528	VV	0.025	7490.75	1.645
60	6.082	Mirex	9.3189	8.786	16566.1	2.257	VV	0.024	11333.46	2.489
61	6.105	Endrin ketone	2.8066	2.646	6334.9	0.863	VV	0.019	5551.84	1.219
62	6.150		0.0000	0.000	13073.3	1.782	VV	0.026	8241.06	1.810
63	6.179		0.0000	0.000	13963.0	1.903	VV	0.022	10728.08	2.356
64	6.227		0.0000	0.000	2271.4	0.310	VB	0.023	1630.25	0.358

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.263		0.0000	0.000	2801.6	0.382	BB	0.015	3118.46	0.685
67	6.333		0.0000	0.000	1108.0	0.151	BB	0.012	1529.26	0.336
68	6.371		0.0000	0.000	2979.7	0.406	BV	0.017	2971.97	0.653
69	6.385		0.0000	0.000	3853.6	0.525	VB	0.018	3478.40	0.764
70	6.430		0.0000	0.000	4148.4	0.565	BB	0.025	2806.47	0.616
71	6.482		0.0000	0.000	953.6	0.130	BB	0.015	1025.49	0.225
72	6.526		0.0000	0.000	196.6	0.027	BB	0.021	153.55	0.034
73	6.543		0.0000	0.000	147.0	0.020	BB	0.013	191.64	0.042
74	6.585		0.0000	0.000	710.3	0.097	BB	0.016	718.20	0.158
75	6.606		0.0000	0.000	355.7	0.048	BB	0.011	540.79	0.119
76	6.732		0.0000	0.000	239.2	0.033	BB	0.026	155.12	0.034
77	6.797		0.0000	0.000	792.9	0.108	BB	0.027	491.77	0.108
78	6.871		0.0000	0.000	309.2	0.042	BB	0.022	235.11	0.052
79	6.897	DCB	0.0796	0.075	48.7	0.007	BB	0.010	79.00	0.017
80	6.926		0.0000	0.000	232.2	0.032	BB	0.020	197.97	0.043
81	7.002		0.0000	0.000	14617.1	1.992	BB	0.107	2274.52	0.499
82	7.355		0.0000	0.000	487.8	0.066	BB	0.037	219.17	0.048

Total Area = 733834.1, Total Amount = 106.066, Total Height = 455415.0, Sample Units = PPB

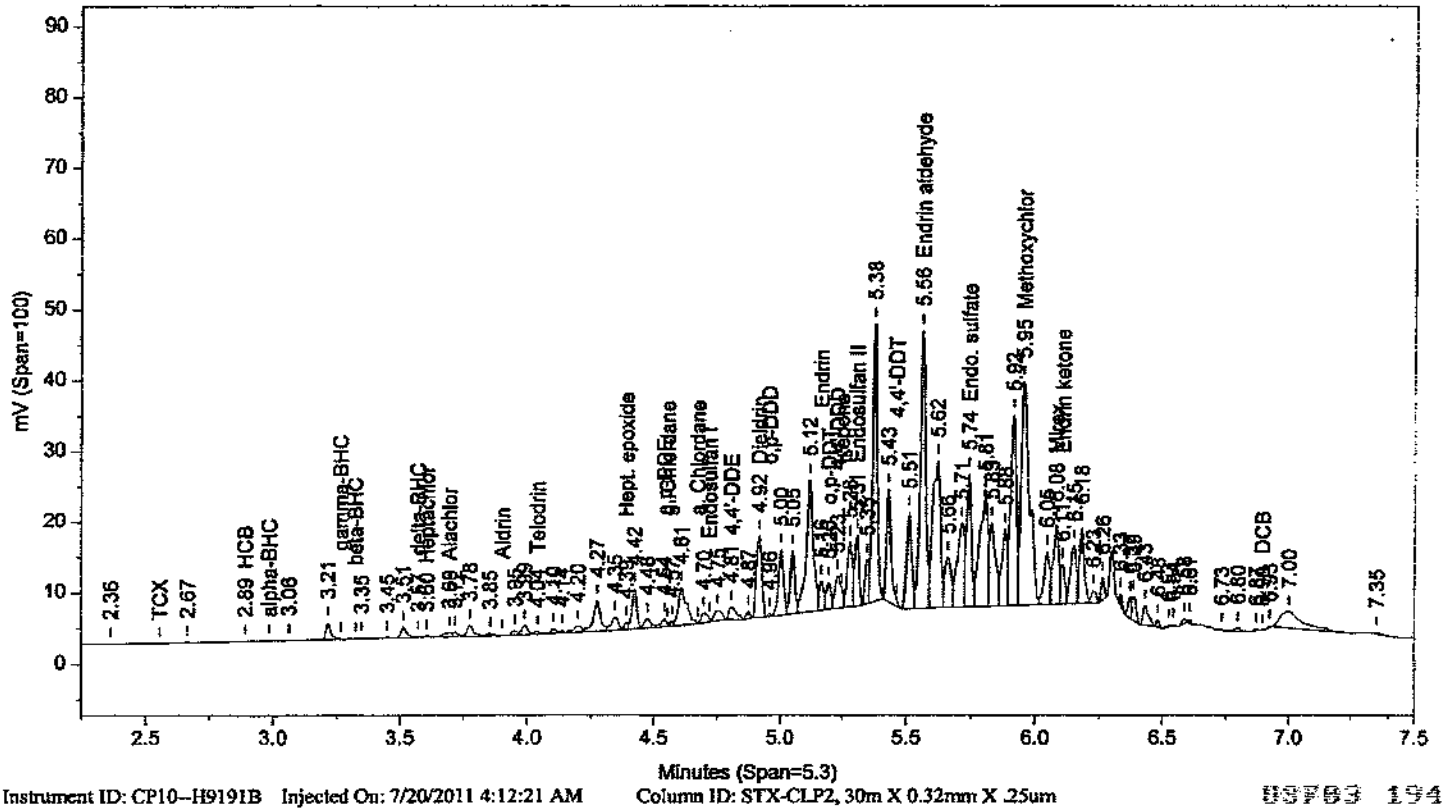
LANCASTER LABORATORIES

—— C:\CPWIN\DATA1\1P10200.65R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 4:12:21 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

—— C:\CPWIN\DATA1\1P10200B.65R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 4:12:21 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

09783 1940

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

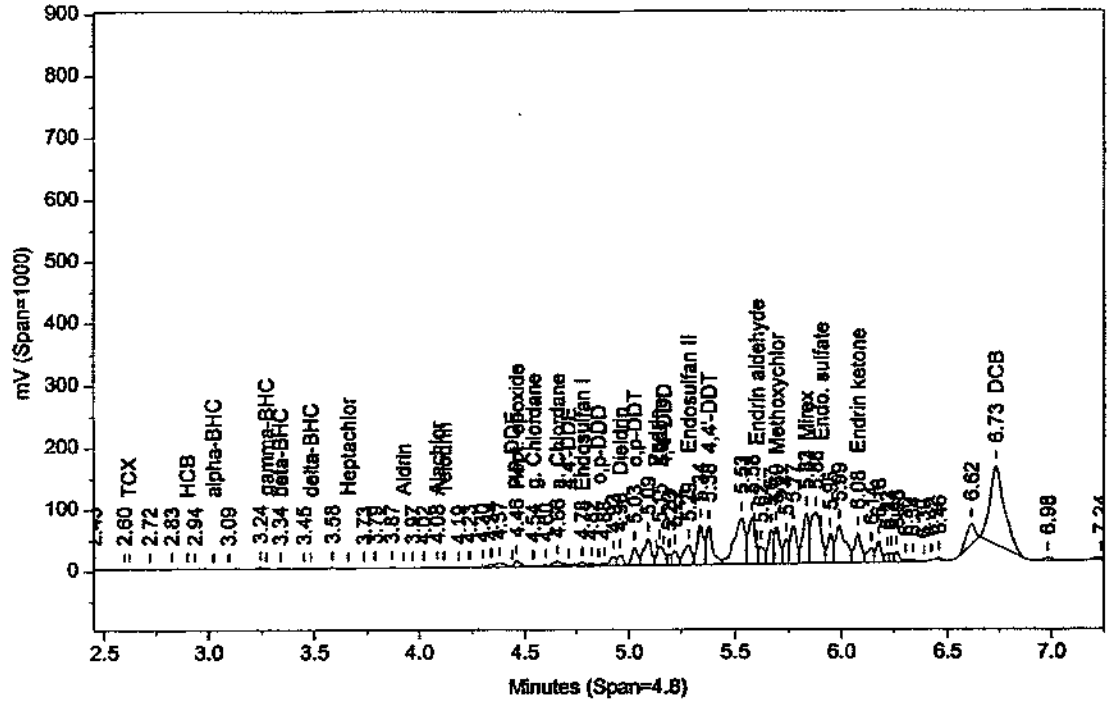
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
.	0	.	HCB	2.894	120	.038	HCB
3.338	604	.167	beta-BHC	.	0	.	beta-BHC
.	0	.	delta-BHC	3.573	188	.043	delta-BHC
.	0	.	Heptachlor	3.605	212	.058	Heptachlor
4.085	1903	.	Alachlor	3.694	546	.	Alachlor
.	0	.	Telodrin	4.039	340	.134	Telodrin
4.459	9795	1.565	Hept. epoxide	4.392	1031	.362	Hept. epoxide
4.542	1428	.22	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.543	1055	.538	o,p-DDE
4.657	8517	1.373	a. Chlordane	.	0	.	a. Chlordane
4.775	5543	.961	Endosulfan I	.	0	.	Endosulfan I
.	0	.	4,4'-DDE	4.807	1795	.62	4,4'-DDE
4.958	17375	2.768	Dieldrin	4.917	11475	3.643	Dieldrin
.	0	.	o,p-DDD	4.959	370	.217	o,p-DDD
5.026	29243	8.374	o,p-DDT	5.196	3731	2.072	o,p-DDT
5.151	30848	20.726	Kepone	.	0	.	Kepone
.	0	.	Endrin	5.165	4046	1.578	Endrin
.	0	.	4,4'-DDD	5.231	4494	2.013	4,4'-DDD
5.286	31964	8.428	Endosulfan II	5.307	10060	4.503	Endosulfan II
5.379	62158	14.794	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.561	39439	22.498	Endrin aldehyde
5.693	59870	28.849	Methoxychlor	5.954	31605	44.664	Methoxychlor
.	0	.	Endo. sulfate	5.743	18823	10.879	Endo. sulfate
5.833	81751	22.791	Mirex	6.082	11333	9.319	Mirex
6.078	48322	8.855	Endrin ketone	6.105	5552	2.807	Endrin ketone
6.733	126726	32.984	DCB	6.897	79	.08	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.65A
Area File: C:\CPWIN\DATA1\1P10200B.65A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 4:19:58 AM
File Reported On: 7/20/2011 at 4:20:12 AM

USF03 1949

10X REPLOTS

C:\CPWIN\DATA1\1P10200.65R



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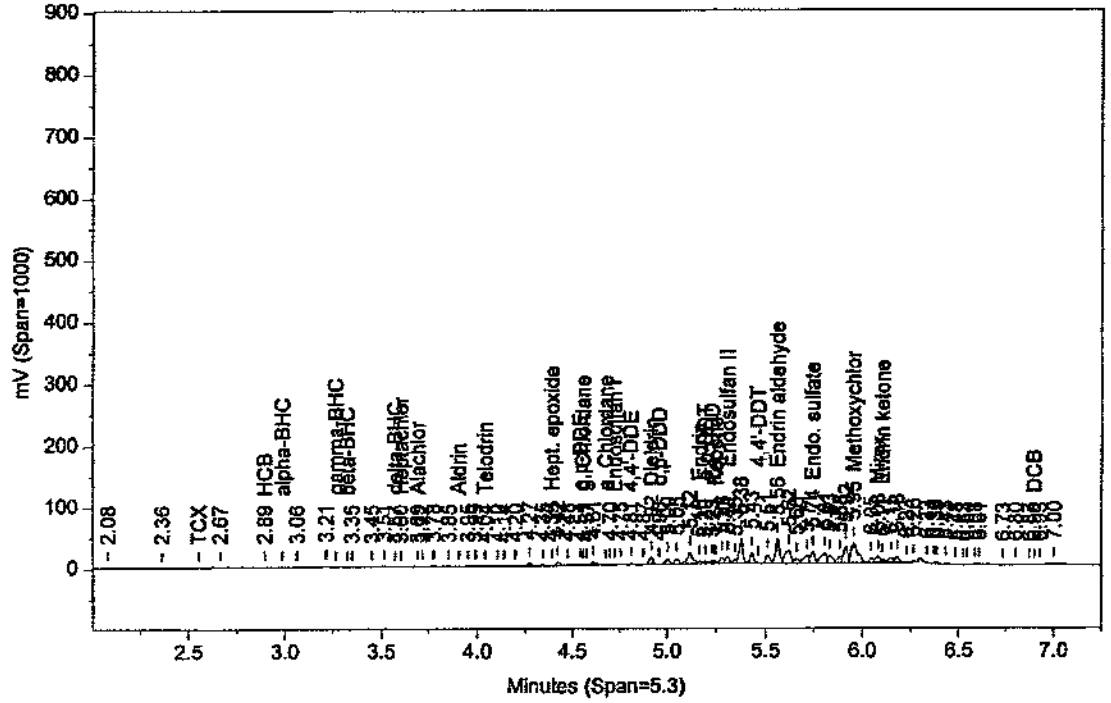


USF63 1958

Sample Name: **CHLD31124A HECHLD3HE CCAL 1119899999**
Acquired from CP10--H9191A via port 1 on 7/20/11 04:35:28am by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.66R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.808		0.0000	0.000	522.0	0.025	BV	0.028	314.59	0.033
2	1.844		0.0000	0.000	4354.0	0.208	VV	0.043	1673.33	0.178
3	1.933		0.0000	0.000	1455.4	0.070	VV	0.034	719.28	0.076
4	2.010		0.0000	0.000	5982.5	0.286	VB	0.052	1916.19	0.203
5	2.116		0.0000	0.000	2500.6	0.120	BV	0.048	873.74	0.093
6	2.231		0.0000	0.000	890.0	0.043	VV	0.065	228.56	0.024
7	2.259		0.0000	0.000	3158.1	0.151	VB	0.023	2271.72	0.241
8	2.319		0.0000	0.000	67.6	0.003	BB	0.011	101.38	0.011
9	2.429		0.0000	0.000	49.7	0.002	BB	0.020	42.11	0.004
10	2.489		0.0000	0.000	700.9	0.034	BB	0.029	397.58	0.042
11	2.576		0.0000	0.000	4509.7	0.216	BB	0.016	4673.27	0.496
12	2.618 TCX		38.0033	33.399	384434.3	18.405	BB	0.026	242594.60	25.742
13	2.820		0.0000	0.000	680.8	0.033	BB	0.033	349.02	0.037
14	2.897 HCB		0.4391	0.386	6271.7	0.300	BV	0.034	3079.19	0.327
15	2.991		0.0000	0.000	361.9	0.017	VV	0.029	209.81	0.022
16	3.065		0.0000	0.000	5036.2	0.241	VV	0.030	2805.66	0.298
17	3.141		0.0000	0.000	3344.0	0.160	VV	0.032	1749.13	0.186
18	3.210		0.0000	0.000	1864.3	0.089	VV	0.026	1183.23	0.126
19	3.242		0.0000	0.000	4197.5	0.201	VV	0.035	1983.81	0.211
20	3.314 beta-BHC		0.2334	0.205	1355.9	0.065	VV	0.027	846.23	0.090
21	3.357		0.0000	0.000	1784.9	0.085	VV	0.032	916.80	0.097
22	3.396		0.0000	0.000	1204.6	0.058	VV	0.025	791.75	0.084
23	3.442		0.0000	0.000	3335.7	0.160	VV	0.030	1831.95	0.194
24	3.480 delta-BHC		0.1480	0.130	1981.3	0.095	VV	0.031	1070.63	0.114
25	3.522		0.0000	0.000	4684.7	0.224	VV	0.033	2400.37	0.255
26	3.592		0.0000	0.000	41229.2	1.974	VV	0.029	23323.40	2.475
27	3.660 Heptachlor		4.4053	3.871	53705.7	2.571	VV	0.030	29981.09	3.181
28	3.756		0.0000	0.000	18846.2	0.902	VV	0.056	5614.36	0.596
29	3.846		0.0000	0.000	3207.3	0.154	VV	0.036	1498.79	0.159
30	3.895		0.0000	0.000	1337.2	0.064	VV	0.033	685.39	0.073
31	3.962		0.0000	0.000	2782.1	0.133	VV	0.043	1070.73	0.114
32	3.994		0.0000	0.000	3857.5	0.185	VV	0.031	2092.59	0.222
33	4.041		0.0000	0.000	45696.2	2.188	VV	0.035	22002.38	2.335
34	4.187		0.0000	0.000	19318.1	0.925	VV	0.090	3570.03	0.379
35	4.259		0.0000	0.000	8430.1	0.404	VV	0.033	4313.35	0.458
36	4.310		0.0000	0.000	15068.1	0.721	VV	0.046	5477.47	0.581
37	4.394		0.0000	0.000	24110.0	1.154	VV	0.030	13420.32	1.424
38	4.451 Hept. epoxide		0.9309	0.818	11107.9	0.532	VV	0.032	5826.91	0.618
39	4.483		0.0000	0.000	19927.4	0.954	VV	0.035	9549.06	1.013
40	4.553 g. Chlordane		10.3591	9.104	132252.5	6.332	VV	0.033	67233.61	7.134
41	4.654 a. Chlordane		11.9459	10.498	176702.8	8.460	VV	0.040	74083.67	7.861
42	4.723 4,4'-DDE		0.4545	0.399	6776.0	0.324	VV	0.043	2637.15	0.280
43	4.784 Endosulfan I		0.4315	0.379	4536.6	0.217	VV	0.030	2488.59	0.264
44	4.824		0.0000	0.000	16529.0	0.791	VV	0.047	5914.86	0.628
45	4.898		0.0000	0.000	15602.9	0.747	VV	0.039	6669.72	0.708
46	4.970 Dieldrin		0.4527	0.398	5950.2	0.285	VV	0.035	2841.79	0.302
47	5.016		0.0000	0.000	10961.3	0.525	VV	0.037	4970.11	0.527
48	5.090		0.0000	0.000	7781.6	0.373	VV	0.053	2463.08	0.261
49	5.152 Kepone		8.8148	7.747	27434.7	1.313	VV	0.035	13119.95	1.392
50	5.214		0.0000	0.000	4486.9	0.215	VV	0.026	2902.52	0.308
51	5.249		0.0000	0.000	30826.7	1.476	VB	0.029	17672.95	1.875
52	5.349		0.0000	0.000	4376.8	0.210	BV	0.052	1397.64	0.148
53	5.425		0.0000	0.000	13323.3	0.638	VV	0.054	4092.35	0.434
54	5.549		0.0000	0.000	6771.3	0.324	VV	0.053	2147.63	0.228
55	5.617 Endrin aldehyde		0.1561	0.137	1005.2	0.048	VV	0.026	638.26	0.068
56	5.654		0.0000	0.000	2196.9	0.105	VV	0.056	651.41	0.069
57	5.743		0.0000	0.000	1962.2	0.094	VV	0.065	501.94	0.053
58	5.798		0.0000	0.000	412.0	0.020	VV	0.023	301.64	0.032
59	5.838 Mirex		0.1249	0.110	821.7	0.039	VV	0.031	448.09	0.048
60	5.901 Endo. sulfate		0.1915	0.168	2258.0	0.108	VV	0.048	787.64	0.084
61	5.936		0.0000	0.000	1960.5	0.094	VV	0.028	1168.93	0.124
62	5.986		0.0000	0.000	1618.2	0.077	VV	0.032	849.10	0.090
63	6.043		0.0000	0.000	1273.8	0.061	VV	0.041	514.68	0.055
64	6.117 Endrin ketone		0.0766	0.067	1597.9	0.077	VV	0.064	418.22	0.044

USF63 1951

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.140		0.0000	0.000	966.7	0.046	VV	0.040	406.60	0.043
66	6.197		0.0000	0.000	1974.0	0.095	VV	0.033	1012.08	0.107
67	6.258		0.0000	0.000	332.8	0.016	VB	0.023	239.42	0.025
68	6.317		0.0000	0.000	5730.9	0.274	BB	0.033	2921.67	0.310
69	6.441		0.0000	0.000	66.0	0.003	BB	0.021	52.23	0.006
70	6.608		0.0000	0.000	20328.1	0.973	BB	0.102	3308.26	0.351
71	6.731 DCB		36.6196	32.182	237947.9	11.392	BB	0.028	140695.10	14.929
72	6.981		0.0000	0.000	2992.5	0.143	BB	0.050	996.85	0.106
73	7.105		0.0000	0.000	72050.3	3.450	BB	0.048	24867.59	2.639
74	7.188		0.0000	0.000	550604.0	26.361	BB	0.063	146419.10	15.537
75	7.356		0.0000	0.000	2951.0	0.141	BB	0.044	1128.21	0.120

Total Area = 2088714.0, Total Amount = 113.787, Total Height = 942412.3, Sample Units = PPB

Sample Name: **CHLD31124A HECHLD3HE CCAL 1119899999**
Acquired from CP10--H9191B via port 2 on 7/20/11 04:35:28am by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.66R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.940		0.0000	0.000	845.3	0.188	BV	0.023	618.68	0.187
2	2.045		0.0000	0.000	217.3	0.048	VV	0.019	186.58	0.056
3	2.078		0.0000	0.000	523.3	0.116	VB	0.016	556.20	0.168
4	2.292		0.0000	0.000	123.4	0.027	BB	0.019	106.68	0.032
5	2.350		0.0000	0.000	144.5	0.032	BB	0.027	90.72	0.027
6	2.457		0.0000	0.000	105.6	0.024	BB	0.040	43.54	0.013
7	2.558	TCX	38.8054	32.193	94419.8	21.010	BB	0.018	89455.45	26.976
8	2.727		0.0000	0.000	191.6	0.043	BB	0.042	76.81	0.023
9	2.816		0.0000	0.000	1932.5	0.430	BB	0.022	1450.89	0.438
10	2.922		0.0000	0.000	199.6	0.044	BV	0.015	215.87	0.065
11	2.954		0.0000	0.000	1297.5	0.289	VV	0.019	1152.36	0.348
12	3.015		0.0000	0.000	892.0	0.198	VV	0.020	752.54	0.227
13	3.128		0.0000	0.000	110.6	0.025	VB	0.024	75.37	0.023
14	3.187		0.0000	0.000	715.3	0.159	BV	0.020	603.12	0.182
15	3.216		0.0000	0.000	2285.5	0.509	VV	0.032	1193.82	0.360
16	3.273	gamma-BHC	0.0451	0.037	232.3	0.052	VV	0.019	205.60	0.062
17	3.293		0.0000	0.000	268.5	0.060	VV	0.021	215.82	0.065
18	3.323	beta-BHC	0.1628	0.135	372.1	0.083	VV	0.020	308.94	0.093
19	3.358		0.0000	0.000	1213.7	0.270	VV	0.022	938.40	0.283
20	3.414		0.0000	0.000	1634.1	0.364	VV	0.034	799.49	0.241
21	3.475		0.0000	0.000	1156.4	0.257	VV	0.016	1188.89	0.359
22	3.502		0.0000	0.000	16394.7	3.648	VV	0.022	12313.47	3.713
23	3.623	Heptachlor	4.1087	3.409	22028.8	4.902	VV	0.024	15123.53	4.561
24	3.713		0.0000	0.000	2926.0	0.651	VV	0.026	1884.25	0.568
25	3.754		0.0000	0.000	2668.0	0.594	VB	0.031	1444.43	0.436
26	3.864		0.0000	0.000	1260.0	0.280	BV	0.033	637.29	0.192
27	3.955		0.0000	0.000	3073.8	0.684	VV	0.025	2048.16	0.618
28	4.035	Telodrin	3.7438	3.106	14420.9	3.209	VV	0.025	9491.47	2.862
29	4.086		0.0000	0.000	1172.6	0.261	VV	0.025	789.73	0.238
30	4.150		0.0000	0.000	2022.3	0.450	VV	0.029	1174.26	0.354
31	4.175		0.0000	0.000	2082.1	0.463	VV	0.026	1317.61	0.397
32	4.211		0.0000	0.000	4512.4	1.004	VV	0.025	2986.78	0.901
33	4.264		0.0000	0.000	2540.1	0.565	VV	0.021	1978.99	0.597
34	4.307		0.0000	0.000	138.8	0.031	VV	0.018	126.33	0.038
35	4.369		0.0000	0.000	5043.4	1.122	VB	0.022	3812.25	1.150
36	4.428		0.0000	0.000	888.1	0.198	BV	0.020	745.87	0.225
37	4.466		0.0000	0.000	8889.0	1.978	VV	0.026	5761.24	1.737
38	4.501		0.0000	0.000	2474.4	0.551	VV	0.025	1666.11	0.502
39	4.557	o,p-DDE	17.5834	14.587	47096.5	10.480	VV	0.023	34456.58	10.391
40	4.632		0.0000	0.000	37026.4	8.239	VV	0.024	25377.35	7.653
41	4.674	a. Chlordane	9.2080	7.639	36827.6	8.195	VB	0.021	28812.45	8.689
42	4.788	4,4'-DDE	0.2999	0.249	1689.1	0.376	BB	0.032	868.15	0.262
43	4.864		0.0000	0.000	3047.6	0.678	BB	0.022	2360.54	0.712
44	4.936	Dieldrin	1.0934	0.907	6887.8	1.533	BV	0.033	3444.01	1.039
45	5.010		0.0000	0.000	2108.8	0.469	VV	0.027	1306.36	0.394
46	5.038		0.0000	0.000	4000.2	0.890	VV	0.034	1935.32	0.584
47	5.073		0.0000	0.000	1920.3	0.427	VB	0.017	1832.67	0.553
48	5.141		0.0000	0.000	7940.5	1.767	BV	0.056	2360.39	0.712
49	5.223	4,4'-DDD	2.8643	2.376	10115.1	2.251	VV	0.026	6395.22	1.929
50	5.283		0.0000	0.000	3006.4	0.669	VV	0.047	1076.21	0.325
51	5.352		0.0000	0.000	9770.0	2.174	VB	0.021	7707.59	2.324
52	5.418		0.0000	0.000	506.4	0.113	BV	0.024	352.55	0.106
53	5.444	4,4'-DDT	0.2391	0.198	893.0	0.199	VV	0.034	438.64	0.132
54	5.523		0.0000	0.000	175.5	0.039	VB	0.022	132.35	0.040
55	5.576	Endrin aldehyde	0.8954	0.743	2470.3	0.550	BV	0.026	1569.71	0.473
56	5.666		0.0000	0.000	761.3	0.169	VB	0.038	329.58	0.099
57	5.764	Endo. sulfate	0.1423	0.118	428.6	0.095	BV	0.029	246.26	0.074
58	5.804		0.0000	0.000	1358.0	0.302	VV	0.062	367.02	0.111
59	5.901		0.0000	0.000	903.3	0.201	VV	0.031	484.66	0.146
60	5.952	Methoxychlor	0.8535	0.708	2347.0	0.522	VV	0.065	603.98	0.182
61	6.015		0.0000	0.000	1587.9	0.353	VV	0.042	637.46	0.192
62	6.067		0.0000	0.000	2364.7	0.526	VV	0.052	764.72	0.231
63	6.118	Endrin ketone	0.2852	0.237	1344.0	0.299	VV	0.040	564.09	0.170
64	6.179		0.0000	0.000	3206.9	0.714	VB	0.043	1238.54	0.373

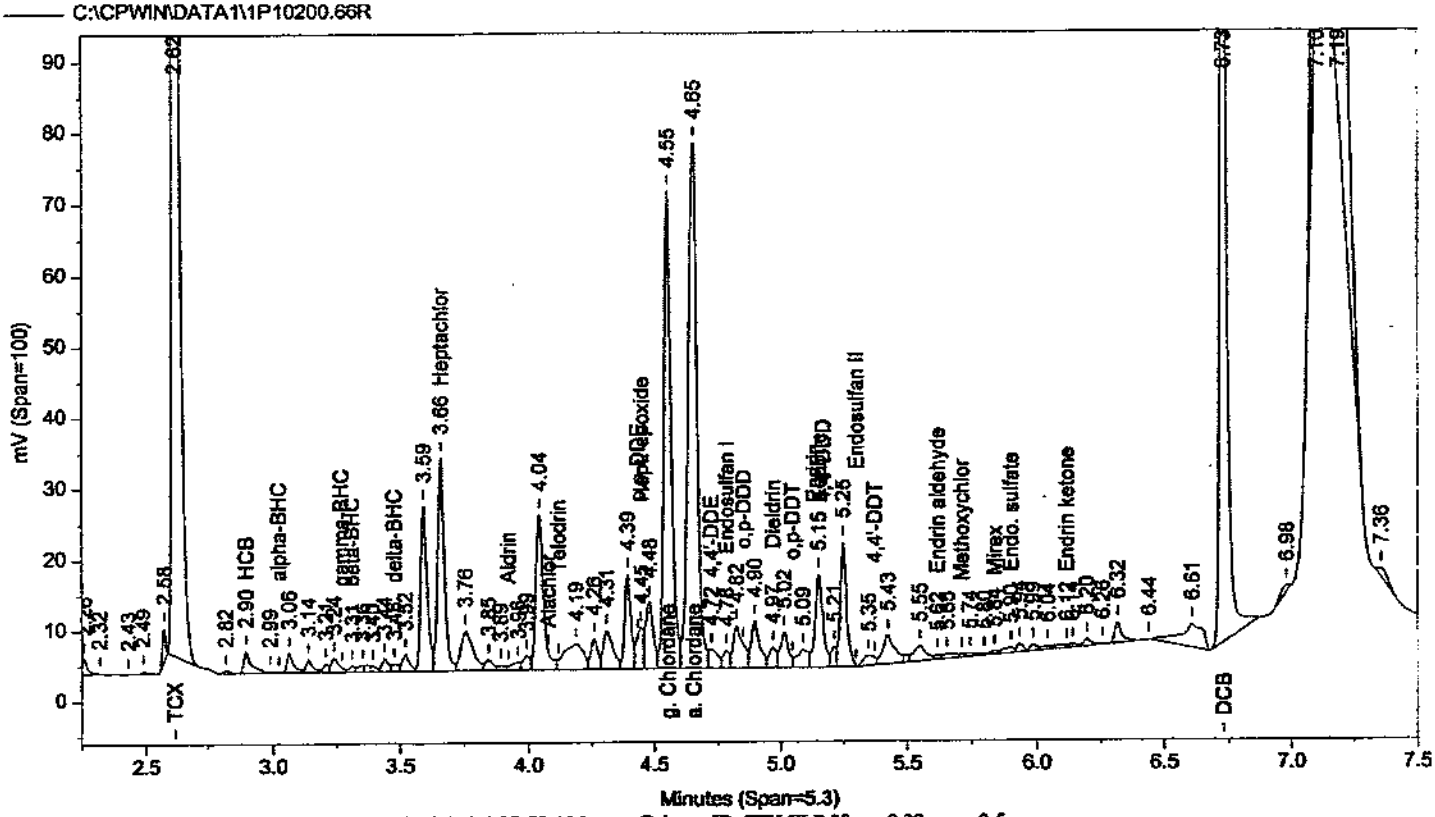
USF83 1953

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.342		0.0000	0.000	488.5	0.109	BB	0.025	320.07	0.097
66	6.634		0.0000	0.000	1534.2	0.341	BB	0.251	102.02	0.031
67	6.690		0.0000	0.000	204.2	0.045	BB	0.044	77.75	0.023
68	6.730		0.0000	0.000	415.0	0.092	BB	0.019	369.44	0.111
69	6.895 DCB		40.2111	33.359	47794.9	10.635	BB	0.020	39901.00	12.033
70	7.060		0.0000	0.000	213.7	0.048	BB	0.190	18.78	0.006
71	7.148		0.0000	0.000	505.2	0.112	BB	0.051	166.04	0.050
72	7.204		0.0000	0.000	7039.0	1.566	BB	0.081	1451.74	0.438

Total Area = 449394.1, Total Amount = 120.542, Total Height = 331606.9, Sample Units = PPB

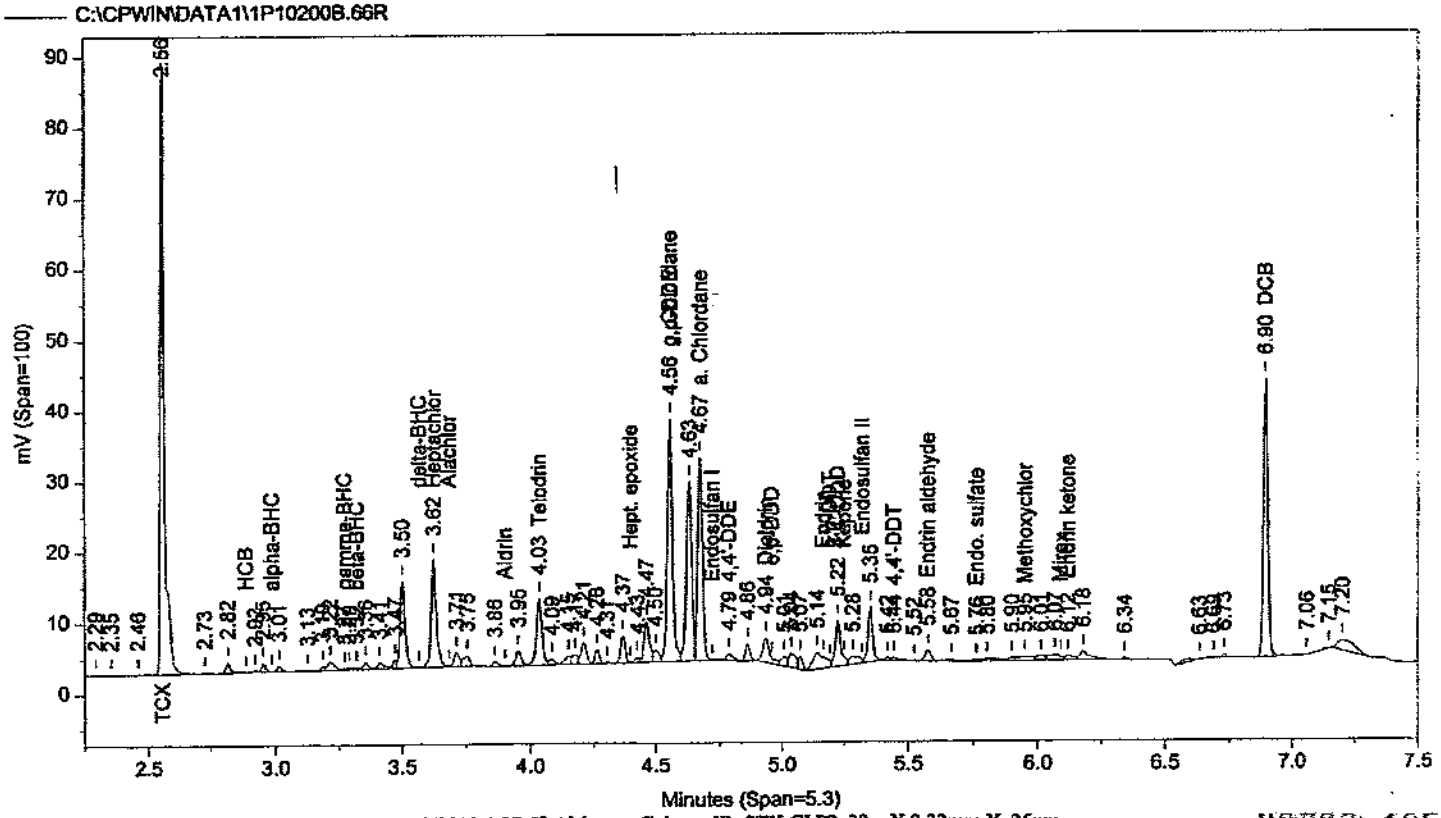
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.66R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 4:27:58 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.66R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 4:27:58 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF83 1955

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

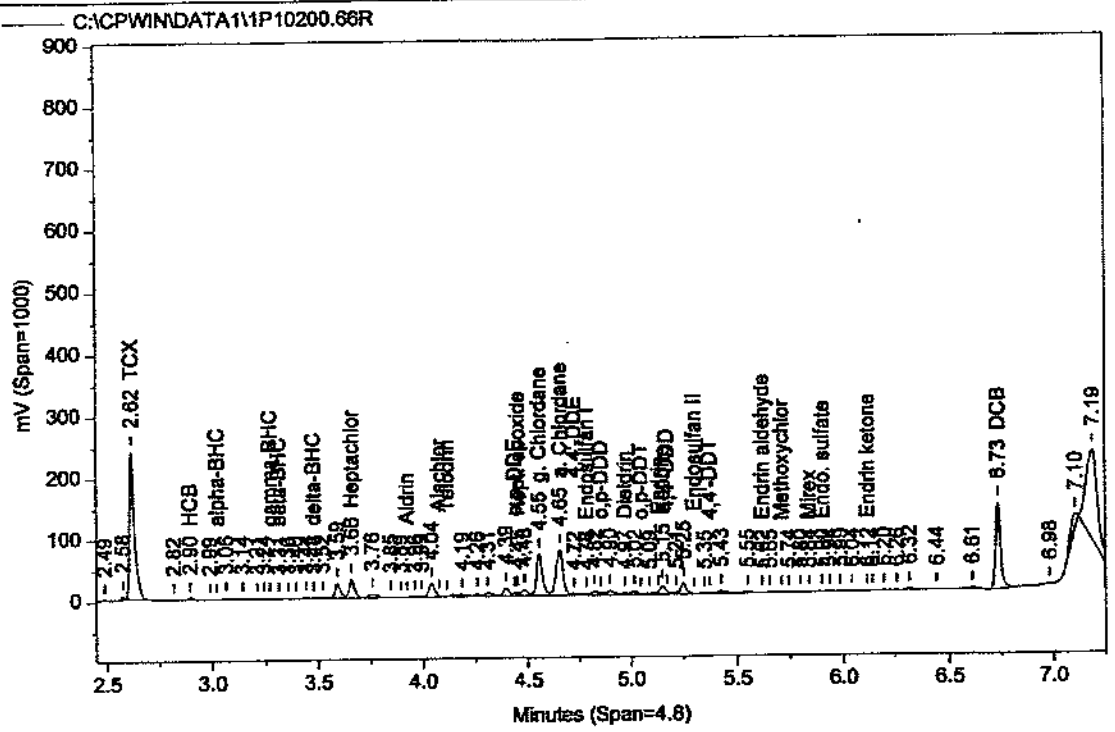
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	242595	38.003	TCX	2.558	89455	38.805	TCX
2.897	3079	.439	HCB	.	0	.	HCB
.	0	.	gamma-BHC	3.273	206	.045	gamma-BHC
3.314	846	.233	beta-BHC	3.323	309	.163	beta-BHC
3.48	1071	.148	delta-BHC	.	0	.	delta-BHC
3.66	29981	4.405	Heptachlor	3.623	15124	4.109	Heptachlor
.	0	.	Telodrin	4.035	9491	3.744	Telodrin
4.451	5827	.931	Hept. epoxide	.	0	.	Hept. epoxide
4.553	67234	10.359	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.557	34457	17.583	o,p-DDE
4.654	74084	11.946	a. Chlordane	4.674	28812	9.208	a. Chlordane
4.723	2637	.454	4,4'-DDE	4.788	868	.3	4,4'-DDE
4.784	2489	.431	Endosulfan I	.	0	.	Endosulfan I
4.97	2842	.453	Dieldrin	4.936	3444	1.093	Dieldrin
5.152	13120	8.815	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.223	6395	2.864	4,4'-DDD
.	0	.	4,4'-DDT	5.444	439	.239	4,4'-DDT
5.617	638	.156	Endrin aldehyde	5.576	1570	.895	Endrin aldehyde
5.901	788	.191	Endo. sulfate	5.764	246	.142	Endo. sulfate
5.838	448	.125	Mirex	.	0	.	Mirex
.	0	.	Methoxychlor	5.952	604	.854	Methoxychlor
6.117	418	.077	Endrin ketone	6.118	564	.285	Endrin ketone
6.731	140695	36.62	DCB	6.895	39901	40.211	DCB

Files:
Area File: C:\CPWIN\DATA1\IP10200.66A
Area File: C:\CPWIN\DATA1\IP10200B.66A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 4:35:36 AM
File Reported On: 7/20/2011 at 4:35:48 AM

10X REPLOTS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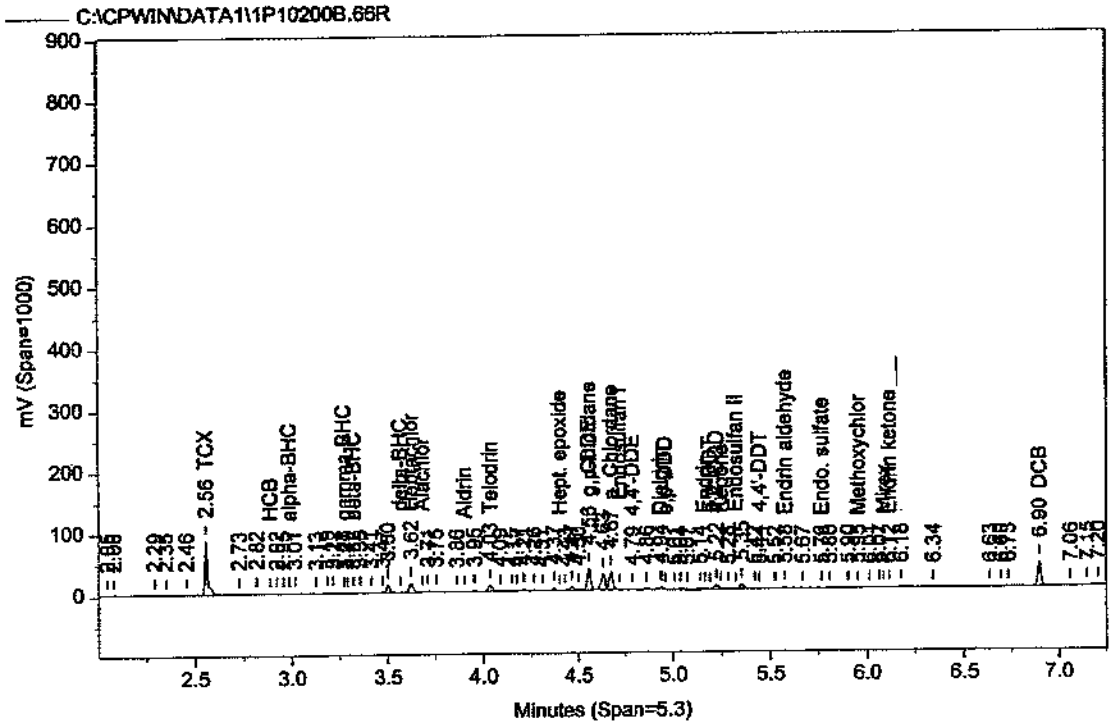
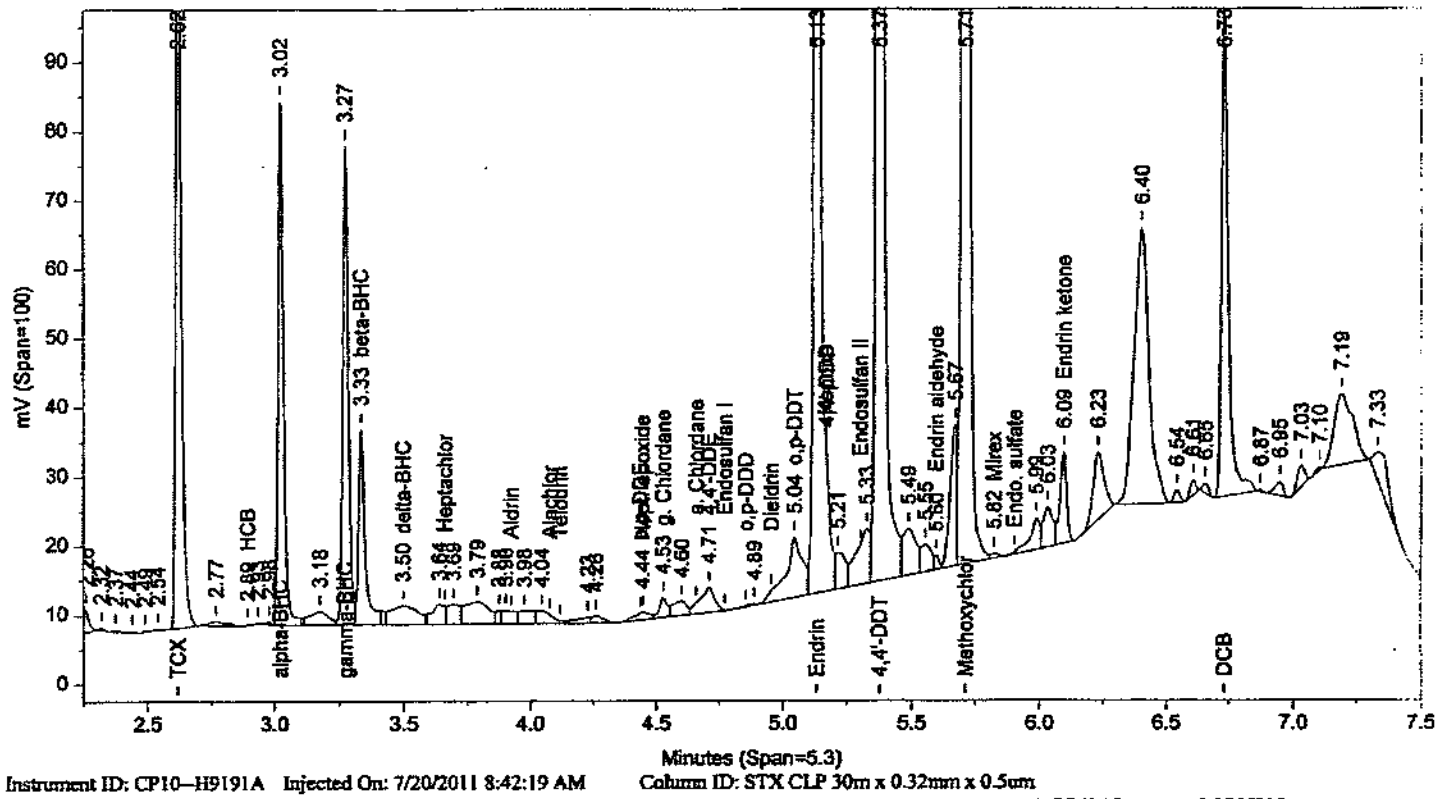
mV (Span=1000)
Minutes (Span=4.8)
2.82 TCX
HCB
alpha-BHC
delta-BHC
Heptachlor
Aldrin
Endosulfan II
4,4'-DDT
Endrin aldehyde
Methoxychlor
Endo. sulfate
Endrin ketone
8.73 DCB
7.10
7.19
6.98
6.61
6.44


C:\CPWIN\DATA1\1P10200B.66R
mV (Span=1000)
Minutes (Span=5.3)
2.56 TCX
HCB
alpha-BHC
delta-BHC
Aldrin
Telodrin
Hept. epoxide
4,4'-DDE
Dieldrin
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
Endrin ketone
6.90 DCB
6.34

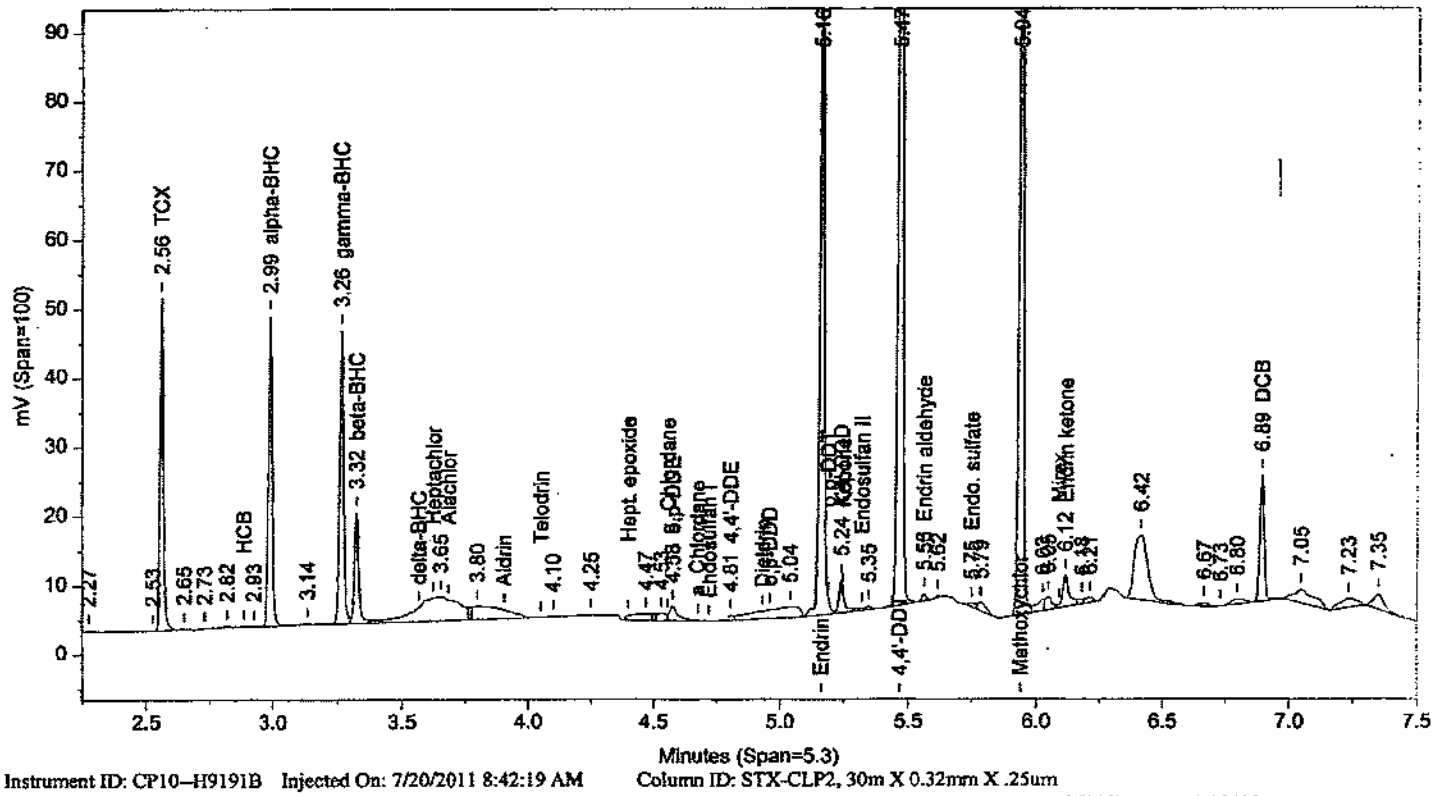
LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P10200.81R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 8:42:19 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

%DDT BD= 0.8755018

File: C:\CPWIN\DATA1\1P10200B.81R %ENDRIN BD= 6.230405



Instrument ID: CP10--H9191B Injected On: 7/20/2011 8:42:19 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

%DDT BD= 3.28423

%ENDRIN BD= 5.395146

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	119372	18.7	TCX	2.559	48461	21.022	TCX
2.894	95	.014	HCB	.	0	.	HCB
3.024	75999	8.937	alpha-BHC	2.99	44819	9.184	alpha-BHC
3.273	69411	9.107	gamma-BHC	3.265	43028	9.438	gamma-BHC
3.334	28238	7.789	beta-BHC	3.325	16216	8.547	beta-BHC
3.498	2731	.378	delta-BHC	.	0	.	delta-BHC
4.445	1087	.174	Hept. epoxide	.	0	.	Hept. epoxide
4.527	2812	.433	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.576	2127	1.085	o,p-DDE
4.708	3671	.633	4,4'-DDE	4.805	753	.26	4,4'-DDE
5.044	8684	2.487	o,p-DDT	.	0	.	o,p-DDT
5.133	229642	44.349	Endrin	5.162	97625	38.082	Endrin
.	0	.	4,4'-DDD	5.241	4741	2.124	4,4'-DDD
5.374	415687	98.936	4,4'-DDT	5.465	161792	88.181	4,4'-DDT
5.597	2017	.493	Endrin aldehyde	5.561	999	.57	Endrin aldehyde
5.712	483449	232.957	Methoxychlor	5.939	136962	193.554	Methoxychlor
.	0	.	Endo. sulfate	5.75	531	.307	Endo. sulfate
5.824	657	.183	Mirex	.	0	.	Mirex
6.094	13241	2.426	Endrin ketone	6.116	4569	2.31	Endrin ketone
6.73	73592	19.154	DCB	6.894	18127	18.268	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.81A
Area File: C:\CPWIN\DATA1\1P10200B.81A
Method A: C:\CPWIN\DATA1\EVALD.MET
Method B: C:\CPWIN\DATA1\EVALDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\EVALD.FMTA
Format B: C:\CPWIN\DATA1\EVALD.FMTB
Area File Created On: 7/20/2011 8:49:56 AM
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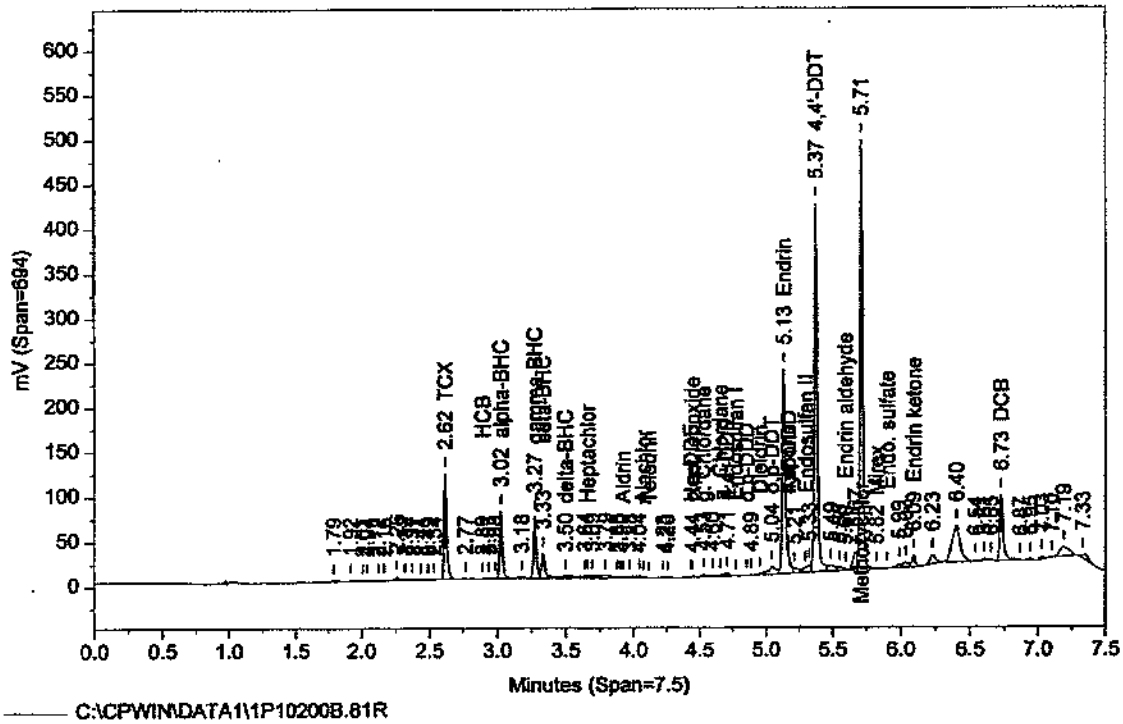
REPLOTS

C:\CPWIN\DATA1\1P10200.81R



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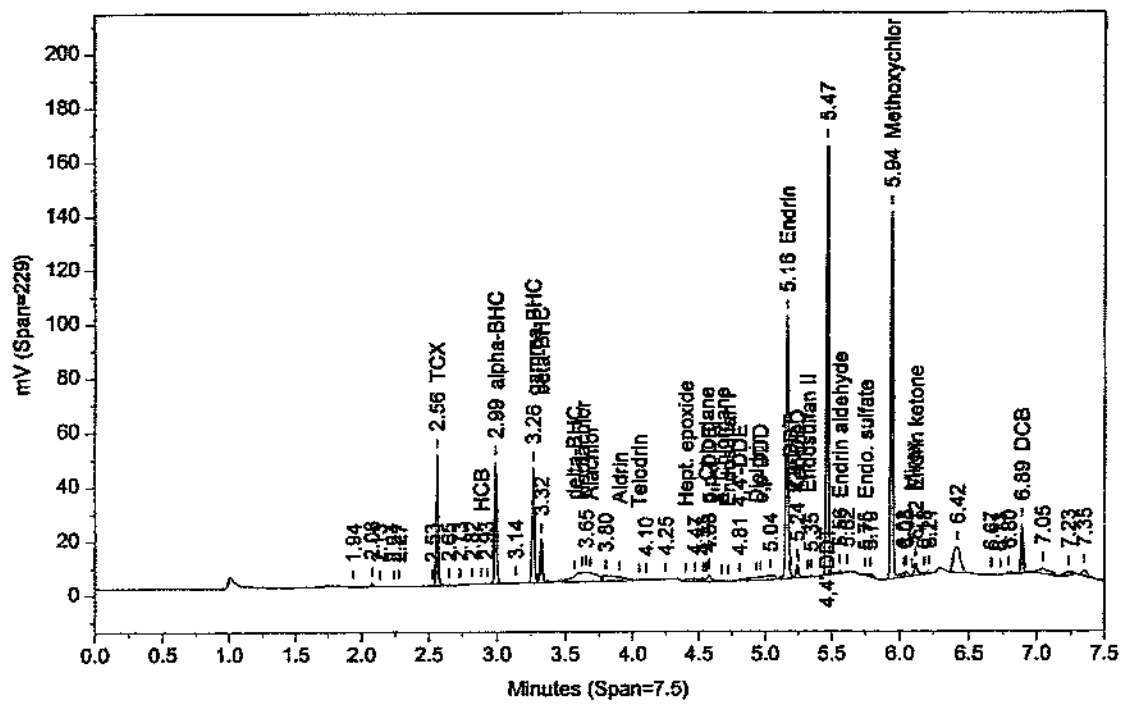
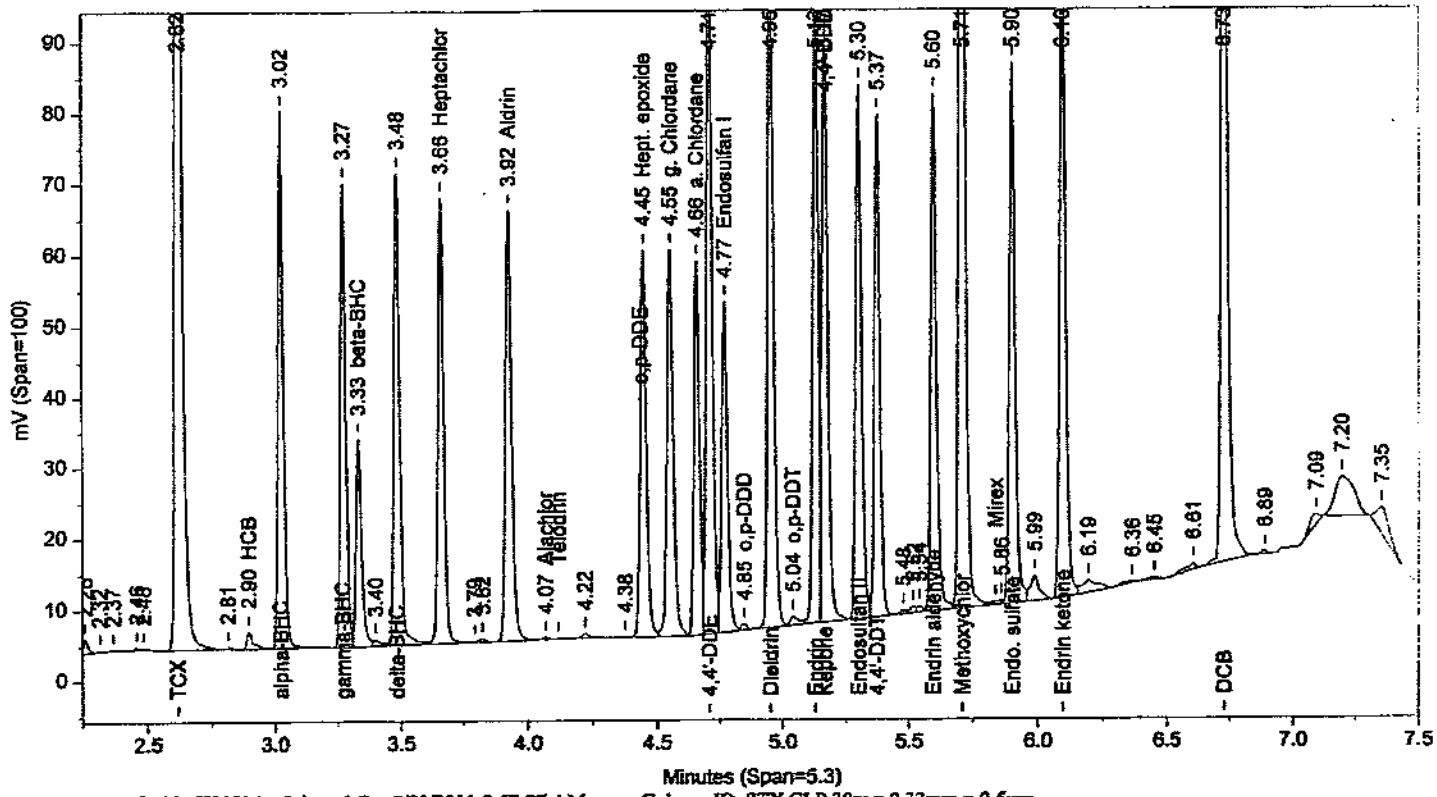


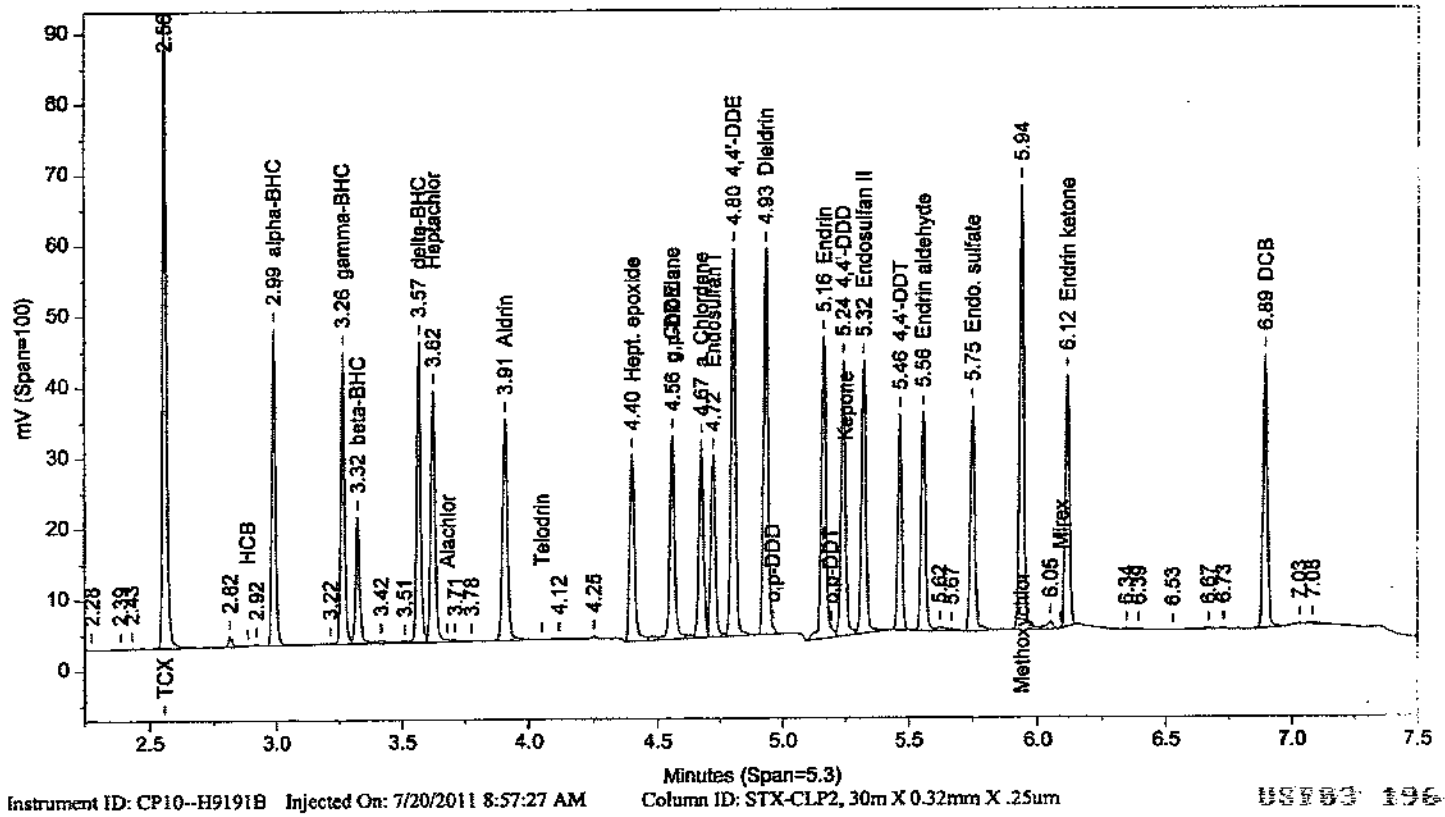
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.82R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 8:57:27 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.82R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 8:57:27 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	229901	36.015	TCX	2.559	92768	40.243	TCX
2.896	2454	.35	HCB	.	0	.	HCB
3.023	75724	8.904	alpha-BHC	2.989	45101	9.242	alpha-BHC
3.271	66006	8.66	gamma-BHC	3.264	41370	9.074	gamma-BHC
3.333	29318	8.087	beta-BHC	3.324	18042	9.509	beta-BHC
3.484	66729	9.227	delta-BHC	3.567	42511	9.815	delta-BHC
3.661	63215	9.288	Heptachlor	3.625	35975	9.774	Heptachlor
3.924	61042	9.03	Aldrin	3.906	31480	9.368	Aldrin
4.069	332	.	Alachlor	.	0	.	Alachlor
4.447	54579	8.719	Hept. epoxide	4.401	26530	9.324	Hept. epoxide
4.551	54906	8.46	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.557	28960	14.778	o,p-DDE
4.657	52841	8.521	a. Chlordane	4.673	27943	8.93	a. Chlordane
4.709	100655	17.347	4,4'-DDE	4.803	54969	18.988	4,4'-DDE
4.769	46859	8.124	Endosulfan I	4.722	26156	9.314	Endosulfan I
4.847	880	.273	o,p-DDD	.	0	.	o,p-DDD
4.953	101649	16.194	Dieldrin	4.932	54814	17.402	Dieldrin
5.042	1260	.361	o,p-DDT	.	0	.	o,p-DDT
5.131	90855	17.546	Endrin	5.162	43140	16.828	Endrin
5.167	85917	57.725	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.239	39104	17.514	4,4'-DDD
5.299	75541	19.918	Endosulfan II	5.319	38813	17.374	Endosulfan II
5.372	71539	17.027	4,4'-DDT	5.464	30743	16.756	4,4'-DDT
5.598	73752	18.038	Endrin aldehyde	5.558	31443	17.936	Endrin aldehyde
5.71	185860	89.56	Methoxychlor	5.938	63721	90.051	Methoxychlor
5.9	76191	18.522	Endo. sulfate	5.75	31911	18.443	Endo. sulfate
6.096	97723	17.907	Endrin ketone	6.116	35839	18.117	Endrin ketone
6.728	141045	36.711	DCB	6.893	38743	39.044	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.82A
Area File: C:\CPWIN\DATA1\1P10200B.82A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
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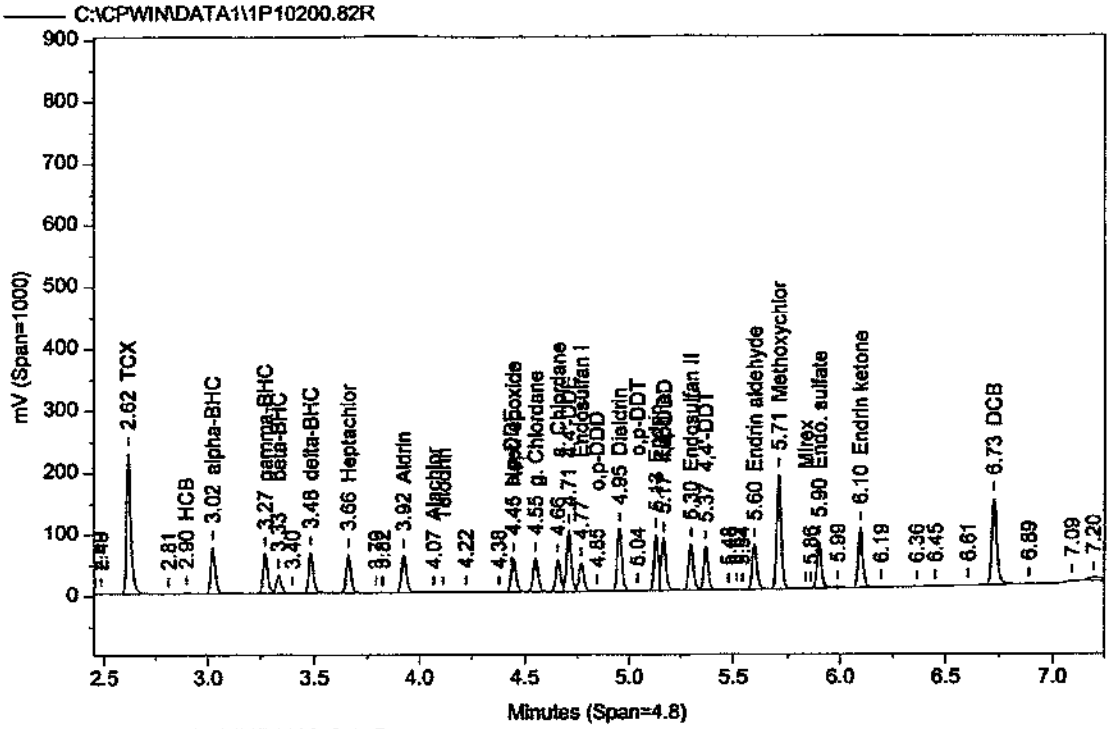
File Reported On: 7/20/2011 at 9:05:15 AM

USFBB 1962

10X REPLOTS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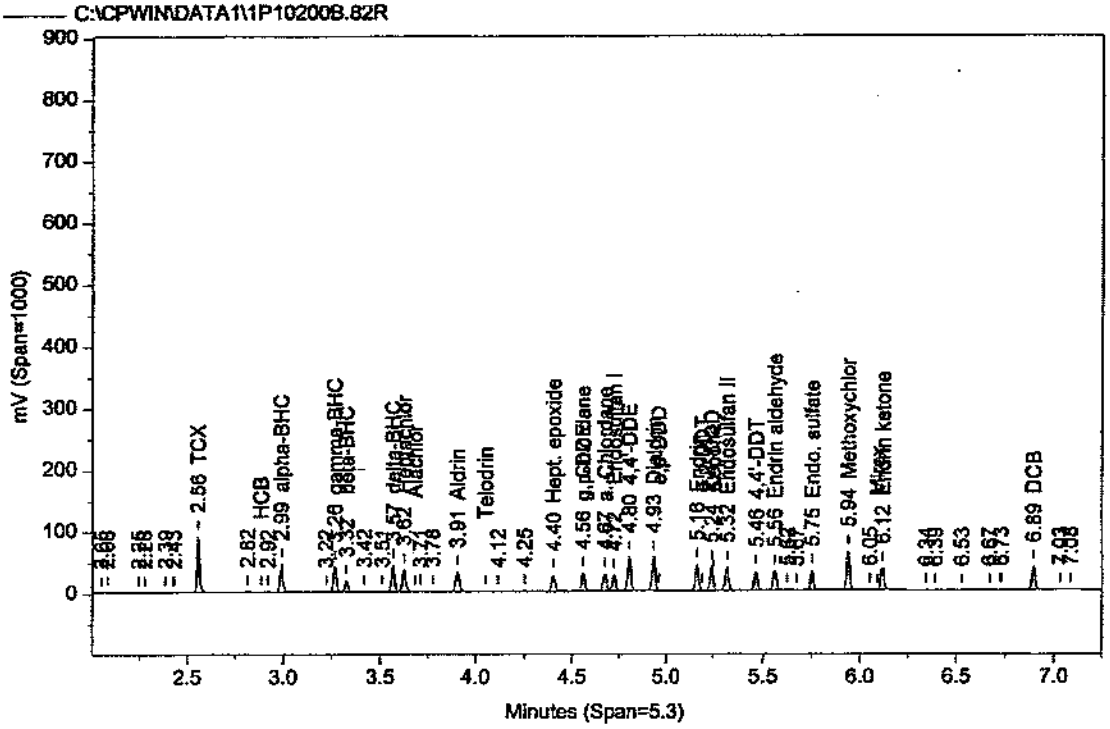
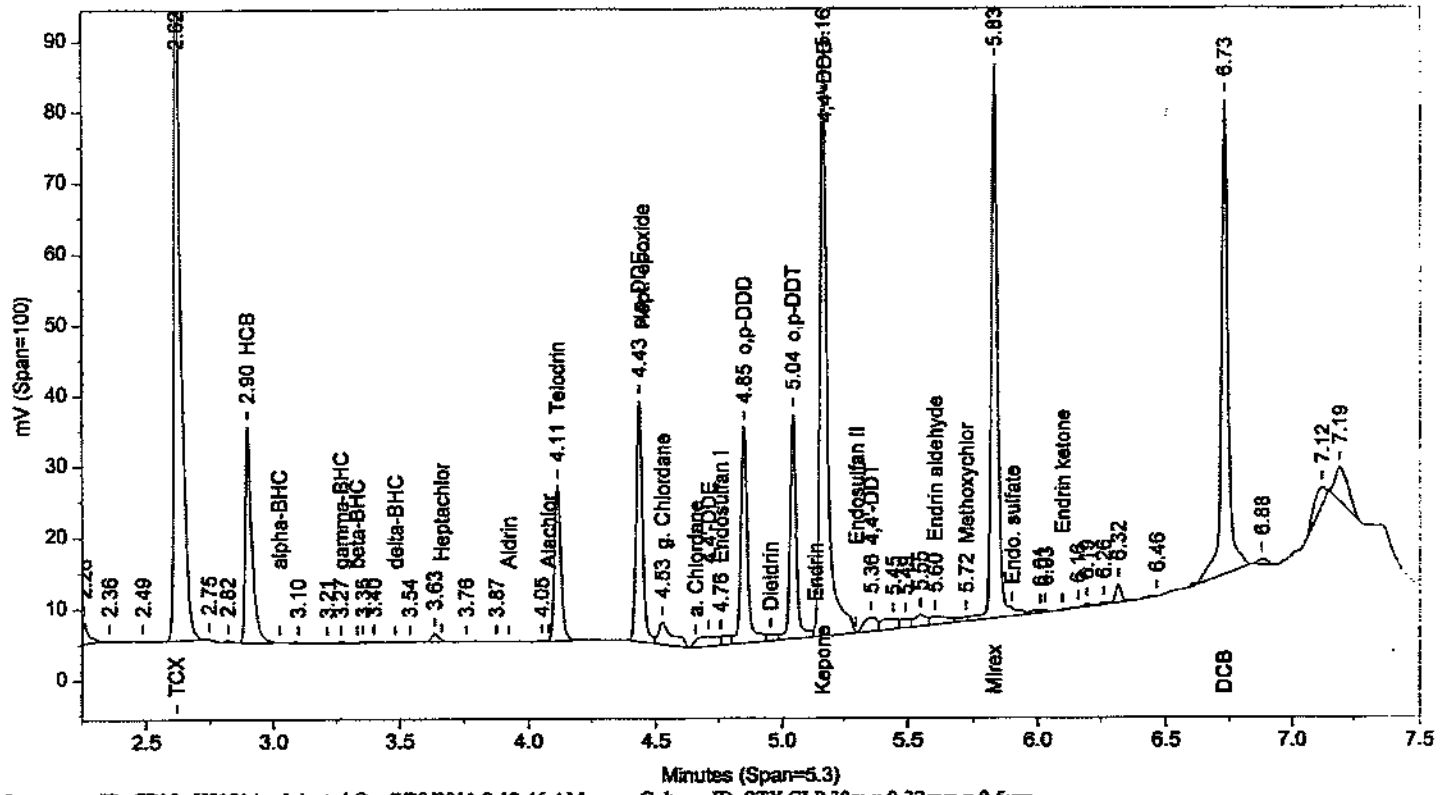
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.81
2.90 HCB
3.02 alpha-BHC
3.27 gamma-BHC
3.40 Beta-BHC
3.48 delta-BHC
3.66 Heptachlor
3.92 Aldrin
4.07
4.22
4.38
4.45
4.55 g. Chlordane
4.66
4.71 a. Chlordane
4.77 Endosulfan I
4.85 o,p-DDD
4.95 Dieldrin
6.04 o,p-DDT
5.30 Endosulfan II
5.37 4,4'-DDT
5.60 Endrin aldehyde
5.71 Methoxychlor
5.86
5.90 Endo. sulfate
5.98
6.10 Endrin ketone
6.19
6.36
6.45
6.61
6.73 DCB
6.89
7.09
7.20


C:\CPWIN\DATA1\1P10200B.82R
mV (Span=1000)
Minutes (Span=5.3)
2.56 TCX
2.82 HCB
2.99 alpha-BHC
3.22
3.26
3.32
3.42
3.54
3.62
3.67
3.78
3.91 Aldrin
4.12 Telodrin
4.25
4.40 Hept. epoxide
4.58
4.80 4,4'-DDE
4.93
5.18
5.32
5.46 4,4'-DDT
5.56 Endrin aldehyde
5.75 Endo. sulfate
5.94 Methoxychlor
6.05
6.12
6.34
6.53
6.67
6.73
6.89 DCB
7.03

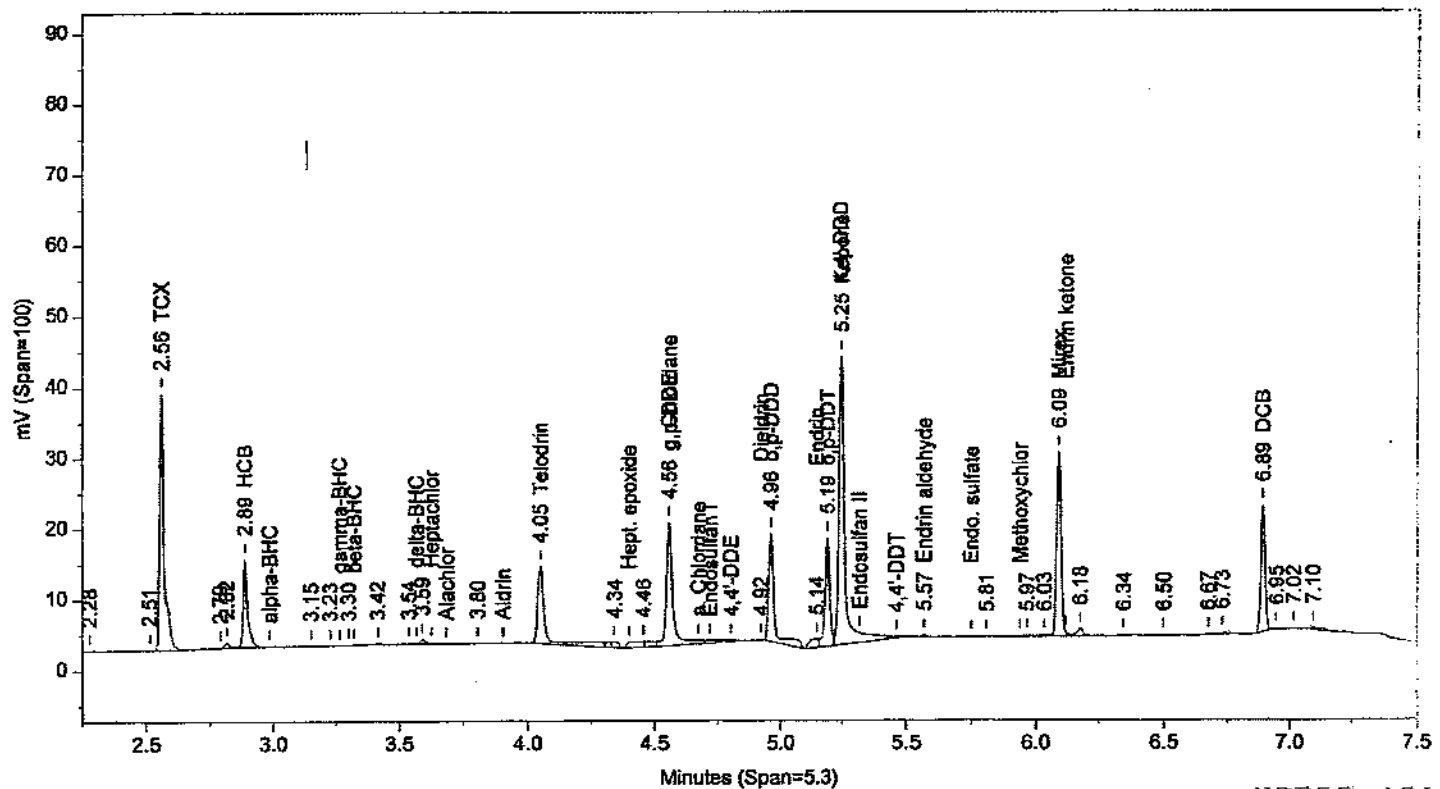
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.83R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 9:12:46 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.83R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 9:12:46 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USTB3 1964

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

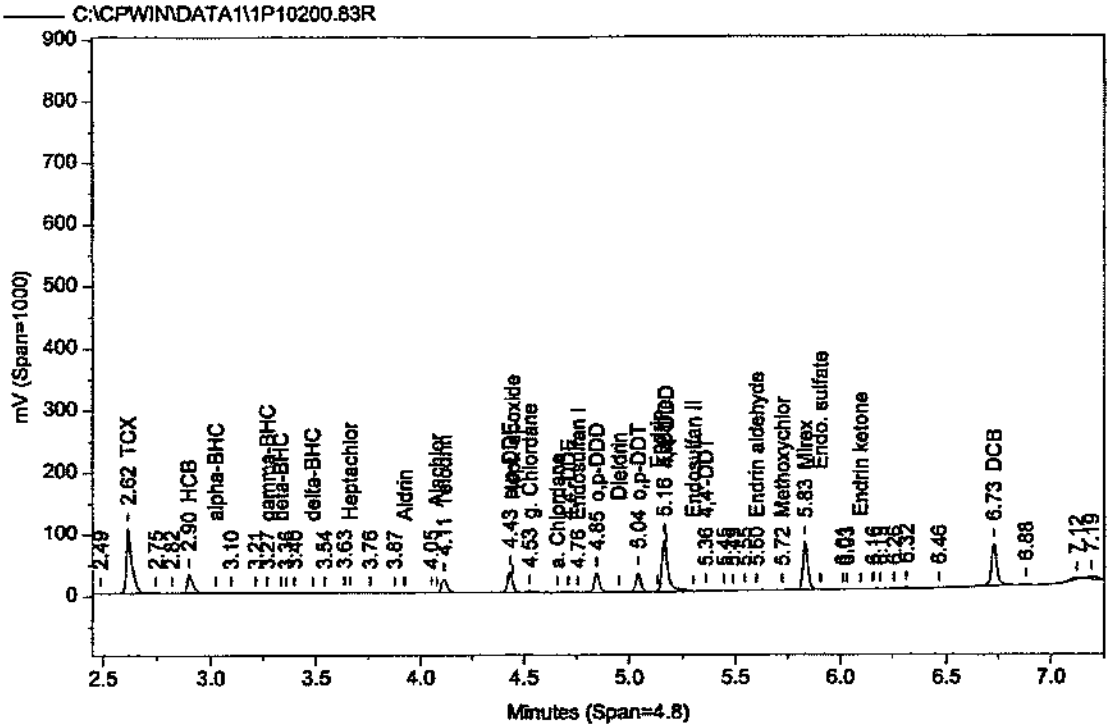
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

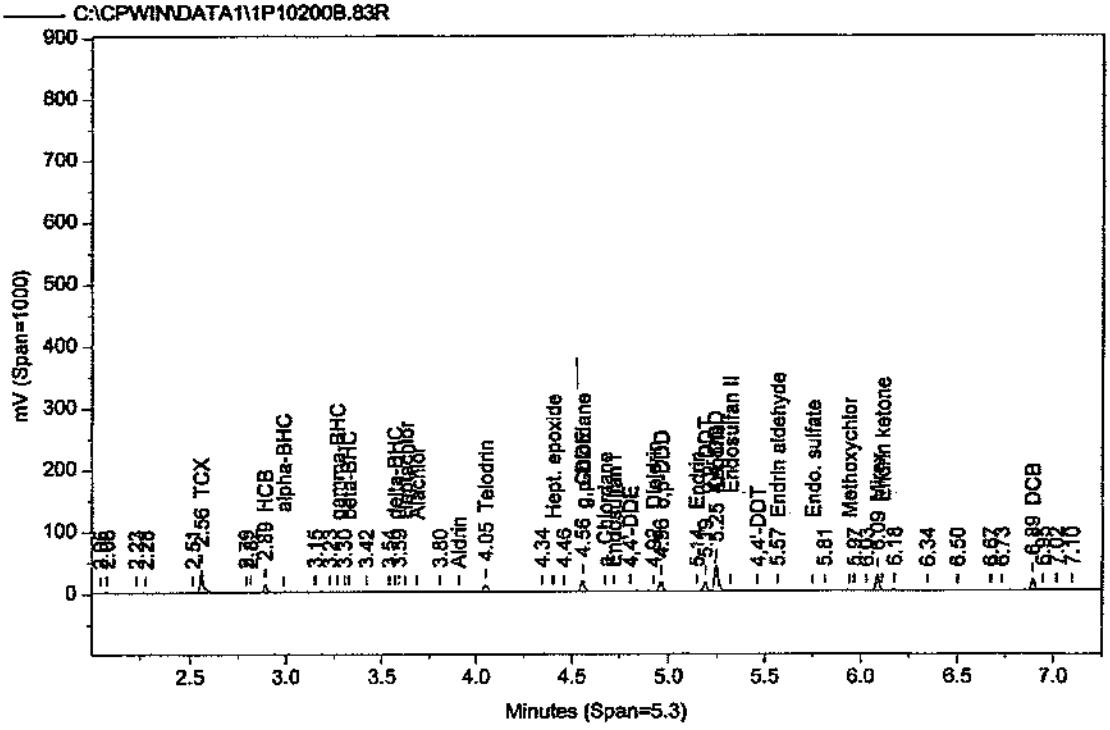
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	105249	16.488	TCX	2.558	37273	16.169	TCX
2.898	30647	4.371	HCB	2.889	12584	4.007	HCB
3.268	228	.03	gamma-BHC	.	0	.	gamma-BHC
4.113	21777	4.336	Telodrin	4.049	10937	4.314	Telodrin
4.434	33874	9.093	o,p-DDE	4.557	17421	8.89	o,p-DDE
4.526	3145	.485	g. Chlordane	.	0	.	g. Chlordane
4.757	1228	.213	Endosulfan I	.	0	.	Endosulfan I
4.848	30694	9.501	o,p-DDD	4.961	15253	8.973	o,p-DDD
.	0	.	Dieldrin	4.923	71	.023	Dieldrin
5.043	31651	9.063	o,p-DDT	5.188	15574	8.65	o,p-DDT
.	0	.	Endrin	5.144	1213	.473	Endrin
5.163	82933	55.72	Kepone	5.245	41157	55.885	Kepone
5.358	1955	.465	4,4'-DDT	.	0	.	4,4'-DDT
5.601	1135	.278	Endrin aldehyde	5.566	314	..179	Endrin aldehyde
5.724	592	.285	Methoxychlor	.	0	.	Methoxychlor
5.832	78305	21.831	Mirex	6.09	26083	21.446	Mirex
6.729	67349	17.529	DCB	6.893	17916	18.055	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.83A
Area File: C:\CPWIN\DATA1\1P10200B.83A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 9:20:24 AM
File Reported On: 7/20/2011 at 9:20:34 AM

10X REPLOTS


C:\CPWIN\DATA1\1P10200.83R
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.90 HCB
3.10 alpha-BHC
3.54 delta-BHC
3.63 Heptachlor
3.76
3.87 Aldrin
4.43
4.53 g. Chlordane
4.85 o,p-DDD
5.04 o,p-DDT
5.16
5.36 4,4'-DDT
5.60 Endrin aldehyde
5.72 Methoxychlor
5.83 Mirex
Endo. sulfate
Endrin ketone
6.73 DCB
6.88
7.12
7.19


C:\CPWIN\DATA1\1P10200B.83R
mV (Span=1000)
Minutes (Span=5.3)
2.56 TCX
HCB
alpha-BHC
3.80 Aldrin
4.05 Telodrin
4.34 Hept. epoxide
4.56
4,4'-DDE
Endosulfan II
4,4'-DDT
5.57 Endrin aldehyde
5.81 Endo. sulfate
Methoxychlor
Endrin ketone
6.34
6.50
6.67
DCB

Sample Name: **TOXA31124C FETOXA3FE CCAL 1119899999**
Acquired from CP10--H9191A via port 1 on 7/20/11 09:35:27am by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.84R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.784		0.0000	0.000	314.0	0.012	BV	0.022	240.45	0.019
2	1.810		0.0000	0.000	1309.1	0.048	VV	0.056	391.03	0.031
3	1.936		0.0000	0.000	285.7	0.010	VV	0.026	182.82	0.015
4	1.981		0.0000	0.000	217.2	0.008	VB	0.029	122.90	0.010
5	2.139		0.0000	0.000	1277.1	0.047	BV	0.070	303.74	0.024
6	2.223		0.0000	0.000	390.1	0.014	VV	0.034	190.83	0.015
7	2.259		0.0000	0.000	2557.5	0.094	VV	0.025	1708.58	0.137
8	2.321		0.0000	0.000	226.3	0.008	VB	0.024	158.27	0.013
9	2.364		0.0000	0.000	102.8	0.004	BB	0.020	86.38	0.007
10	2.430		0.0000	0.000	37.3	0.001	BB	0.018	33.66	0.003
11	2.487		0.0000	0.000	364.4	0.013	BB	0.053	114.04	0.009
12	2.594		0.0000	0.000	889.4	0.033	BB	0.074	199.83	0.016
13	2.720		0.0000	0.000	106.7	0.004	BB	0.026	69.16	0.006
14	2.761		0.0000	0.000	183.4	0.007	BB	0.031	97.52	0.008
15	2.822		0.0000	0.000	1171.0	0.043	BV	0.056	348.86	0.028
16	2.924		0.0000	0.000	1545.1	0.057	VB	0.077	332.36	0.027
17	3.100		0.0000	0.000	2205.7	0.081	BV	0.134	275.30	0.022
18	3.243		0.0000	0.000	6348.6	0.233	VV	0.032	3336.87	0.268
19	3.339	beta-BHC	0.2235	0.186	2038.1	0.075	VV	0.042	810.15	0.065
20	3.438		0.0000	0.000	817.4	0.030	VB	0.056	241.32	0.019
21	3.551		0.0000	0.000	181.2	0.007	BV	0.045	67.39	0.005
22	3.585		0.0000	0.000	6712.1	0.246	VV	0.036	3090.56	0.248
23	3.734		0.0000	0.000	2336.8	0.086	VV	0.043	906.64	0.073
24	3.786		0.0000	0.000	4198.8	0.154	VV	0.046	1506.06	0.121
25	3.867		0.0000	0.000	6094.0	0.224	VV	0.034	3022.22	0.243
26	3.969		0.0000	0.000	960.2	0.035	VB	0.024	679.14	0.054
27	4.021		0.0000	0.000	2864.3	0.105	BV	0.031	1517.95	0.122
28	4.085	Alachlor	0.0000	0.000	5388.0	0.198	VV	0.045	1979.97	0.159
29	4.184		0.0000	0.000	517.5	0.019	VV	0.021	401.93	0.032
30	4.234		0.0000	0.000	4342.9	0.159	VV	0.036	1991.28	0.160
31	4.297		0.0000	0.000	4697.6	0.172	VV	0.028	2800.28	0.225
32	4.336		0.0000	0.000	10753.6	0.395	VV	0.031	5769.01	0.463
33	4.375		0.0000	0.000	22055.2	0.809	VV	0.051	7181.23	0.576
34	4.460	Hept. epoxide	1.8272	1.517	24591.1	0.902	VV	0.036	11437.70	0.918
35	4.542	g. Chlordane	0.3217	0.267	5063.6	0.186	VV	0.040	2087.75	0.168
36	4.600		0.0000	0.000	9000.7	0.330	VV	0.049	3090.57	0.248
37	4.656	a. Chlordane	1.4669	1.218	23286.6	0.854	VV	0.043	9097.17	0.730
38	4.692		0.0000	0.000	8891.9	0.326	VV	0.030	5022.25	0.403
39	4.724	4,4'-DDE	0.5911	0.491	4714.8	0.173	VV	0.023	3430.13	0.275
40	4.775	Endosulfan I	1.1576	0.961	18194.4	0.668	VV	0.045	6676.63	0.536
41	4.819		0.0000	0.000	10760.8	0.395	VV	0.036	5019.59	0.403
42	4.880		0.0000	0.000	13765.4	0.505	VV	0.042	5433.65	0.436
43	4.926		0.0000	0.000	33571.4	1.232	VV	0.033	16877.36	1.354
44	4.958	Dieldrin	2.8930	2.402	31748.4	1.165	VV	0.029	18159.97	1.457
45	5.026	o,p-DDT	8.3713	6.950	60769.2	2.230	VV	0.035	29234.08	2.346
46	5.095		0.0000	0.000	115390.1	4.234	VV	0.045	42938.65	3.446
47	5.151	Kepone	20.8990	17.350	77720.1	2.852	VV	0.042	31106.01	2.496
48	5.196		0.0000	0.000	23535.8	0.864	VV	0.022	17836.19	1.431
49	5.223		0.0000	0.000	42388.1	1.555	VV	0.031	22909.29	1.838
50	5.284	Endosulfan II	7.8346	6.504	79123.3	2.903	VV	0.044	29713.33	2.384
51	5.340		0.0000	0.000	131495.6	4.825	VV	0.035	62440.41	5.010
52	5.379	4,4'-DDT	14.5990	12.120	123478.2	4.530	VV	0.034	61338.28	4.922
53	5.531		0.0000	0.000	263054.3	9.651	VV	0.059	74112.52	5.947
54	5.579		0.0000	0.000	167849.3	6.158	VV	0.037	75358.91	6.047
55	5.620		0.0000	0.000	53550.1	1.965	VV	0.032	28211.76	2.264
56	5.668		0.0000	0.000	91306.3	3.350	VV	0.028	54805.06	4.398
57	5.692	Methoxychlor	28.4262	23.599	102320.0	3.754	VV	0.029	58992.10	4.734
58	5.738		0.0000	0.000	60247.1	2.210	VV	0.026	39061.22	3.134
59	5.772		0.0000	0.000	130560.1	4.790	VV	0.036	60134.31	4.825
60	5.833	Mirex	22.7603	18.895	167038.1	6.129	VV	0.034	81639.77	6.551
61	5.877		0.0000	0.000	244033.3	8.953	VV	0.053	76356.91	6.127
62	5.946		0.0000	0.000	56838.6	2.085	VV	0.027	34473.16	2.766
63	5.989		0.0000	0.000	83540.9	3.065	VV	0.034	41145.43	3.302
64	6.025		0.0000	0.000	40655.7	1.492	VV	0.027	24892.57	1.997

USF83 1967

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.078	Endrin ketone	8.3986	6.972	99133.5	3.637	VV	0.036	45832.01	3.678
66	6.142		0.0000	0.000	46251.2	1.697	VV	0.037	21050.92	1.689
67	6.177		0.0000	0.000	57728.0	2.118	VV	0.029	33218.81	2.666
68	6.219		0.0000	0.000	18375.7	0.674	VV	0.021	14689.21	1.179
69	6.236		0.0000	0.000	19548.2	0.717	VV	0.022	14927.41	1.198
70	6.262		0.0000	0.000	23987.8	0.880	VV	0.025	15890.70	1.275
71	6.303		0.0000	0.000	5530.7	0.203	VV	0.025	3652.22	0.293
72	6.337		0.0000	0.000	5186.8	0.190	VV	0.027	3148.92	0.253
73	6.389		0.0000	0.000	524.6	0.019	VB	0.019	468.49	0.038
74	6.422		0.0000	0.000	2206.6	0.081	BB	0.022	1658.69	0.133
75	6.459		0.0000	0.000	3657.2	0.134	BB	0.023	2630.55	0.211
76	6.518		0.0000	0.000	1143.7	0.042	BB	0.022	876.44	0.070
77	6.587		0.0000	0.000	2215.2	0.081	BB	0.025	1464.73	0.118
78	6.625		0.0000	0.000	2931.6	0.108	BB	0.023	2128.09	0.171
79	6.730	DCB	0.6874	0.571	8422.7	0.309	BB	0.053	2640.96	0.212
80	6.779		0.0000	0.000	544.1	0.020	BB	0.021	425.34	0.034
81	6.838		0.0000	0.000	1599.6	0.059	BB	0.025	1064.25	0.085
82	6.986		0.0000	0.000	4510.4	0.165	BB	0.066	1135.71	0.091
83	7.210		0.0000	0.000	27983.3	1.027	BB	0.089	5223.02	0.419
84	7.355		0.0000	0.000	2115.7	0.078	BB	0.039	906.76	0.073

Total Area = 2725569.0, Total Amount = 120.457, Total Height = 1246224.0, Sample Units = PPB

USF03 1968

Sample Name: **TOXA31124C FETOXA3FE CCAL 1119899999**
Acquired from CP10--H9191B via port 2 on 7/20/11 09:35:27am by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.84R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.020		0.0000	0.000	470.4	0.066	BV	0.109	71.84	0.015
2	2.053		0.0000	0.000	113.3	0.016	VV	0.017	112.77	0.024
3	2.079		0.0000	0.000	595.3	0.084	VB	0.021	470.97	0.101
4	2.250		0.0000	0.000	45.6	0.006	BB	0.028	27.25	0.006
5	2.603		0.0000	0.000	154.7	0.022	BB	0.045	57.35	0.012
6	2.732		0.0000	0.000	111.8	0.016	BB	0.038	49.46	0.011
7	2.820		0.0000	0.000	351.4	0.050	BB	0.048	122.94	0.026
8	3.048		0.0000	0.000	263.1	0.037	BB	0.115	38.24	0.008
9	3.215		0.0000	0.000	3453.5	0.488	BB	0.023	2488.81	0.533
10	3.293		0.0000	0.000	68.9	0.010	BV	0.021	55.02	0.012
11	3.343		0.0000	0.000	357.0	0.050	VV	0.033	177.94	0.038
12	3.454		0.0000	0.000	323.9	0.046	VV	0.027	202.21	0.043
13	3.515		0.0000	0.000	2859.8	0.404	VV	0.025	1869.29	0.400
14	3.596		0.0000	0.000	981.3	0.139	VV	0.060	270.97	0.058
15	3.694	Alachlor	0.0000	0.000	3030.4	0.428	VV	0.068	741.81	0.159
16	3.776		0.0000	0.000	3428.3	0.484	VV	0.029	1974.82	0.423
17	3.856		0.0000	0.000	696.0	0.098	VB	0.027	428.11	0.092
18	3.953		0.0000	0.000	1327.9	0.188	BV	0.028	784.18	0.168
19	3.991		0.0000	0.000	2213.3	0.313	VV	0.025	1454.04	0.311
20	4.033	Telodrin	0.1901	0.186	1055.2	0.149	VV	0.036	481.99	0.103
21	4.104		0.0000	0.000	1221.0	0.172	VV	0.025	800.08	0.171
22	4.137		0.0000	0.000	666.1	0.094	VV	0.022	499.65	0.107
23	4.197		0.0000	0.000	2539.4	0.359	VV	0.038	1112.55	0.238
24	4.275		0.0000	0.000	10403.6	1.470	VV	0.035	4912.12	1.052
25	4.347		0.0000	0.000	4493.7	0.635	VB	0.030	2509.55	0.538
26	4.394	Hept. epoxide	0.4004	0.392	1298.2	0.183	BV	0.019	1139.20	0.244
27	4.425		0.0000	0.000	9073.9	1.282	VV	0.022	6730.87	1.442
28	4.477		0.0000	0.000	3016.2	0.426	VV	0.034	1480.33	0.317
29	4.543	o,p-DDE	0.6353	0.622	2144.8	0.303	VV	0.029	1244.91	0.267
30	4.574		0.0000	0.000	730.5	0.103	VV	0.018	689.37	0.148
31	4.611		0.0000	0.000	12816.7	1.810	VB	0.038	5549.64	1.189
32	4.701		0.0000	0.000	2583.1	0.365	BB	0.029	1466.90	0.314
33	4.751		0.0000	0.000	2806.9	0.397	BV	0.034	1386.11	0.297
34	4.807	4,4'-DDE	0.7715	0.755	4400.7	0.622	VB	0.033	2233.33	0.478
35	4.874		0.0000	0.000	1079.3	0.152	BB	0.018	992.33	0.213
36	4.918	Dieldrin	3.7875	3.708	17299.5	2.444	BB	0.024	11930.22	2.555
37	4.960	o,p-DDD	0.2183	0.214	295.6	0.042	BV	0.013	371.10	0.079
38	5.005		0.0000	0.000	13095.2	1.850	VV	0.024	9182.12	1.967
39	5.051		0.0000	0.000	11971.9	1.691	VV	0.023	8778.64	1.880
40	5.120		0.0000	0.000	33907.3	4.790	VV	0.031	18198.09	3.898
41	5.166	Endrin	1.5835	1.550	5530.4	0.781	VV	0.023	4059.24	0.869
42	5.197	o,p-DDT	2.0598	2.017	4672.9	0.660	VV	0.021	3708.49	0.794
43	5.232	4,4'-DDD	2.0011	1.959	7979.7	1.127	VV	0.030	4467.88	0.957
44	5.280		0.0000	0.000	12543.9	1.772	VV	0.023	9148.80	1.960
45	5.308	Endosulfan II	4.3722	4.280	11155.9	1.576	VB	0.019	9767.05	2.092
46	5.347		0.0000	0.000	6117.2	0.864	BV	0.017	5997.29	1.285
47	5.376		0.0000	0.000	50084.9	7.075	VB	0.021	39424.73	8.445
48	5.431		0.0000	0.000	19828.5	2.801	BB	0.021	15630.26	3.348
49	5.511		0.0000	0.000	19214.7	2.714	BV	0.023	13704.85	2.936
50	5.562	Endrin aldehyde	22.5506	22.078	56397.9	7.967	VV	0.024	39532.41	8.468
51	5.608		0.0000	0.000	18448.2	2.606	VV	0.017	18060.35	3.869
52	5.621		0.0000	0.000	27607.7	3.900	VV	0.022	20684.95	4.431
53	5.661		0.0000	0.000	11968.5	1.691	VV	0.027	7259.67	1.555
54	5.715		0.0000	0.000	24873.4	3.514	VV	0.035	11825.87	2.533
55	5.744	Endo. sulfate	10.7808	10.555	22290.4	3.149	VV	0.020	18653.36	3.996
56	5.807		0.0000	0.000	33887.5	4.787	VV	0.038	14974.16	3.207
57	5.831		0.0000	0.000	18355.5	2.593	VV	0.027	11404.32	2.443
58	5.884		0.0000	0.000	15306.8	2.162	VV	0.025	10393.70	2.226
59	5.916		0.0000	0.000	39456.0	5.574	VV	0.025	26248.71	5.622
60	5.954	Methoxychlor	41.6140	40.741	66837.7	9.442	VB	0.038	29446.74	6.308
61	6.047		0.0000	0.000	8778.6	1.240	BV	0.022	6526.14	1.398
62	6.082	Mirex	8.6337	8.453	14979.4	2.116	VV	0.024	10500.13	2.249
63	6.106	Endrin ketone	2.5443	2.491	6078.5	0.859	VV	0.020	5032.93	1.078
64	6.150		0.0000	0.000	12678.4	1.791	VV	0.027	7895.83	1.691

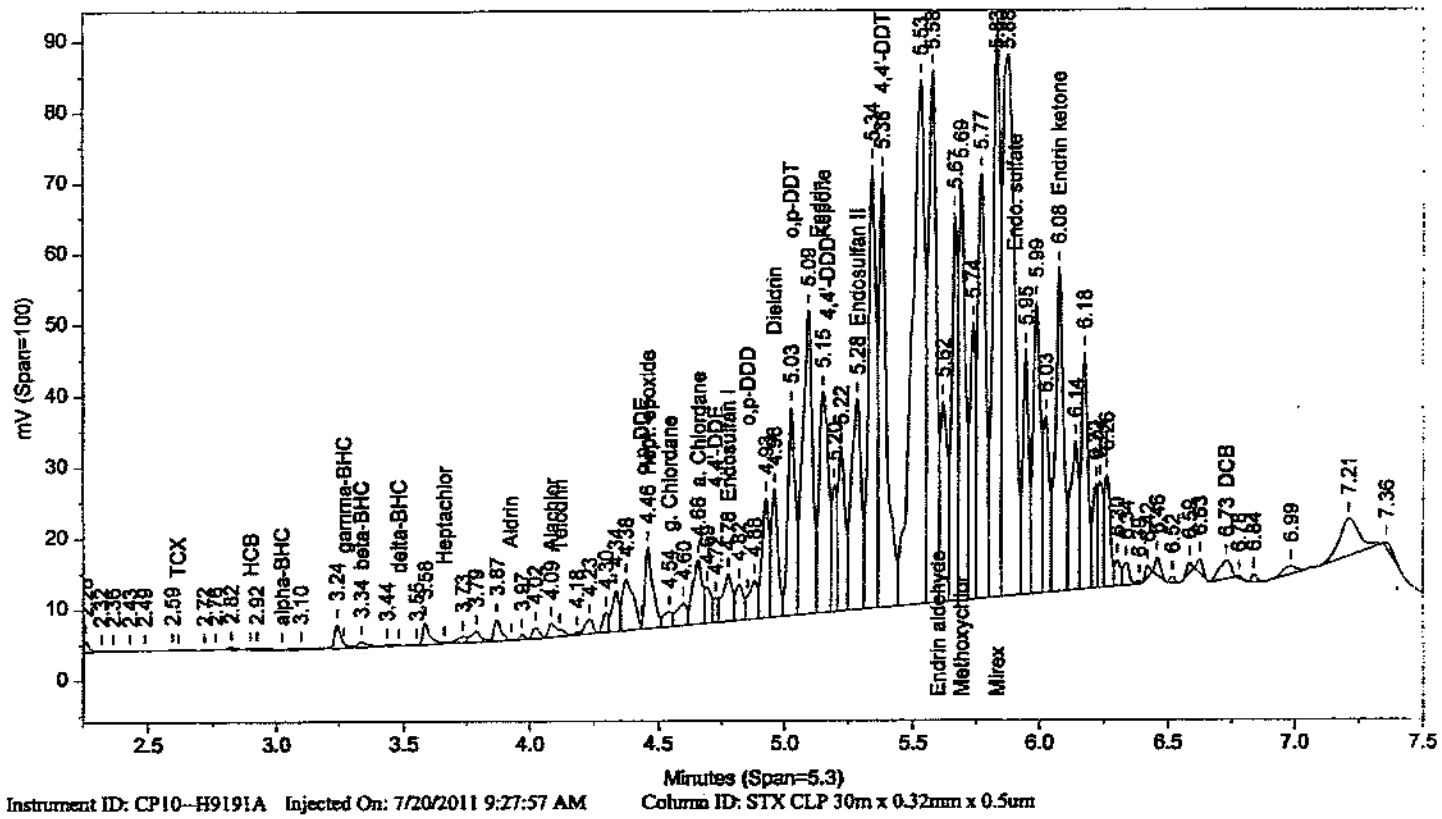
USF83 1969

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.180		0.0000	0.000	12833.3	1.813	VV	0.020	10520.96	2.254
66	6.229		0.0000	0.000	2020.6	0.285	VB	0.023	1442.66	0.309
67	6.263		0.0000	0.000	2619.4	0.370	BB	0.015	2939.80	0.630
69	6.334		0.0000	0.000	1145.9	0.162	BB	0.013	1460.84	0.313
70	6.371		0.0000	0.000	2698.1	0.381	BV	0.016	2769.49	0.593
71	6.386		0.0000	0.000	3789.0	0.535	VB	0.019	3333.56	0.714
72	6.431		0.0000	0.000	4092.1	0.578	BB	0.024	2799.44	0.600
73	6.483		0.0000	0.000	972.8	0.137	BB	0.016	999.31	0.214
74	6.524		0.0000	0.000	142.5	0.020	BB	0.014	166.33	0.036
75	6.542		0.0000	0.000	144.9	0.020	BB	0.015	164.97	0.035
76	6.585		0.0000	0.000	634.2	0.090	BB	0.018	590.22	0.126
77	6.606		0.0000	0.000	304.1	0.043	BB	0.010	482.99	0.103
78	6.733		0.0000	0.000	362.9	0.051	BB	0.032	189.28	0.041
79	6.798		0.0000	0.000	725.6	0.102	BB	0.029	412.84	0.088
80	6.867		0.0000	0.000	435.8	0.062	BB	0.029	247.61	0.053
81	6.923		0.0000	0.000	247.9	0.035	BB	0.015	267.35	0.057
82	6.967		0.0000	0.000	170.8	0.024	BB	0.020	140.93	0.030
83	7.019		0.0000	0.000	629.4	0.089	BB	0.039	270.35	0.058
84	7.087		0.0000	0.000	1122.6	0.159	BB	0.086	218.65	0.047

Total Area = 707908.9, Total Amount = 102.143, Total Height = 466852.7, Sample Units = PPB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.84R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 9:27:57 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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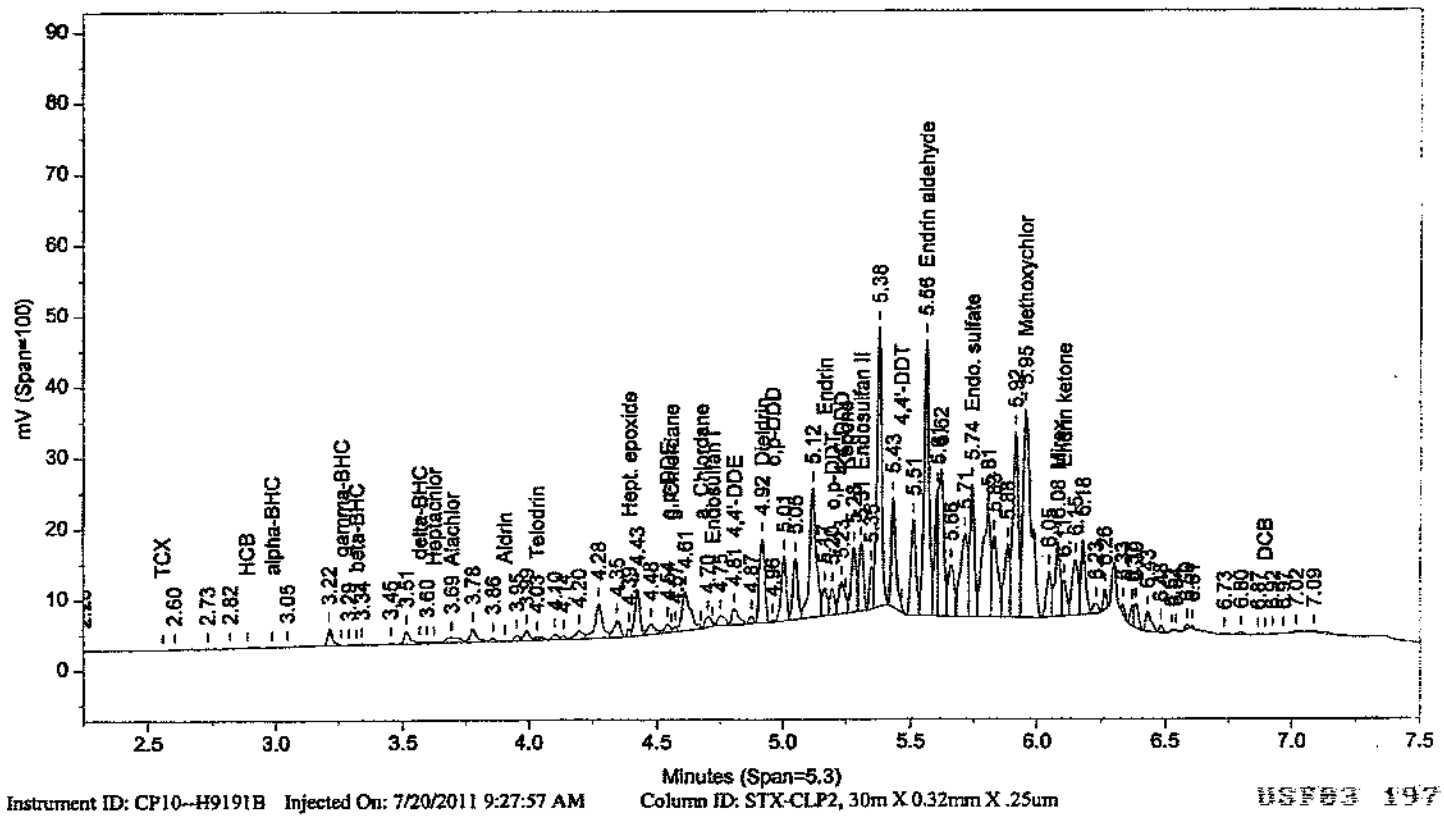


Instrument ID: CP10--H9191B Injected On: 7/20/2011 9:27:57 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USEPA 1971

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

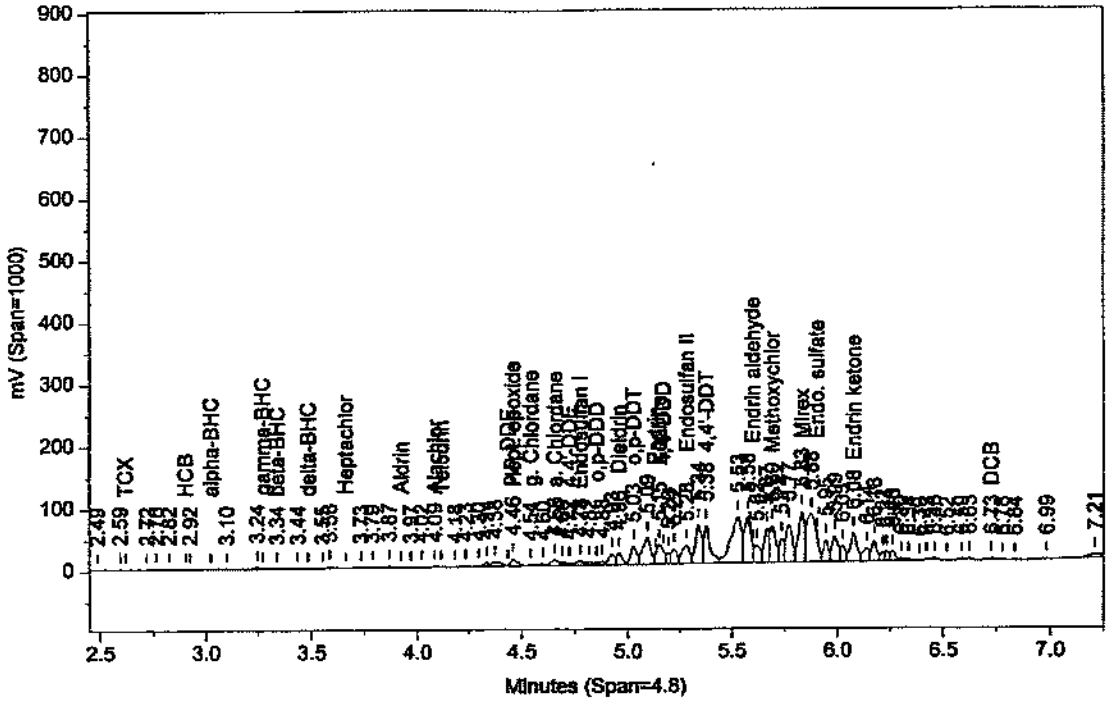
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.339	810	.223	beta-BHC	.	0	.	beta-BHC
4.085	1980	.	Alachlor	3.694	742	.	Alachlor
.	0	.	Telodrin	4.033	482	.19	Telodrin
4.46	11438	1.827	Hept. epoxide	4.394	1139	.4	Hept. epoxide
4.542	2088	.322	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.543	1245	.635	o,p-DDE
4.656	9097	1.467	a. Chlordane	.	0	.	a. Chlordane
4.724	3430	.591	4,4'-DDE	4.807	2233	.771	4,4'-DDE
4.775	6677	1.158	Endosulfan I	.	0	.	Endosulfan I
4.958	18160	2.893	Dieldrin	4.918	11930	3.788	Dieldrin
.	0	.	o,p-DDD	4.96	371	.218	o,p-DDD
5.026	29234	8.371	o,p-DDT	5.197	3708	2.06	o,p-DDT
5.151	31106	20.899	Kepone	.	0	.	Kepone
.	0	.	Endrin	5.166	4059	1.583	Endrin
.	0	.	4,4'-DDD	5.232	4468	2.001	4,4'-DDD
5.284	29713	7.835	Endosulfan II	5.308	9767	4.372	Endosulfan II
5.379	61338	14.599	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.562	39532	22.551	Endrin aldehyde
5.692	58992	28.426	Methoxychlor	5.954	29447	41.614	Methoxychlor
.	0	.	Endo. sulfate	5.744	18653	10.781	Endo. sulfate
5.833	81640	22.76	Mirex	6.082	10500	8.634	Mirex
6.078	45832	8.399	Endrin ketone	6.106	5033	2.544	Endrin ketone
6.73	2641	.687	DCB	.	0	.	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.84A
Area File: C:\CPWIN\DATA1\1P10200B.84A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 9:35:34 AM
File Reported On: 7/20/2011 at 9:35:48 AM

10X REPLOTS

C:\CPWIN\DATA1\1P10200.84R



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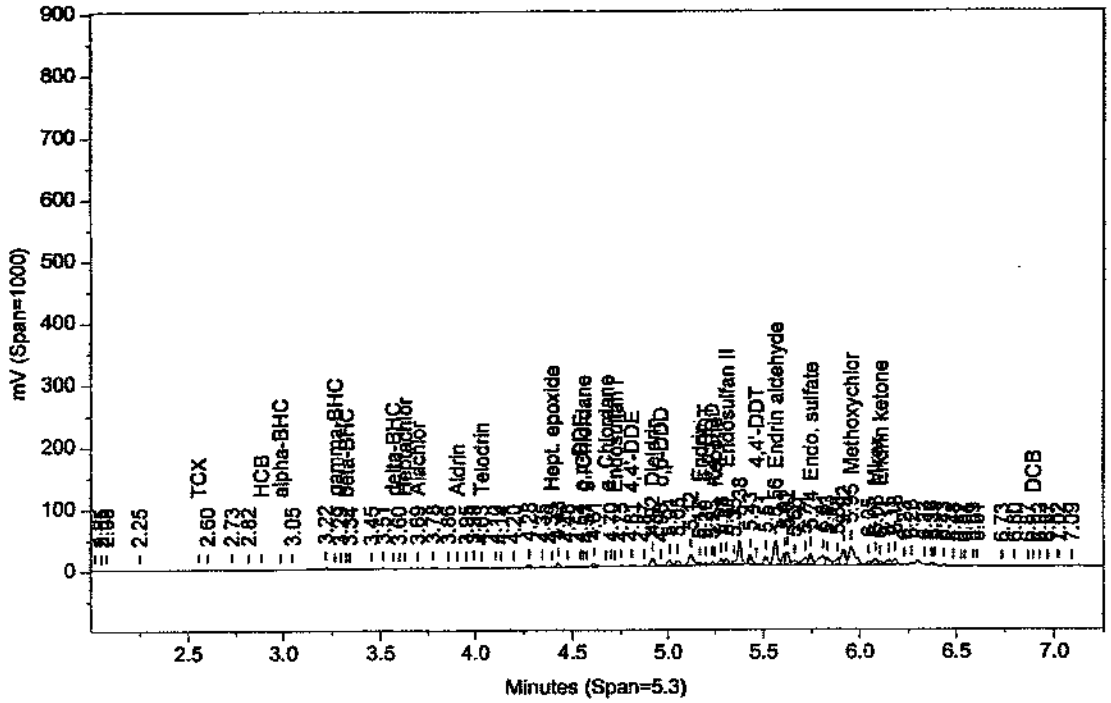


Sample Name: **CHLD31124A HFCHLD3HF CCAL 1119899999**
Acquired from CP10--H9191A via port 1 on 7/20/11 09:50:45am by 0856
STX CLP 30m x 0.32mm x 0.5um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min
Data File: **C:\CPWIN\DATA1\1P10200.85R**
Method File: C:\CPWIN\DATA1\PESTDI.MET
Calibration File: C:\CPWIN\DATA1\1P10200.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.807		0.0000	0.000	275.6	0.020	BV	0.019	243.89	0.033
2	1.843		0.0000	0.000	3651.1	0.263	VV	0.044	1392.25	0.188
3	1.930		0.0000	0.000	1542.8	0.111	VV	0.046	560.30	0.076
4	2.010		0.0000	0.000	5995.7	0.431	VB	0.055	1832.82	0.248
5	2.116		0.0000	0.000	2901.6	0.209	BV	0.061	788.66	0.107
6	2.190		0.0000	0.000	1555.0	0.112	VV	0.047	548.84	0.074
7	2.259		0.0000	0.000	3533.4	0.254	VB	0.032	1833.34	0.248
8	2.361		0.0000	0.000	207.2	0.015	BB	0.022	159.42	0.022
9	2.451		0.0000	0.000	102.2	0.007	BB	0.019	89.28	0.012
10	2.490		0.0000	0.000	304.5	0.022	BB	0.028	179.48	0.024
11	2.575		0.0000	0.000	3996.7	0.288	BB	0.016	4056.81	0.549
12	2.618	TCX	35.9708	31.802	381585.5	27.450	BB	0.028	229619.90	31.087
13	2.818		0.0000	0.000	494.2	0.036	BB	0.033	251.30	0.034
14	2.897	HCB	0.4032	0.356	5720.0	0.411	BV	0.034	2827.43	0.383
15	2.993		0.0000	0.000	200.1	0.014	VB	0.023	142.10	0.019
16	3.064		0.0000	0.000	4626.1	0.333	BV	0.030	2567.65	0.348
17	3.140		0.0000	0.000	2671.0	0.192	VV	0.029	1514.18	0.205
18	3.209		0.0000	0.000	1357.5	0.098	VV	0.025	918.96	0.124
19	3.242		0.0000	0.000	3166.4	0.228	VB	0.030	1762.28	0.239
20	3.312		0.0000	0.000	458.4	0.033	BV	0.020	389.14	0.053
21	3.354		0.0000	0.000	224.0	0.016	VB	0.031	121.58	0.016
22	3.442		0.0000	0.000	2389.1	0.172	BV	0.029	1388.59	0.188
23	3.522		0.0000	0.000	3572.1	0.257	VB	0.031	1929.06	0.261
24	3.592		0.0000	0.000	38849.9	2.795	BV	0.029	22128.63	2.996
25	3.660	Heptachlor	4.1270	3.649	49592.4	3.567	VV	0.029	28087.49	3.803
26	3.756		0.0000	0.000	15863.7	1.141	VV	0.050	5307.02	0.718
27	3.846		0.0000	0.000	1873.2	0.135	VV	0.030	1029.65	0.139
28	3.893		0.0000	0.000	351.4	0.025	VV	0.023	253.06	0.034
29	3.961		0.0000	0.000	1617.7	0.116	VV	0.037	734.22	0.099
30	3.994		0.0000	0.000	2556.3	0.184	VV	0.028	1530.65	0.207
31	4.041		0.0000	0.000	41620.0	2.994	VV	0.033	20994.73	2.842
32	4.184		0.0000	0.000	14972.7	1.077	VV	0.085	2944.31	0.399
33	4.259		0.0000	0.000	6504.2	0.468	VV	0.030	3636.65	0.492
34	4.309		0.0000	0.000	11710.9	0.842	VV	0.042	4690.44	0.635
35	4.393		0.0000	0.000	20875.0	1.502	VV	0.028	12320.23	1.668
36	4.450	Hept. epoxide	0.8064	0.713	10112.6	0.727	VV	0.033	5047.56	0.683
37	4.482		0.0000	0.000	16720.5	1.203	VV	0.033	8359.85	1.132
38	4.552	g. Chlordane	10.1394	8.964	126637.9	9.110	VV	0.032	65807.68	8.909
39	4.652	a. Chlordane	12.7039	11.232	186361.7	13.406	VV	0.039	78784.94	10.666
40	4.725	4,4'-DDE	0.3471	0.307	4599.4	0.331	VV	0.038	2013.82	0.273
41	4.783	Endosulfan I	0.3233	0.286	3109.4	0.224	VV	0.028	1864.48	0.252
42	4.823		0.0000	0.000	13846.8	0.996	VV	0.045	5183.59	0.702
43	4.897		0.0000	0.000	11942.7	0.859	VV	0.036	5593.84	0.757
44	4.969	Dieldrin	0.3444	0.304	3986.0	0.287	VV	0.031	2161.65	0.293
45	5.015		0.0000	0.000	9011.8	0.648	VV	0.036	4186.46	0.567
46	5.088		0.0000	0.000	4971.9	0.358	VV	0.046	1785.81	0.242
47	5.151	Kepone	8.4007	7.427	24795.8	1.784	VV	0.033	12503.54	1.693
48	5.213		0.0000	0.000	3006.6	0.216	VV	0.022	2253.69	0.305
49	5.248		0.0000	0.000	27867.9	2.005	VB	0.028	16362.91	2.215
50	5.340		0.0000	0.000	2705.3	0.195	BV	0.048	934.04	0.126
51	5.424		0.0000	0.000	10163.9	0.731	VV	0.051	3294.71	0.446
52	5.550		0.0000	0.000	3678.1	0.265	VV	0.045	1374.43	0.186
53	5.611	Endrin aldehyde	0.0827	0.073	525.4	0.038	VV	0.026	338.12	0.046
54	5.655		0.0000	0.000	861.9	0.062	VV	0.045	318.19	0.043
55	5.740		0.0000	0.000	742.3	0.053	VB	0.043	288.61	0.039
56	5.836	Mirex	0.0962	0.085	750.0	0.054	BV	0.036	345.01	0.047
57	5.899	Endo. sulfate	0.1456	0.129	1441.2	0.104	VV	0.040	598.73	0.081
58	5.937		0.0000	0.000	1404.9	0.101	VV	0.026	912.53	0.124
59	5.984		0.0000	0.000	485.1	0.035	VV	0.020	402.07	0.054
60	6.040		0.0000	0.000	268.2	0.019	VV	0.025	180.53	0.024
61	6.144		0.0000	0.000	275.0	0.020	VB	0.186	24.66	0.003
62	6.195		0.0000	0.000	1810.9	0.130	BV	0.030	1008.56	0.137
63	6.261		0.0000	0.000	376.5	0.027	VB	0.029	214.31	0.029
64	6.319		0.0000	0.000	1826.0	0.131	BV	0.032	938.87	0.127

USF83 1974

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	6.370		0.0000	0.000	2583.5	0.186	VB	0.058	738.55	0.100
66	6.550		0.0000	0.000	700.8	0.050	BB	0.166	70.40	0.010
67	6.607		0.0000	0.000	1407.6	0.101	BB	0.024	966.92	0.131
68	6.674		0.0000	0.000	497.4	0.036	BB	0.041	202.71	0.027
69	6.729	DCB	39.2183	34.673	242841.8	17.469	BB	0.027	150679.70	20.399
70	6.903		0.0000	0.000	87.8	0.006	BB	0.019	75.39	0.010
71	6.955		0.0000	0.000	215.5	0.016	BB	0.025	144.49	0.020
72	7.093		0.0000	0.000	2751.1	0.198	BB	0.071	645.97	0.087
73	7.218		0.0000	0.000	1048.0	0.075	BB	0.073	239.65	0.032
74	7.305		0.0000	0.000	26799.0	1.928	BB	0.148	3022.96	0.409

Total Area = 1390136.0, Total Amount = 113.109, Total Height = 738644.1, Sample Units = PPB

Sample Name: **CHLD31124A HFCHLD3HF CCAL 1119899999**
Acquired from CP10--H9191B via port 2 on 7/20/11 09:50:45am by 0856
STX-CLP2, 30m X 0.32mm X .25um
110 to 200 at 45 c/min. to 230 @ 15 to 330 at30 c/min hold 1
Data File: **C:\CPWIN\DATA1\1P10200B.85R**
Method File: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File: C:\CPWIN\DATA1\1P10200B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	1.940		0.0000	0.000	1402.3	0.335	BV	0.038	612.69	0.195
2	2.046		0.0000	0.000	158.8	0.038	VB	0.015	177.89	0.057
3	2.079		0.0000	0.000	566.2	0.135	BB	0.023	417.10	0.133
4	2.510		0.0000	0.000	441.8	0.105	BB	0.080	92.60	0.029
5	2.558	TCX	35.9156	30.820	93368.6	22.276	BB	0.019	82793.83	26.375
6	2.816		0.0000	0.000	1396.9	0.333	BB	0.019	1244.89	0.397
7	2.922		0.0000	0.000	263.3	0.063	BV	0.018	243.73	0.078
8	2.954		0.0000	0.000	1395.3	0.333	VV	0.020	1147.96	0.366
9	3.016		0.0000	0.000	927.6	0.221	VV	0.022	707.67	0.225
10	3.127		0.0000	0.000	265.9	0.063	VB	0.051	87.37	0.028
11	3.187		0.0000	0.000	768.5	0.183	BV	0.022	573.07	0.183
12	3.216		0.0000	0.000	2417.4	0.577	VV	0.034	1177.07	0.375
13	3.323	beta-BHC	0.1719	0.148	441.6	0.105	VV	0.023	326.23	0.104
14	3.358		0.0000	0.000	1305.5	0.311	VV	0.022	969.64	0.309
15	3.414		0.0000	0.000	1687.3	0.403	VV	0.034	818.87	0.261
16	3.475		0.0000	0.000	1194.1	0.285	VV	0.017	1175.17	0.374
17	3.502		0.0000	0.000	16571.6	3.954	VV	0.023	11794.45	3.757
18	3.623	Heptachlor	3.9616	3.400	21820.3	5.206	VV	0.025	14582.14	4.645
19	3.713		0.0000	0.000	3395.9	0.810	VV	0.028	2030.26	0.647
20	3.754		0.0000	0.000	3095.3	0.739	VV	0.034	1536.67	0.490
21	3.864		0.0000	0.000	1179.9	0.281	VV	0.033	601.35	0.192
22	3.955		0.0000	0.000	3007.0	0.717	VV	0.026	1924.56	0.613
23	4.035	Telodrin	3.6894	3.166	14071.9	3.357	VV	0.025	9353.34	2.980
24	4.087		0.0000	0.000	1100.5	0.263	VV	0.025	733.62	0.234
25	4.152		0.0000	0.000	1942.9	0.464	VV	0.029	1113.19	0.355
26	4.174		0.0000	0.000	2064.7	0.493	VV	0.026	1323.30	0.422
27	4.210		0.0000	0.000	4368.8	1.042	VV	0.025	2909.81	0.927
28	4.264		0.0000	0.000	2438.5	0.582	VB	0.022	1853.86	0.591
29	4.307		0.0000	0.000	186.6	0.045	BV	0.025	126.43	0.040
30	4.370		0.0000	0.000	6889.3	1.644	VV	0.022	5167.37	1.646
31	4.428		0.0000	0.000	868.2	0.207	VV	0.021	688.76	0.219
32	4.465		0.0000	0.000	8111.5	1.935	VV	0.026	5150.02	1.641
33	4.501		0.0000	0.000	2365.8	0.564	VV	0.025	1579.09	0.503
34	4.557	o,p-DDE	17.0471	14.629	44643.9	10.651	VV	0.022	33405.54	10.642
35	4.632		0.0000	0.000	35390.3	8.444	VV	0.025	23931.09	7.624
36	4.674	a. Chlordane	8.9117	7.647	35147.2	8.386	VB	0.021	27885.27	8.883
37	4.754		0.0000	0.000	126.3	0.030	BV	0.016	132.59	0.042
38	4.787	4,4'-DDE	0.3177	0.273	1887.8	0.450	VB	0.034	919.74	0.293
39	4.863		0.0000	0.000	2992.7	0.714	BB	0.021	2322.91	0.740
40	4.936	Dieldrin	0.9369	0.804	5626.3	1.342	BV	0.032	2951.22	0.940
41	5.009		0.0000	0.000	1324.1	0.316	VV	0.023	969.32	0.309
42	5.038		0.0000	0.000	3020.4	0.721	VV	0.033	1535.95	0.489
43	5.074		0.0000	0.000	1903.0	0.454	VB	0.020	1575.45	0.502
44	5.140		0.0000	0.000	5576.5	1.330	BV	0.052	1799.09	0.573
45	5.222	4,4'-DDD	2.6910	2.309	9388.1	2.240	VV	0.026	6008.39	1.914
46	5.283		0.0000	0.000	1431.6	0.342	VV	0.026	928.79	0.296
47	5.303	Endosulfan II	0.3904	0.335	1110.3	0.265	VV	0.021	872.22	0.278
48	5.352		0.0000	0.000	9447.5	2.254	VB	0.021	7329.63	2.335
49	5.420		0.0000	0.000	452.2	0.108	BV	0.021	355.59	0.113
50	5.445	4,4'-DDT	0.2291	0.197	865.3	0.206	VB	0.034	420.30	0.134
51	5.576	Endrin aldehyde	0.8331	0.715	2455.8	0.586	BV	0.028	1460.46	0.465
52	5.634		0.0000	0.000	442.4	0.106	VV	0.028	259.06	0.083
53	5.667		0.0000	0.000	635.2	0.152	VV	0.029	364.43	0.116
54	5.803		0.0000	0.000	1272.8	0.304	VV	0.068	310.84	0.099
55	5.900		0.0000	0.000	1855.5	0.443	VV	0.081	382.00	0.122
56	6.073	Mirex	0.2938	0.252	577.4	0.138	VV	0.027	357.30	0.114
57	6.118	Endrin ketone	0.1193	0.102	296.7	0.071	VB	0.021	236.01	0.075
58	6.178		0.0000	0.000	228.4	0.054	BV	0.017	218.57	0.070
59	6.203		0.0000	0.000	420.8	0.100	VB	0.031	225.15	0.072
60	6.345		0.0000	0.000	873.7	0.208	BB	0.041	356.38	0.114
61	6.686		0.0000	0.000	170.4	0.041	BB	0.036	79.99	0.025
62	6.730		0.0000	0.000	388.4	0.093	BB	0.019	334.37	0.107
63	6.829		0.0000	0.000	35.0	0.008	BB	0.012	50.16	0.016
64	6.893	DCB	41.0237	35.204	47236.7	11.270	BB	0.019	40707.36	12.968

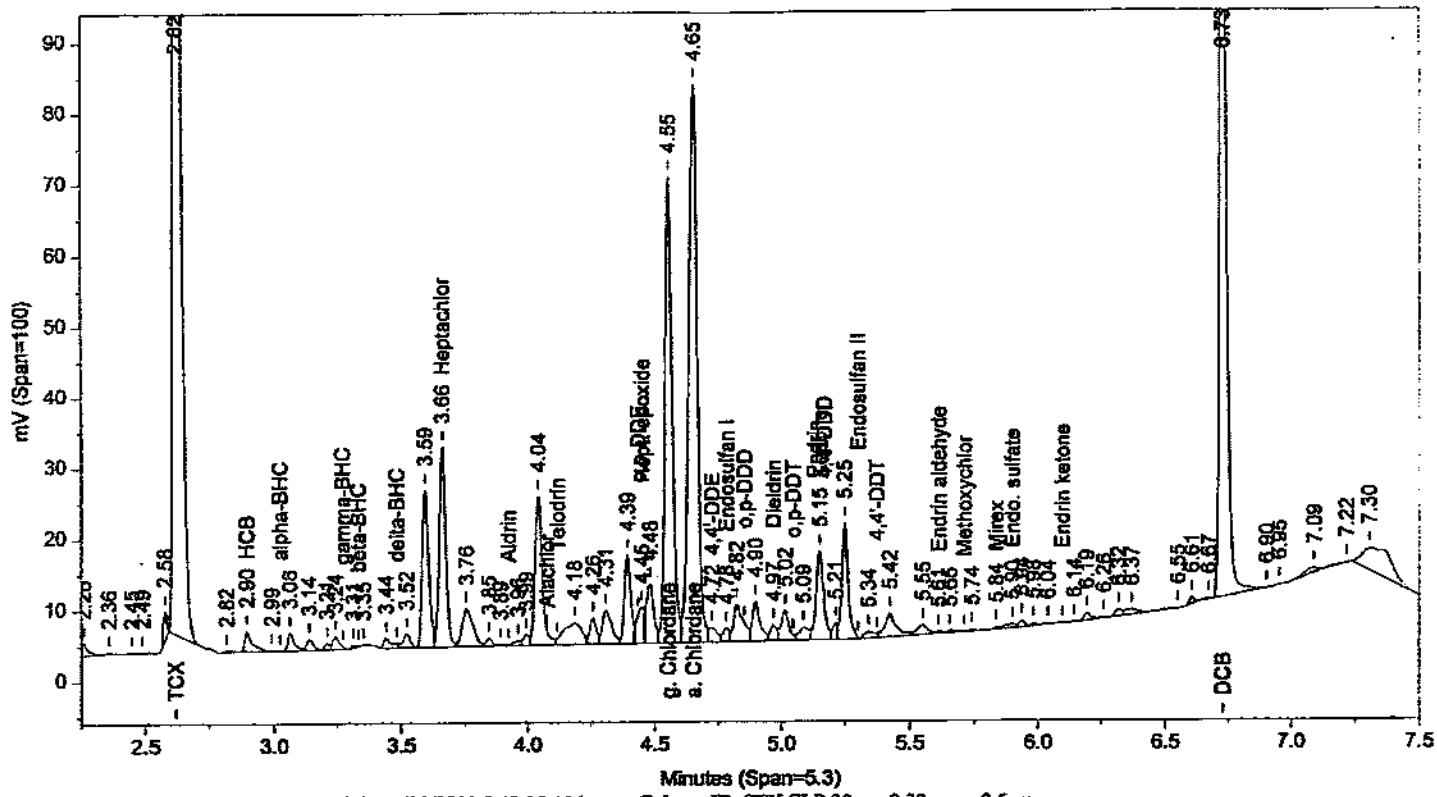
USF63 1976

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	7.028		0.0000	0.000	318.1	0.076	BB	0.047	112.95	0.036
66	7.229		0.0000	0.000	115.3	0.028	BB	0.026	75.12	0.024

Total Area = 419136.2, Total Amount = 116.532, Total Height = 313907.2, Sample Units = PPB

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.85R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 9:43:15 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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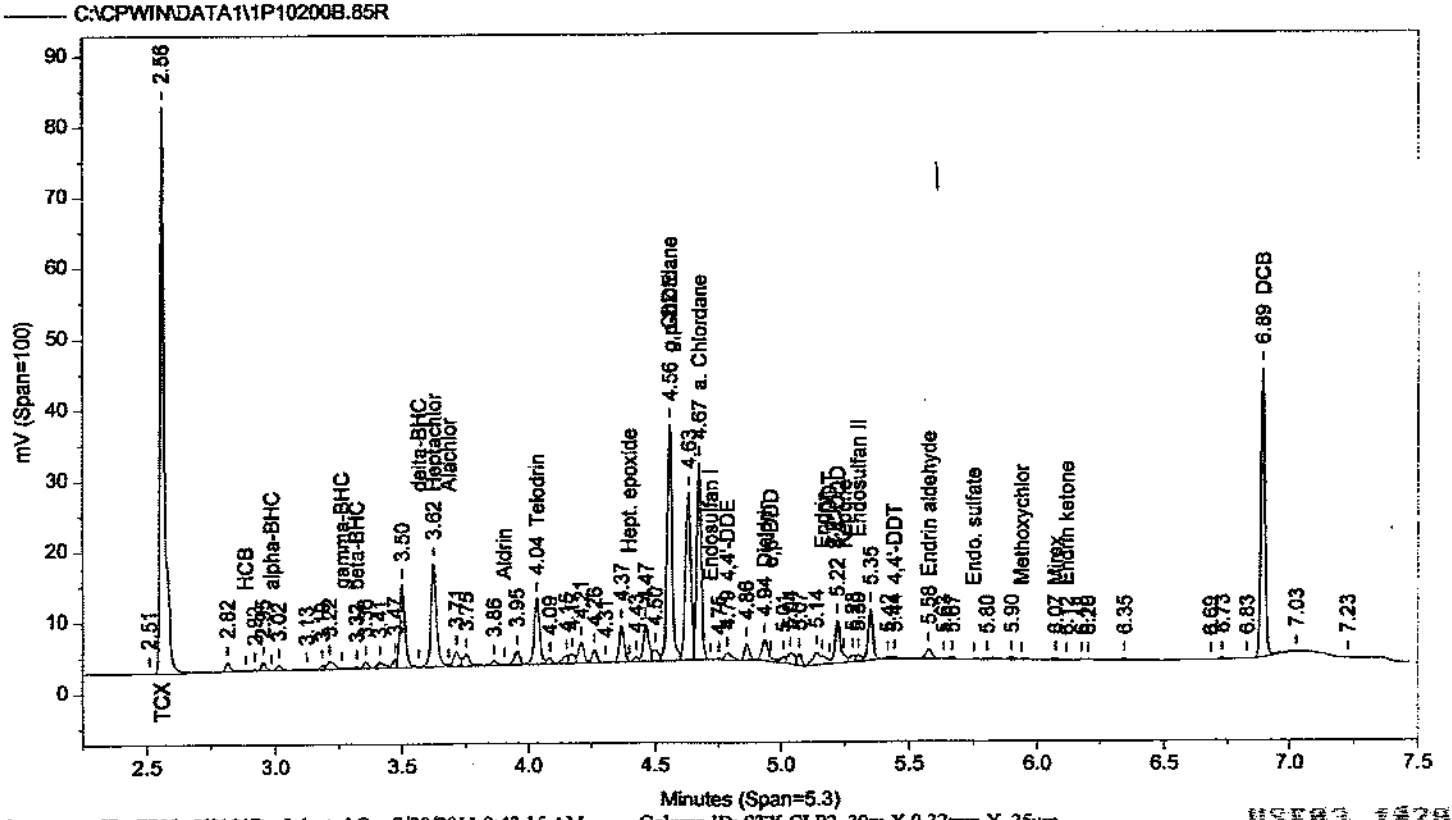

Instrument ID: CP10--H9191B Injected On: 7/20/2011 9:43:15 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USP83 1828

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	229620	35.971	TCX	2.558	82794	35.916	TCX
2.897	2827	.403	HCB	.	0	.	HCB
.	0	.	beta-BHC	3.323	326	.172	beta-BHC
3.66	28087	4.127	Heptachlor	3.623	14582	3.962	Heptachlor
.	0	.	Telodrin	4.035	9353	3.689	Telodrin
4.45	5048	.806	Hept. epoxide	.	0	.	Hept. epoxide
4.552	65808	10.139	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.557	33406	17.047	o,p-DDE
4.652	78785	12.704	a. Chlordane	4.674	27885	8.912	a. Chlordane
4.725	2014	.347	4,4'-DDE	4.787	920	.318	4,4'-DDE
4.783	1864	.323	Endosulfan I	.	0	.	Endosulfan I
4.969	2162	.344	Dieldrin	4.936	2951	.937	Dieldrin
5.151	12504	8.401	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.222	6008	2.691	4,4'-DDD
.	0	.	Endosulfan II	5.303	872	.39	Endosulfan II
.	0	.	4,4'-DDT	5.445	420	.229	4,4'-DDT
5.611	338	.083	Endrin aldehyde	5.576	1460	.833	Endrin aldehyde
5.836	345	.096	Mirex	6.073	357	.294	Mirex
5.899	599	.146	Endo. sulfate	.	0	.	Endo. sulfate
.	0	.	Endrin ketone	6.118	236	.119	Endrin ketone
6.729	150680	39.218	DCB	6.893	40707	41.024	DCB

Files:
Area File: C:\CPWIN\DATA1\IP10200.85A
Area File: C:\CPWIN\DATA1\IP10200B.85A
Method A: C:\CPWIN\DATA1\PESTDI.MET
Method B: C:\CPWIN\DATA1\PESTDIB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 9:50:54 AM
File Reported On: 7/20/2011 at 9:51:06 AM

10X REPLOTS

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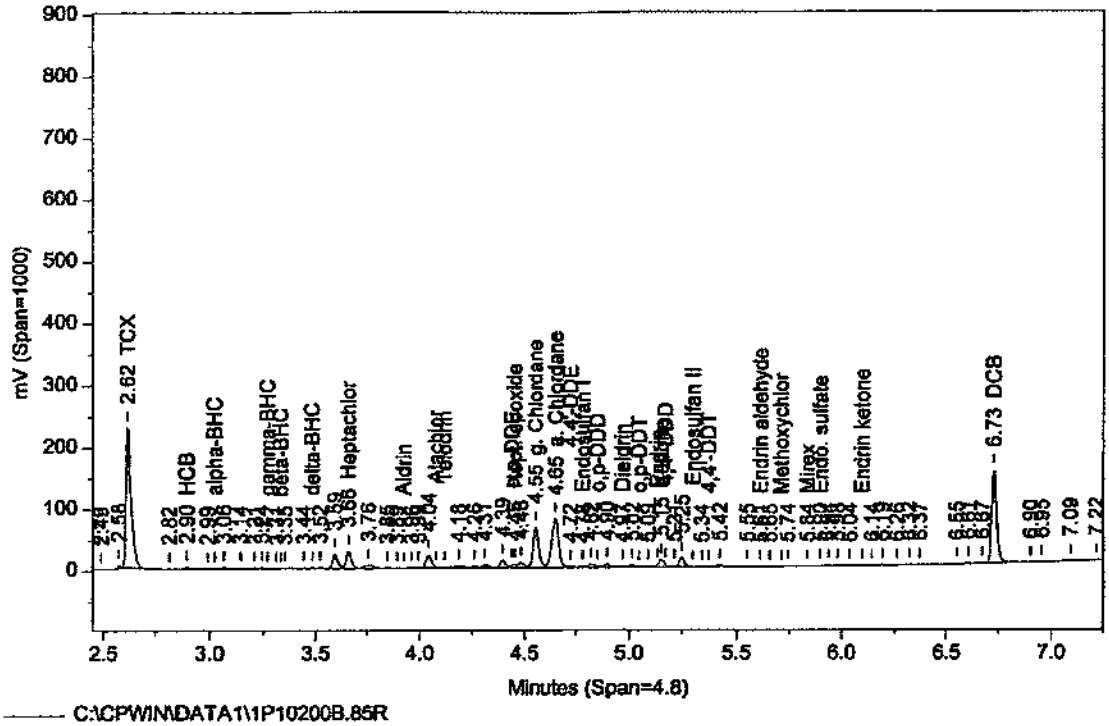

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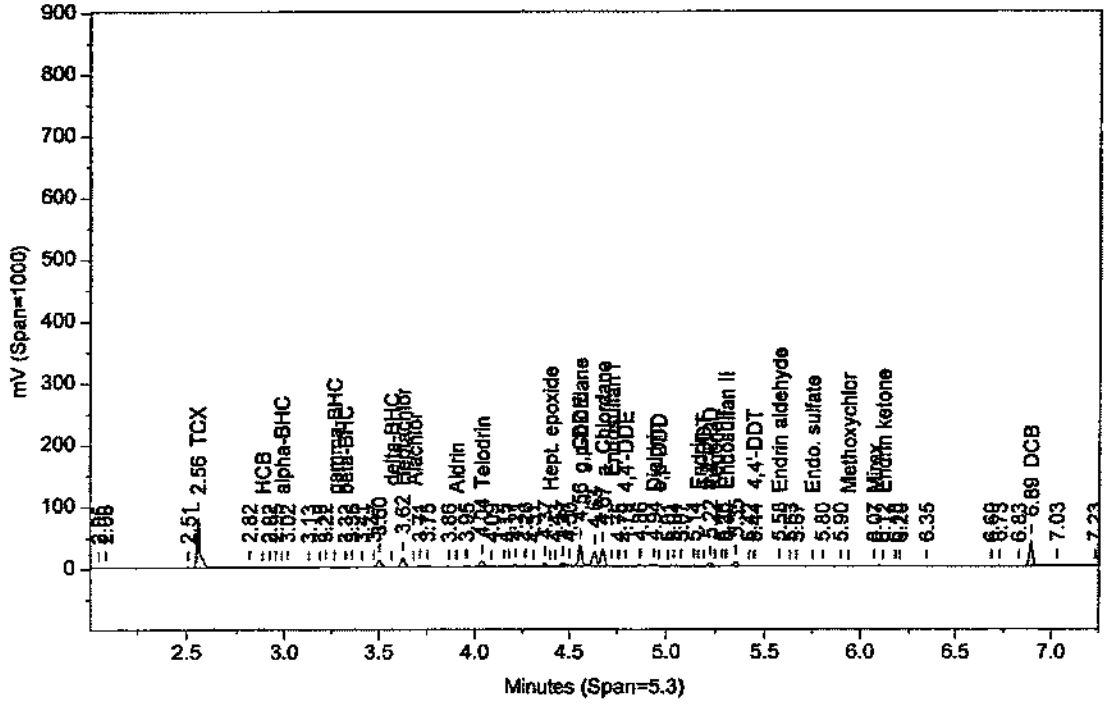

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp10\C-Drive\CPWIN\DATA1\1P10206.seq

Chromatography Directory: \\cp10\C-Drive\CPWIN\data1

Method Directory: \\cp10\C-Drive\CPWIN\data1

Number of Entries: 53

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1P10206.01R	PESTD.MET	1	1	1	0	1120599999	
2	CONDITIONER	MISC	AA	1P10206.02R	PESTD.MET	1	1	1	0	1120599999	
3	CONDITIONER	MISC	AA	1P10206.03R	PESTD.MET	1	1	1	0	1120599999	
4	IBLKX1124A	PIBLK	AA	1P10206.04R	PESTD.MET	1000	10	1	0	1120599999	
5	EVALX1124A	IPEM	AA	1P10206.05R	EVALD.MET	1	1	1	0	1120599999	
6	MIXA11124A	ICAL	AA	1P10206.06R	PESTD.MET	1	1	1	1	1120599999	
7	MIXA21124A	ICAL	AA	1P10206.07R	PESTD.MET	1	1	1	2	1120599999	
8	MIXA31124C	ICAL	AA	1P10206.08R	PESTD.MET	1	1	1	3	1120599999	
9	MIXA41124A	ICAL	AA	1P10206.09R	PESTD.MET	1	1	1	4	1120599999	
10	MIXA51124A	ICAL	AA	1P10206.10R	PESTD.MET	1	1	1	5	1120599999	
11	ICMAX1124A	CCAL	AA	1P10206.11R	PESTD.MET	1	1	1	0	1120599999	
12	MIXE11124B	ICAL	AA	1P10206.12R	PESTD.MET	1	1	1	0	1120599999	
13	MIXE21124B	ICAL	AA	1P10206.13R	PESTD.MET	1	1	1	0	1120599999	
14	MIXE31124B	ICAL	AA	1P10206.14R	PESTD.MET	1	1	1	0	1120599999	
15	MIXE41124B	ICAL	AA	1P10206.15R	PESTD.MET	1	1	1	0	1120599999	
16	MIXE51124B	ICAL	AA	1P10206.16R	PESTD.MET	1	1	1	0	1120599999	
17	TOXA11124C	ICAL	AA	1P10206.17R	PESTDI.MET	1	1	1	0	1120599999	
18	TOXA21124C	ICAL	AA	1P10206.18R	PESTDI.MET	1	1	1	0	1120599999	
19	TOXA31124D	ICAL	AA	1P10206.19R	PESTDI.MET	1	1	1	0	1120599999	
20	TOXA41124C	ICAL	AA	1P10206.20R	PESTDI.MET	1	1	1	0	1120599999	
21	TOXA51124D	ICAL	AA	1P10206.21R	PESTDI.MET	1	1	1	0	1120599999	
22	ICTXX1124D	CCAL	FX	1P10206.22R	PESTDI.MET	1	1	1	0	1120599999	
23	ICTXX1124E	CCAL	FY	1P10206.23R	PESTDI.MET	1	1	1	0	1120599999	
24	CHLD11124A	ICAL	AA	1P10206.24R	PESTDI.MET	1	1	1	0	1120599999	
25	CHLD21124A	ICAL	AA	1P10206.25R	PESTDI.MET	1	1	1	0	1120599999	
26	CHLD31124A	ICAL	AA	1P10206.26R	PESTDI.MET	1	1	1	0	1120599999	
27	CHLD41124A	ICAL	AA	1P10206.27R	PESTDI.MET	1	1	1	0	1120599999	
28	CHLD51124A	ICAL	AA	1P10206.28R	PESTDI.MET	1	1	1	0	1120599999	
29	AR1631124A	ICAL	AA	1P10206.29R	PESTDI.MET	1	1	1	0	1120599999	
30	AR2131124B	ICAL	AA	1P10206.30R	PESTDI.MET	1	1	1	0	1120599999	
31	AR32X1124B	ICAL	AA	1P10206.31R	PESTDI.MET	1	1	1	0	1120599999	
32	AR4231124B	ICAL	AA	1P10206.32R	PESTDI.MET	1	1	1	0	1120599999	
33	AR4831124A	ICAL	AA	1P10206.33R	PESTDI.MET	1	1	1	0	1120599999	
34	AR5431124A	ICAL	AA	1P10206.34R	PESTDI.MET	1	1	1	0	1120599999	
35	MDLAX1124A	ICAL	AA	1P10206.35R	PESTD.MET	1	1	1	0	1120599999	
36	MDLEX1124B	ICAL	AA	1P10206.36R	PESTD.MET	1	1	1	0	1120599999	
37	MDTXX1124B	ICAL	AA	1P10206.37R	PESTD.MET	1	1	1	0	1120599999	
38	MDCHX1124A	ICAL	AA	1P10206.38R	PESTD.MET	1	1	1	0	1120599999	
39	6337207FG DF5	T	AD	1P10206.39R	PESTD.MET	60	20	1	0	111930027A	01363
40	6337207FG DF2.	T	AE	1P10206.40R	PESTD.MET	60	8	1	0	111930027A	01363
41	~~BLANKA 7/20/11FG~~	BLK	AB	1P10206.41R	PESTD.MET	60	4	1	0	112010008A	01363
42	~~LCSA 7/20/11FG~~	LCS	AB	1P10206.42R	PESTD.MET	60	4	1	0	112010008A	01363
43	6337205FG DF5	T	AD	1P10206.43R	PESTD.MET	60	20	1	0	111930027A	01363
44	6339374FG DF5	T	AD	1P10206.44R	PESTD.MET	60.1	20	1	0	111930027A	01363
45	6339386FG DF10	T	AD	1P10206.45R	PESTD.MET	60.2	40	1	0	111930027A	01363
46	~~508AM1124E~~	CCAL	CA	1P10206.46R	PESTD.MET	1	1	1	0	1120699999	
47	EVALX1124A	PEM	TQ	1P10206.47R	EVALD.MET	1	1	1	0	1120599999	
48	MIXA31124C	CCAL	OW	1P10206.48R	PESTD.MET	1	1	1	0	1120599999	
49	MIXE31124B	CCAL	VG	1P10206.49R	PESTD.MET	1	1	1	0	1120599999	
50	TOXA31124C	CCAL	FQ	1P10206.50R	PESTDI.MET	1	1	1	0	1120599999	

not used

OMEGA 8/1/11

USF03 1981

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\cp10\C-Drive\CPWIN\DATA1\1P10206.seq
Chromatography Directory: \\cp10\C-Drive\CPWIN\data1
Method Directory: \\cp10\C-Drive\CPWIN\data1
Number of Entries: 53

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51	6337205FG DF10	T	AE	1P10206.51R	PESTD.MET	60	40	1	0	111930027A	01363
52	EVALX1124A	PEM	TR	1P10206.52R	EVALD.MET	1	1	1	0	1120599999	
53	MIXA31124C	CCAL	OX	1P10206.53R	PESTD.MET	1	1	1	0	1120599999	

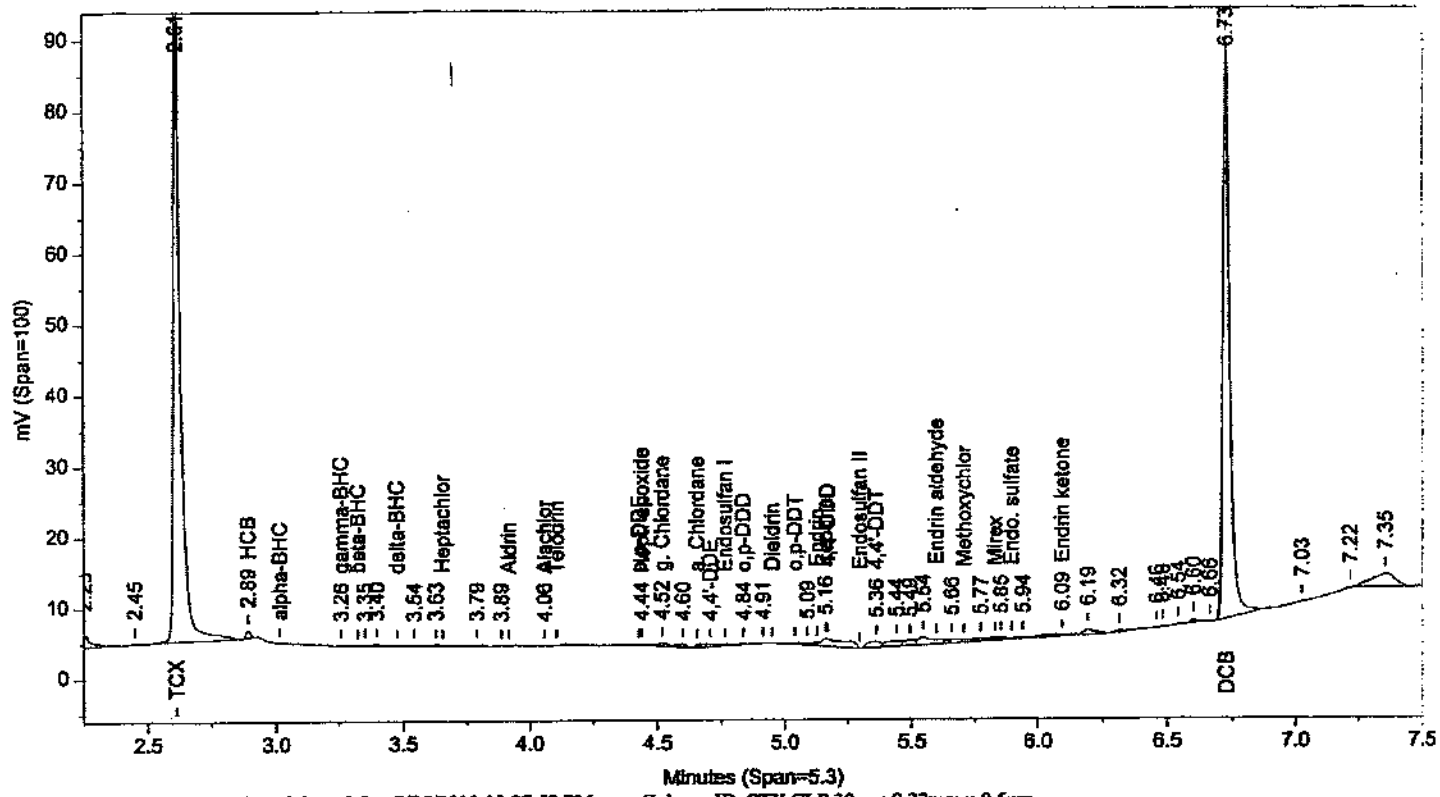
USF83 1982

Set-up by: Mary Beth Date: 7/26/11

7/26/11

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10206.04R



Instrument ID: CP10--H9191A Injected On: 7/25/2011 10:27:52 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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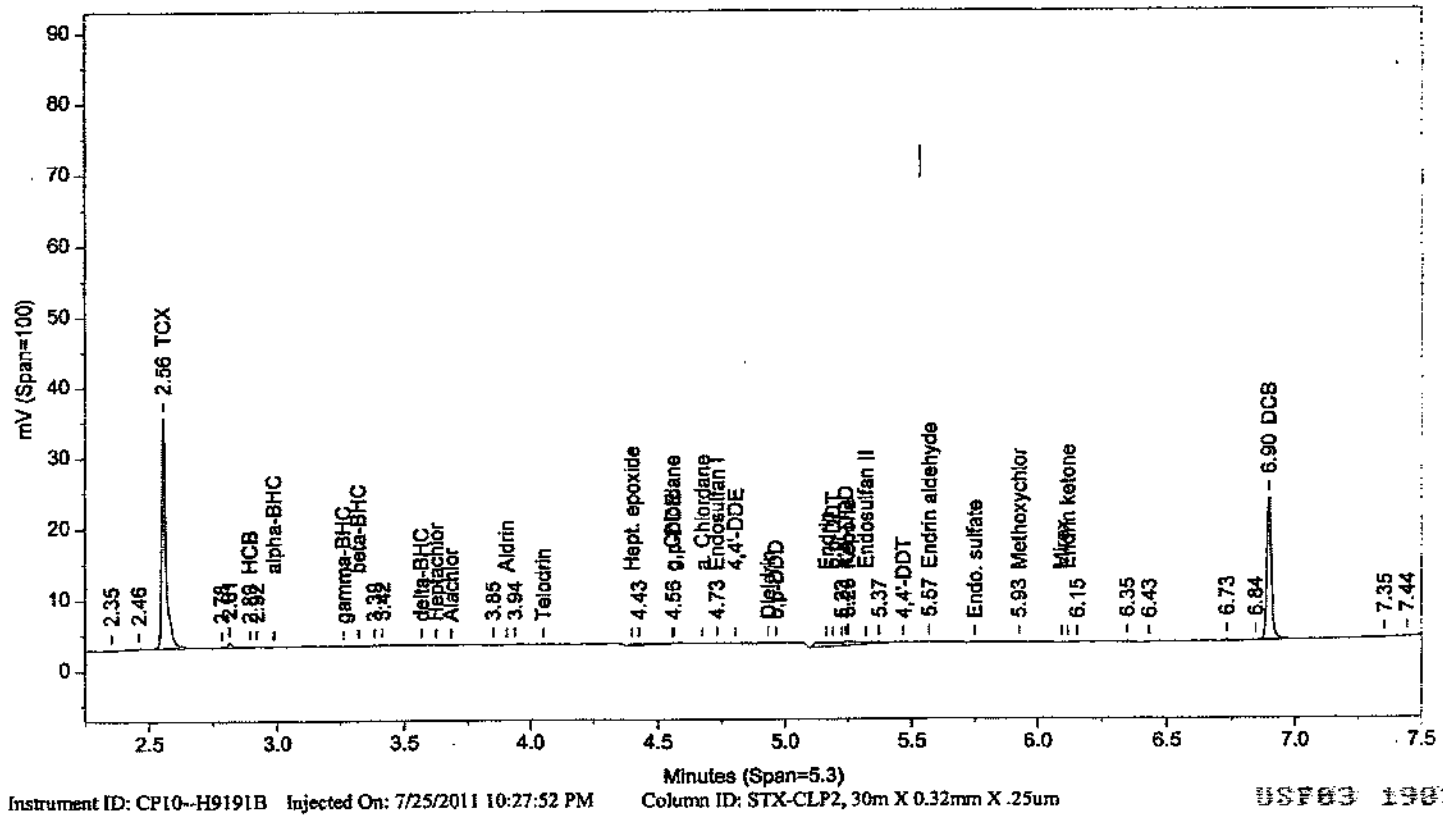

Instrument ID: CP10--H9191B Injected On: 7/25/2011 10:27:52 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USPCI 1993

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 1000
Analyst: 0856

Dilution Factor: 10

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.612	101235	.203	TCX	2.556	32691	.19	TCX
2.892	1052	.002	HCB	2.894	48	.	HCB
3.26	186	.	gamma-BHC	.	0	.	gamma-BHC
4.059	57	.	Alachlor	.	0	.	Alachlor
4.44	108	.	Hept. epoxide	.	0	.	Hept. epoxide
4.518	478	.001	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.56	44	.	o,p-DDE
.	0	.	Endosulfan I	4.73	76	.	Endosulfan I
4.837	140	.	o,p-DDD	.	0	.	o,p-DDD
5.161	1122	.006	Kepone	5.248	629	.008	Kepone
5.361	895	.002	4,4'-DDT	.	0	.	4,4'-DDT
.	0	.	Endrin aldehyde	5.569	213	.001	Endrin aldehyde
.	0	.	Methoxychlor	5.926	54	.001	Methoxychlor
6.094	224	.	Endrin ketone	.	0	.	Endrin ketone
6.727	81755	.199	DCB	6.896	20187	.185	DCB

Files:
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Area File: C:\CPWIN\DATA1\1P10206B.04A
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Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10206.CAL
Calibration File B: C:\CPWIN\DATA1\1P10206B.CAL
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10X REPLOTS

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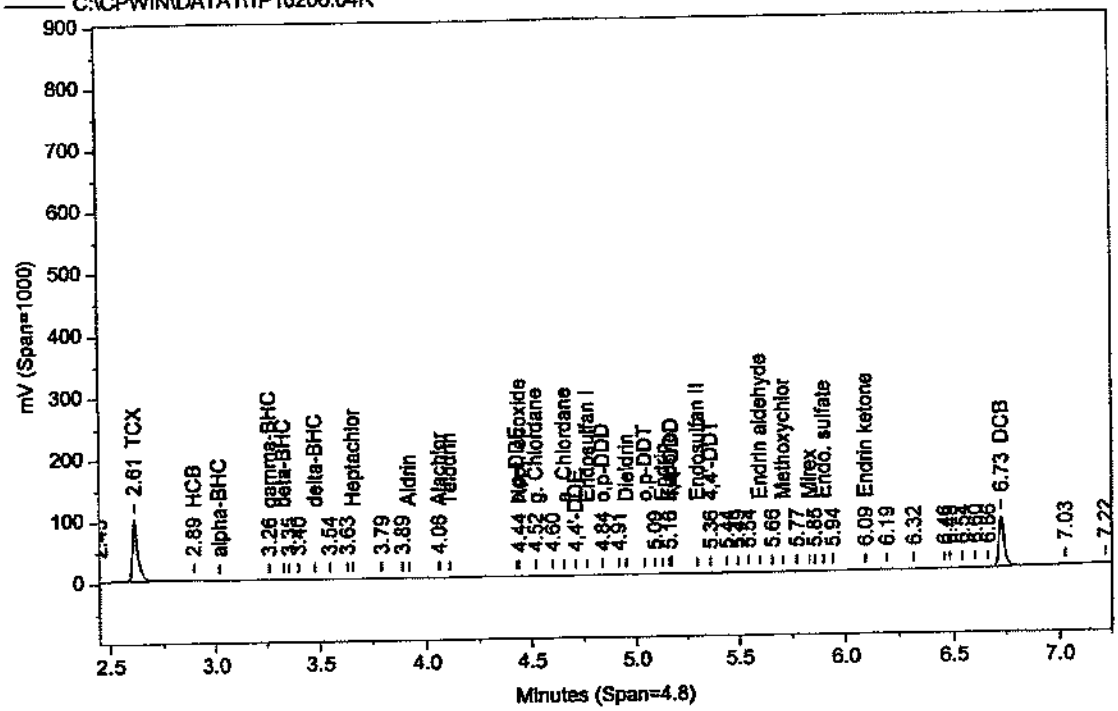

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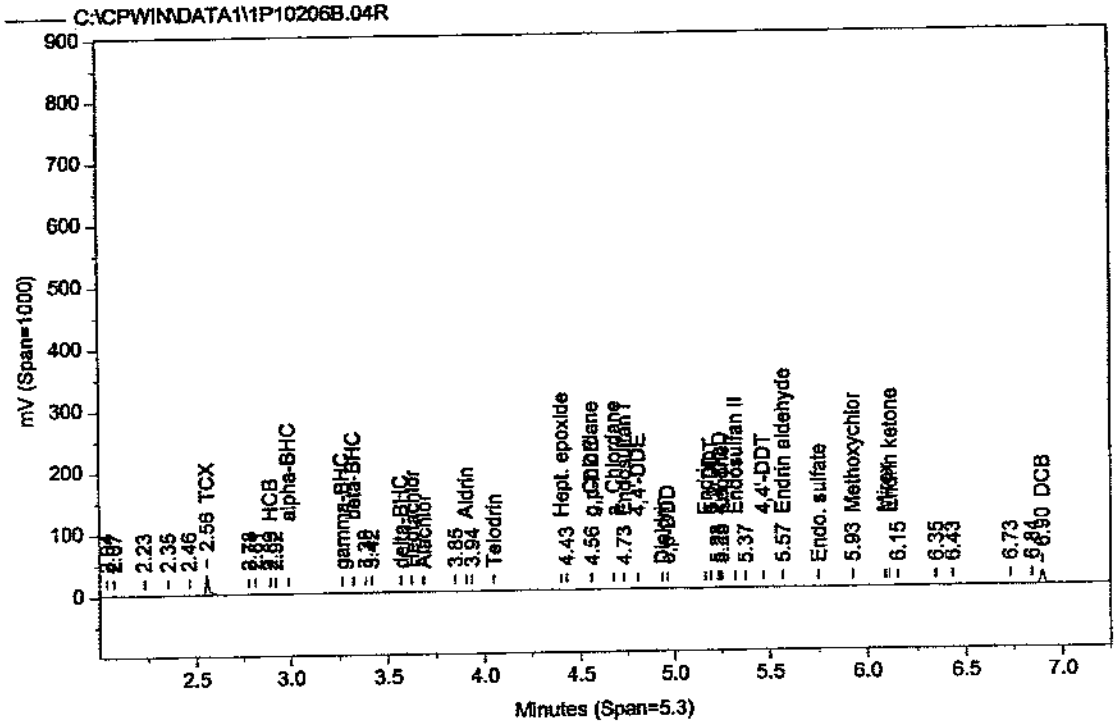

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P10206.05R

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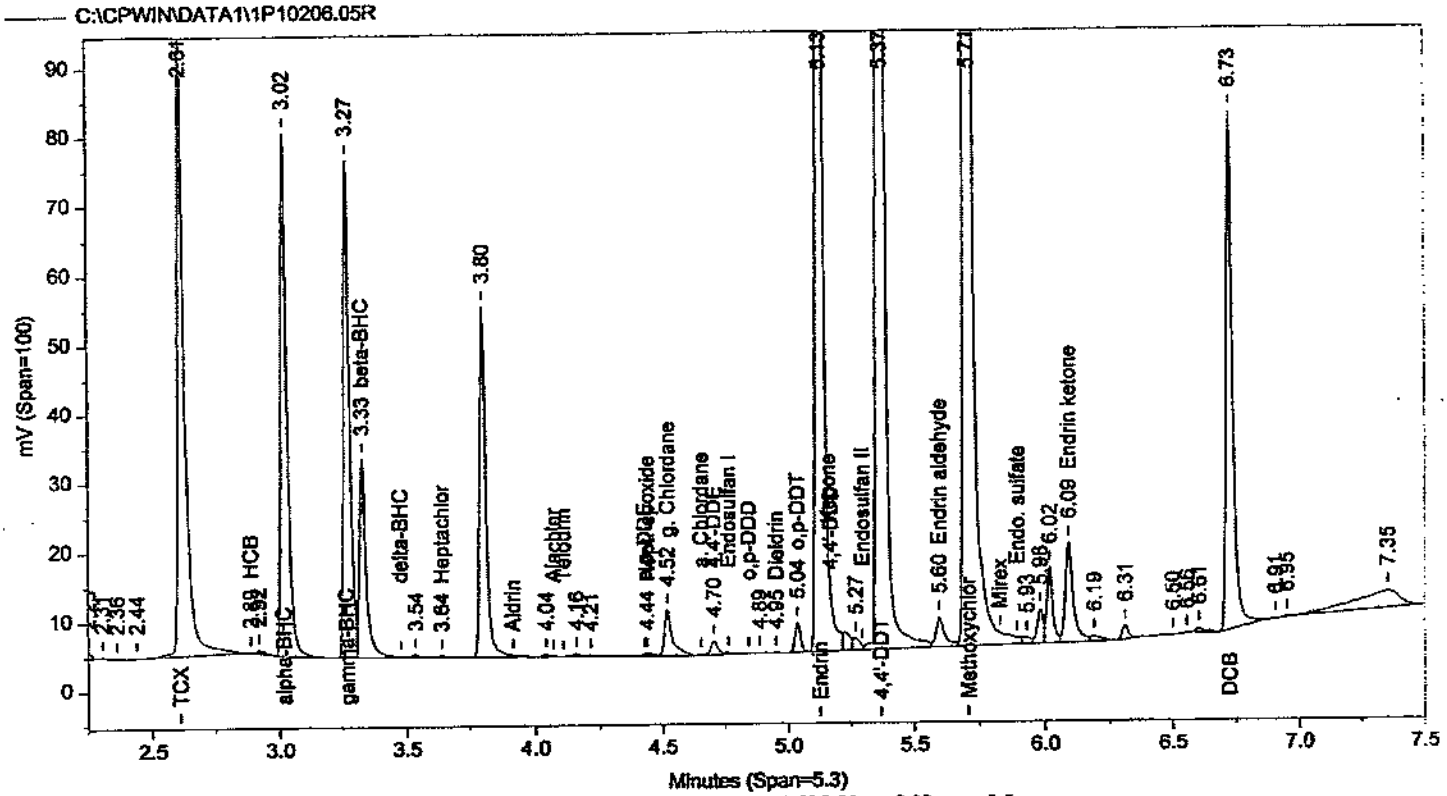
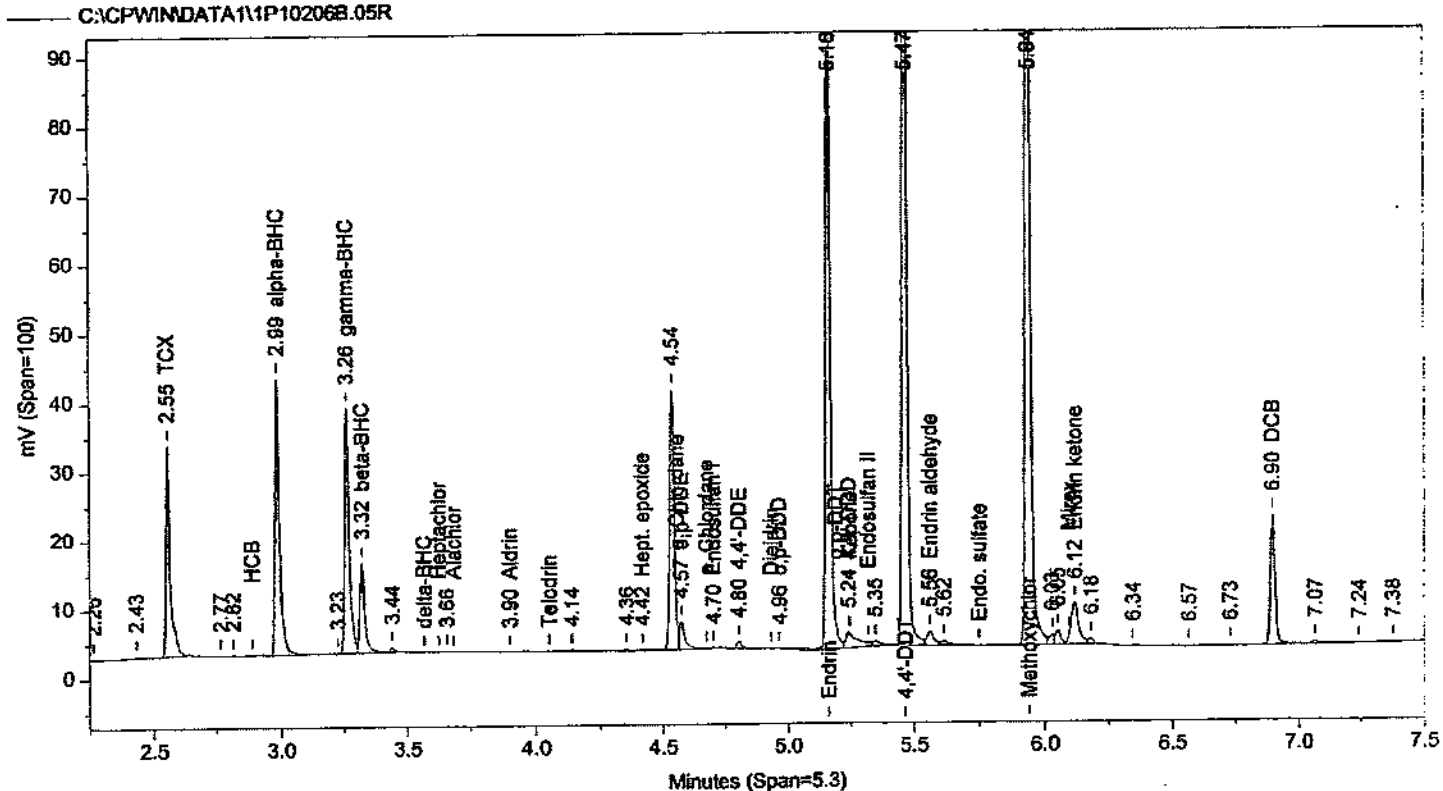


Instrument ID: CP10–H9191A Injected On: 7/25/2011 10:43:15 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

%DDT BD= 0.4797908

File: C:\CPWIN\DATA1\1P10206B.05R %ENDRIN BD= 7.17759

C:\CPWIN\DATA1\1P10206B.05R



Instrument ID: CP10–H9191B Injected On: 7/25/2011 10:43:15 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

%DDT BD= 2.271644

%ENDRIN BD= 7.704823

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

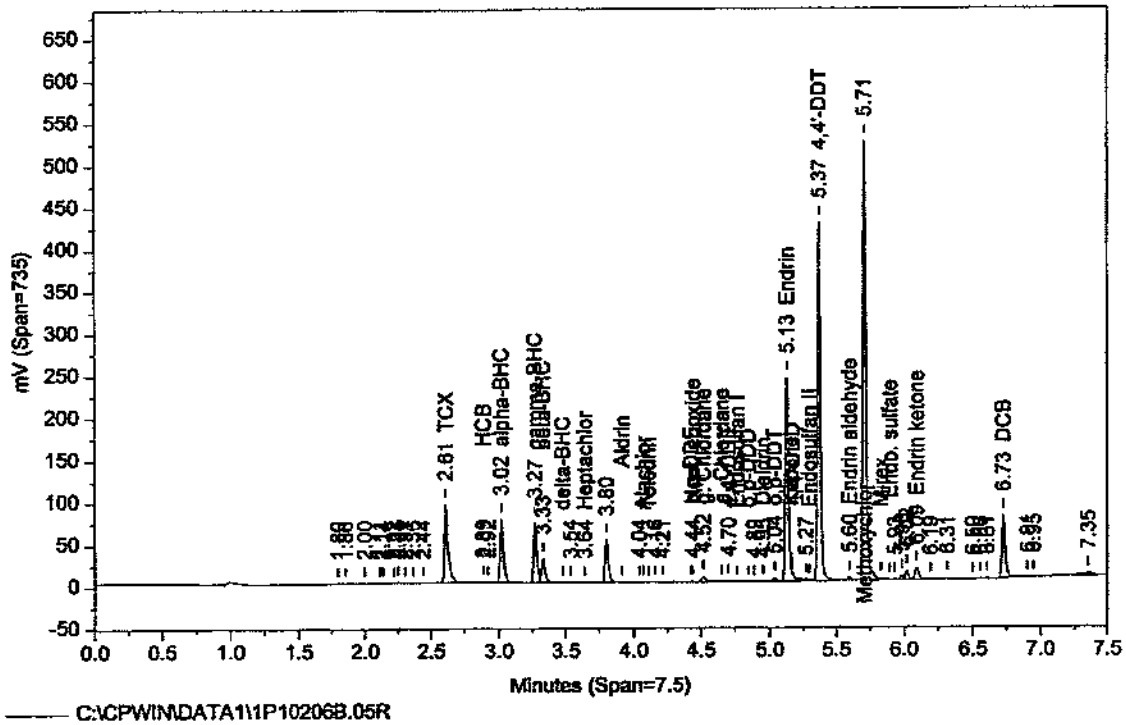
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.611	94160	18.879	TCX	2.555	31455	18.266	TCX
2.89	106	.016	HCB	.	0	.	HCB
3.018	75830	10.8	alpha-BHC	2.987	40005	8.693	alpha-BHC
3.265	72459	9.403	gamma-BHC	3.262	36347	9.511	gamma-BHC
3.327	28653	7.758	beta-BHC	3.323	13121	7.432	beta-BHC
3.64	250	.034	Heptachlor	.	0	.	Heptachlor
.	0	.	Aldrin	3.902	39	.013	Aldrin
4.44	385	.058	Hept. epoxide	4.42	229	.084	Hept. epoxide
4.519	6615	.969	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.574	4012	2.397	o,p-DDE
.	0	.	Endosulfan I	4.702	141	.052	Endosulfan I
4.705	2052	.345	4,4'-DDE	4.804	1016	.388	4,4'-DDE
4.953	87	.013	Dieldrin	.	0	.	Dieldrin
. .	0	.	o,p-DDD	4.964	88	.06	o,p-DDD
5.037	4308	1.182	o,p-DDT	.	0	.	o,p-DDT
5.127	242300	41.145	Endrin	5.162	96571	38.711	Endrin
.	0	.	4,4'-DDD	5.243	2313	1.163	4,4'-DDD
5.37	425534	92.205	4,4'-DDT	5.466	143202	83.05	4,4'-DDT
5.597	4251	.953	Endrin aldehyde	5.562	2004	1.192	Endrin aldehyde
5.708	525562	232.541	Methoxychlor	5.94	137574	199.202	Methoxychlor
6.092	14485	2.457	Endrin ketone	6.116	6057	3.083	Endrin ketone
6.726	75166	18.289	DCB	6.895	18968	17.385	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10206.05A
Area File: C:\CPWIN\DATA1\1P10206B.05A
Method A: C:\CPWIN\DATA1\EVALD.MET
Method B: C:\CPWIN\DATA1\EVALDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10206.CAL
Calibration File B: C:\CPWIN\DATA1\1P10206B.CAL
Format A: C:\CPWIN\DATA1\EVALD.FMTA
Format B: C:\CPWIN\DATA1\EVALD.FMTB
Area File Created On: 7/26/2011 9:00:16 AM
File Reported On: 7/26/2011 at 9:00:26 AM

REPLOTS

C:\CPWIN\DATA1\1P10206.05R



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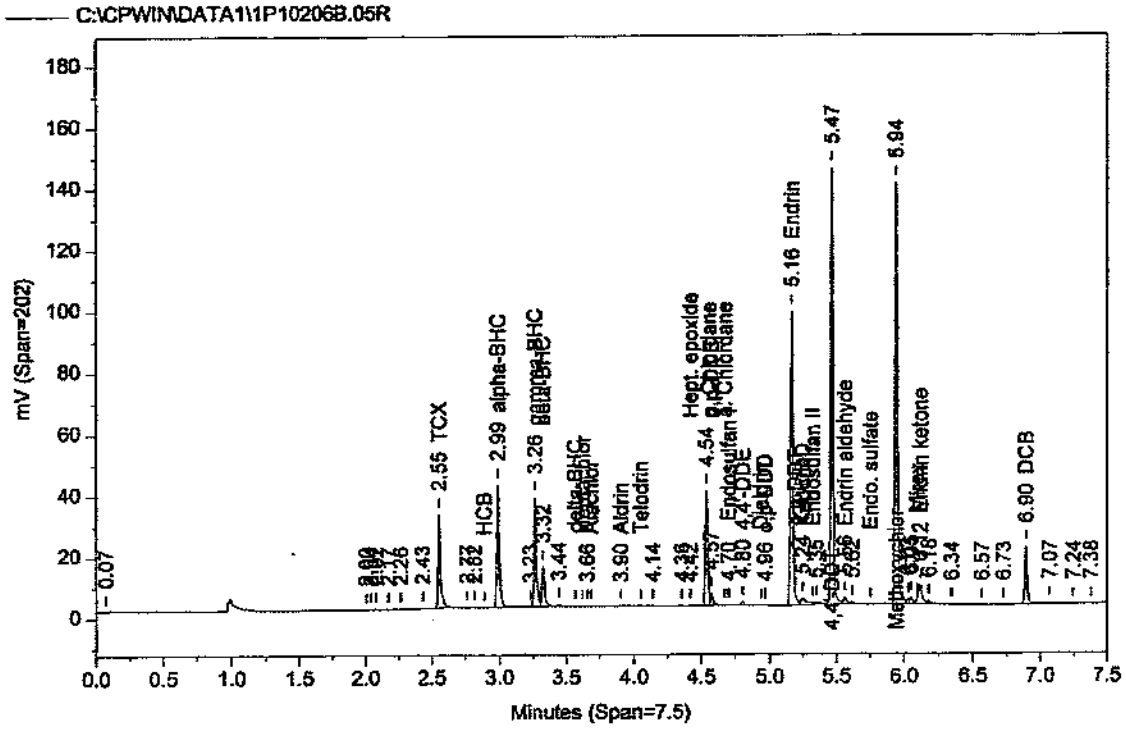
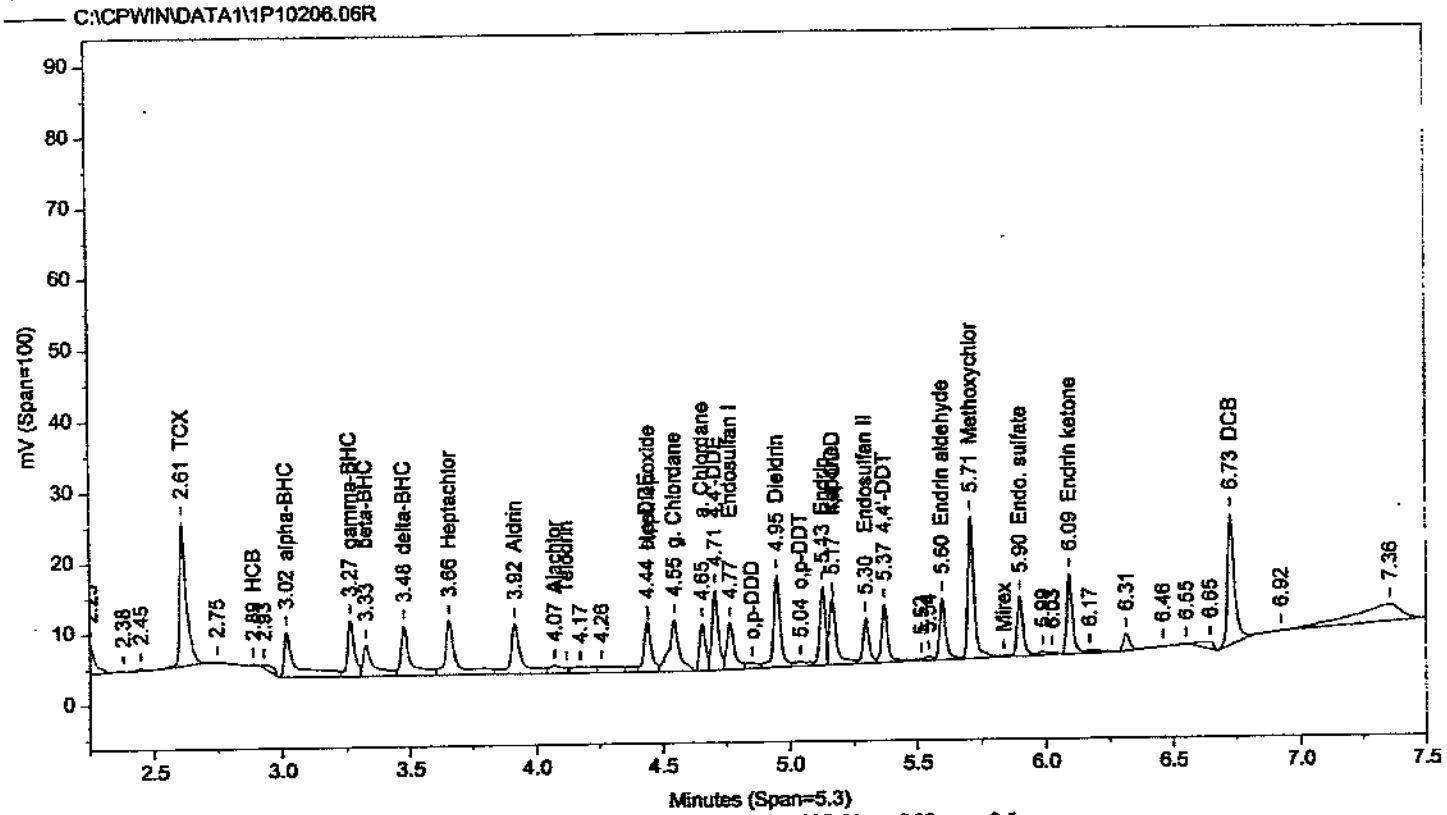


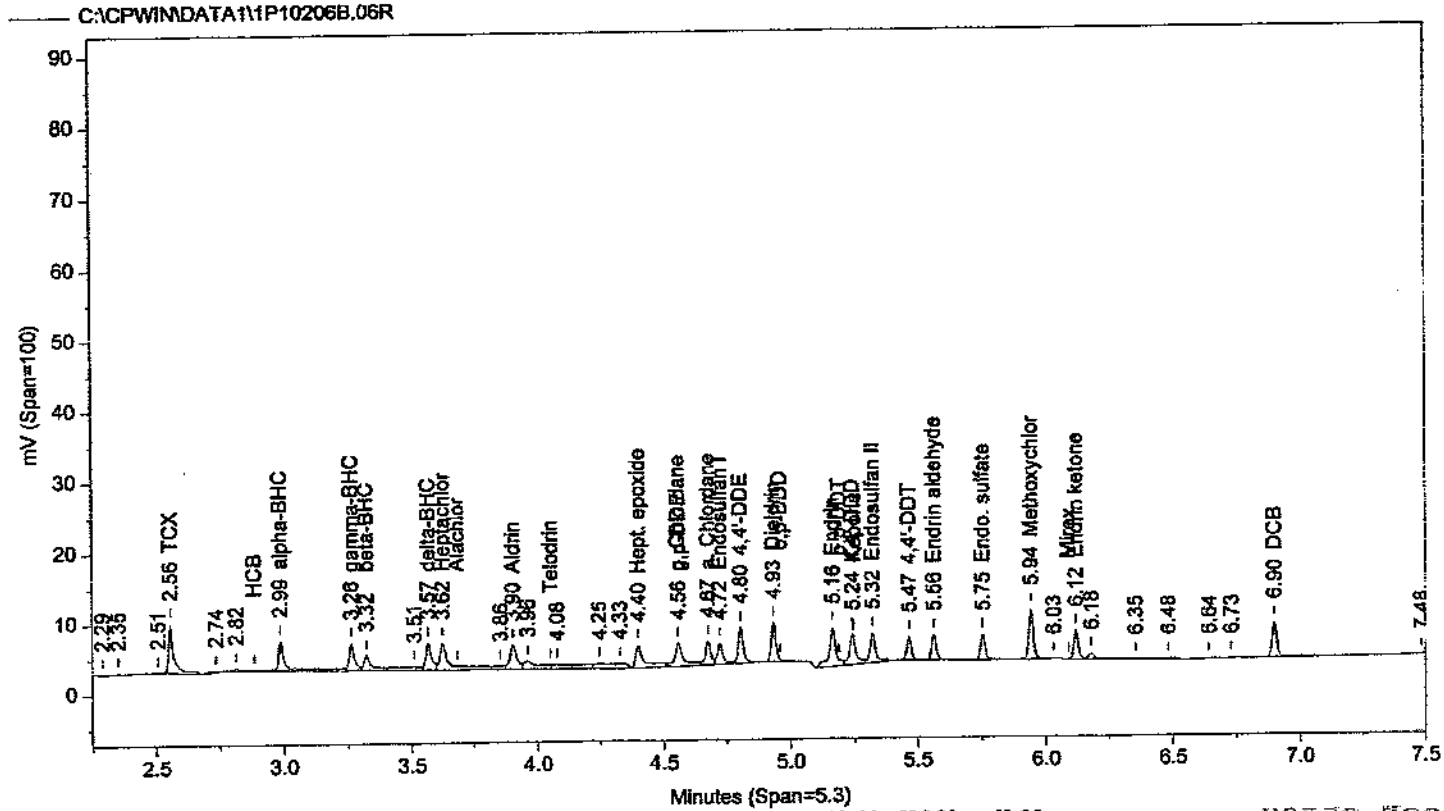
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10206.06R



Instrument ID: CP10--H9191A Injected On: 7/25/2011 10:58:48 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10206B.06R



Instrument ID: CP10--H9191B Injected On: 7/25/2011 10:58:48 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

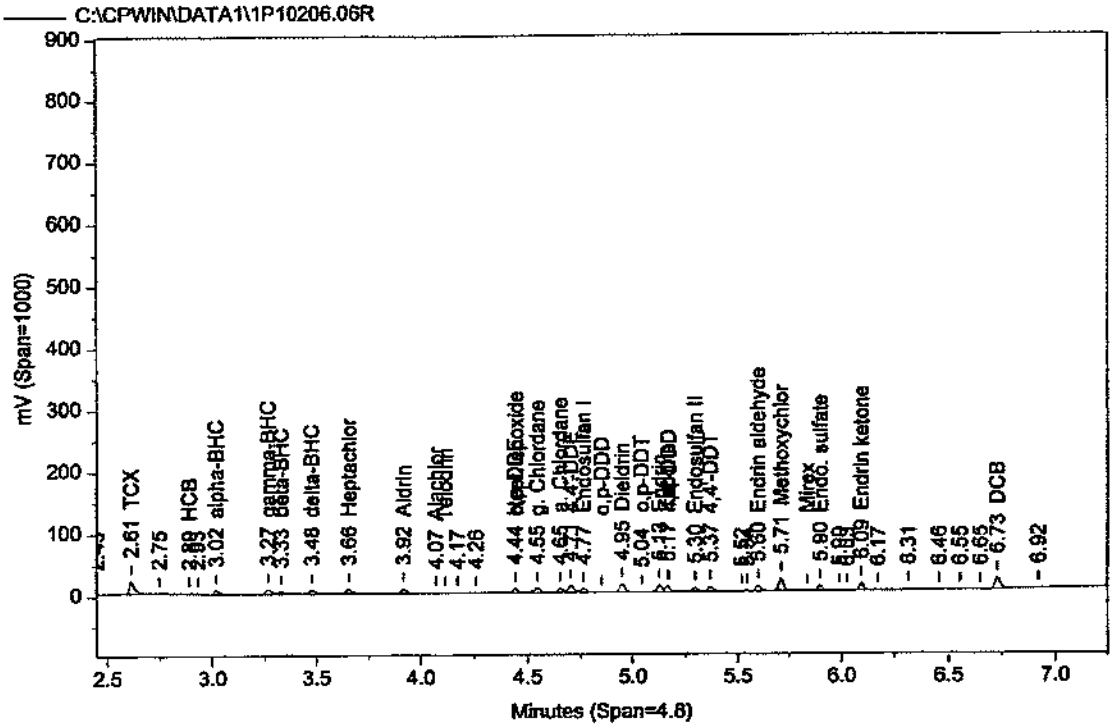
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

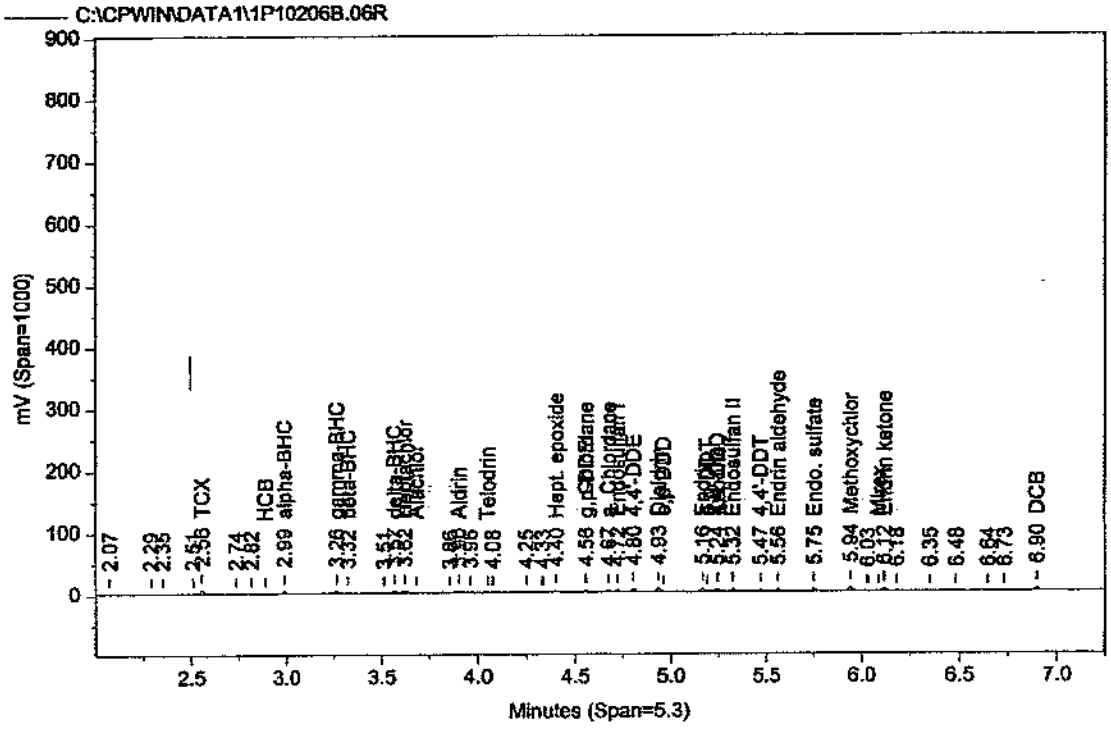
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.612	20410	3.197	TCX	2.557	6945	3.013	TCX
2.89	226	.032	HCB	.	0	.	HCB
3.019	6340	.746	alpha-BHC	2.989	4313	.884	alpha-BHC
3.266	7888	1.035	gamma-BHC	3.264	3810	.836	gamma-BHC
3.328	4388	1.21	beta-BHC	3.325	2102	1.108	beta-BHC
3.478	6998	.968	delta-BHC	3.567	3804	.878	delta-BHC
3.655	7707	1.132	Heptachlor	3.624	3765	1.023	Heptachlor
3.918	7084	1.048	Aldrin	3.905	3487	1.038	Aldrin
4.072	1151	.	Alachlor	.	0	.	Alachlor
.	0	.	Hept. epoxide	4.402	3214	1.129	Hept. epoxide
4.441	7115	1.91	o,p-DDE / hept epox	4.558	3346	1.708	o,p-DDE / gone
4.546	7289	1.123	g. Chlordane	.	0	.	g. Chlordane
4.654	6623	1.068	a. Chlordane	4.675	3345	1.069	a. Chlordane
4.706	11380	1.961	4,4'-DDE	4.805	5140	1.776	4,4'-DDB
4.766	6692	1.16	Endosulfan I	4.722	2990	1.065	Endosulfan I
4.95	13046	2.078	Dieldrin	4.935	5640	1.791	Dieldrin
5.042	700	.2	o,p-DDT	.	0	.	o,p-DDT
5.129	11189	2.161	Endrin	5.165	5576	2.175	Endrin
5.166	9423	6.331	Kepone / 44 DDD	.	0	.	Kepone
.	0	.	4,4'-DDD	5.242	4378	1.961	4,4'-DDD
5.296	6382	1.683	Endosulfan II	5.322	4234	1.895	Endosulfan II
5.37	8143	1.938	4,4'-DDT	5.468	3357	1.83	4,4'-DDT
5.597	8753	2.141	Endrin aldehyde	5.562	3613	2.061	Endrin aldehyde
5.709	20321	9.792	Methoxychlor	5.942	7158	10.115	Methoxychlor
5.899	8456	2.056	Endo. sulfate	5.753	3629	2.098	Endo. sulfate
6.094	11364	2.082	Endrin ketone	6.119	4155	2.1	Endrin ketone
6.728	18749	4.88	DCB	6.897	4981	5.02	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10206.06A
Area File: C:\CPWIN\DATA1\1P10206B.06A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/25/2011 11:06:26 PM
File Reported On: 7/25/2011 at 11:06:39 PM

USF83 1998

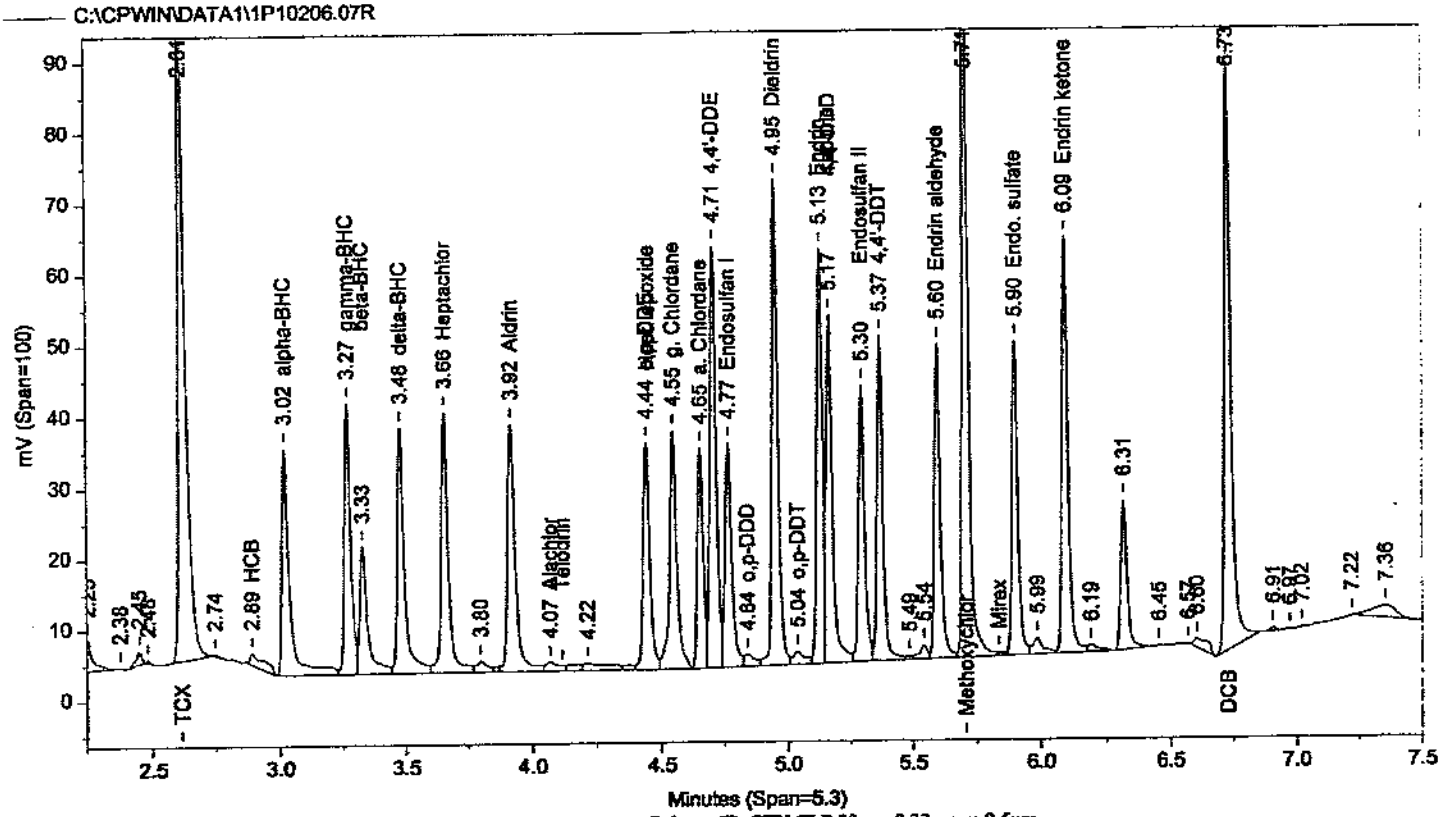
10X REPLOTS


C:\CPWIN\DATA1\1P10206.06R
mV (Span=1000)
Minutes (Span=4.8)
2.61 TCX
2.75
3.02 alpha-BHC
3.48 delta-BHC
3.66 Heptachlor
3.92 Aldrin
4.55 g. Chlordane
4.77 Endosulfan I
4.95 Dieldrin
5.30 Endosulfan II
5.37 4,4'-DDT
5.71 Methoxychlor
5.80 Endo. sulfate
6.09 Endrin ketone
6.17
8.31
8.46
8.55
6.73 DCB
6.92


C:\CPWIN\DATA1\1P10206B.06R
mV (Span=1000)
Minutes (Span=5.3)
2.07
2.56 TCX
2.99 alpha-BHC
4.08 Telodrin
4.30 Hept. epoxide
4.80 4,4'-DDE
4.93 Dieldrin
5.32 Endosulfan II
5.47 4,4'-DDT
5.56 Endrin aldehyde
5.75 Endo. sulfate
5.94 Methoxychlor
6.35
6.48
6.64
6.90 DCB

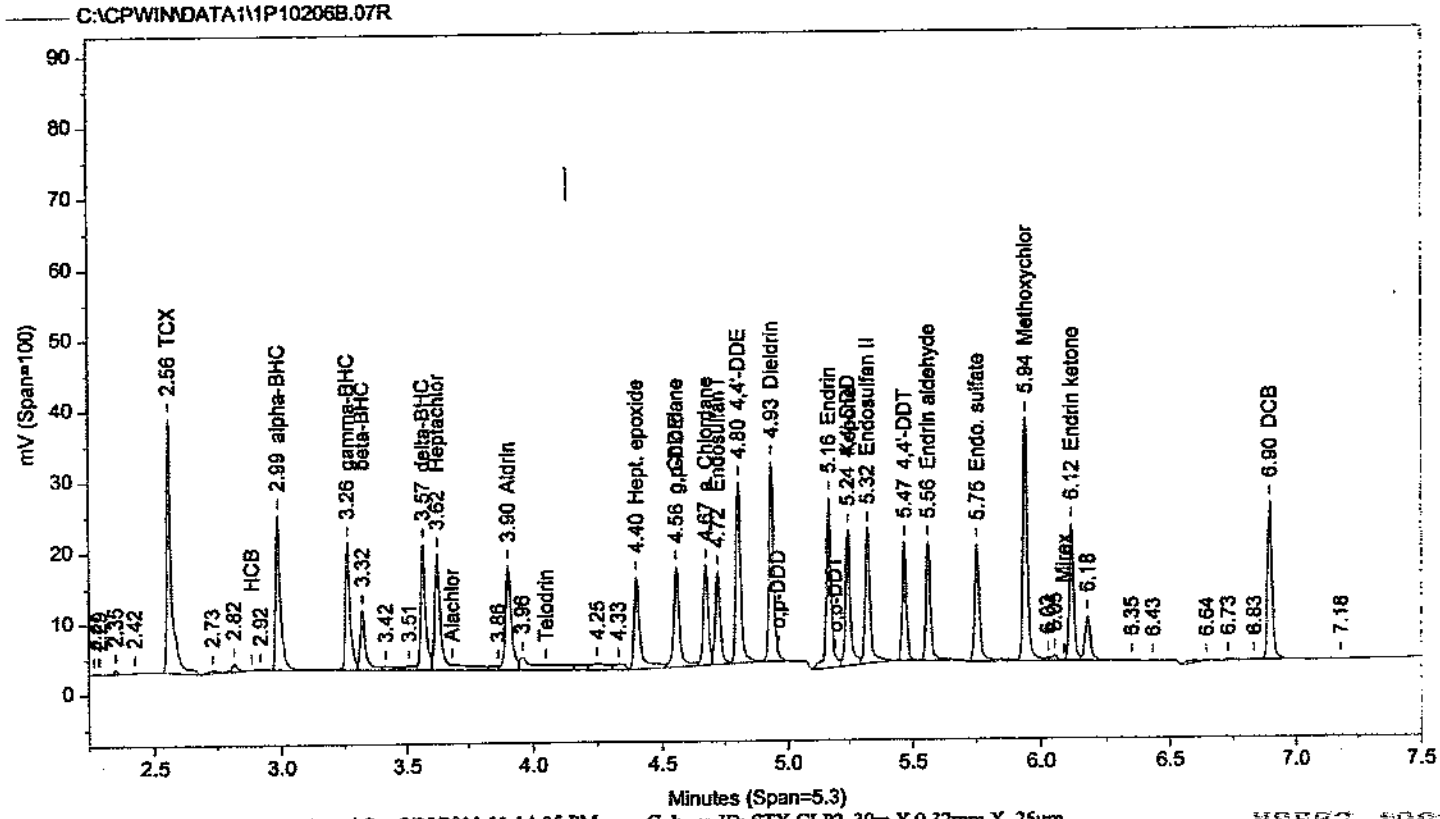
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10206.07R



Instrument ID: CP10--H9191A Injected On: 7/25/2011 11:14:05 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10206B.07R



Instrument ID: CP10--H9191B Injected On: 7/25/2011 11:14:05 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02
Calibration Type: External

Area Reject: 0
Quantiation: Height

Sample Weight: 1
Analyst: 0856

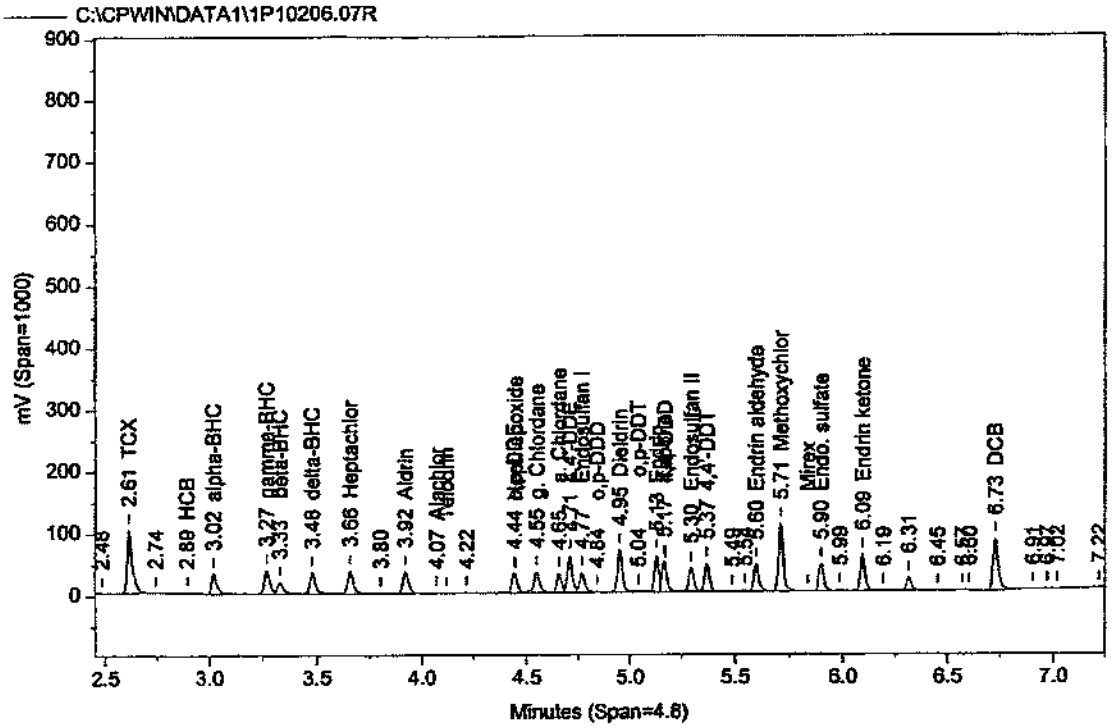
Dilution Factor: 1

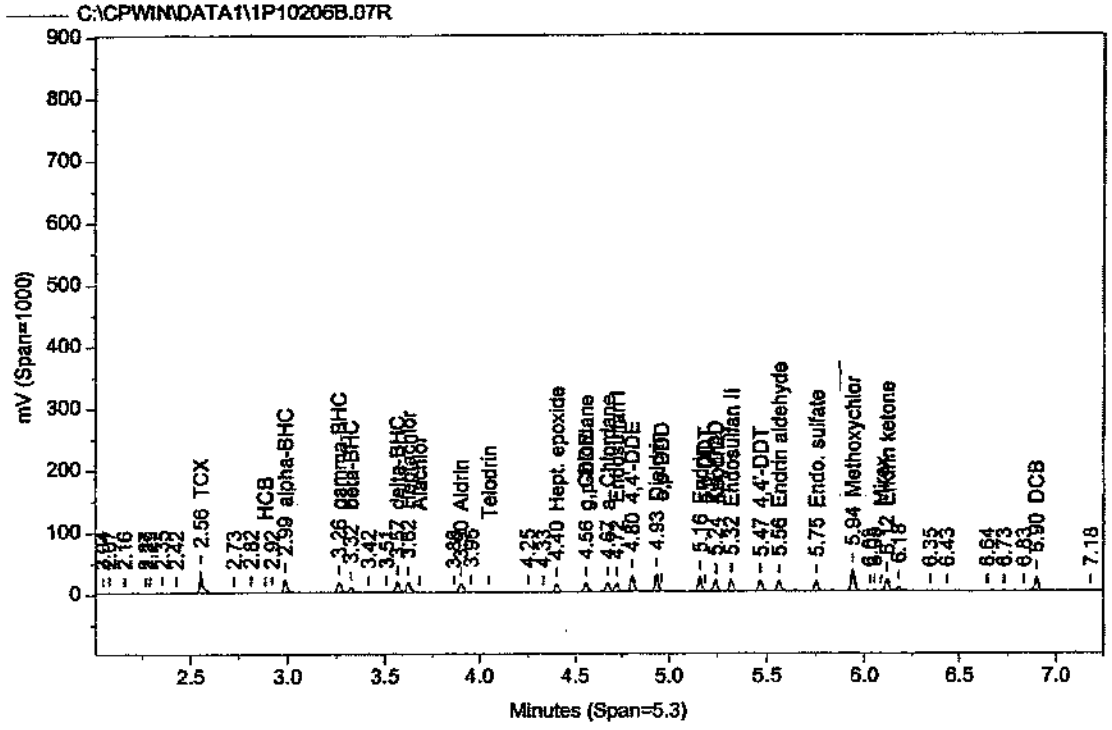
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.612	101995	16.884	TCX	2.556	35978	16.378	TCX
2.892	1677	.306	HCB	.	0	.	HCB
3.019	32123	3.937	alpha-BHC	2.988	22238	4.565	alpha-BHC
3.266	38335	4.952	gamma-BHC	3.263	17980	4.005	gamma-BHC
3.328	18200	4.877	beta-BHC	3.324	8502	4.417	beta-BHC
3.478	35081	4.818	delta-BHC	3.566	17799	4.139	delta-BHC
3.655	36904	5.281	Heptachlor	3.624	16436	4.416	Heptachlor
3.918	35280	5.11	Aldrin	3.904	14841	4.358	Aldrin
4.07	1281	22.148	Alachlor	.	0	.	Alachlor
.	0	.	Hept. epoxide	4.401	13290	4.655	Hept. epoxide
4.442	32391	8.813	o,p-DDE / hept epox	4.558	14290	7.663	o,p-DDE / g Mid
4.547	33697	5.108	g. Chlordane	.	0	.	g. Chlordane
4.654	31175	5.001	a. Chlordane	4.674	14337	4.581	a. Chlordane
4.706	59435	10.244	4,4'-DDE	4.804	25717	9.057	4,4'-DDE
4.766	31727	5.36	Endosulfan I	4.723	13162	4.704	Endosulfan I
4.841	1706	.678	o,p-DDD	.	0	.	o,p-DDD
4.95	68532	10.748	Dieldrin	4.934	28278	9.194	Dieldrin
5.04	1840	.655	o,p-DDT	.	0	.	o,p-DDT
5.129	58987	11.181	Endrin	5.164	24140	9.485	Endrin
5.165	49439	34.767	Kepone / 44DDD	.	0	.	Kepone
.	0	.	4,4'-DDD	5.242	19414	8.857	4,4'-DDD
5.297	38933	10.226	Endosulfan II	5.321	19379	8.879	Endosulfan II
5.37	45731	10.744	4,4'-DDT	5.467	16752	9.266	4,4'-DDT
5.596	44314	10.64	Endrin aldehyde	5.561	16909	9.77	Endrin aldehyde
5.708	110484	53.063	Methoxychlor	5.942	34998	50.23	Methoxychlor
5.898	44836	10.752	Endo. sulfate	5.753	16626	9.68	Endo. sulfate
6.094	58763	10.65	Endrin ketone	6.119	19544	9.941	Endrin ketone
6.728	83186	21.23	DCB	6.896	22333	22.148	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10206.07A
Area File: C:\CPWIN\DATA1\1P10206B.07A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/25/2011 11:21:42 PM
File Reported On: 7/25/2011 at 11:21:55 PM

USF83 1993

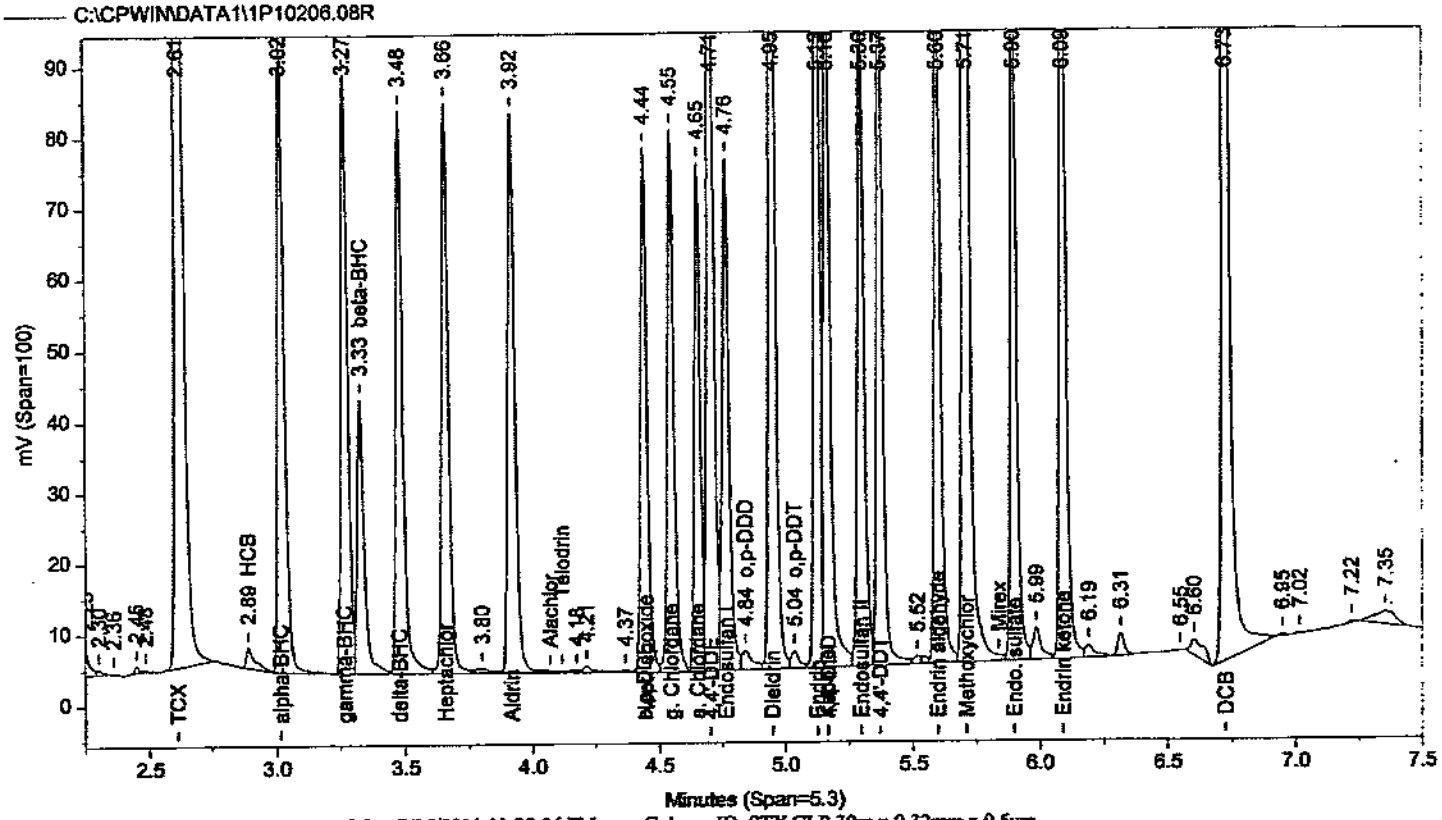
10X REPLOTS


C:\CPWIN\DATA1\1P10206.07R
mV (Span=1000)
Minutes (Span=4.8)
2.61 TCX
2.89 HCB
3.02 alpha-BHC
3.66 Heptachlor
3.92 Aldrin
4.95 Dieldrin
5.37 4,4'-DDT
5.60 Endrin aldehyde
5.71 Methoxychlor
5.90 Endo. sulfate
6.09 Endrin ketone
6.73 DCB


C:\CPWIN\DATA1\1P10206B.07R
mV (Span=1000)
Minutes (Span=5.3)
2.56 TCX
2.82 HCB
2.99 alpha-BHC
3.32 gamma-BHC
3.42 delta-BHC
3.82 Aldrin
4.25 Hept. epoxide
4.40 Endosulfan I
4.80 4,4'-DDE
4.93 Dieldrin
5.32 Endosulfan II
5.47 4,4'-DDT
5.56 Endrin aldehyde
5.75 Endo. sulfate
5.94 Methoxychlor
6.18 Endrin ketone
6.90 DCB
7.18

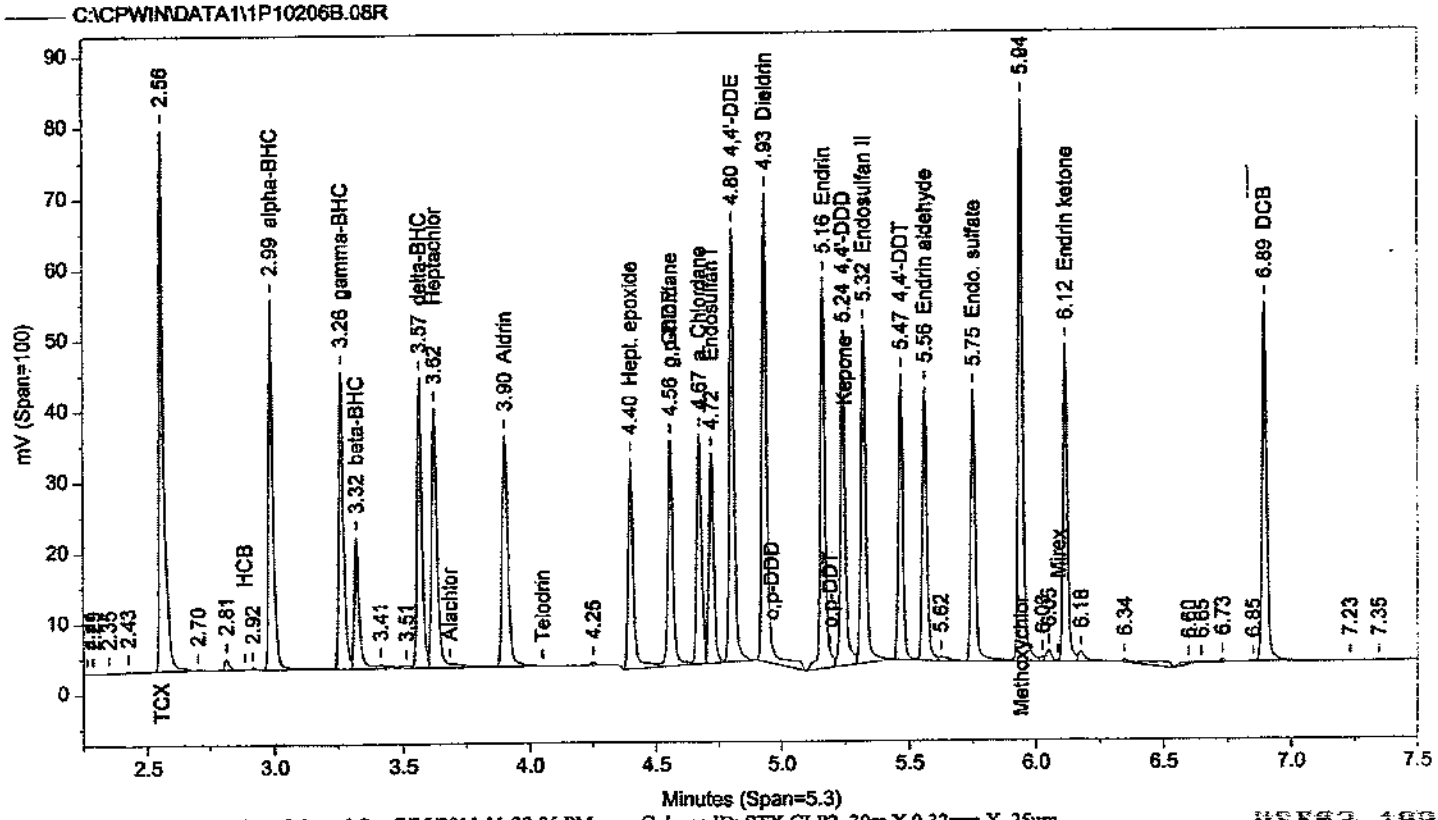
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10206.08R



Instrument ID: CP10–H9191A Injected On: 7/25/2011 11:29:06 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10206B.08R



Instrument ID: CP10–H9191B Injected On: 7/25/2011 11:29:06 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.612	224044	38.575	TCX	2.555	78742	37.466	TCX
2.891	2876	.69	HCB	.	0	.	HCB
3.018	93106	11.735	alpha-BHC	2.987	52703	10.858	alpha-BHC
3.265	85234	10.974	gamma-BHC	3.262	42682	9.783	gamma-BHC
3.328	38788	10.347	beta-BHC	3.323	18674	9.8	beta-BHC
3.478	80141	11.006	delta-BHC	3.566	41435	9.798	delta-BHC
3.655	80820	11.308	Heptachlor	3.623	36663	9.893	Heptachlor
3.918	79460	11.361	Aldrin	3.904	32745	9.666	Aldrin
.	0	.	Hept. epoxide	4.4	29797	10.423	Hept. epoxide
4.441	74327	17.657	o,p-DDE/Hept.epox	.	0	.	o,p-DDE
4.546	76451	11.42	g. Chlordane	4.557	32004	17.166	g. Chlordane
4.653	71642	11.429	a. Chlordane	4.674	32628	10.429	a. Chlordane
4.706	137146	23.398	4,4'-DDE	4.804	61237	21.64	4,4'-DDE
4.765	72837	11.996	Endosulfan I	4.721	30059	10.721	Endosulfan I
4.842	2726	1.409	o,p-DDD	.	0	.	o,p-DDD
4.949	156391	23.952	Dieldrin	4.933	66171	21.575	Dieldrin
5.036	2436	1.111	o,p-DDT	.	0	.	o,p-DDT
5.127	134552	24.663	Endrin	5.163	55223	21.628	Endrin
5.165	114450	76.277	Kepone/4,4'DDD	.	0	.	Kepone
.	0	.	4,4'-DDD	5.241	45211	20.818	4,4'-DDD
5.296	97711	25.547	Endosulfan II	5.32	47605	22.086	Endosulfan II
5.369	109835	25.061	4,4'-DDT	5.466	40241	22.313	4,4'-DDT
5.596	104232	24.38	Endrin aldehyde	5.56	38586	22.199	Endrin aldehyde
5.708	262508	122.523	Methoxychlor	5.941	79395	112.974	Methoxychlor
5.898	109400	25.533	Endo. sulfate	5.751	38889	22.489	Endo. sulfate
6.093	136436	24.044	Endrin ketone	6.117	44918	22.576	Endrin ketone
6.727	190818	47.617	DCB	6.895	51605	49.57	DCB

Files:
Area File: C:\CPWIN\DATA1\IP10206.08A
Area File: C:\CPWIN\DATA1\IP10206B.08A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/25/2011 11:36:44 PM
File Reported On: 7/25/2011 at 11:36:56 PM

USP83 1996

10X REPLOTS

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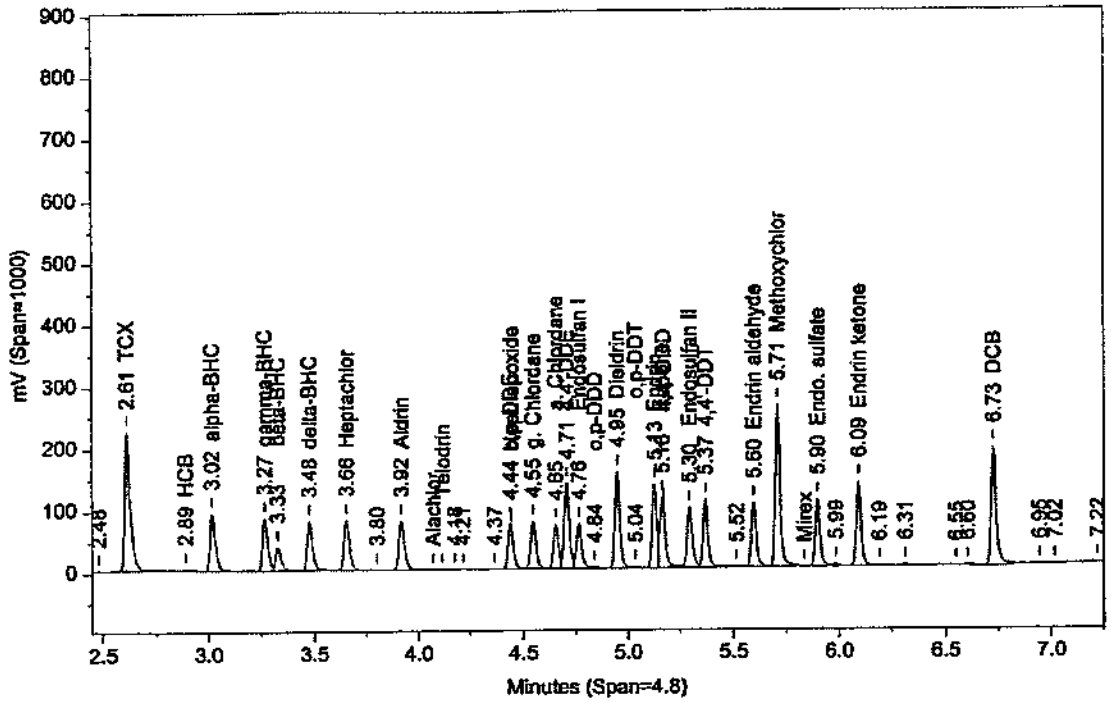
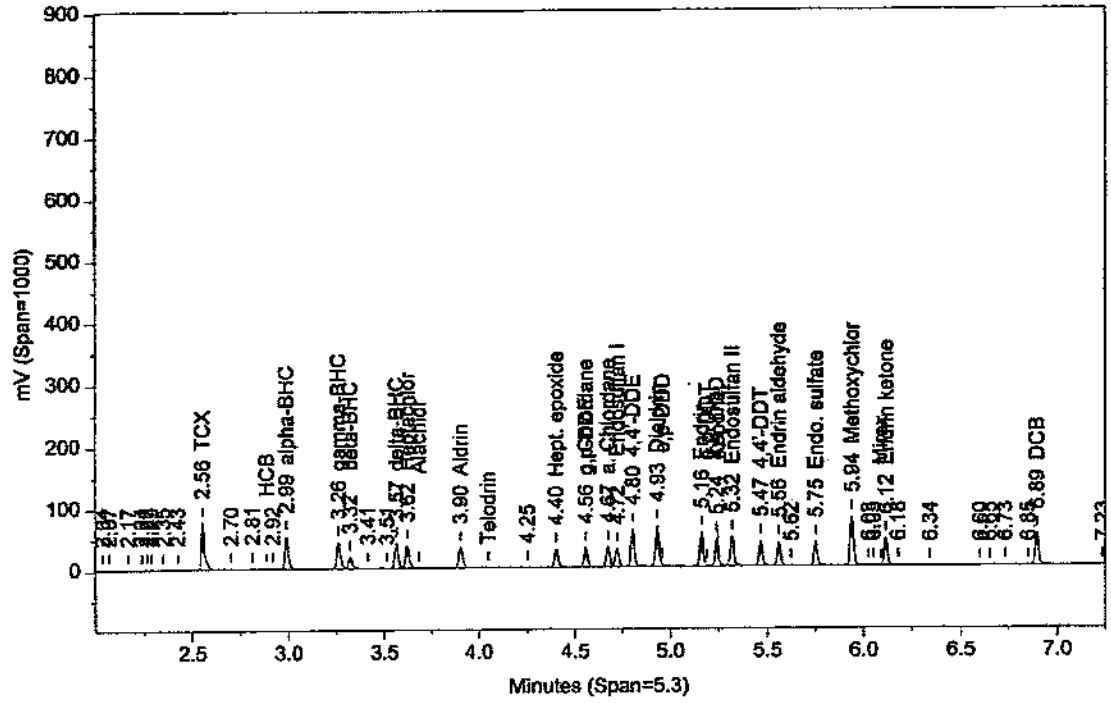
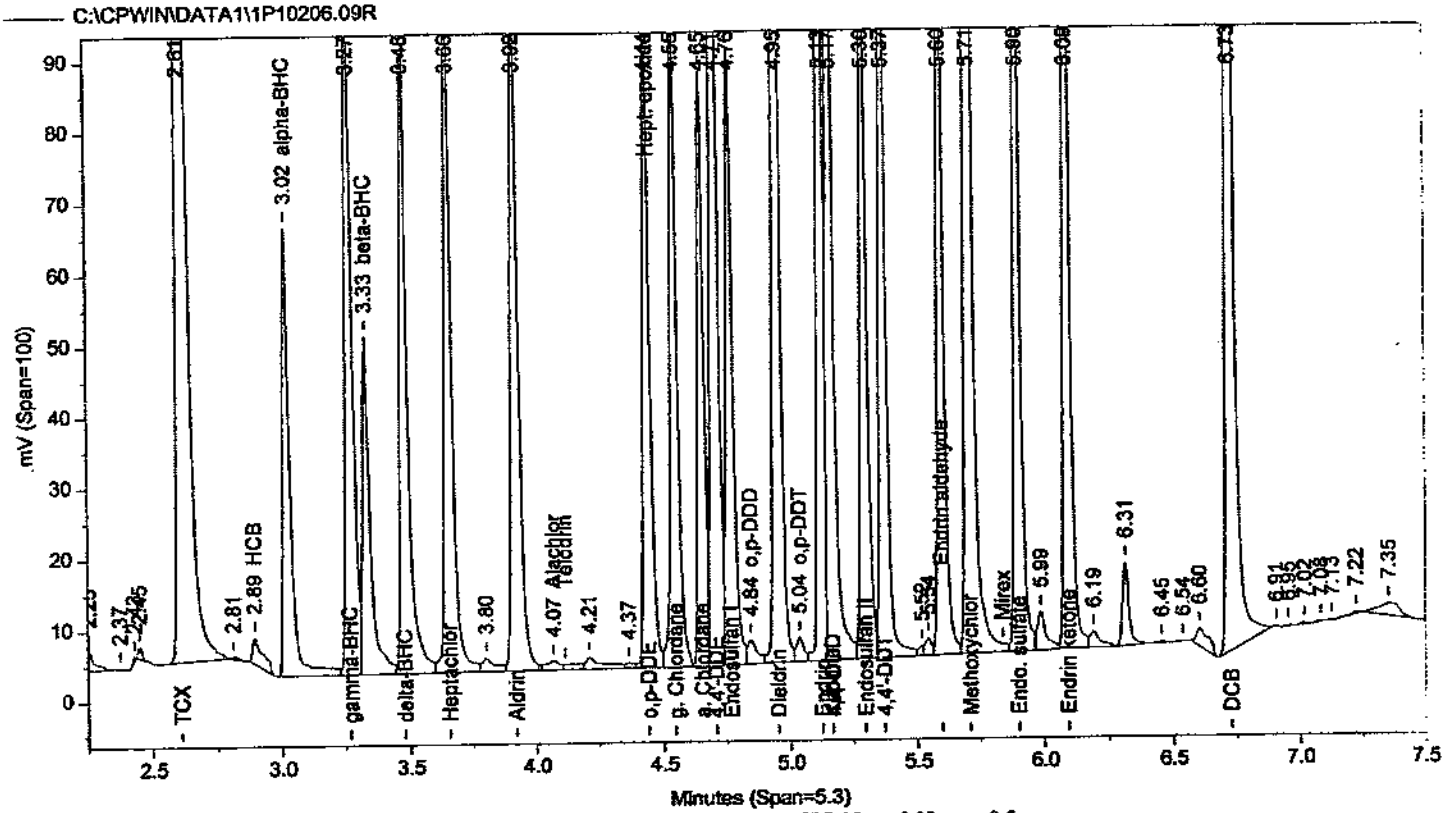


C:\CPWIN\DATA1\1P10206B.08R



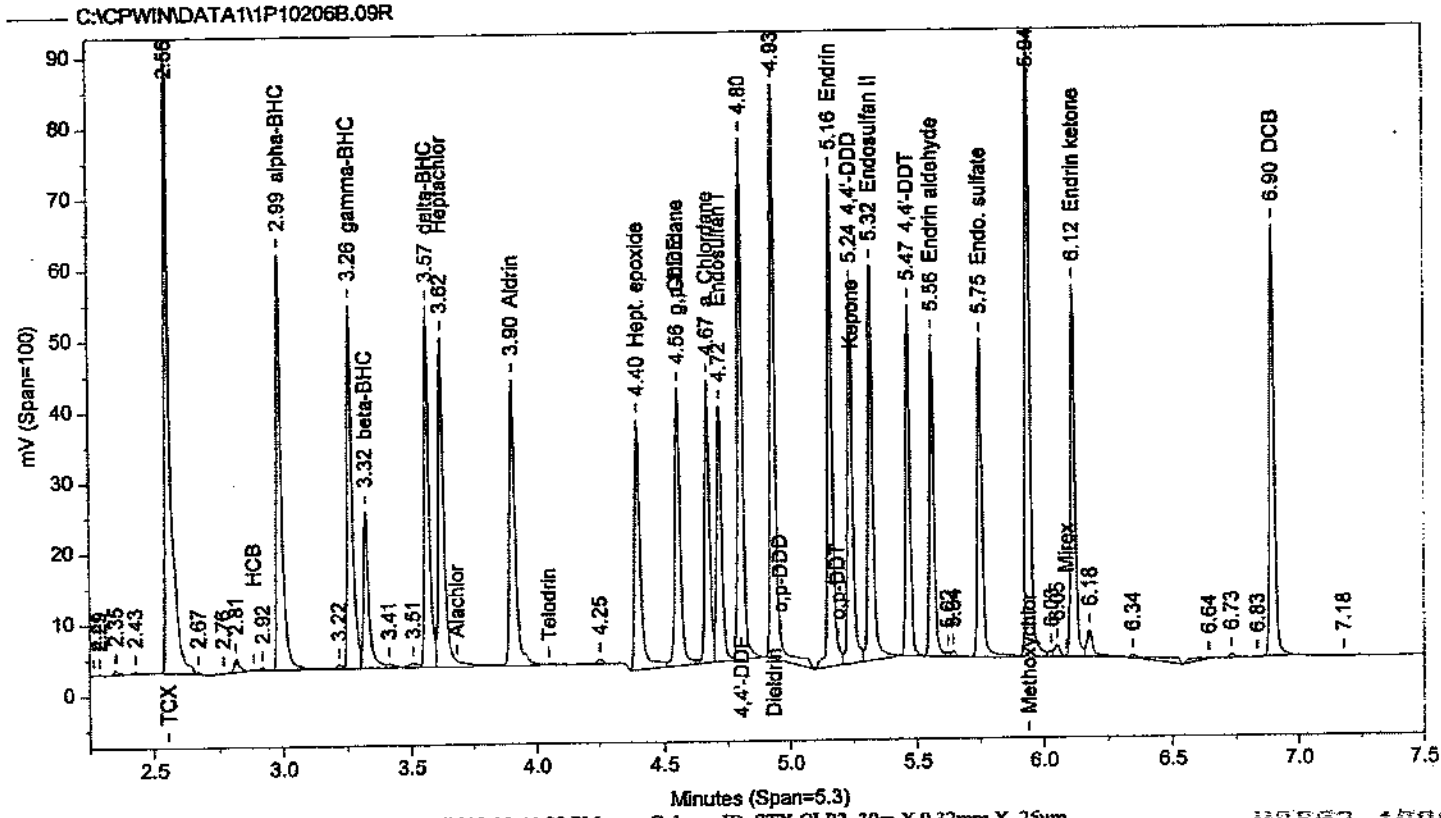
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10206.09R



Instrument ID: CP10--H9191A Injected On: 7/25/2011 11:44:39 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10206B.09R



Instrument ID: CP10--H9191B Injected On: 7/25/2011 11:44:39 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.614	277762	50.043	TCX	2.556	96747	48.696	TCX
2.893	3717	1.263	HCB	.	0	.	HCB
3.02	63057	8.02	alpha-BHC	2.988	60139	12.368	alpha-BHC
3.267	99764	12.751	gamma-BHC	3.263	51466	12.102	gamma-BHC
3.33	47573	12.602	beta-BHC	3.325	22568	11.904	beta-BHC
3.479	97049	13.233	delta-BHC	3.566	50954	12.286	delta-BHC
3.656	99516	13.581	Heptachlor	3.623	46526	12.644	Heptachlor
3.918	97084	13.585	Aldrin	3.904	40472	12.107	Aldrin
4.07	1310	15.671	Alachlor	.	0	.	Alachlor
.	0	.	Hept. epoxide	4.4	35379	12.256	Hept. epoxide
4.442	91385	18.473	o,p-DDE/Hept epox	.	0	.	o,p-DDE
4.546	93031	13.486	g. Chlordane	4.557	39276	20.797	g. Chlordane
4.654	83781	13.016	a. Chlordane	4.674	40020	12.663	a. Chlordane
4.706	168939	28.02	4,4'-DDE	4.804	73918	25.869	4,4'-DDE
4.765	87914	13.89	Endosulfan I	4.721	36315	12.763	Endosulfan I
4.843	3399	2.483	o,p-DDD	.	0	.	o,p-DDD
4.95	192797	28.296	Dieldrin	4.933	81240	26.278	Dieldrin
5.037	3394	2.169	o,p-DDT	.	0	.	o,p-DDT
5.128	171377	29.847	Endrin	5.163	69504	26.656	Endrin
5.166	141656	85.11	Kepone/44DDD	.	0	.	Kepone
.	0	.	4,4'-DDD	5.241	53377	24.486	4,4'-DDD
5.296	112456	28.116	Endosulfan II	5.32	55726	25.678	Endosulfan II
5.37	133765	29.036	4,4'-DDT	5.467	49543	26.988	4,4'-DDT
5.596	124302	27.784	Endrin aldehyde	5.56	45316	25.539	Endrin aldehyde
5.709	326063	145.449	Methoxychlor	5.941	95147	132.115	Methoxychlor
5.898	131368	29.096	Endo. sulfate	5.752	46071	25.954	Endo. sulfate
6.094	165501	27.969	Endrin ketone	6.118	52903	25.878	Endrin ketone
6.728	223044	53.634	DCB	6.896	60759	55.643	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10206.09A
Area File: C:\CPWIN\DATA1\1P10206B.09A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
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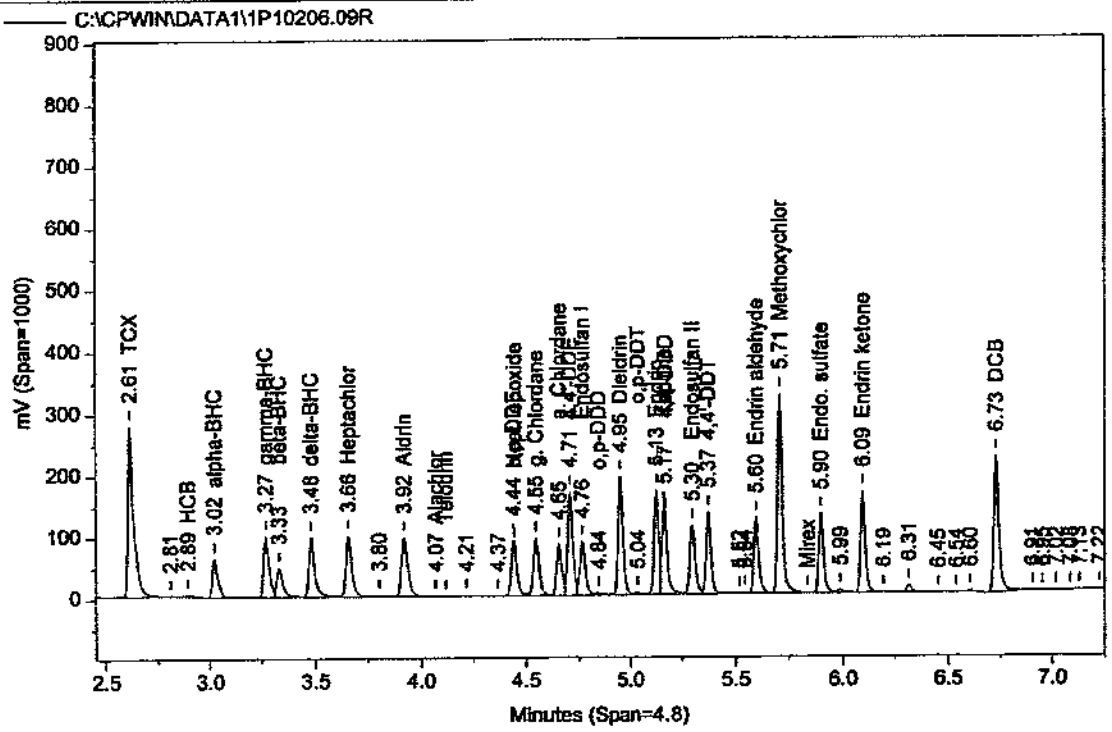
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/25/2011 11:52:18 PM
File Reported On: 7/25/2011 at 11:52:30 PM

USF83 1999

10X REPLOTS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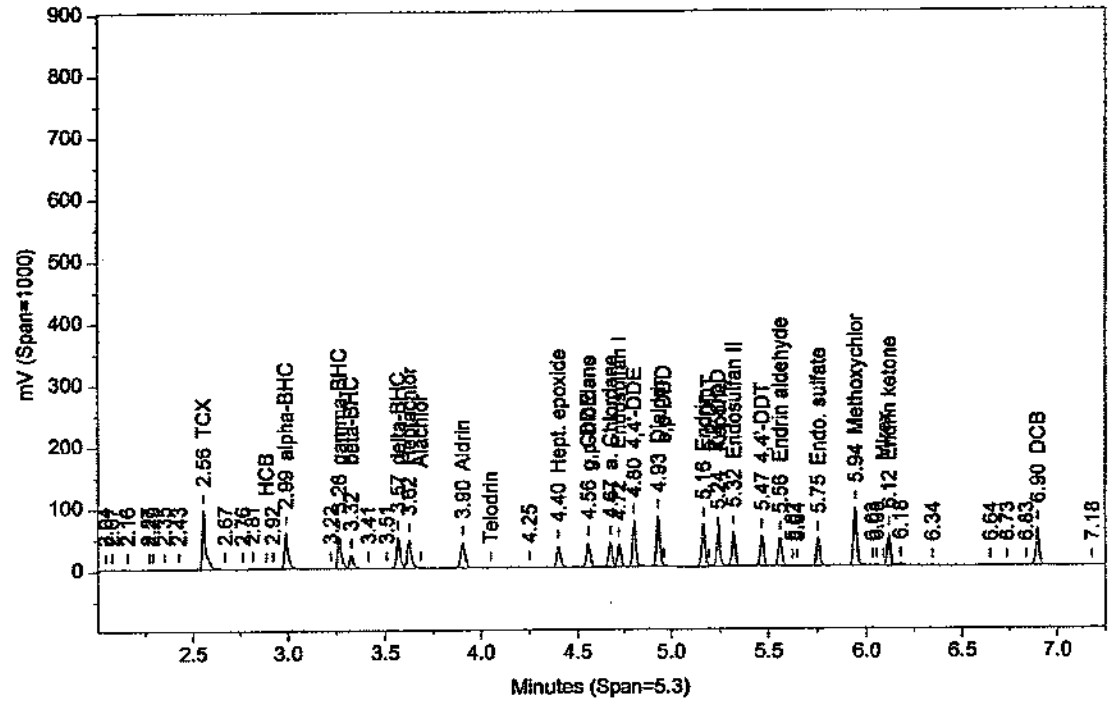
mV (Span=1000)
Minutes (Span=4.8)
2.61 TCX
2.89 HCB
3.02 alpha-BHC
3.27 gamma-BHC
3.33 beta-BHC
3.48 delta-BHC
3.66 Heptachlor
3.80
3.92 Aldrin
4.07 Telodrin
4.21
4.37
4.44 Hept. epoxide
4.55 g. Chlordane
4.65
4.71 a. Chlordane
4.76 Endosulfan I
4.84 o,p-DDE
4.95 Dieldrin
5.04 o,p-DDT
5.13 Endrin
5.30 Endosulfan II
5.37 4,4'-DDT
5.60 Endrin aldehyde
5.71 Methoxychlor
5.90 Endo. sulfate
5.99
6.09 Endrin ketone
6.19
6.31
6.45
6.54
6.60
6.73 DCB
6.81
6.92
7.06
7.13
7.22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mV (Span=1000)
Minutes (Span=5.3)
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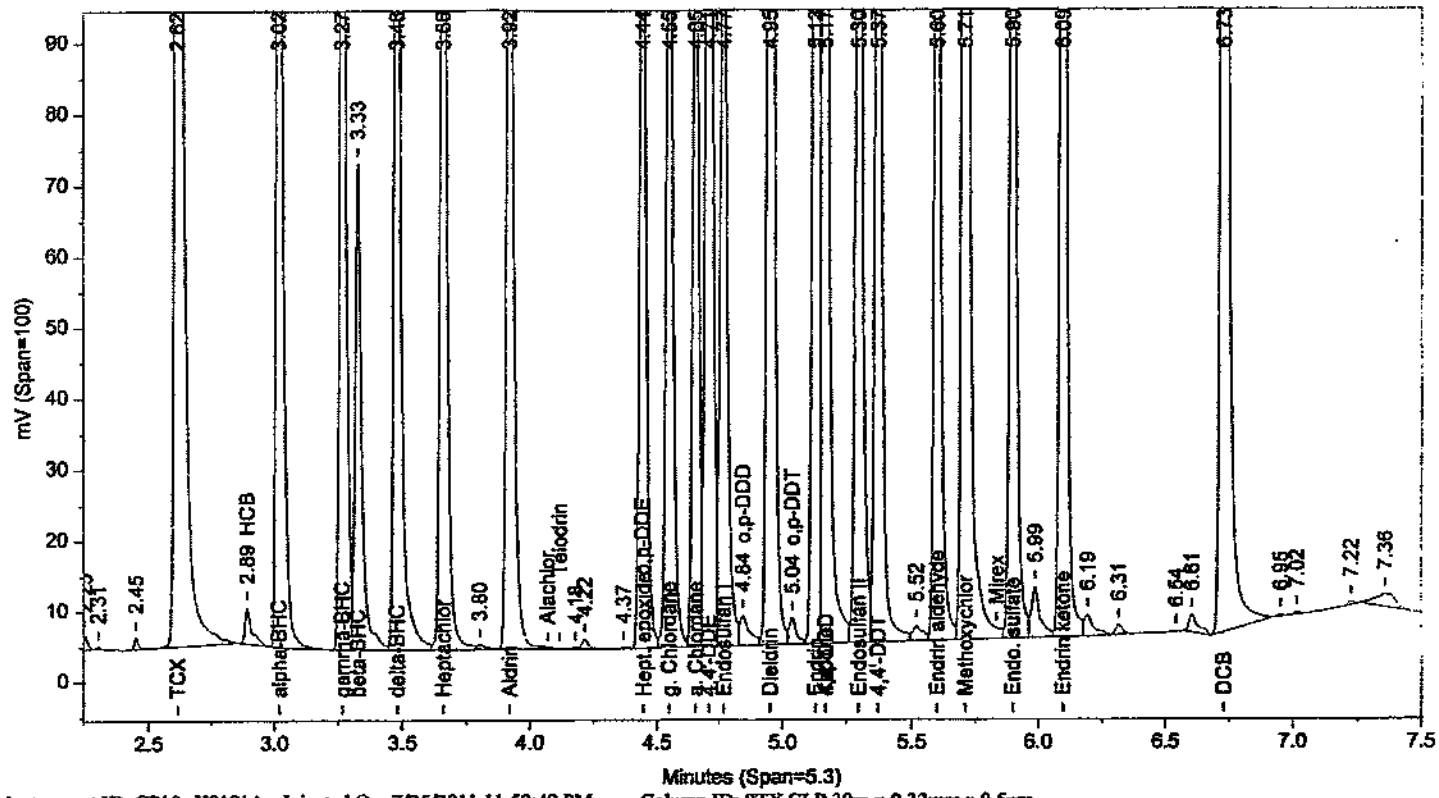
2.67
2.76
2.81 HCB
2.92
2.99 alpha-BHC
3.22
3.28 gamma-BHC
3.32 beta-BHC
3.41
3.51
3.57 delta-BHC
3.62 Heptachlor
3.90 Aldrin
Telodrin
4.25
4.40 Hept. epoxide
4.56 g. Chlordane
4.67
4.72 a. Chlordane
4.80 Endosulfan I
4.84 4,4'-DDE
4.93 Dieldrin
5.18 Endrin
5.24 Endosulfan II
5.32
5.47 4,4'-DDT
5.56 Endrin aldehyde
5.64
5.75 Endo. sulfate
5.94 Methoxychlor
6.08
6.12 Endrin ketone
6.18
6.34
6.64
6.73
6.83
6.90 DCB
7.18

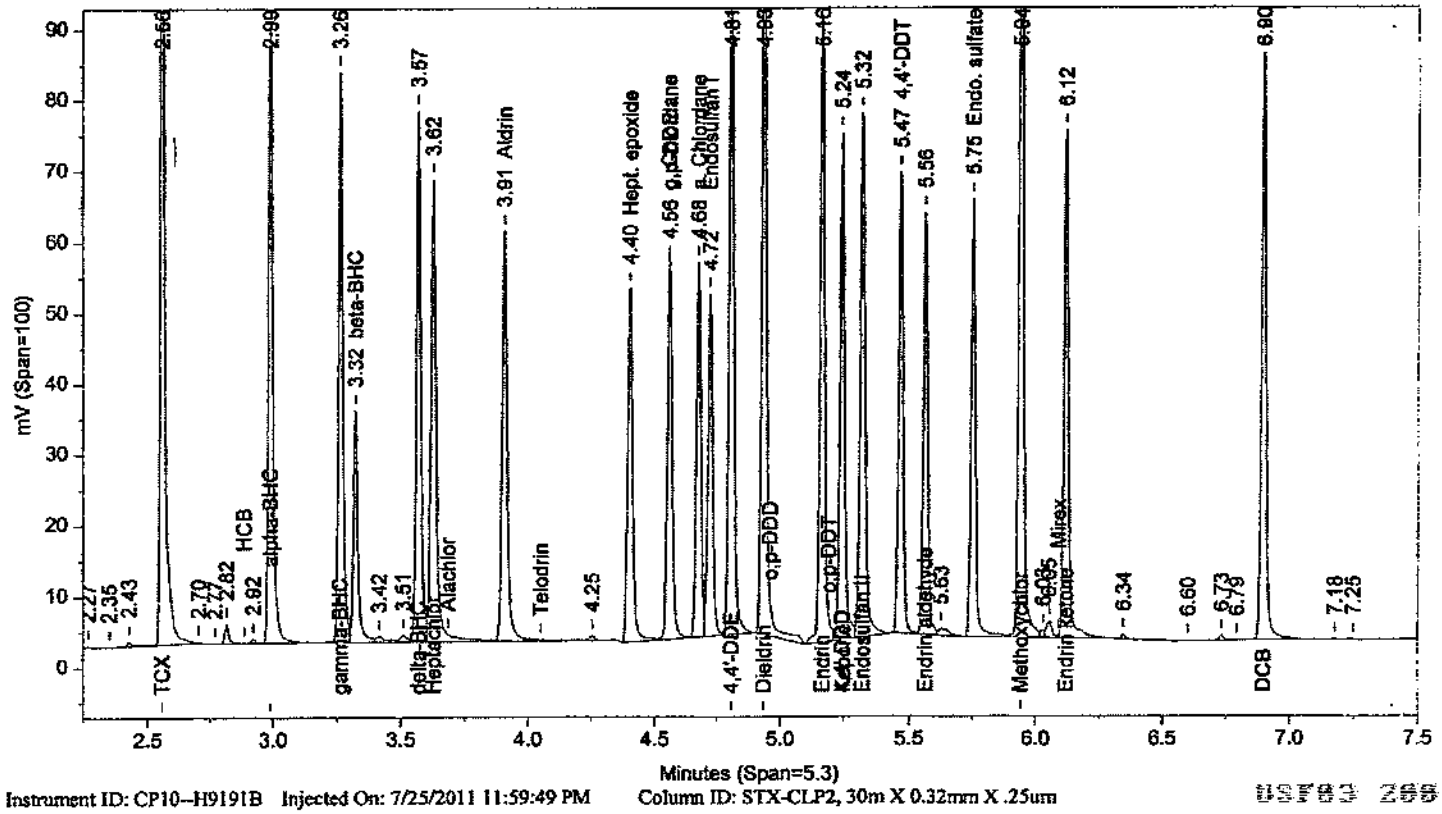
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10206.10R



Instrument ID: CP10--H9191A Injected On: 7/25/2011 11:59:49 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10206B.10R



Instrument ID: CP10--H9191B Injected On: 7/25/2011 11:59:49 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

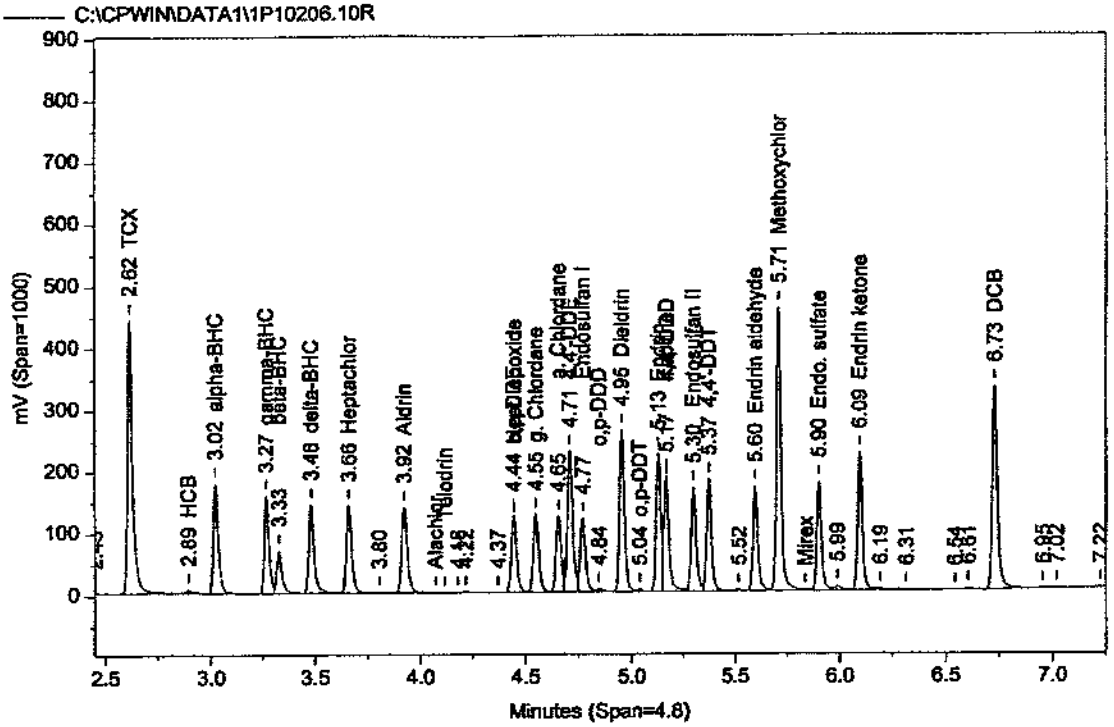
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.615	448004	86.275	TCX	2.557	149810	81.262	TCX
2.893	5232	3.108	HCB	.	0	.	HCB
3.02	177650	25.458	alpha-BHC	2.989	100454	21.585	alpha-BHC
3.267	157738	20.701	gamma-BHC	3.264	80956	20.244	gamma-BHC
3.33	68593	18.498	beta-BHC	3.325	33457	18.342	beta-BHC
3.481	143575	20.022	delta-BHC	3.567	75262	19.146	delta-BHC
3.658	142286	19.493	Heptachlor	3.625	66496	18.773	Heptachlor
3.92	138511	19.58	Aldrin	3.906	58097	18.144	Aldrin
.	0	.	Hept. epoxide	4.402	50652	18.17	Hept. epoxide
4.443	124013	24.098	o,p-DDE / hept epox	4.559	53720	41.457	o,p-DDE / gchld
4.548	126889	18.497	g. Chlordane	.	0	.	g. Chlordane
4.654	122763	19.387	a. Chlordane	4.675	53768	17.478	a. Chlordane
4.708	228292	38.121	4,4'-DDE	4.805	98423	35.816	4,4'-DDE
4.767	118643	18.667	Endosulfan I	4.722	48553	17.485	Endosulfan I
4.844	4272	5.339	o,p-DDD	.	0	.	o,p-DDD
4.951	263019	38.594	Dieldrin	4.934	109053	36.482	Dieldrin
5.039	3741	4.003	o,p-DDT	.	0	.	o,p-DDT
5.129	223732	38.279	Endrin	5.164	89076	34.636	Endrin
5.167	186458	112.751	Kepone / 44DDD	.	0	.	Kepone
.	0	.	4,4'-DDD	5.242	72128	34.477	4,4'-DDD
5.297	168717	42.779	Endosulfan II	5.321	75101	35.712	Endosulfan II
5.371	182891	39.505	4,4'-DDT	5.468	65544	36.537	4,4'-DDT
5.597	169025	37.734	Endrin aldehyde	5.561	60239	34.646	Endrin aldehyde
5.71	457685	203.051	Methoxychlor	5.942	123496	173.867	Methoxychlor
5.9	176343	38.816	Endo. sulfate	5.753	61974	35.532	Endo. sulfate
6.095	226785	38.309	Endrin ketone	6.119	72409	36.012	Endrin ketone
6.729	330976	80.438	DCB	6.897	82837	75.718	DCB

Files:
Area File: C:\CPWIN\DATA1\IP10206.10A
Area File: C:\CPWIN\DATA1\IP10206B.10A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/26/2011 12:07:26 AM
File Reported On: 7/26/2011 at 12:07:39 AM

USF03 2892

10X REPLOTS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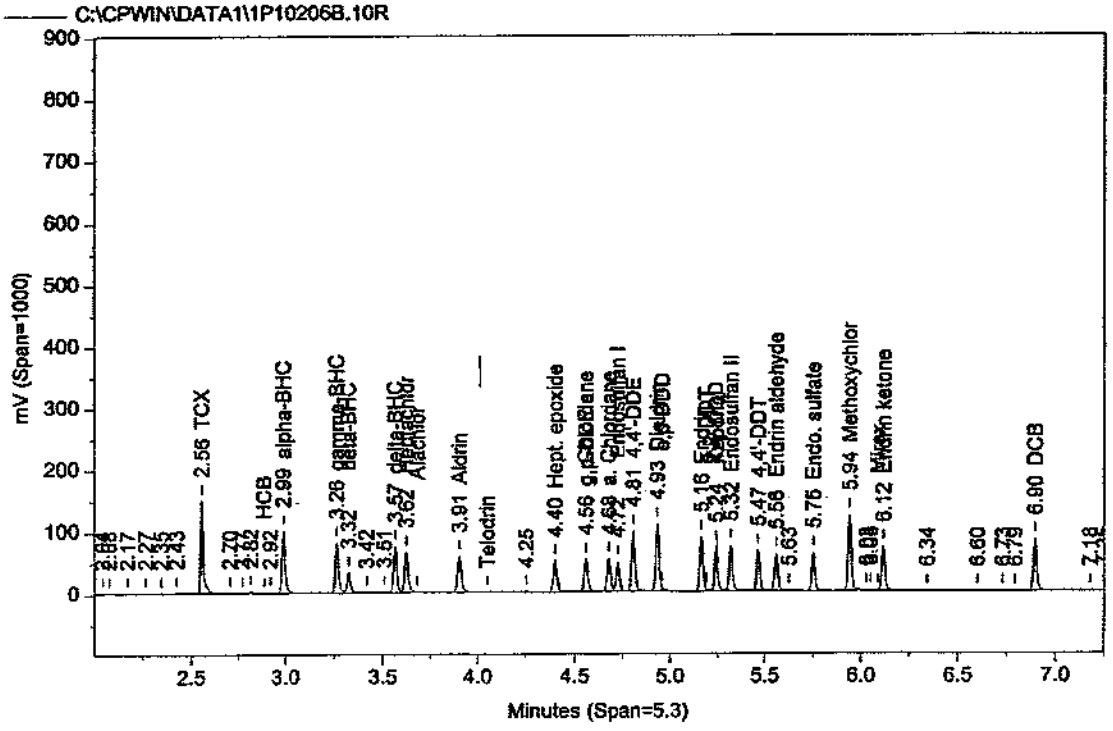
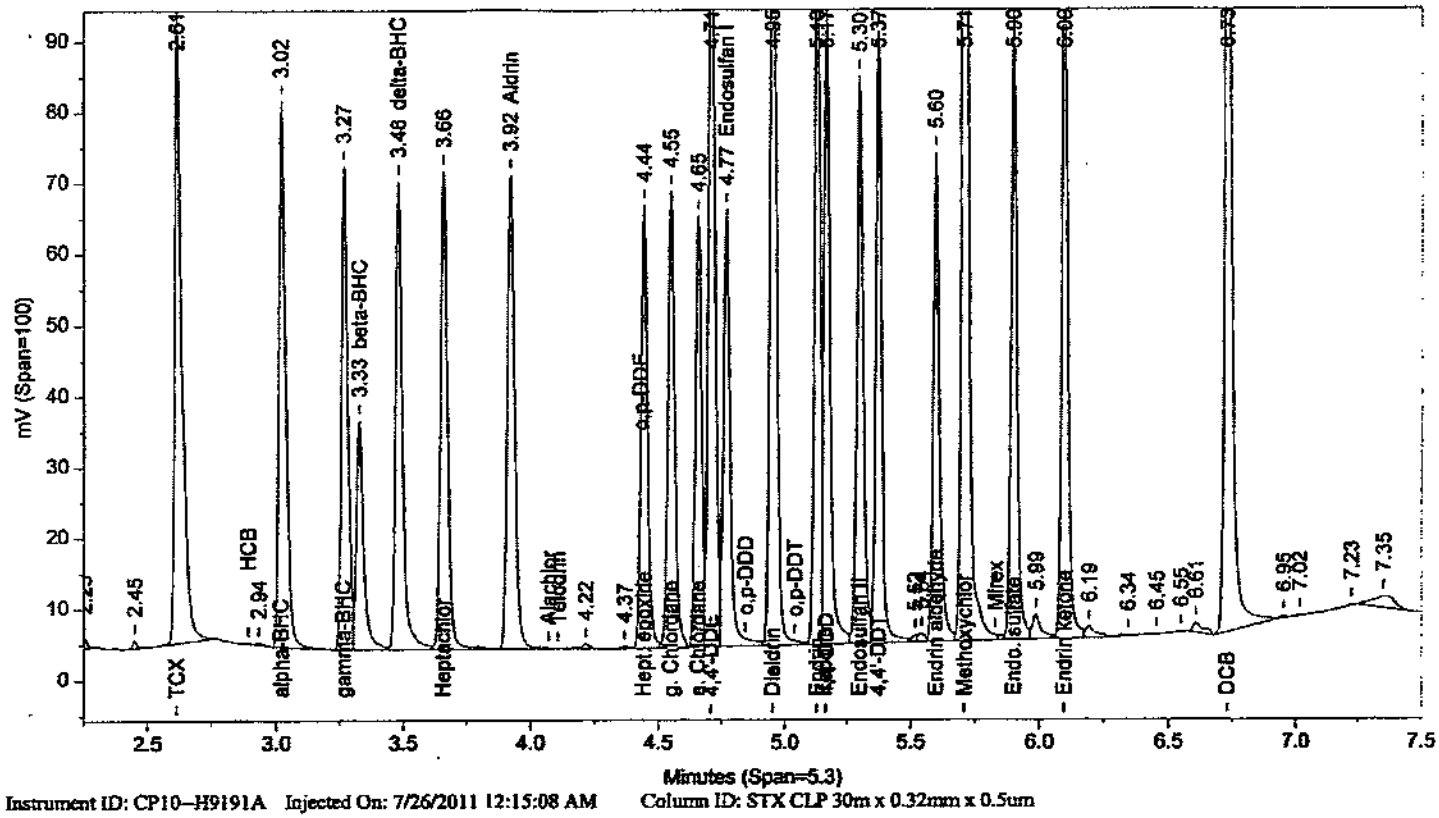
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.89 HCB
3.02 alpha-BHC
3.27 gamma-BHC
3.33 Beta-BHC
3.48 delta-BHC
3.66 Heptachlor
3.80
3.92 Aldrin
4.37
4.44
4.55 g. Chlordane
4.65
4.71 a. Chlordane
4.77 Endosulfan I
4.84 o,p-DDD
4.95 Dieldrin
5.04 o,p-DDT
5.13
5.30 Endosulfan II
5.37 4,4'-DDT
5.52
5.60 Endrin aldehyde
5.71 Methoxychlor
5.90 Endo. sulfate
5.99
6.09 Endrin ketone
6.19
6.31
6.54
6.61
6.73 DCB
6.85
7.02
7.22


C:\CPWIN\DATA1\1P10206B.10R
mV (Span=1000)
Minutes (Span=5.3)
2.56 TCX
2.99 alpha-BHC
3.26 gamma-BHC
3.42
3.57
3.62
3.91 Aldrin
Telodrin
4.25
4.40 Hept. epoxide
4.56
4.68
4.81 4,4'-DDE
4.93
5.16
5.24
5.32 Endosulfan II
5.47 4,4'-DDT
5.58 Endrin aldehyde
5.63
5.76 Endo. sulfate
5.94 Methoxychlor
6.08
6.12
6.34
6.60
6.73
6.90 DCB
7.18

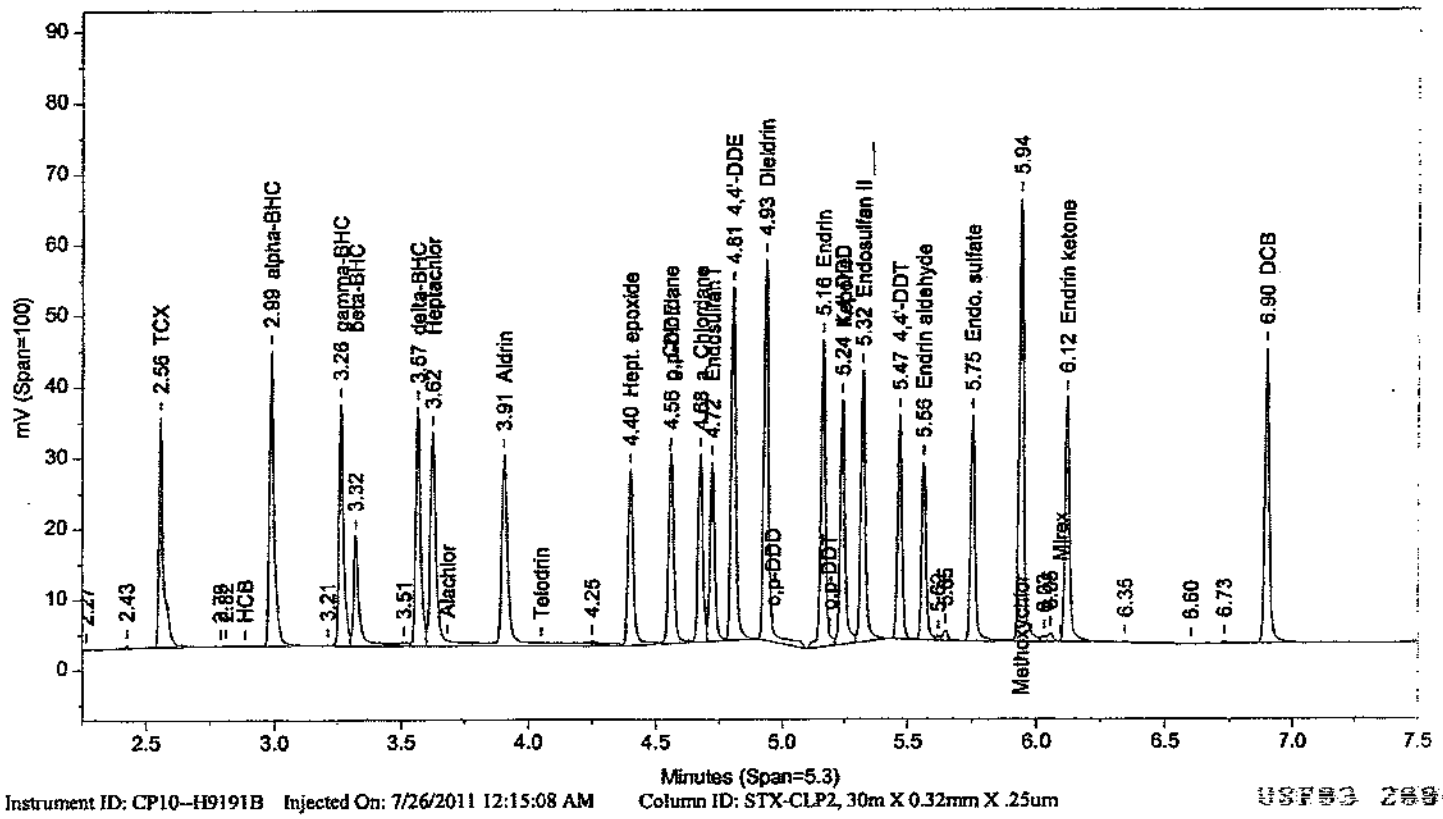
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10206.11R



Instrument ID: CP10--H9191A Injected On: 7/26/2011 12:15:08 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10206B.11R



Instrument ID: CP10--H9191B Injected On: 7/26/2011 12:15:08 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USTS3 2894

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

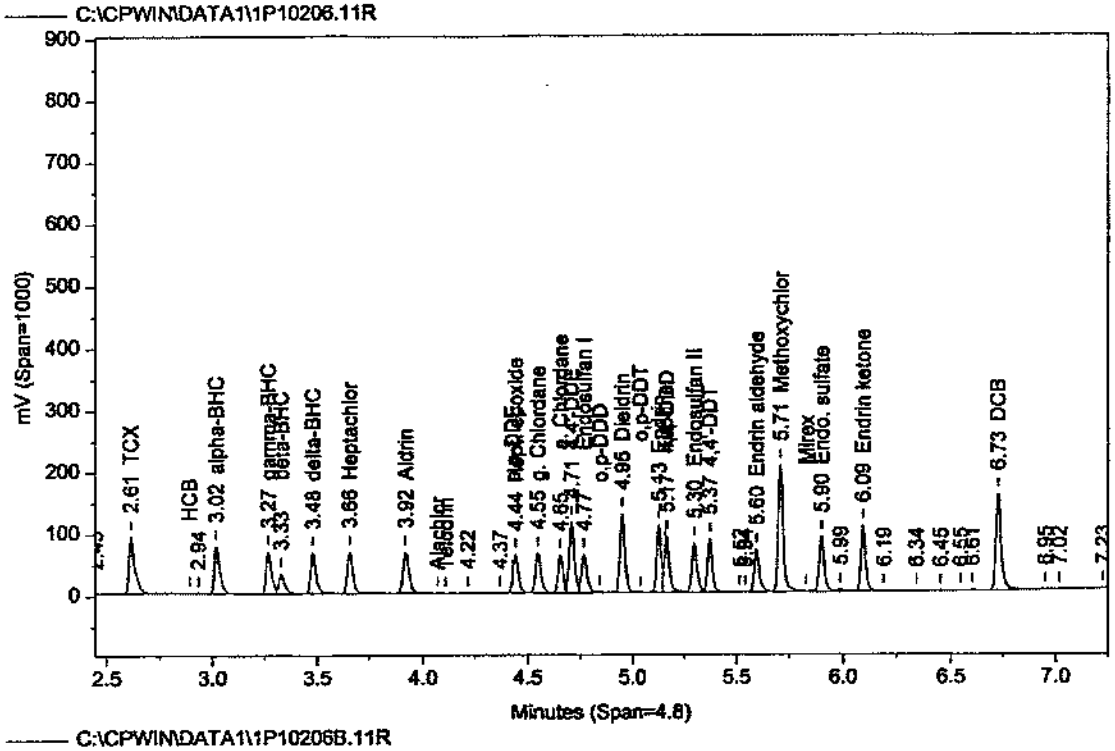
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.613	92613	18.569	TCX	2.556	32585	18.922	TCX
3.019	77135	10.986	alpha-BHC	2.989	42325	9.197	alpha-BHC
3.266	68020	8.827	gamma-BHC	3.264	34207	8.951	gamma-BHC
3.329	32439	8.783	beta-BHC	3.324	15780	8.938	beta-BHC
3.479	66078	9.283	delta-BHC	3.567	33741	9.059	delta-BHC
3.656	67271	9.133	Heptachlor	3.624	30416	8.891	Heptachlor
3.92	66719	9.424	Aldrin	3.905	27353	8.941	Aldrin
4.443	62352	9.379	Hept. epoxide	4.402	25078	9.145	Hept. epoxide
4.548	64528	9.451	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.559	27038	16.153	o,p-DDE/gchld
4.654	60833	9.607	a. Chlordane	4.676	26777	9.051	a. Chlordane
4.707	114215	19.192	4,4'-DDE	4.805	50289	19.201	4,4'-DDE
4.766	61529	9.603	Endosulfan I	4.723	25361	9.432	Endosulfan I
4.95	127522	18.691	Dieldrin	4.935	54358	18.934	Dieldrin
5.129	108741	18.466	Endrin	5.165	43813	17.563	Endrin
5.167	89849	18.193	4,4'-DDD	5.243	34649	17.416	4,4'-DDD
5.297	80044	20.125	Endosulfan II	5.322	38904	19.172	Endosulfan II
5.371	86534	18.75	4,4'-DDT	5.468	31928	18.517	4,4'-DDT
5.597	68803	15.425	Endrin aldehyde	5.561	25493	15.154	Endrin aldehyde
5.709	205126	90.76	Methoxychlor	5.942	63423	91.835	Methoxychlor
5.899	88871	19.394	Endo. sulfate	5.753	31955	18.827	Endo. sulfate
6.094	105984	17.976	Endrin ketone	6.119	34866	17.747	Endrin ketone
6.728	157578	38.341	DCB	6.897	41551	38.085	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10206.11A
Area File: C:\CPWIN\DATA1\1P10206B.11A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10206.CAL
Calibration File B: C:\CPWIN\DATA1\1P10206B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/26/2011 9:00:40 AM
File Reported On: 7/26/2011 at 9:00:51 AM

gchld: $\frac{27038}{2935} = 9.21$

7/26/11

10X REPLOTS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mV (Span=1000)
Minutes (Span=4.8)
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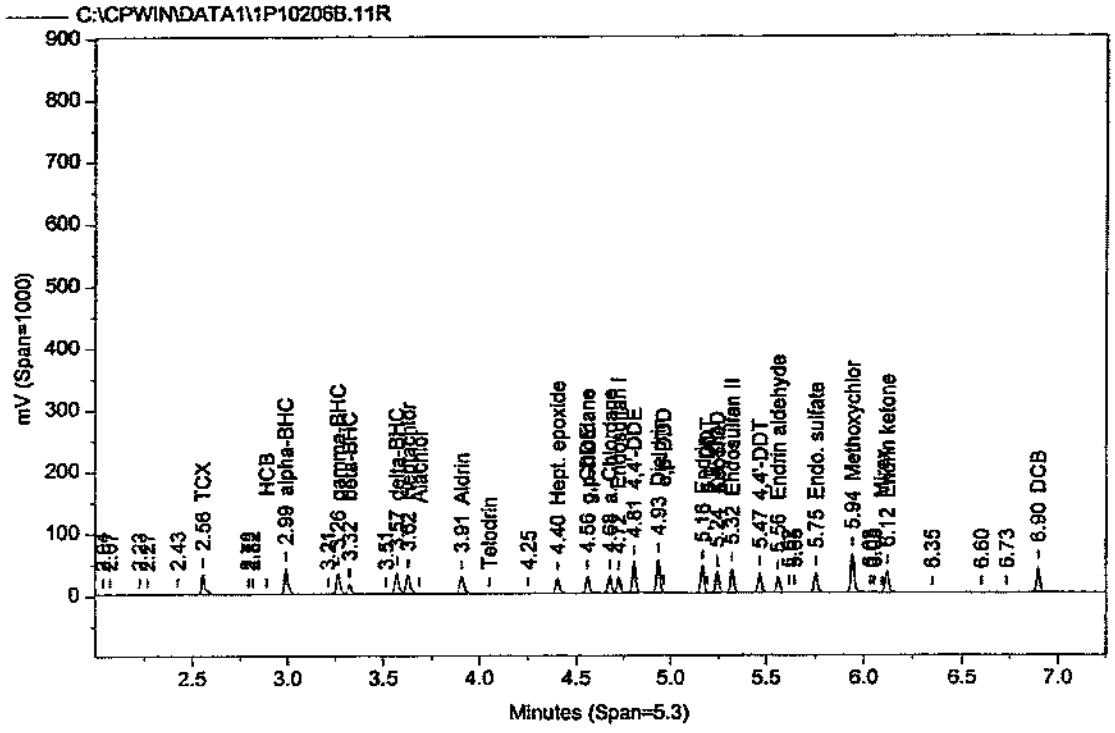
2.94 HCB
3.02 alpha-BHC
3.27 gamma-BHC
3.33 beta-BHC
3.48 delta-BHC
3.66 Heptachlor
3.92 Aldrin
4.22
4.37
4.44
4.55 g. Chlordane
4.71
4.77
4.86 Dieldrin
5.13
5.30
5.37 4,4'-DDT
5.60 Endrin aldehyde
5.71 Methoxychlor
5.90 Endo. sulfate
5.99
6.09 Endrin ketone
6.19
6.34
6.45
6.61
6.73 DCB
6.85
7.02
7.23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Minutes (Span=5.3)
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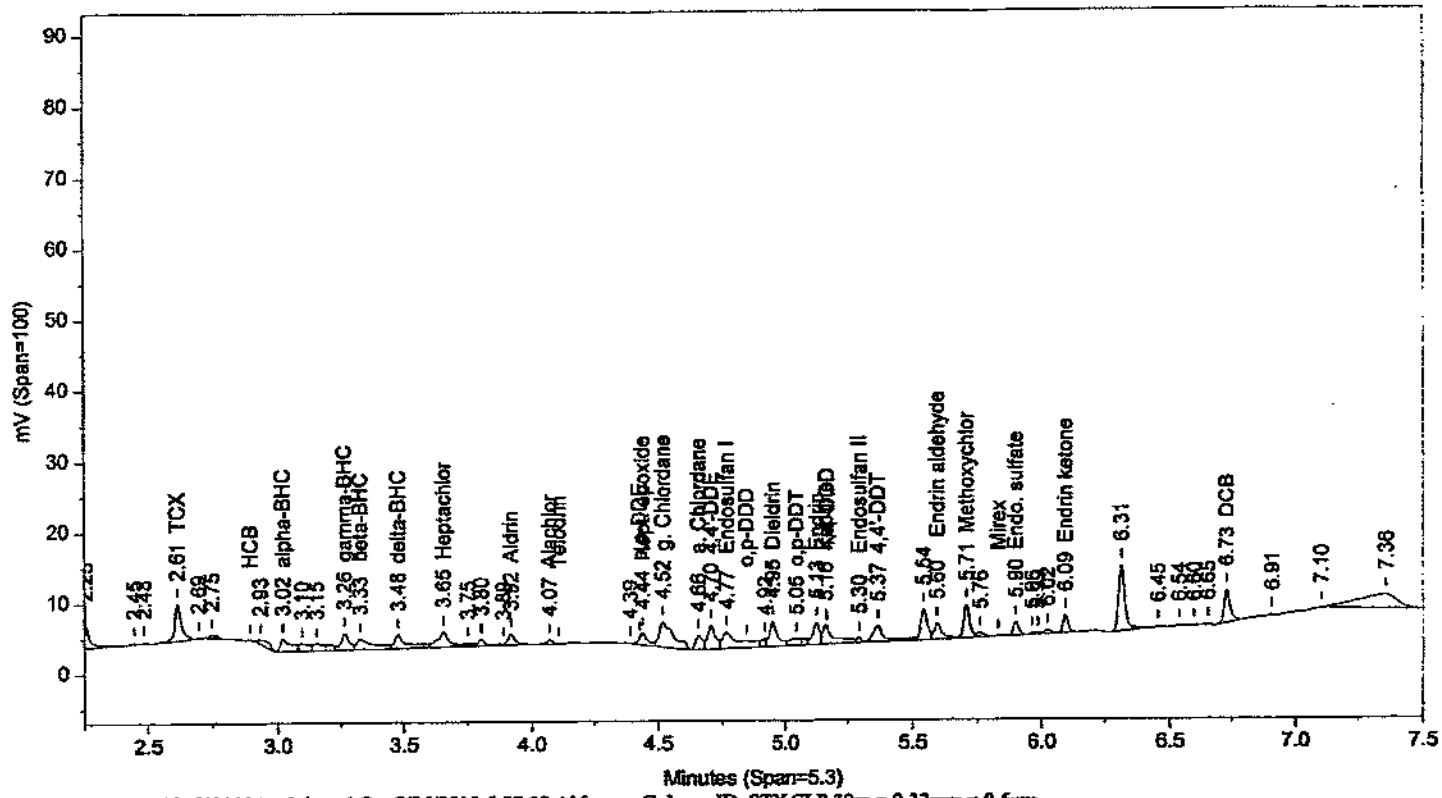
2.56 TCX
2.99 alpha-BHC
3.21
3.26
3.32
3.51
3.57
3.62
3.91 Aldrin
Telodrin
4.25
4.40 Hept. epoxide
4.56
4.68
4.81 4,4'-DDE
4.93
5.18
5.24
5.32
5.47 4,4'-DDT
5.56 Endrin aldehyde
5.75 Endo. sulfate
5.94 Methoxychlor
6.12
6.35
6.60
6.73
6.90 DCB

USP93 2886

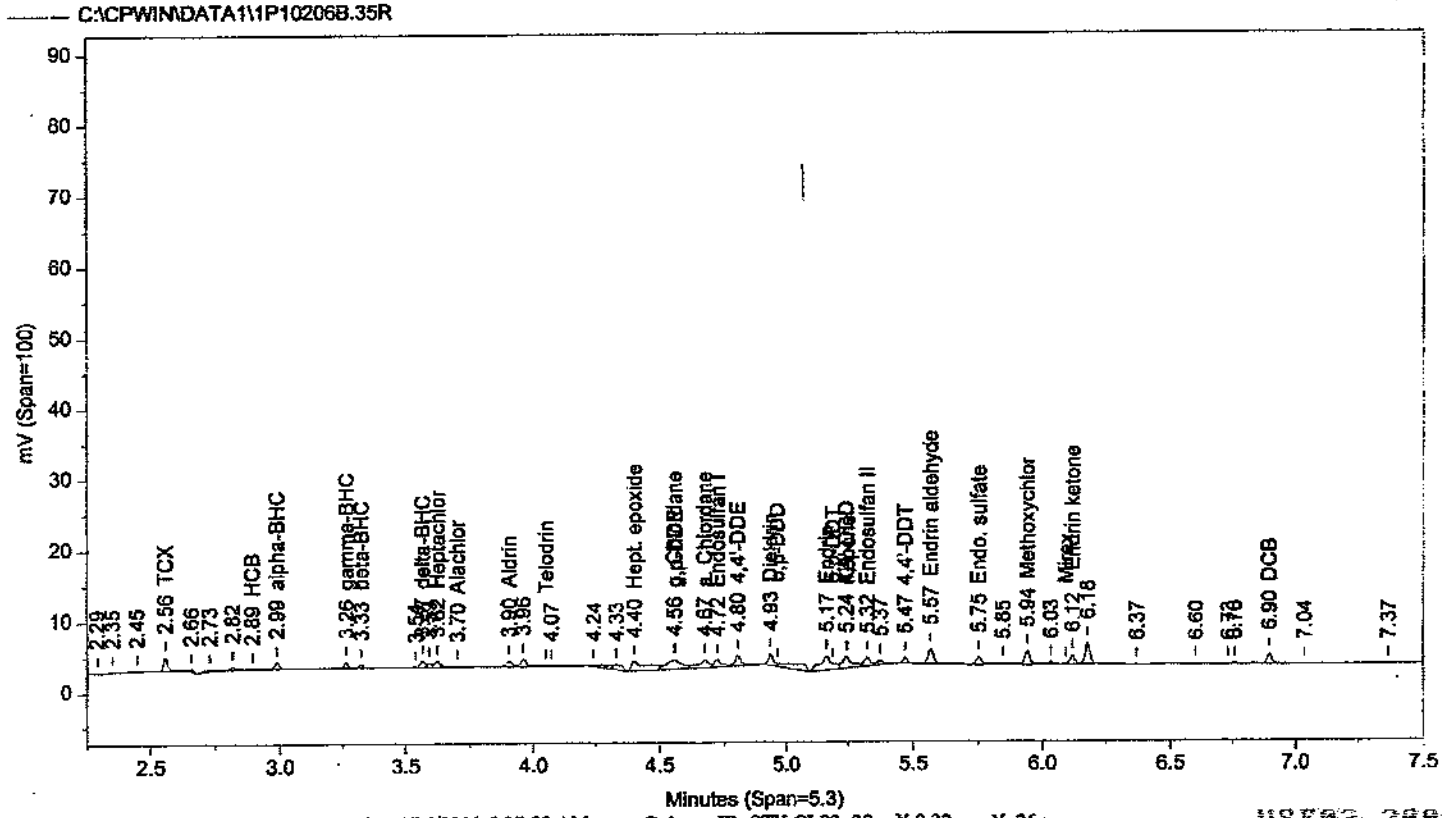
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10206.35R



Instrument ID: CP10--H9191A Injected On: 7/26/2011 6:37:32 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

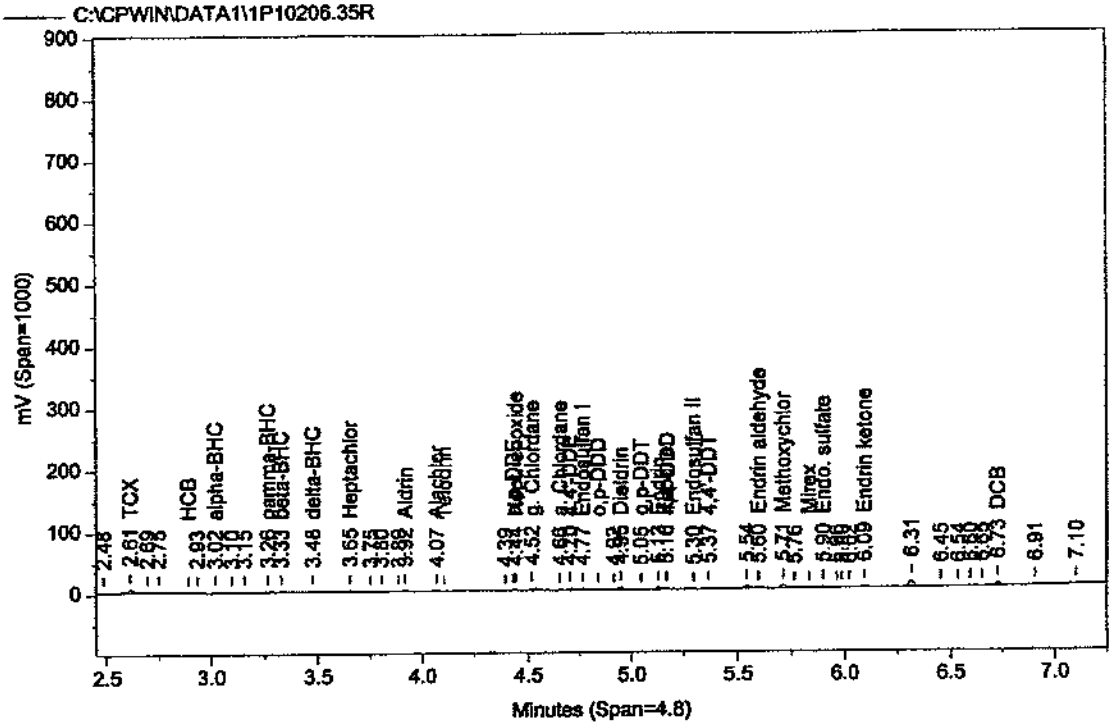
C:\CPWIN\DATA1\1P10206B.35R



Instrument ID: CP10--H9191B Injected On: 7/26/2011 6:37:32 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF03 2887

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1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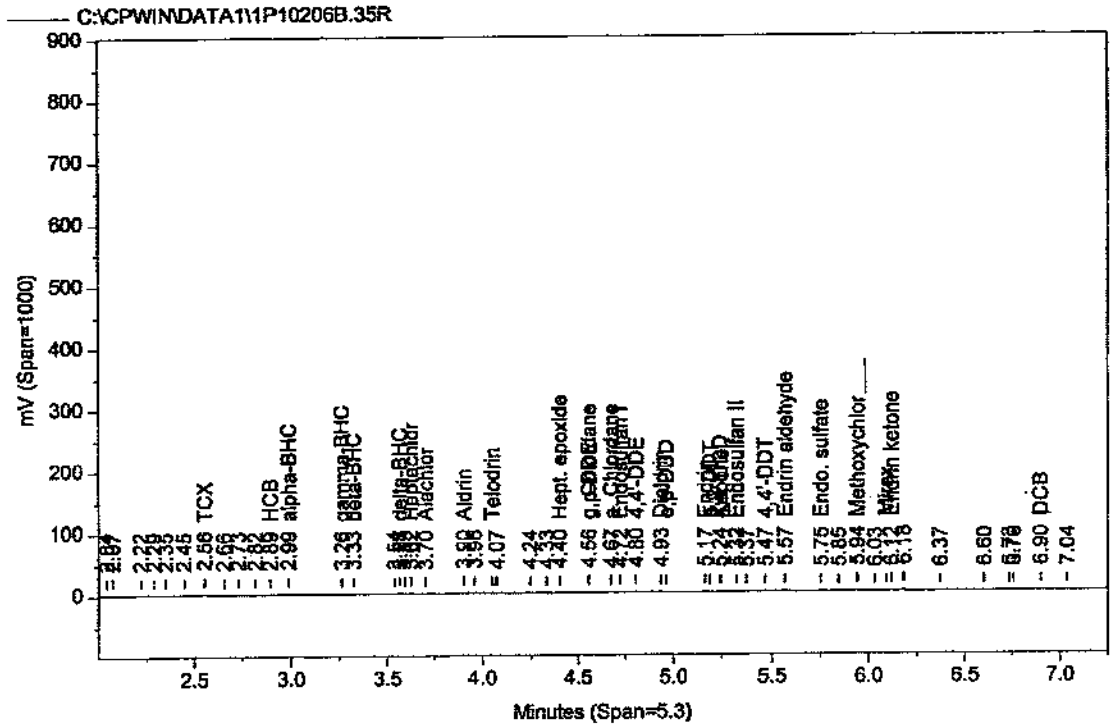
mV (Span=1000)
Minutes (Span=4.8)
TCX
HCB
alpha-BHC
Beta-BHC
delta-BHC
Heptachlor
Aldrin
g. Chlordane
Endosulfan 1
o,p-DDD
Dieldrin
p,p-DDT
Endosulfan II
4,4-DDT
Endrin aldehyde
Methoxychlor
Endo. sulfate
Endrin ketone
DCB


C:\CPWIN\DATA1\1P10206B.35R
mV (Span=1000)
Minutes (Span=5.3)
TCX
HCB
alpha-BHC
Aldrin
Telodrin
Hept. epoxide
4,4'-DDE
Endrin aldehyde
Endo. sulfate
Methoxychlor
Endrin ketone
DCB

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.612	5220	1.047	TCX	2.557	1931	1.121	TCX
.	0	.	HCB	2.894	155	.048	HCB
3.02	1775	.253	alpha-BHC	2.989	1021	.222	alpha-BHC
3.265	2365	.307	gamma-BHC	3.264	850	.222	gamma-BHC
3.327	1534	.415	beta-BHC	3.326	531	.301	beta-BHC
3.478	1915	.269	delta-BHC	3.567	930	.25	delta-BHC
3.654	2167	.294	Heptachlor	3.625	904	.264	Heptachlor
4.07	565	.	Alachlor	3.704	130	.	Alachlor
3.919	1544	.218	Aldrin	3.905	786	.257	Aldrin
4.441	1761	.265	Hept. epoxide	4.403	1325	.483	Hept. epoxide
4.519	3508	.514	g. Chlordane	4.558	1335	.455	g. Chlordane
4.656	1991	.314	a. Chlordane	4.675	1125	.38	a. Chlordane
4.705	3348	.563	4,4'-DDE	4.805	1464	.559	4,4'-DDE
4.766	2292	.358	Endosulfan I	4.724	978	.364	Endosulfan I
4.949	3496	.512	Dieldrin	4.935	1563	.545	Dieldrin
5.046	962	.264	o,p-DDT	.	0	.	o,p-DDT
5.128	3102	.527	Endrin	5.165	2033	.815	Endrin
5.164	2760	1.512	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.242	1615	.812	4,4'-DDD
5.295	733	.184	Endosulfan II	5.323	1287	.634	Endosulfan II
5.367	2330	.505	4,4'-DDT	5.468	835	.484	4,4'-DDT
5.596	2276	.51	Endrin aldehyde	5.567	2117	1.259	Endrin aldehyde
5.708	4689	2.075	Methoxychlor	5.942	1935	2.802	Methoxychlor
5.898	1954	.426	Endo. sulfate	5.753	1147	.676	Endo. sulfate
6.094	2496	.423	Endrin ketone	6.12	1213	.618	Endrin ketone
6.728	4730	1.151	DCB	6.897	1403	1.286	DCB

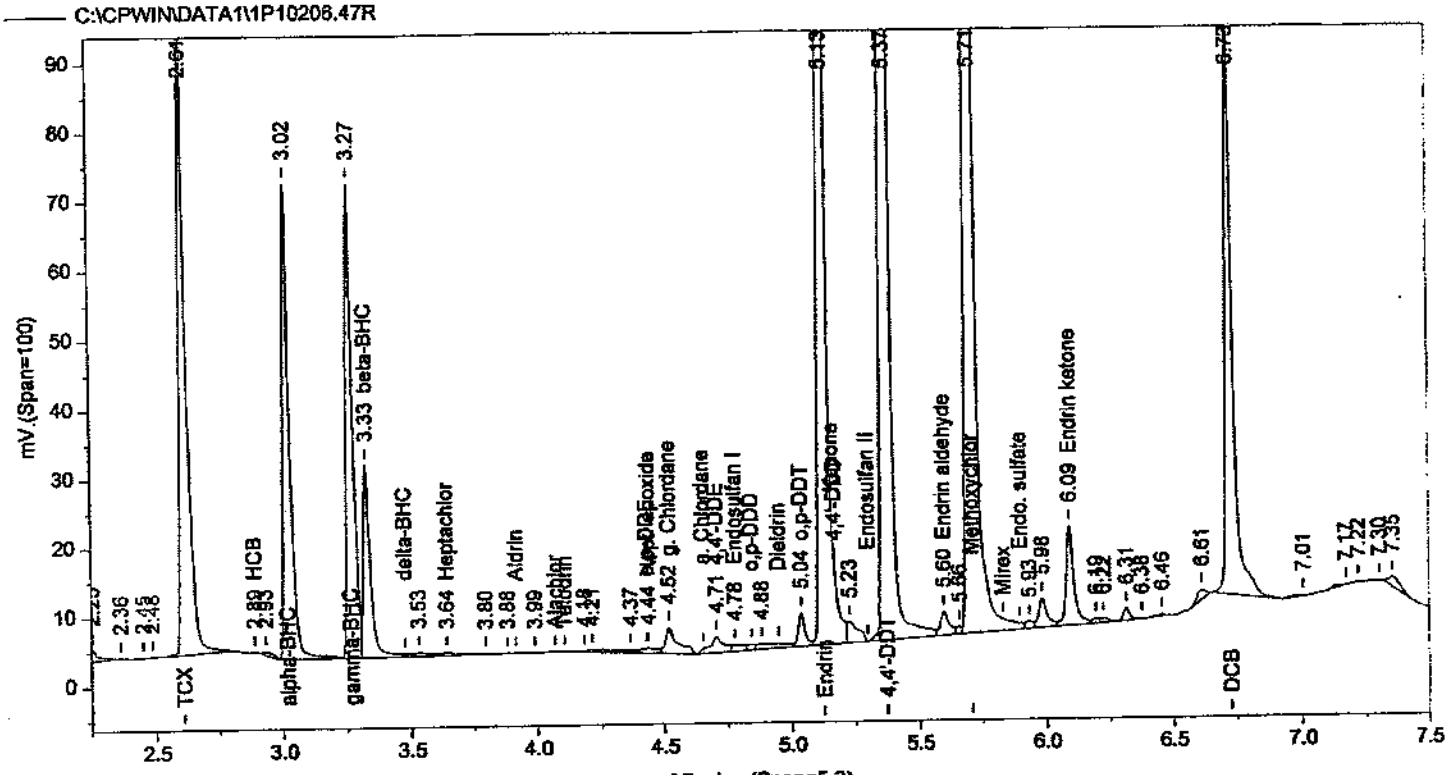
Files:
Area File: C:\CPWIN\DATA1\1P10206.35A
Area File: C:\CPWIN\DATA1\1P10206B.35A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10206.CAL
Calibration File B: C:\CPWIN\DATA1\1P10206B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/26/2011 9:09:12 AM
File Reported On: 7/26/2011 at 9:09:22 AM

USF03 2089

10X REPLOTS

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\1P10206.47R

C:\CPWIN\DATA1\1P10206.47R

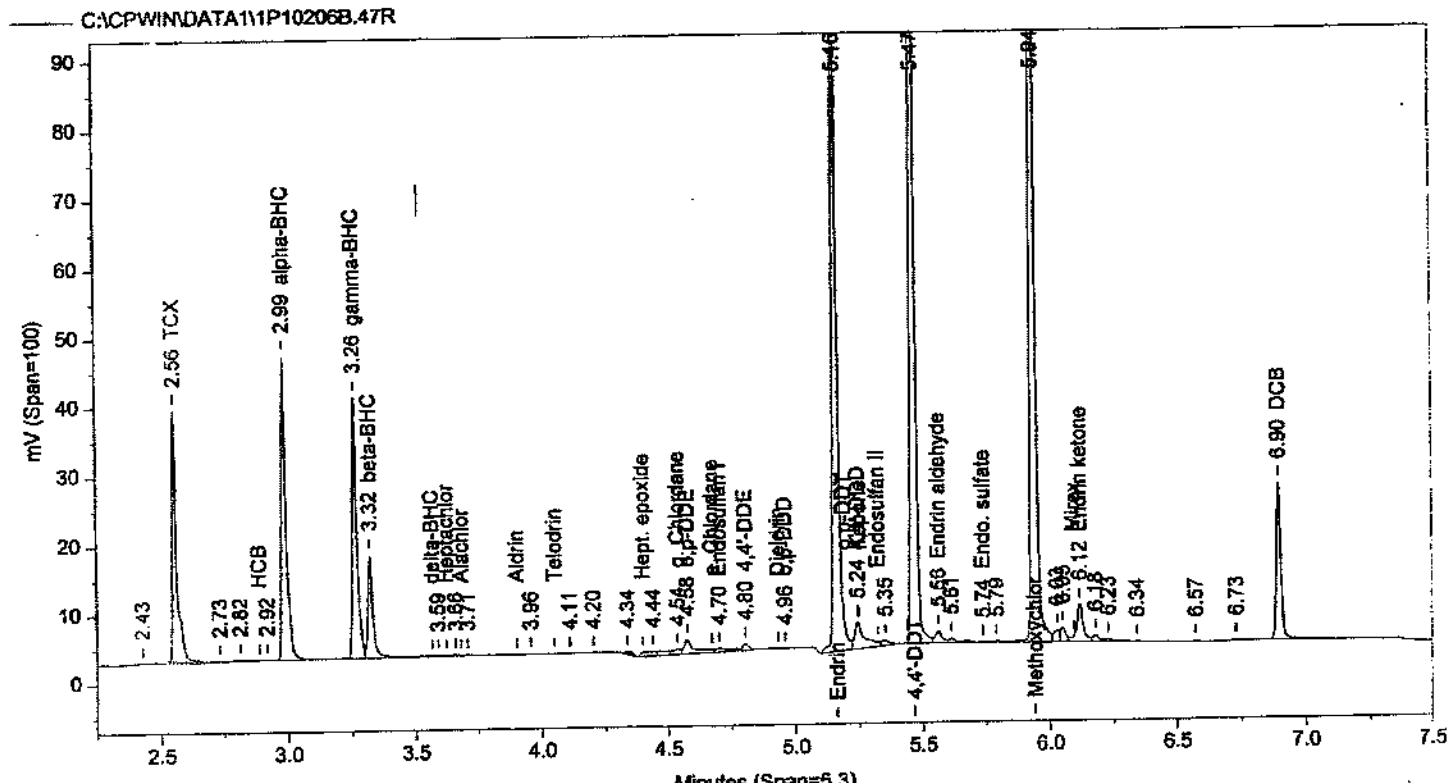


Instrument ID: CP10--H9191A Injected On: 7/26/2011 9:51:21 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

%DDT BD= 0.5072744

File: C:\CPWIN\DATA1\1P10206B.47R %ENDRIN BD= 6.625265

C:\CPWIN\DATA1\1P10206B.47R



Instrument ID: CP10--H9191B Injected On: 7/26/2011 9:51:21 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

%DDT BD= 2.871619

%ENDRIN BD= 6.333749

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

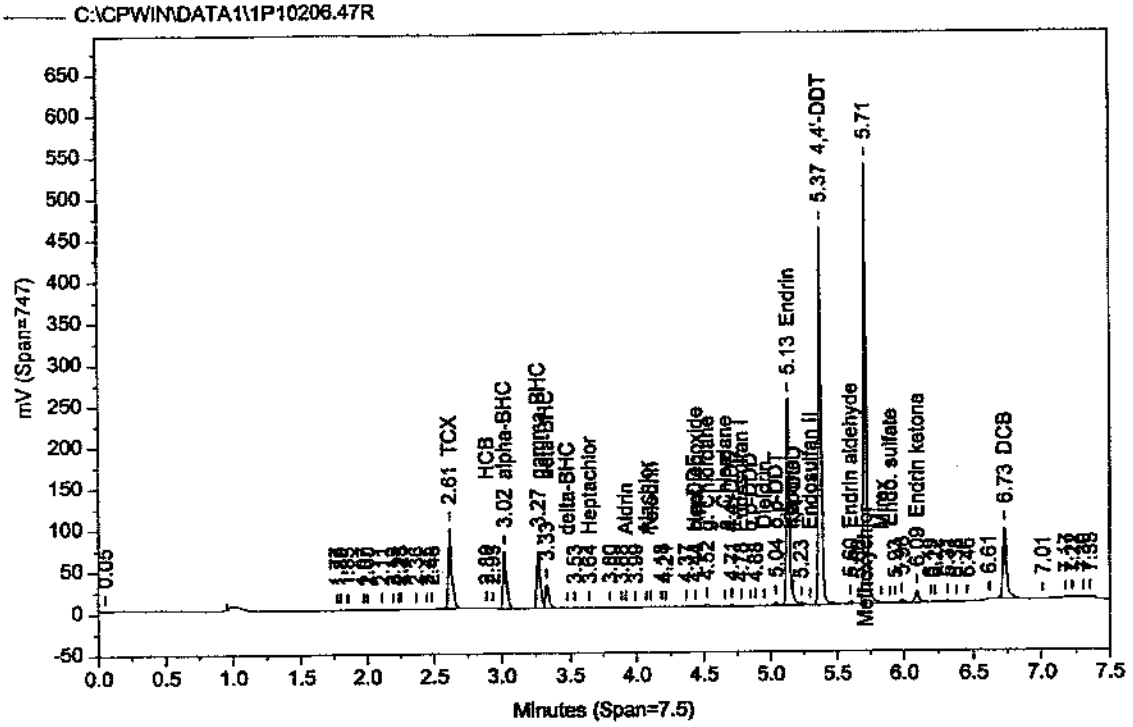
Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.612	98257	19.701	TCX	2.555	36983	21.476	TCX
2.89	143	.022	HCB	.	0	.	HCB
3.018	69536	9.904	alpha-BHC	2.988	44211	9.607	alpha-BHC
3.266	68914	8.943	gamma-BHC	3.263	37887	9.914	gamma-BHC
3.328	28230	7.644	beta-BHC	3.323	14947	8.466	beta-BHC
3.642	478	.065	Heptachlor	.	0	.	Heptachlor
4.437	728	.11	Hept. epoxide	.	0	.	Hept. epoxide
4.52	3751	.549	g. Chlordane	4.538	785	.267	g. Chlordane
.	0	.	o,p-DDE	4.576	2086	1.246	o,p-DDE
4.778	988	.154	Endosulfan I	4.701	553	.206	Endosulfan I
4.706	2346	.394	4,4'-DDE	4.804	1000	.382	4,4'-DDE
.	0	.	o,p-DDD	4.96	78	.053	o,p-DDD
5.039	4880	1.339	o,p-DDT	.	0	.	o,p-DDT
5.128	252318	42.847	Endrin	5.163	108300	43.413	Endrin
.	0	.	4,4'-DDD	5.243	3894	1.957	4,4'-DDD
5.371	460100	99.695	4,4'-DDT	5.467	165512	95.989	4,4'-DDT
5.598	3480	.78	Endrin aldehyde	5.562	1782	1.059	Endrin aldehyde
5.709	533719	236.15	Methoxychlor	5.941	154715	224.022	Methoxychlor
.	0	.	Endo. sulfate	5.737	113	.067	Endo. sulfate
6.093	14423	2.446	Endrin ketone	6.118	5542	2.821	Endrin ketone
6.727	85538	20.813	DCB	6.896	22635	20.747	DCB

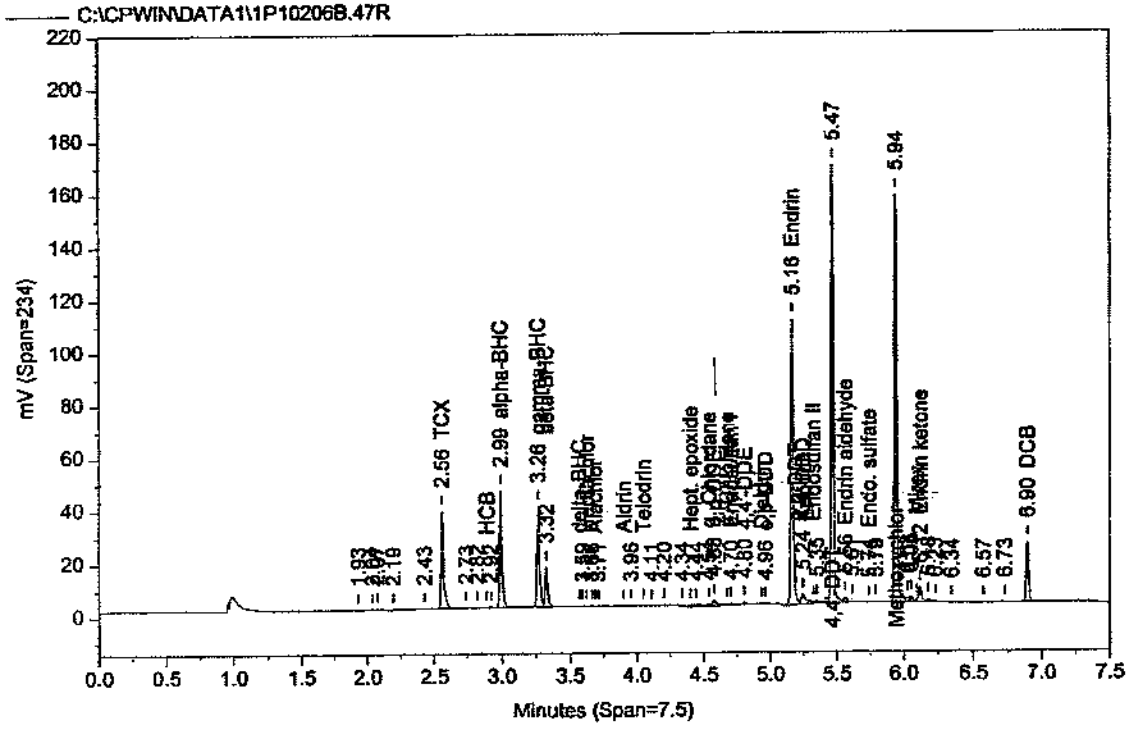
Files:
Area File: C:\CPWIN\DATA1\1P10206.47A
Area File: C:\CPWIN\DATA1\1P10206B.47A
Method A: C:\CPWIN\DATA1\EVALD.MET
Method B: C:\CPWIN\DATA1\EVALDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10206.CAL
Calibration File B: C:\CPWIN\DATA1\1P10206B.CAL
Format A: C:\CPWIN\DATA1\EVALD.FMTA
Format B: C:\CPWIN\DATA1\EVALD.FMTB
Area File Created On: 7/26/2011 9:58:58 AM
File Reported On: 7/26/2011 at 9:59:09 AM

REPLOTS

C:\CPWIN\DATA1\1P10206.47R

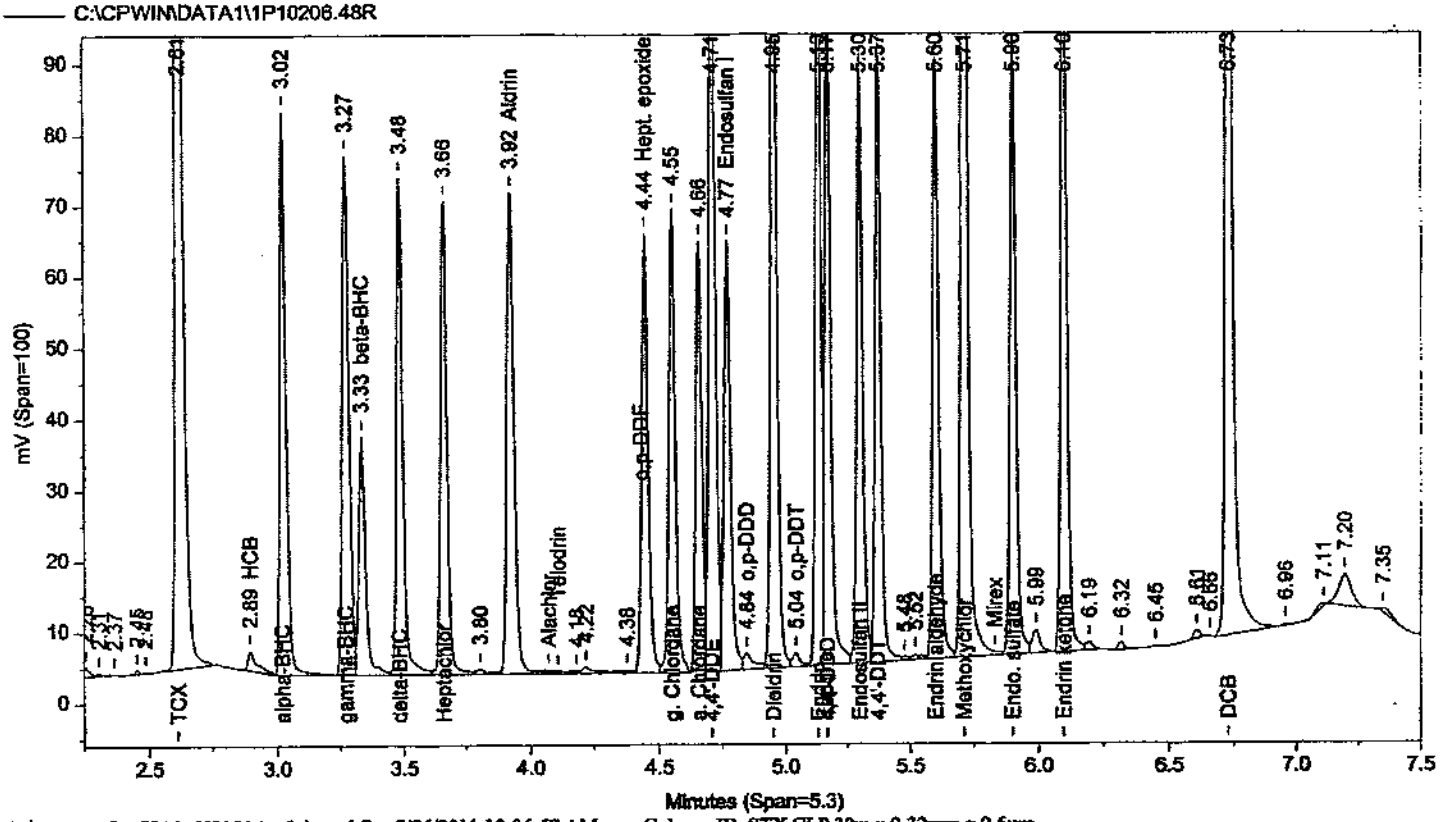


C:\CPWIN\DATA1\1P10206B.47R



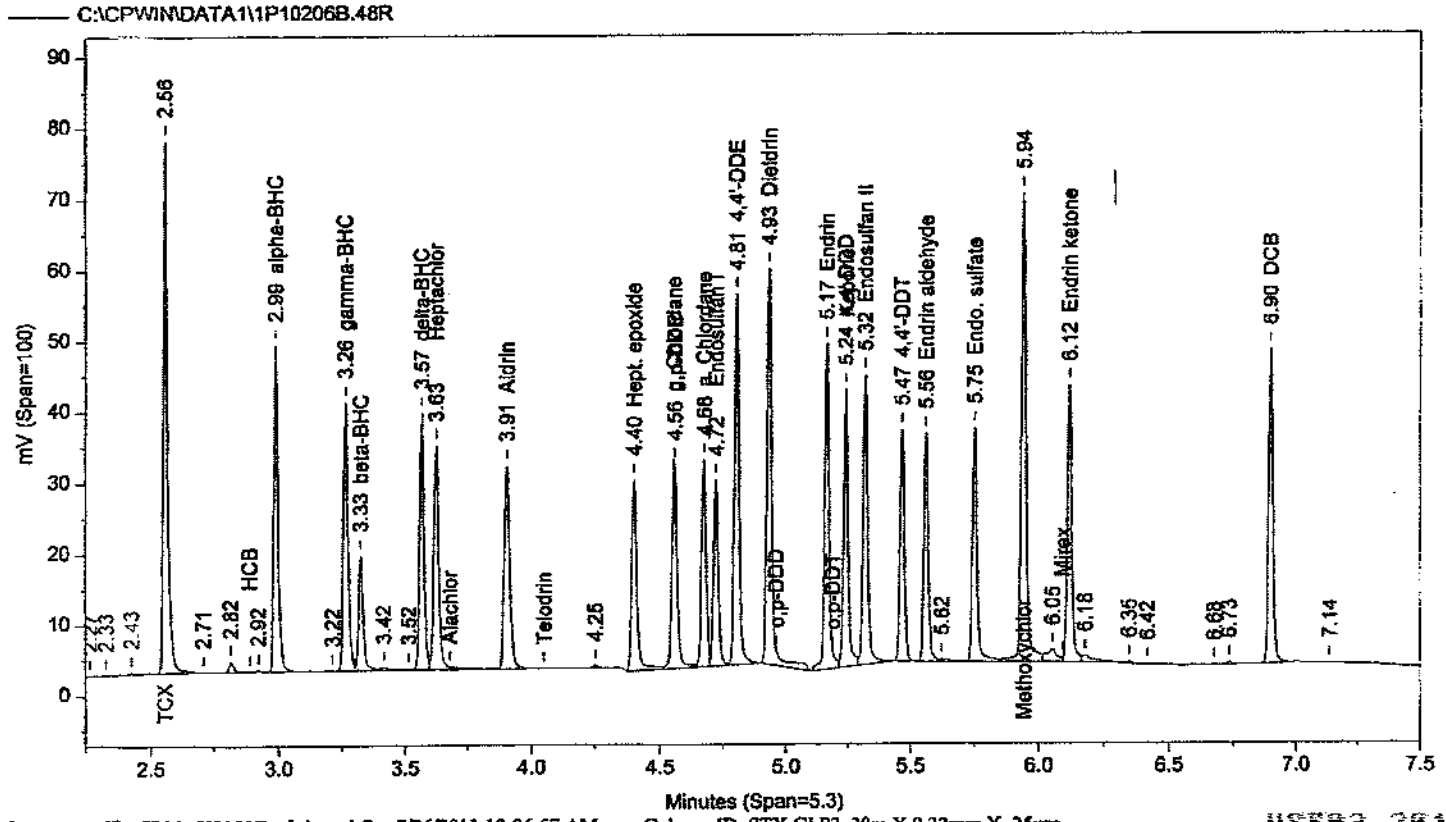
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10206.48R



Instrument ID: CP10--H9191A Injected On: 7/26/2011 10:06:57 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10206B.48R



Instrument ID: CP10--H9191B Injected On: 7/26/2011 10:06:57 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1 Dilution Factor: 1
Analyst: 0856

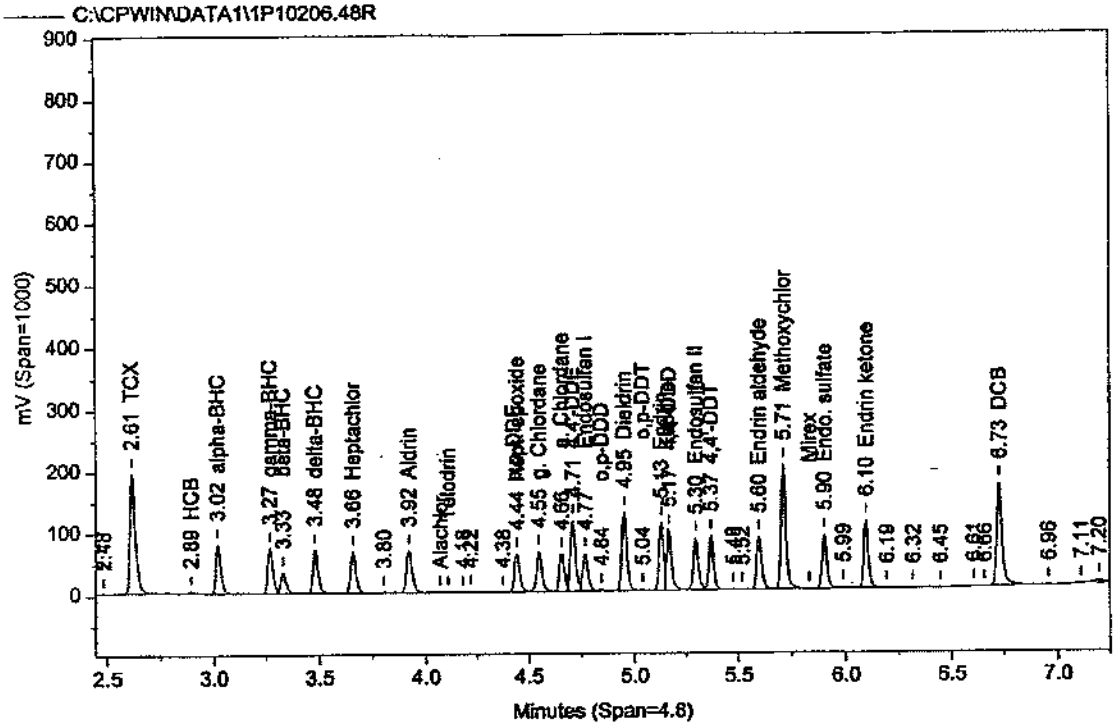
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.615	197469	39.593	TCX	2.557	75644	43.927	TCX
2.894	2727	.418	HCB	.	0	.	HCB
3.021	79505	11.324	alpha-BHC	2.99	46105	10.019	alpha-BHC
3.268	74001	9.603	gamma-BHC	3.265	38370	10.04	gamma-BHC
3.331	33632	9.106	beta-BHC	3.326	16346	9.259	beta-BHC
3.481	70756	9.94	delta-BHC	3.568	37037	9.944	delta-BHC
3.658	67170	9.119	Heptachlor	3.626	31810	9.299	Heptachlor
3.922	68336	9.652	Aldrin	3.907	28686	9.376	Aldrin
4.444	61946	9.318	Hept. epoxide	4.403	27092	9.88	Hept. epoxide
4.549	65488	9.592	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.56	28856	17.239	o,p-DDE
4.655	61228	9.669	a. Chlordane	4.676	29405	9.94	a. Chlordane
4.708	115061	19.334	4,4'-DDE	4.806	52535	20.058	4,4'-DDE
4.767	60485	9.44	Endosulfan I	4.723	26259	9.766	Endosulfan I
4.844	2221	.691	o,p-DDD	.	0	.	o,p-DDD
4.951	128740	18.869	Dieldrin	4.935	56918	19.825	Dieldrin
5.04	1884	.517	o,p-DDT	.	0	.	o,p-DDT
5.13	110272	18.725	Endrin	5.165	46675	18.71	Endrin
5.167	96251	19.49	4,4'-DDD	5.243	39190	19.699	4,4'-DDD
5.298	84149	21.157	Endosulfan II	5.322	41119	20.264	Endosulfan II
5.372	87968	19.061	4,4'-DDT	5.468	33303	19.314	4,4'-DDT
5.598	85081	19.075	Endrin aldehyde	5.562	32654	19.411	Endrin aldehyde
5.71	202080	89.413	Methoxychlor	5.943	66149	95.781	Methoxychlor
5.9	87819	19.165	Endo. sulfate	5.754	33110	19.507	Endo. sulfate
6.096	111117	18.847	Endrin ketone	6.12	39001	19.852	Endrin ketone
6.729	166848	40.597	DCB	6.899	44683	40.955	DCB

Files:
Area File: C:\CPWIN\DATA1\IP10206.48A
Area File: C:\CPWIN\DATA1\IP10206B.48A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\IP10206.CAL
Calibration File B: C:\CPWIN\DATA1\IP10206B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/26/2011 10:14:34 AM
File Reported On: 7/26/2011 at 10:14:44 AM

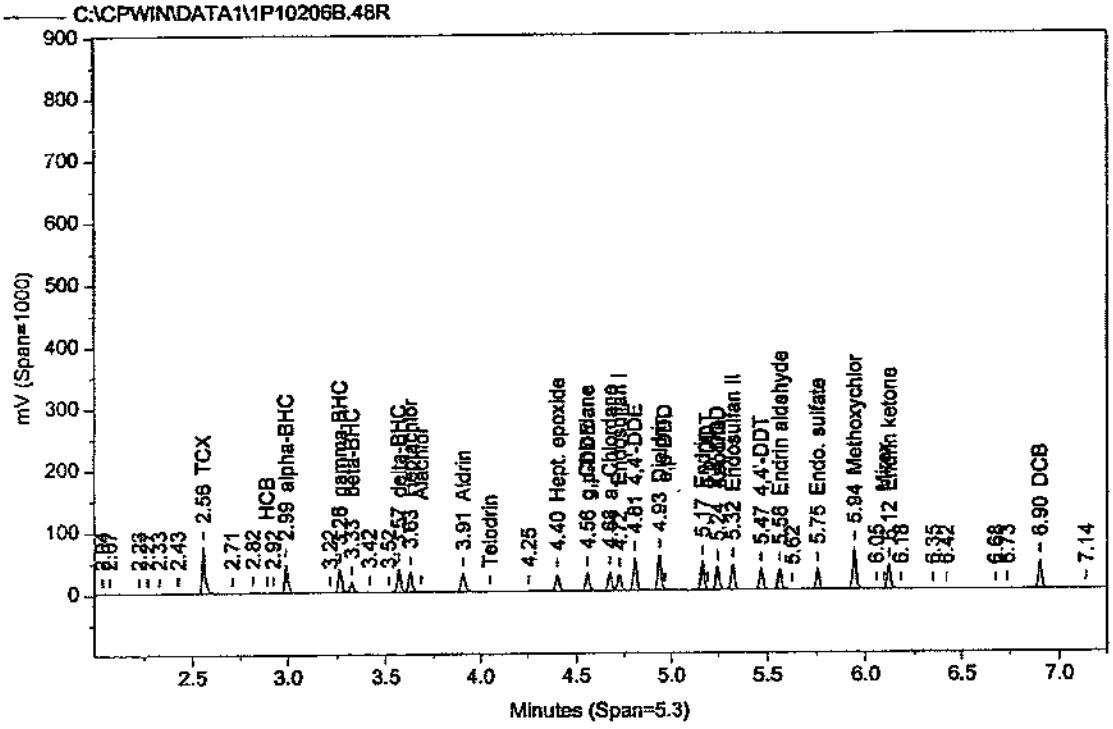
USF03 2814

10X REPLOTS

C:\CPWIN\DATA1\1P10206.48R



C:\CPWIN\DATA1\1P10206B.48R



Raw QC Data

USF83 2816

Lancaster Laboratories-Single Component Data Summary

Sample Name: BLANKA 7/13/11FG PBLK27193Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: State:
Analyses: 01363

Analysis Report (A)

Injected on : JUL 19, 2011 21:23:22
Instrument : CP10--H9191A
Result file : 1P10200.42R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 49.7% (28-121) Conc.: 0.518072
%SSR(DCB) : 98.9% (45-150) Conc.: 1.030962

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	49607	0.518072
HCB	2.88	2.90	2.92	2192	0.020838
gamma-BHC	3.25	3.27	3.29	2129	0.018625
delta-BHC	3.46	3.47	3.50	1960	0.018070
Telodrin	4.10	4.11	4.14	1111	0.014741
g. Chlordane	4.52	4.57	4.58	1386	0.014232
Endosulfan I	4.75	4.77	4.79	1593	0.018410
o,p-DDD	4.83	4.87	4.87	625	0.012903
Dieldrin	4.93	4.97	4.97	618	0.006559
o,p-DDT	5.03	5.03	5.07	473	0.009027
Endrin	5.11	5.15	5.15	834	0.010741
4,4'-DDT	5.35	5.36	5.39	801	0.012706
Endo. sulfate	5.88	5.88	5.92	270	0.004382
Endrin ketone	6.08	6.10	6.12	509	0.006218
DCB	6.71	6.73	6.75	59416	1.030962

Analysis Report (B)

Injected on : JUL 19, 2011 21:23:22
Instrument : CP10--H9191B
Result file : 1P10200B.42R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 53.2% (28-121) Conc.: 0.554377
%SSR(DCB) : 108.1% (45-150) Conc.: 1.126669

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	19170	0.554377
Heptachlor	3.60	3.63	3.64	932	0.016886
Alachlor	3.66	3.68	3.70	503 E	0.000000
o,p-DDE	4.54	4.54	4.58	9407	0.320039
Endosulfan I	4.70	4.72	4.74	894	0.021230
Dieldrin	4.91	4.92	4.95	140	0.002973
o,p-DDD	4.94	4.98	4.98	279	0.010958
Endrin	5.14	5.17	5.18	137	0.003554
4,4'-DDD	5.22	5.24	5.26	138	0.004134
Endosulfan II	5.30	5.32	5.34	73	0.002184
4,4'-DDT	5.44	5.47	5.48	190	0.006909
Endrin aldehyde	5.54	5.57	5.58	2395	0.091064
Mirex	6.07	6.10	6.11	921	0.050508
DCB	6.88	6.89	6.91	16770	1.126669

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	B	0.554377				6.77	
☑ HCB			<0.166	<0.042			
☑ alpha-BHC			<0.166	<0.034			
☑ gamma-BHC			<0.166	<0.034			
☑ beta-BHC			<0.166	<0.06			
☑ delta-BHC			<0.166	<0.036			
☑ Heptachlor			<0.166	<0.05			
☑ Aldrin			<0.166	<0.066			
☐ Alachlor							
☑ Telodrin			<0.24	<0.08			
☑ o,p-DDE			<0.34	<0.066			
☑ Hept. epoxide			<0.166	<0.034			
☑ g. Chlordane			<0.166	<0.05			
☑ a. Chlordane			<0.166	<0.046			
☑ 4,4'-DDE			<0.34	<0.066			
☑ Endosulfan I			<0.166	<0.044			
☑ o,p-DDD			<0.34	<0.066			
☑ Dieldrin			<0.34	<0.066			
☑ o,p-DDT			<0.34	<0.066			
☑ Endrin			<0.34	<0.066			
☑ Kepone			<1.4	<0.46			
☑ 4,4'-DDD			<0.34	<0.066			
☑ Endosulfan II			<0.34	<0.066			
☑ 4,4'-DDT			<0.34	<0.066			
☑ Endrin aldehyde			<0.34	<0.066			
☑ Methoxychlor			<1.66	<0.34			

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:01:38

Lancaster Laboratories Single Component Data Summary

Sample Name: BLANKA 7/13/11FG PBLK27193 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: State:
Analyses: 01363

Analysis Report (A)

Injected on	: JUL 19, 2011 21:23:22
Instrument	: CP10-H9191A
Result file	: 1P10200.42R
Calibration file	: 1P10200.CAL
Method file	: PESTD.MET

Analysis Report (B)

Injected on	: JUL 19, 2011 21:23:22
Instrument	: CP10-H9191B
Result file	: 1P10200B.42R
Calibration file	: 1P10200B.CAL
Method file	: PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Mirex			<0.34	<0.066			
☑ Endo. sulfate			<0.34	<0.066			
☑ Endrin ketone			<0.34	<0.066			
☐ DCB	B	1.126669				8.87	

Units: ug/kg

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 25 2011 Date:

Melissa A. McDermott
Senior Chemist

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD > 40

Printed on: 7/21/2011 14:01:38

Multiple Component Data Summary

Sample Name: BLANKA 7/13/11FG PBLK27193 BLK Sample ID:AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: State:

Analyses: 01363

Analysis Report (A)

Injected on	Jul 19, 2011 21:23:22
Instrument	H9191A
Result file	1P10200.42R
Calibration file	1P10200
Method file	PESTD

%SSR(TCX) 49.7% Conc: 0.51807
%SSR(DCB) 98.9% Conc: 1.03096

Analysis Report (B)

Injected on	Jul 19, 2011 21:23:22
Instrument	H9191B
Result file	1P10200B.42R
Calibration file	1P10200B
Method file	PESTDB

%SSR(TCX) 53.2% Conc: 0.554377
%SSR(DCB) 108.1% Conc: 1.12666

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)			<3.4	<0.8			4	40	
Toxaphene			<6.6	<2.2			4	40	

Units: ug/kg

%Difference = High - Low divided by the Average times 100

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 26 2011 Date:

Melissa A. McDermott
Senior Chemist

USF63 2919

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: BLANKA 7/13/11FG PBLK27193 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: State:
Analyses: 01363

Analysis Report (A)

Injected on : JUL 19, 2011 21:23:22
Instrument : CP10-H9191A
Result file : 1P10200.42R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 49.7% (28-121) Conc.: 0.518072
%SSR(DCB) : 98.9% (45-150) Conc.: 1.030962

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**85.10**	
2.84	2.86	2.90	382.523163	0.284187			1
3.10	3.15	3.16	896.75531	0.334183			2
3.26	3.27	3.32	2129.330811	1.383311			3
3.46	3.47	3.52	1960.251099	0.420427			4
3.57	3.59	3.63	849.028809	0.365527			5
3.62	3.63	3.68	3154.563232	1.771803			6
Height Summation:			**9372.452424**				
Amount Avg CF:			**0.759906**	Linear:			
Aroclor-1221					**3**	**172.99**	
E 2.70	2.75	2.76	381491.6562!	434.006435			1
* 2.84	2.86	2.90	382.523163	0.183491			3
* 2.81	2.86	2.87	382.523163	0.183491			2
Height Summation:			**382256.702576**				
Amount Avg CF:			**144.791139**	Linear:			
Aroclor-1232					**6**	**77.70**	
2.84	2.86	2.90	382.523163	0.229289			1
3.10	3.15	3.16	896.75531	0.7104			2
3.26	3.27	3.32	2129.330811	3.032911			3
3.46	3.47	3.52	1960.251099	0.914477			4
+ 3.57	3.59	3.63	849.028809	0.778675			5
* 3.63	3.63	3.68	3154.563232	3.902472			6
* 3.57	3.63	3.63	3154.563232	2.893166			5
Height Summation:			**11677.986847**				
Amount Avg CF:			**1.947119**	Linear:			
Aroclor-1242					**6**	**71.54**	
2.84	2.86	2.90	382.523163	0.400181			1
3.10	3.15	3.16	896.75531	0.462794			2
3.26	3.27	3.32	2129.330811	1.895139			3
3.46	3.47	3.52	1960.251099	0.556834			4
+ 3.57	3.59	3.63	849.028809	0.525283			5
* 3.62	3.63	3.68	3154.563232	2.504367			6
* 3.57	3.63	3.63	3154.563232	1.951689			5
Height Summation:			**11677.986847**				
Amount Avg CF:			**1.295167**	Linear:			
Aroclor-1248					**3**	**83.42**	
3.99	4.04	4.05	3144.05127	1.698087			3
4.98	5.03	5.04	472.868011	0.422808			5
5.19	5.21	5.25	472.271332	0.474704			6
Height Summation:			**4089.190613**				
Amount Avg CF:			**0.8652**	Linear:			
Aroclor-1254					**5**	**73.20**	
4.45	4.48	4.51	506.570679	0.132285			1
4.68	4.68	4.74	1838.564453	0.64511			2
4.98	5.03	5.04	472.868011	0.146269			4
5.12	5.15	5.18	834.298889	0.318761			5
5.33	5.36	5.39	800.804321	0.205139			6
Height Summation:			**4453.106353**				
Amount Avg CF:			**0.289513**	Linear:			

Analysis Report (B)

Injected on : JUL 19, 2011 21:23:22
Instrument : CP10-H9191B
Result file : 1P10200B.42R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 53.2% (28-121) Conc.: 0.554377
%SSR(DCB) : 108.1% (45-150) Conc.: 1.126669

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**27.63**	
3.15	3.18	3.21	665.992615	0.619499			2
3.34	3.36	3.40	690.603088	1.103024			3
3.50	3.53	3.56	1384.037476	0.629222			4
3.61	3.63	3.67	932.31134	0.802973			5
+ 3.70	3.72	3.76	503.801849	0.612116			6
3.70	3.75	3.76	514.29071	0.62486			6
Height Summation:			**4187.235229**				
Amount Avg CF:			**0.755916**	Linear:			
Aroclor-1221					**2**	**141.26**	
2.72	2.72	2.78	283.066132	0.841895			1
E 2.81	2.81	2.87	329672.25	1508.452299			2
Height Summation:			**329955.316132**				
Amount Avg CF:			**754.647097**	Linear:			
Aroclor-1232					**5**	**26.40**	
3.15	3.18	3.21	665.992615	1.336328			2
3.34	3.36	3.40	690.603088	2.370762			3
3.50	3.53	3.56	1384.037476	1.445206			4
3.61	3.63	3.67	932.31134	1.763987			5
+ 3.70	3.72	3.76	503.801849	1.323096			6
3.70	3.75	3.76	514.29071	1.350642			6
Height Summation:			**4187.235229**				
Amount Avg CF:			**1.653385**	Linear:			
Aroclor-1242					**5**	**26.92**	
3.15	3.18	3.21	665.992615	0.869726			2
3.34	3.36	3.40	690.603088	1.50532			3
3.50	3.53	3.56	1384.037476	0.840224			4
3.61	3.63	3.67	932.31134	1.124554			5
+ 3.70	3.72	3.76	503.801849	0.86698			6
3.70	3.75	3.76	514.29071	0.88503			6
Height Summation:			**4187.235229**				
Amount Avg CF:			**1.044971**	Linear:			
Aroclor-1248					**4**	**49.92**	
4.01	4.03	4.07	541.005432	0.400723			2
4.12	4.14	4.18	496.473633	0.402312			3
4.88	4.92	4.94	140.464294	0.17574			4
5.31	5.32	5.37	73.175293	0.14401			6
Height Summation:			**1251.118652**				
Amount Avg CF:			**0.280696**	Linear:			
Aroclor-1254					**5**	**208.18**	
4.52	4.54	4.58	9407.262695	5.677423			1
4.79	4.85	4.85	99.831947	0.078987			2
4.88	4.92	4.94	140.464294	0.062472			3
5.30	5.32	5.36	73.175293	0.067631			5
5.44	5.47	5.50	190.133026	0.122806			6
Height Summation:			**9910.867255**				
Amount Avg CF:			**1.201864**	Linear:			

USF03 2826

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:01:55

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: BLANKA 7/13/11FG PBLK27193 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: State:
Analyses: 01363

Analysis Report (A)

Injected on : JUL 19, 2011 21:23:22
Instrument : CP10--H9191A
Result file : 1P10200.42R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					5	117.36	
+ 4.91	4.92	4.97	571.277893	0.152576			1
4.91	4.97	4.97	617.61969	0.164953			1
5.12	5.15	5.18	834.298889	0.173845			2
5.33	5.36	5.39	800.804321	0.181354			3
5.79	5.80	5.85	76.703049	0.010893			5
5.99	6.02	6.05	2892.916748	0.828762			6
Height Summation:			6222.342697				
Amount Avg CF:			0.271961	Linear:			
Chlordane					6	77.04	
3.56	3.59	3.63	849.028809	0.244382			1
3.63	3.63	3.70	3154.583232	0.744179			2
4.01	4.04	4.08	3144.05127	0.959528			3
4.52	4.52	4.59	3450.577637	0.347367			4
+ 4.52	4.57	4.59	1385.568726	0.139484			4
4.62	4.68	4.69	1838.564453	0.162378			5
5.22	5.28	5.29	419.210999	0.159737			6
Height Summation:			12855.996400				
Amount Avg CF:			0.436262	Linear:			
Toxaphene					4	31.95	
* 5.35	5.36	5.42	800.804321	0.434871			2
* 5.31	5.36	5.38	800.804321	0.427336			1
5.74	5.76	5.81	346.493774	0.191161			4
+ 5.74	5.80	5.81	76.703049	0.042317			4
6.05	6.10	6.12	508.9599	0.36638			6
Height Summation:			2457.062316				
Amount Avg CF:			0.354937	Linear:			

Analysis Report (B)

Injected on : JUL 19, 2011 21:23:22
Instrument : CP10--H9191B
Result file : 1P10200B.42R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					4	85.92	
5.03	5.04	5.09	423.660034	0.242542			1
+ 5.44	5.44	5.50	65.624702	0.04125			3
5.44	5.47	5.50	190.133026	0.119513			3
5.87	5.90	5.93	509.677246	0.196334			5
6.12	6.18	6.18	999.661499	0.730466			6
Height Summation:			2123.131805				
Amount Avg CF:			0.322214	Linear:			
Chlordane					6	99.37	
3.47	3.53	3.54	1384.037476	0.70966			1
3.59	3.59	3.66	1224.737549	0.531237			2
+ 3.59	3.63	3.66	932.31134	0.404395			2
4.00	4.03	4.07	541.005432	0.365368			3
4.52	4.54	4.59	9407.262695	1.805487			4
* 4.64	4.65	4.71	659.074829	0.149401			6
* 4.60	4.65	4.67	659.074829	0.170509			5
Height Summation:			13875.192810				
Amount Avg CF:			0.621944	Linear:			
Toxaphene					5	97.12	
5.09	5.11	5.16	215.872421	0.369075			1
5.34	5.37	5.41	421.750946	0.347734			2
+ 5.53	5.53	5.60	207.870743	0.169851			3
5.53	5.57	5.60	2394.606689	1.95663			3
5.88	5.90	5.95	509.677246	0.619348			5
5.92	5.97	5.99	301.756287	0.315486			6
Height Summation:			3843.663589				
Amount Avg CF:			0.721655	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		0.53	4	40	
Aroclor-1221			0	0	E	** 135.61	3	5	
Aroclor-1232			0	0		16.32	4	10	
Aroclor-1242			0	0		21.38	4	30	
Aroclor-1248			0	0		** 102.02	4	30	
Aroclor-1254			0	0		** 122.35	4	40	
Aroclor-1260			0	0		16.92	4	40	
Chlordane			3.4	0.8		35.09	4	40	CMDL
Toxaphene			6.6	2.2		** 68.13	4	40	↓

Units: ug/kg

USF03 2691

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:01:55

LANCASTER LABORATORIES

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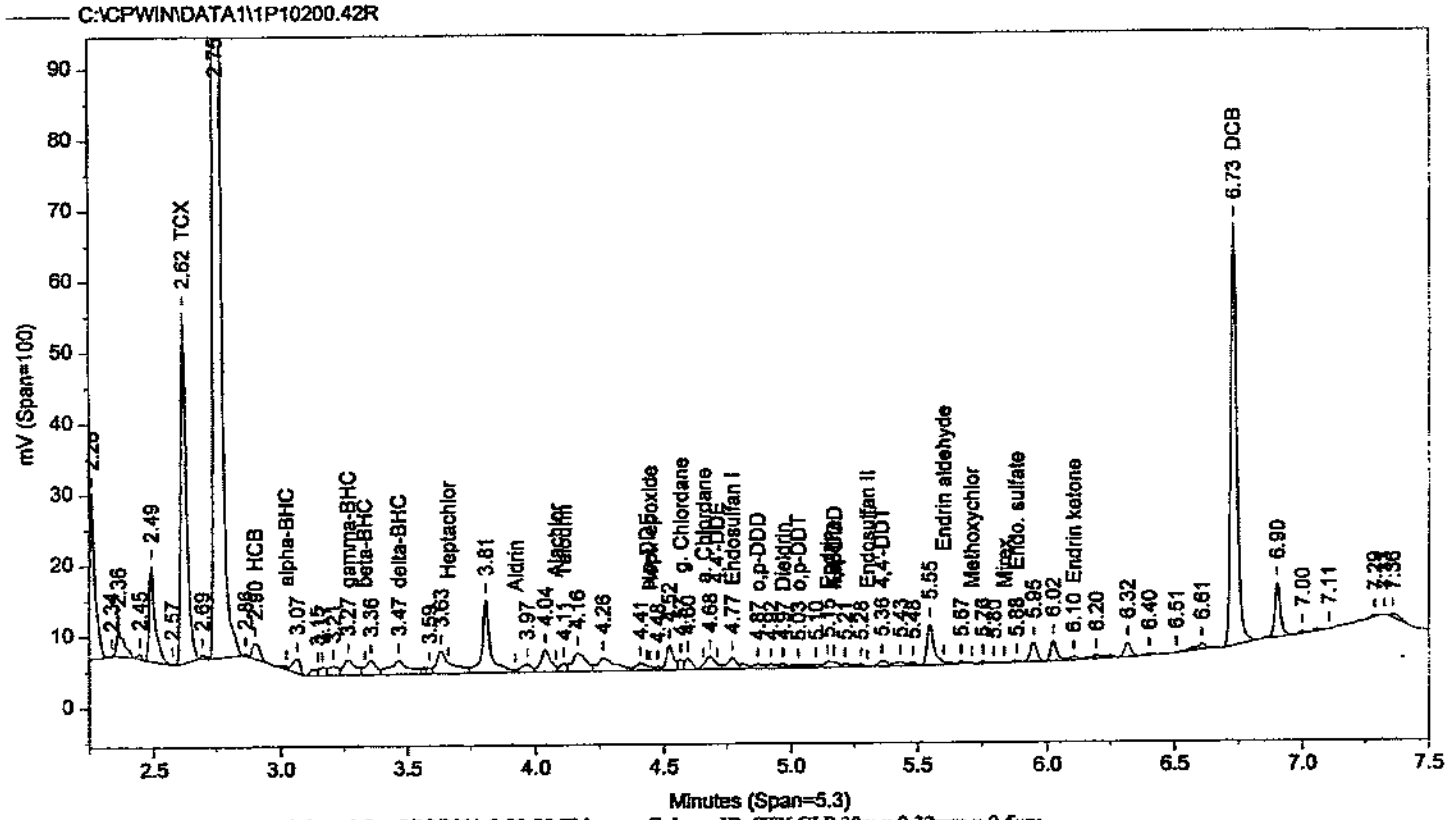
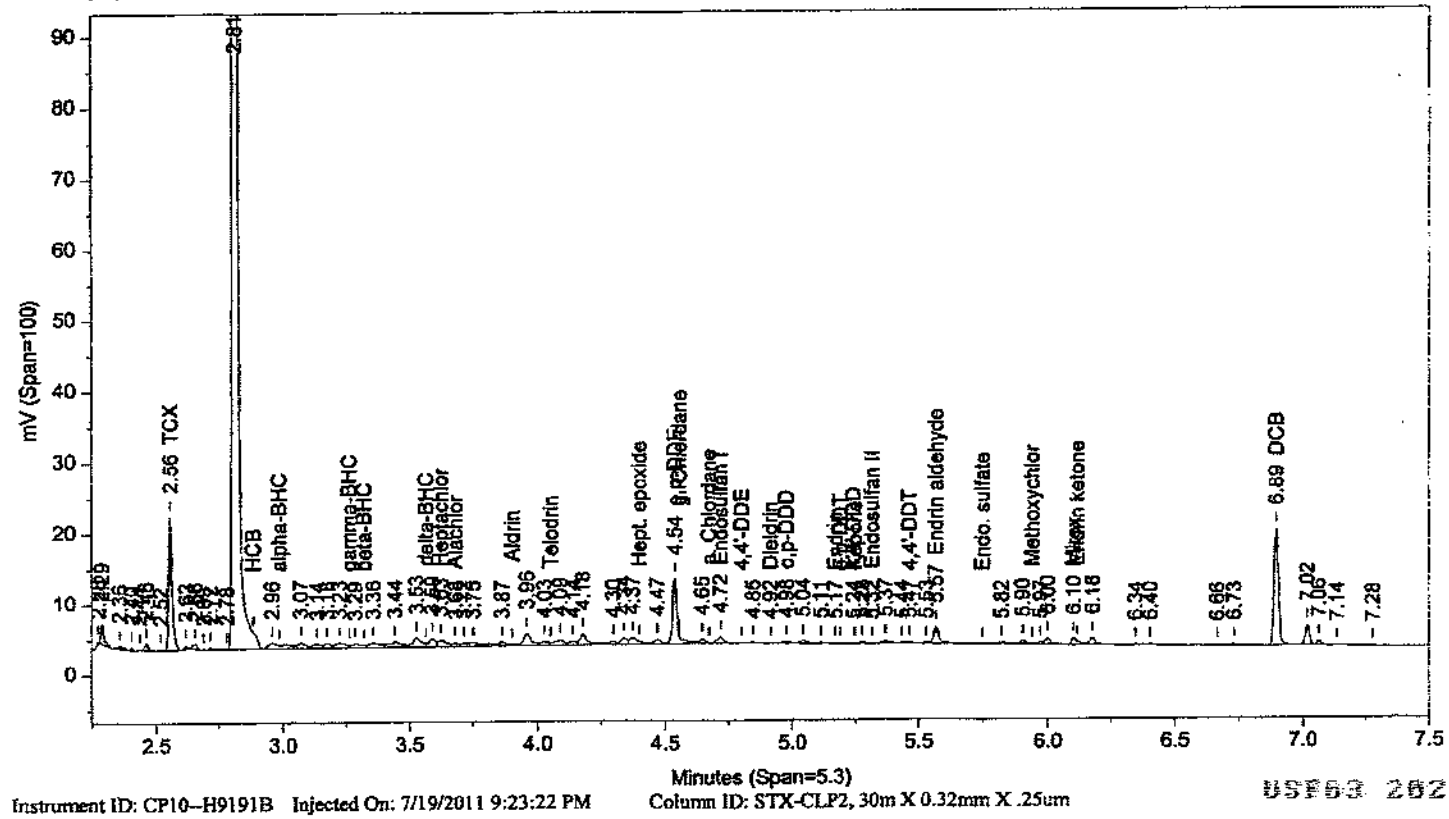


Instrument ID: CP10--H9191A Injected On: 7/19/2011 9:23:22 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.42R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 9:23:22 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

05569 2622

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

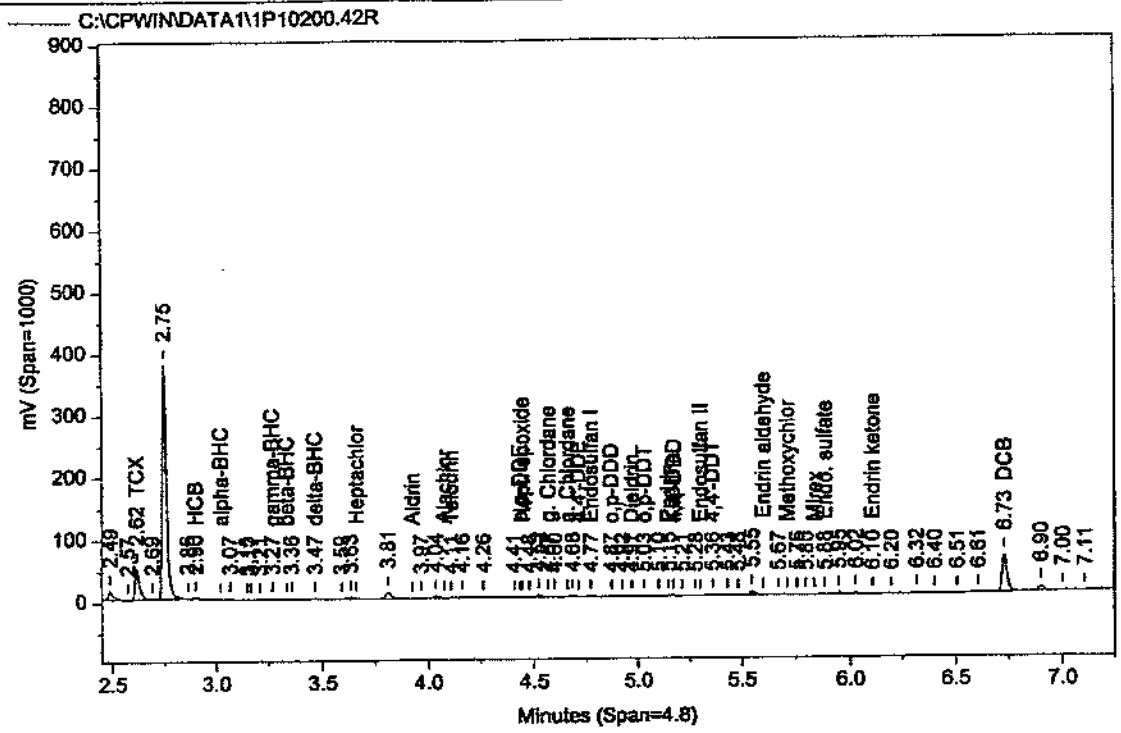
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	49607	.518	TCX	2.557	19170	.554	TCX
2.901	2192	.021	HCB	.	0	.	HCB
3.267	2129	.019	gamma-BHC	.	0	.	gamma-BHC
3.467	1960	.018	delta-BHC	.	0	.	delta-BHC
.	0	.	Heptachlor	3.625	932	.017	Heptachlor
.	0	.	Alachlor	3.683	503	.	Alachlor
4.107	1111	.015	Telodrin	.	0	.	Telodrin
.	0	.	o,p-DDE	4.539	9407	.32	o,p-DDE
4.567	1386	.014	g. Chlordane	.	0	.	g. Chlordane
4.77	1593	.018	Endosulfan I	4.72	894	.021	Endosulfan I
4.87	625	.013	o,p-DDD	4.978	279	.011	o,p-DDD
4.969	618	.007	Dieldrin	4.917	140	.003	Dieldrin
5.029	473	.009	o,p-DDT	.	0	.	o,p-DDT
5.146	834	.011	Endrin	5.17	137	.004	Endrin
.	0	.	4,4'-DDD	5.242	138	.004	4,4'-DDD
.	0	.	Endosulfan II	5.317	73	.002	Endosulfan II
5.358	801	.013	4,4'-DDT	5.465	190	.007	4,4'-DDT
.	0	.	Endrin aldehyde	5.567	2395	.091	Endrin aldehyde
5.883	270	.004	Endo. sulfate	.	0	.	Endo. sulfate
.	0	.	Mirex	6.102	921	.051	Mirex
6.105	509	.006	Endrin ketone	.	0	.	Endrin ketone
6.73	59416	1.031	DCB	6.895	16770	1.127	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.42A
Area File: C:\CPWIN\DATA1\1P10200B.42A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 9:31:00 PM
File Reported On: 7/19/2011 at 9:31:10 PM

10X REPLOTS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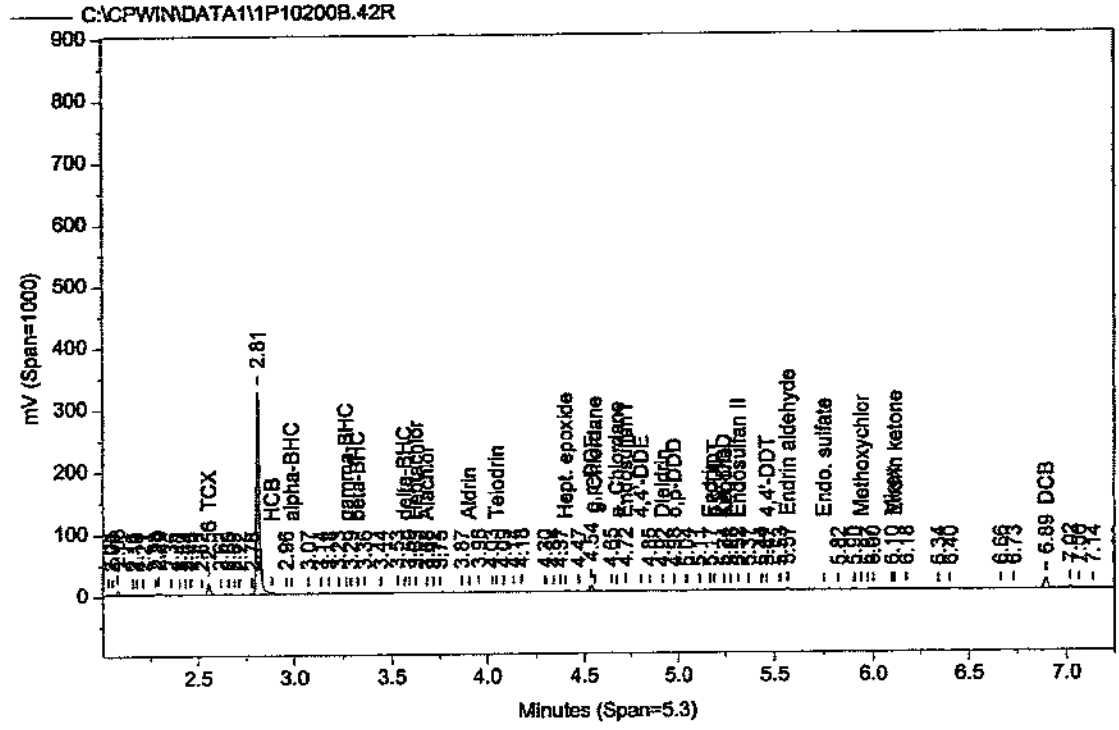
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.75
HCB
alpha-BHC
Heptachlor
Aldrin
Endosulfan II
Endrin aldehyde
Methoxychlor
Endrin ketone
6.73 DCB
6.90
7.00
7.11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mV (Span=1000)
Minutes (Span=5.3)
2.81
TCX
HCB
alpha-BHC
Aldrin
Telodrin
Hept. epoxide
4,4'-DDE
Endosulfan II
4,4'-DDT
Endrin aldehyde
Endo. sulfate
Methoxychlor
6.89 DCB

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSA 7/13/11FG LCS27193 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: State:
Analyses: 01363

Analysis Report (A)

Injected on : JUL 19, 2011 22:09:37
Instrument : CP10--H9191A
Result file : 1P10200.44R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 44.9% (28-121) Conc.: 0.467571
%SSR(DCB) : 88.9% (45-150) Conc.: 0.926318

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	44771	0.467571
HCB	2.88	2.90	2.92	1528	0.014523
alpha-BHC	3.00	3.02	3.04	23782	0.186436
gamma-BHC	3.25	3.27	3.29	23861	0.208707
beta-BHC	3.31	3.33	3.35	13671	0.251395
delta-BHC	3.46	3.48	3.50	28685	0.264420
Heptachlor	3.64	3.66	3.68	20520	0.201006
Aldrin	3.91	3.93	3.95	21312	0.210185
Hept. epoxide	4.43	4.45	4.47	24739	0.263480
g. Chlordane	4.52	4.55	4.58	28031	0.287926
a. Chlordane	4.64	4.66	4.68	26688	0.286888
4,4'-DDE	4.69	4.71	4.73	51539	0.592146
Endosulfan I	4.75	4.77	4.79	19058	0.220277
o,p-DDD	4.83	4.85	4.87	131	0.002709
Dieldrin	4.93	4.95	4.97	51330	0.545157
o,p-DDT	5.03	5.04	5.07	877	0.016739
Endrin	5.11	5.13	5.15	43553	0.560732
4,4'-DDD	5.15	5.17	5.19	41642	0.589751
Endosulfan II	5.28	5.30	5.32	42169	0.741254
4,4'-DDT	5.35	5.37	5.39	40875	0.648574
Endrin aldehyde	5.58	5.60	5.62	30248	0.493191
Methoxychlor	5.69	5.71	5.73	95086	3.054575
Endo. sulfate	5.88	5.90	5.92	42320	0.685880
Endrin ketone	6.08	6.10	6.12	48885	0.597204
DCB	6.71	6.74	6.75	53385	0.926318

Analysis Report (B)

Injected on : JUL 19, 2011 22:09:37
Instrument : CP10--H9191B
Result file : 1P10200B.44R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 50.6% (28-121) Conc.: 0.526662
%SSR(DCB) : 97.6% (45-150) Conc.: 1.016978

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	18211	0.526662
alpha-BHC	2.97	2.99	3.01	12831	0.175291
gamma-BHC	3.24	3.26	3.28	13850	0.202537
beta-BHC	3.30	3.32	3.34	7468	0.262406
delta-BHC	3.55	3.57	3.59	17754	0.273263
Heptachlor	3.60	3.62	3.64	11925	0.215979
Aldrin	3.89	3.90	3.93	11689	0.231896
Hept. epoxide	4.38	4.40	4.42	12639	0.296121
o,p-DDE / gchld	4.54	4.56	4.58	15287	0.520082
a. Chlordane	4.65	4.67	4.69	14833	0.316029
Endosulfan I	4.70	4.72	4.74	10692	0.253826
4,4'-DDE	4.78	4.80	4.82	27962	0.643942
Dieldrin	4.91	4.93	4.95	26703	0.565162
Endrin	5.14	5.16	5.18	22105	0.574847
4,4'-DDD	5.22	5.24	5.26	20253	0.604725
Endosulfan II	5.30	5.32	5.34	21030	0.627600
4,4'-DDT	5.44	5.46	5.48	16728	0.607803
Endrin aldehyde	5.54	5.56	5.58	14868	0.565427
Endo. sulfate	5.73	5.75	5.77	17617	0.678803
Methoxychlor	5.92	5.94	5.96	35012	3.298634
Endrin ketone	6.10	6.12	6.14	18791	0.633289
DCB	6.88	6.90	6.91	15137	1.016978

gchld $\frac{15287}{3097} \times \frac{4}{60} = .32907$

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	B	0.526662				11.89	
☑ HCB			<0.166	<0.042			
☑ alpha-BHC (B Mar-180 7/29/11)	B A	.175291 0.186436	0.166	0.034		6.16	#005
☑ gamma-BHC (B Mar-180 7/29/11)	B A	.202537 0.208707	0.166	0.034		3.00	
☑ beta-BHC	B	0.262406	0.166	0.06		4.29	
☑ delta-BHC	B	0.273263	0.166	0.036		3.29	
☑ Heptachlor	B	0.215979	0.166	0.06		7.18	
☑ Aldrin	B	0.231896	0.166	0.066		9.82	
☐ Alachlor							
☑ Telodrin			<0.24	<0.08			
☑ o,p-DDE			<0.34	<0.066			
☑ Hept. epoxide	B	0.296121	0.166	0.034		11.67	
☑ g. Chlordane	B	.32907	<0.166	<0.05			
☑ a. Chlordane	B	0.316029	0.166	0.046		9.67	
☑ 4,4'-DDE	B	0.643942	0.34	0.066		8.38	
☑ Endosulfan I	B	0.253826	0.166	0.044		14.15	

05163 2825

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:02:43

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSA 7/13/11FG LCS27193 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: State:
Analyses: 01363

Analysis Report (A)

Injected on : JUL 19, 2011 22:09:37
Instrument : CP10--H9191A
Result file : 1P10200.44R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 19, 2011 22:09:37
Instrument : CP10--H9191B
Result file : 1P10200B.44R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ o,p-DDD			<0.34	<0.066			
☑ Dieldrin	B	0.565162	0.34	0.066		3.60	
☑ o,p-DDT			<0.34	<0.066			
☑ Endrin	B	0.574847	0.34	0.066		2.49	
☑ Kepone			<1.4	<0.46			
☑ 4,4'-DDD	B	0.604725	0.34	0.066		2.51	
☑ Endosulfan II	B A	0.741254	0.34	0.066		16.61	AQS
☑ 4,4'-DDT	B A	0.648574	0.34	0.066		6.49	↓
☑ Endrin aldehyde	B	0.565427	0.34	0.066		13.65	
☑ Methoxychlor	B	3.298634	1.66	0.34		7.68	
☑ Mirex			<0.34	<0.066			
☑ Endo. sulfate	B A	0.685880	0.34	0.066		1.04	AQS
☑ Endrin ketone	B	0.633289	0.34	0.066		5.87	
☐ DCB	B	1.016978				9.33	

Units: ug/kg

Reviewed by: Melissa A McDermott
Date: JUL 25 2011

Melissa A. McDermott
Senior Chemist

Verified by:
Date: 7/26/11

USF63 2826

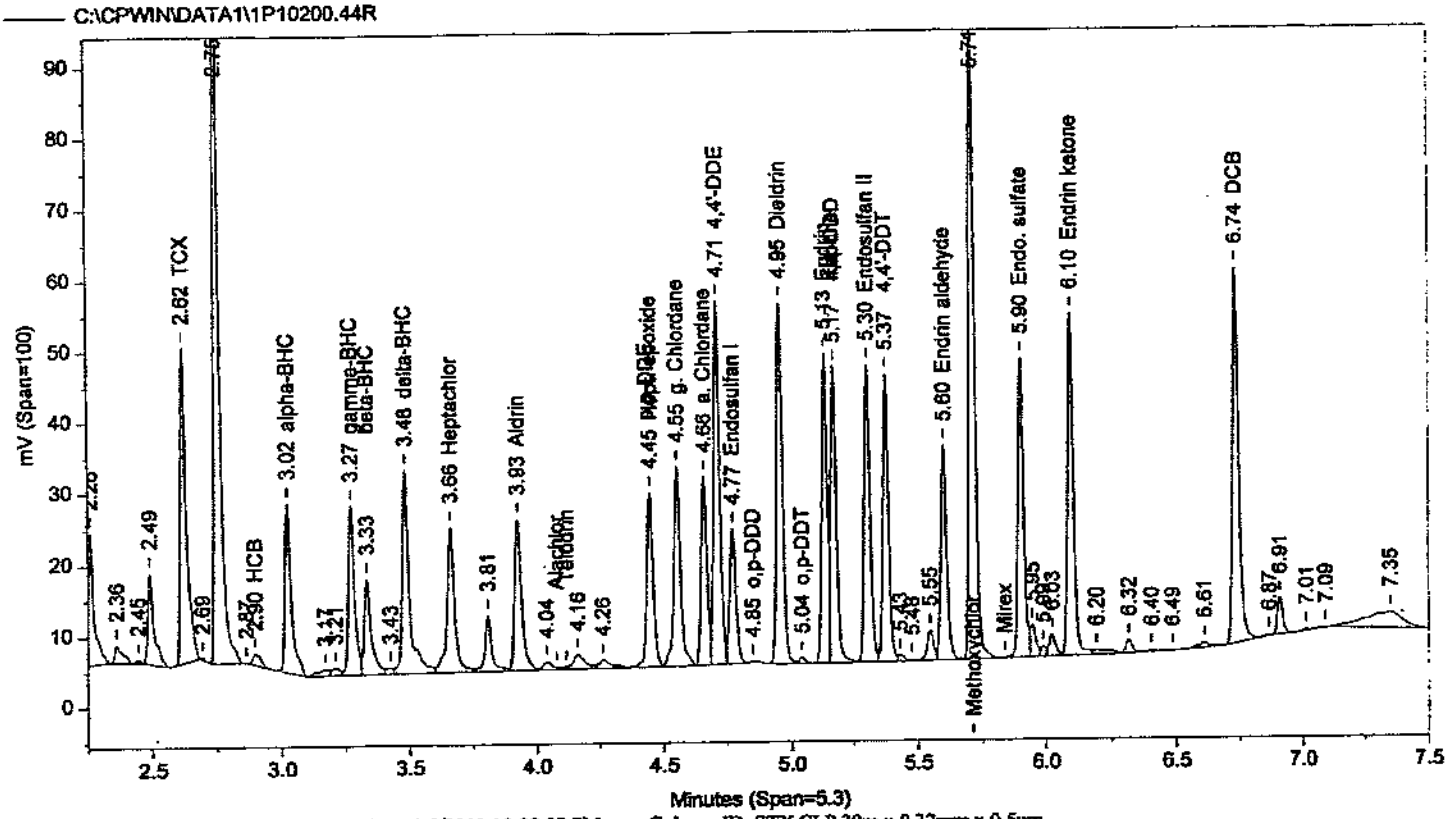
%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD > 40

Printed on: 7/21/2011 14:02:43

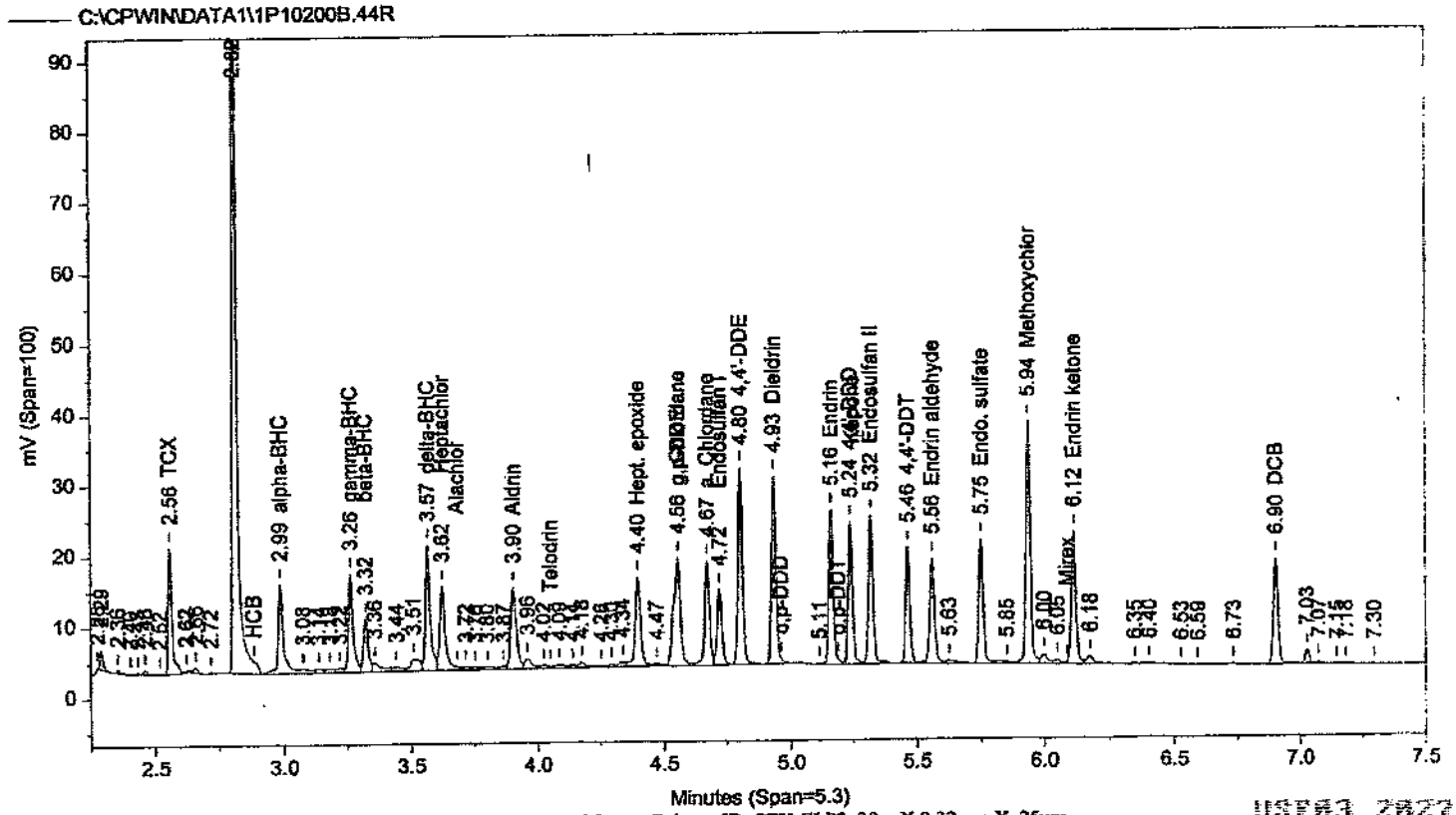
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.44R



Instrument ID: CP10--H9191A Injected On: 7/19/2011 10:09:37 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.44R



Instrument ID: CP10--H9191B Injected On: 7/19/2011 10:09:37 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USPB3 2827

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

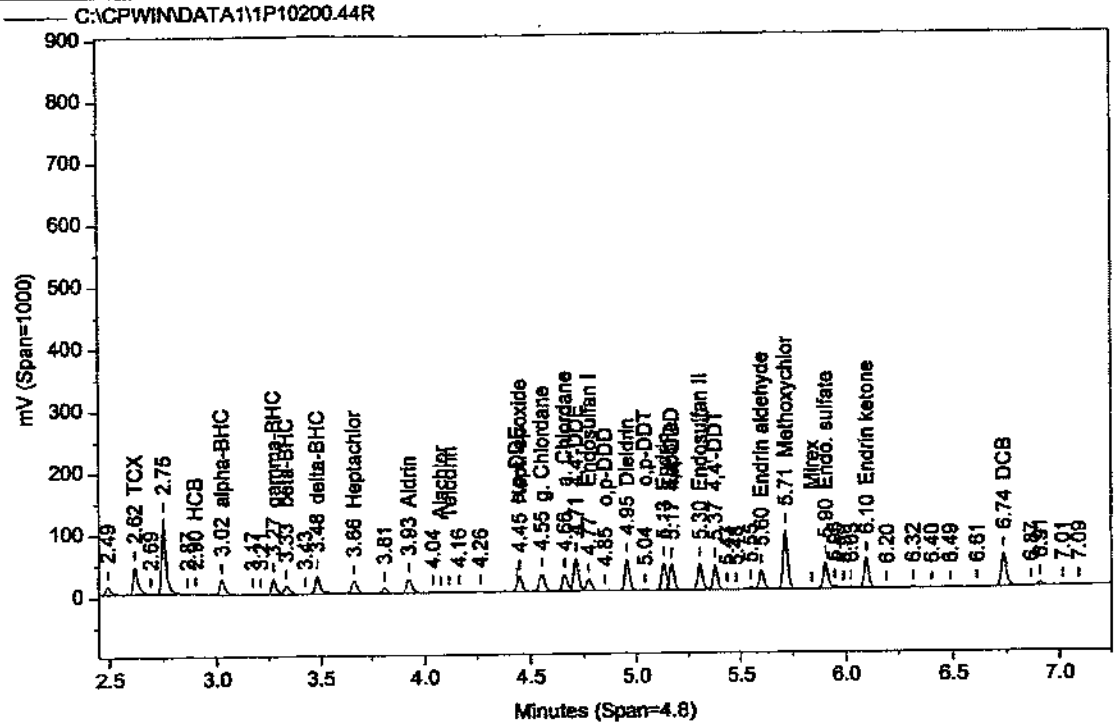
Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.619	44771	.468	TCX	2.558	18211	.527	TCX
2.901	1528	.015	HCB	.	0	.	HCB
3.024	23782	.186	alpha-BHC	2.988	12831	.175	alpha-BHC
3.272	23861	.209	gamma-BHC	3.263	13850	.203	gamma-BHC
3.335	13671	.251	beta-BHC	3.323	7468	.262	beta-BHC
3.484	28685	.264	delta-BHC	3.566	17754	.273	delta-BHC
3.662	20520	.201	Heptachlor	3.624	11925	.216	Heptachlor
3.926	21312	.21	Aldrin	3.905	11689	.232	Aldrin
4.448	24739	.263	Hept. epoxide	4.4	12639	.296	Hept. epoxide
4.553	28031	.288	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.556	15287	.52	o,p-DDE
4.659	26688	.287	a. Chlordane	4.673	14833	.316	a. Chlordane
4.711	51539	.592	4,4'-DDE	4.802	27962	.644	4,4'-DDE
4.771	19058	.22	Endosulfan I	4.721	10692	.254	Endosulfan I
4.849	131	.003	o,p-DDD	.	0	.	o,p-DDD
4.955	51330	.545	Dieldrin	4.932	26703	.565	Dieldrin
5.042	877	.017	o,p-DDT	.	0	.	o,p-DDT
5.134	43553	.561	Endrin	5.162	22105	.575	Endrin
5.17	41642	.59	4,4'-DDD	5.239	20253	.605	4,4'-DDD
5.302	42169	.741	Endosulfan II	5.319	21030	.628	Endosulfan II
5.375	40875	.649	4,4'-DDT	5.465	16728	.608	4,4'-DDT
5.601	30248	.493	Endrin aldehyde	5.559	14868	.565	Endrin aldehyde
5.712	95086	3.055	Methoxychlor	5.938	35012	3.299	Methoxychlor
5.902	42320	.686	Endo. sulfate	5.75	17617	.679	Endo. sulfate
6.098	48885	.597	Endrin ketone	6.116	18791	.633	Endrin ketone
6.735	53385	.926	DCB	6.902	15137	1.017	DCB

Files:
Area File: C:\CPWIN\DATA1\IP10200.44A
Area File: C:\CPWIN\DATA1\IP10200B.44A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\IP10200.CAL
Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/19/2011 10:17:14 PM
File Reported On: 7/19/2011 at 10:17:25 PM

10X REPLOTS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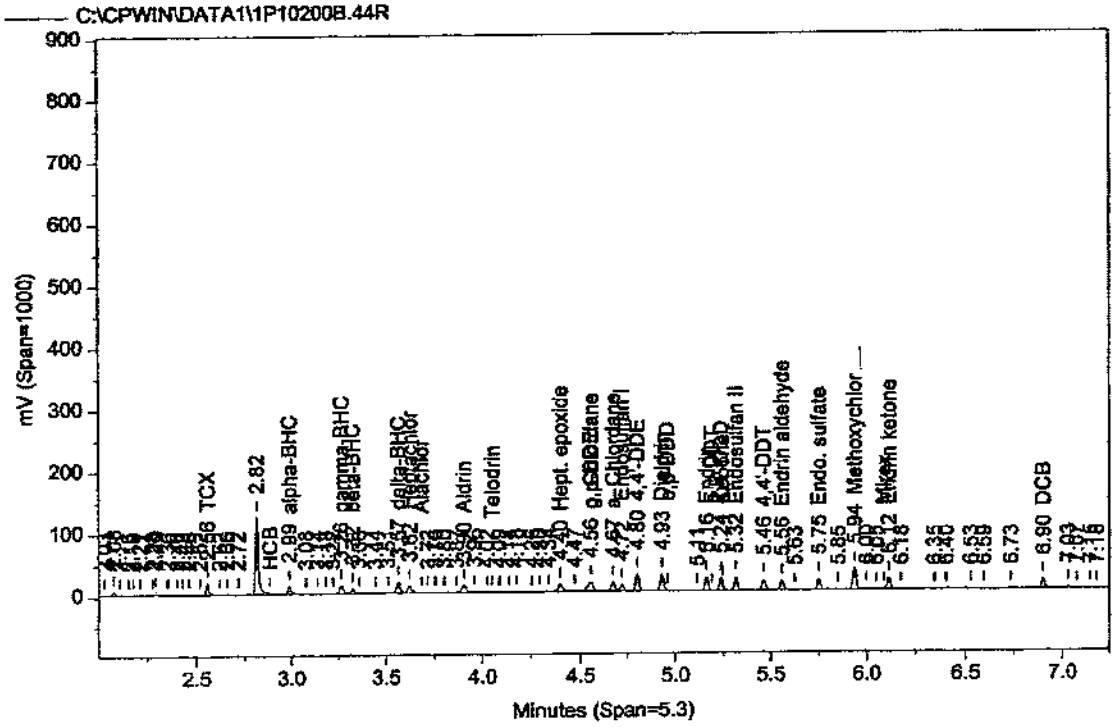
Minutes (Span=4.8)
2.62 TCX
2.75
HCB
3.02 alpha-BHC
3.66 Heptachlor
3.81
3.83 Aldrin
4.04
4.16
4.26
4.55 g. Chlordane
4.95 Dieldrin
5.04 o,p-DDT
5.30 Endosulfan II
5.37 4,4-DDT
5.60 Endrin aldehyde
5.71 Methoxychlor
5.90 Endo. sulfate
6.10 Endrin ketone
6.20
6.32
6.40
6.49
6.61
6.74 DCB
7.01
7.08


C:\CPWIN\DATA1\1P10200B.44R
mV (Span=1000)
Minutes (Span=5.3)
TCX
2.82
HCB
alpha-BHC
2.89
3.08
Aldrin
Telodrin
Hept. epoxide
4.56
4.80
4.93
5.16
5.24
5.32
5.46 4,4-DDT
5.56 Endrin aldehyde
5.63
5.75 Endo. sulfate
5.85
5.94 Methoxychlor
6.12
6.18
6.35
6.46
6.53
6.59
6.73
6.90 DCB
7.03
7.16

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSDA 7/13/11FG LCSD27193 **Sample ID:** AC **Batchnumber:** 111930027A
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: State:
Analyses: 01363

Analysis Report (A)

Injected on : JUL 19, 2011 22:55:03
Instrument : CP10--H9191A
Result file : 1P10200.46R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 49.3% (28-121) Conc.: 0.513397
%SSR(DCB) : 102% (45-150) Conc.: 1.062918

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	49159	0.513397
HCB	2.88	2.90	2.92	2400	0.022817
alpha-BHC	3.00	3.02	3.04	27392	0.214735
gamma-BHC	3.25	3.27	3.29	28114	0.245904
beta-BHC	3.31	3.33	3.35	15091	0.277491
delta-BHC	3.46	3.48	3.50	29888	0.275512
Heptachlor	3.64	3.66	3.68	23780	0.232942
Aldrin	3.91	3.93	3.95	24236	0.239020
Telodrin	4.10	4.11	4.14	2324	0.030840
Hept. epoxide	4.43	4.45	4.47	27834	0.296439
g. Chlordane	4.52	4.55	4.58	30901	0.317412
a. Chlordane	4.64	4.66	4.68	29505	0.317171
4,4'-DDE	4.69	4.71	4.73	58136	0.667942
Endosulfan I	4.75	4.77	4.79	21967	0.253900
o,p-DDD	4.83	4.85	4.87	779	0.016073
Dieldrin	4.93	4.96	4.97	58626	0.622645
o,p-DDT	5.03	5.04	5.07	1169	0.022316
Endrin	5.11	5.13	5.15	50019	0.643974
4,4'-DDD	5.15	5.17	5.19	47069	0.666607
Endosulfan II	5.28	5.30	5.32	47896	0.841928
4,4'-DDT	5.35	5.38	5.39	46521	0.738159
Endrin aldehyde	5.58	5.60	5.62	33760	0.550443
Methoxychlor	5.69	5.71	5.73	109499	3.517578
Endo. sulfate	5.88	5.90	5.92	48114	0.779784
Endrin ketone	6.08	6.10	6.12	54811	0.669598
DCB	6.71	6.73	6.75	61257	1.062918

Analysis Report (B)

Injected on : JUL 19, 2011 22:55:03
Instrument : CP10--H9191B
Result file : 1P10200B.46R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 54.2% (28-121) Conc.: 0.564528
%SSR(DCB) : 112% (45-150) Conc.: 1.167649

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	19521	0.564528
alpha-BHC	2.97	2.99	3.01	14613	0.199638
gamma-BHC	3.24	3.26	3.28	15967	0.233488
beta-BHC	3.30	3.32	3.34	8115	0.285134
delta-BHC	3.55	3.57	3.59	18809	0.289499
Heptachlor	3.60	3.62	3.64	13517	0.244809
Aldrin	3.89	3.90	3.93	13205	0.261982
Hept. epoxide	4.38	4.40	4.42	14768	0.346010
o,p-DDE/gChld	4.54	4.56	4.58	17115	0.582247
a. Chlordane	4.65	4.67	4.69	16414	0.349704
Endosulfan I	4.70	4.72	4.74	12067	0.286463
4,4'-DDE	4.78	4.80	4.82	31940	0.735544
Dieldrin	4.91	4.93	4.95	30551	0.646607
Endrin	5.14	5.16	5.18	25418	0.661002
4,4'-DDD	5.22	5.24	5.26	22511	0.672164
Endosulfan II	5.30	5.32	5.34	23380	0.697121
4,4'-DDT	5.44	5.47	5.48	19949	0.724839
Endrin aldehyde	5.54	5.56	5.58	15632	0.594478
Endo. sulfate	5.73	5.75	5.77	19770	0.761747
Methoxychlor	5.92	5.94	5.96	40600	3.825060
Endrin ketone	6.10	6.12	6.14	21109	0.711415
DCB	6.88	6.90	6.91	17380	1.167649

gChld : $\frac{17115}{3097} \times \frac{4}{60} = .3684$

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	B	0.564528				9.49	
☑ HCB			<0.166	<0.042			
☑ alpha-BHC	B/A	.1996 0.214735	0.166	0.034		7.29	A005
☑ gamma-BHC	B/A	.3334 0.245904	0.166	0.034		5.18	↓
☑ beta-BHC	B	0.285134	0.166	0.06		2.72	
☑ delta-BHC	B	0.289499	0.166	0.036		4.95	
☑ Heptachlor	B	0.244809	0.166	0.06		4.97	
☑ Aldrin	B	0.261982	0.166	0.066		9.17	
☐ Alachlor							
☑ Telodrin			<0.24	<0.08			
☑ o,p-DDE			<0.34	<0.066			
☑ Hept. epoxide	B	0.346010	0.166	0.034		15.43	
☑ g. Chlordane	B	.3684	<0.166	<0.05			
☑ a. Chlordane	B	0.349704	0.166	0.046		9.76	
☑ 4,4'-DDE	B	0.735544	0.34	0.066		9.63	

USF83 2838

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:03:42

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSDA 7/13/11FG LCSD27193 **Sample ID:** AC **Batchnumber:** 111930027A
Sample Amount: 60 g Total Volume: 4 ml Analyst: 0856 SDG: State:
Analyses: 01363

Analysis Report (A)

Injected on : JUL 19, 2011 22:55:03
Instrument : CP10-H9191A
Result file : 1P10200.46R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 19, 2011 22:55:03
Instrument : CP10-H9191B
Result file : 1P10200B.46R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Endosulfan I	B	0.286463	0.166	0.044		12.05	
☑ o,p-DDD			<0.34	<0.066			
☑ Dieldrin	B	0.646607	0.34	0.066		3.78	
☑ o,p-DDT			<0.34	<0.066			
☑ Endrin	B	0.661002	0.34	0.066		2.61	
☑ Kepone			<1.4	<0.46			
☑ 4,4'-DDD	B	0.672164	0.34	0.066		0.83	
☑ Endosulfan II	B A	.6971 ~~0.841928~~	0.34	0.066		18.82	A 005
☑ 4,4'-DDT	B A	.748 ~~0.738159~~	0.34	0.066		1.82	
☑ Endrin aldehyde	B	0.594478	0.34	0.066		7.69	
☑ Methoxychlor	B	3.825060	1.66	0.34		8.38	
☑ Mirex			<0.34	<0.066			
☑ Endo. sulfate	B A	.7617 ~~0.779784~~	0.34	0.066		2.34	A 005
☑ Endrin ketone	B	0.711415	0.34	0.066		6.06	
☐ DCB	B	1.167649				9.39	

Units: ug/kg

Reviewed by: Melissa A McDermott
Date: JUL 25 2011

Verified by:
Date:

Melissa A. McDermott
Senior Chemist

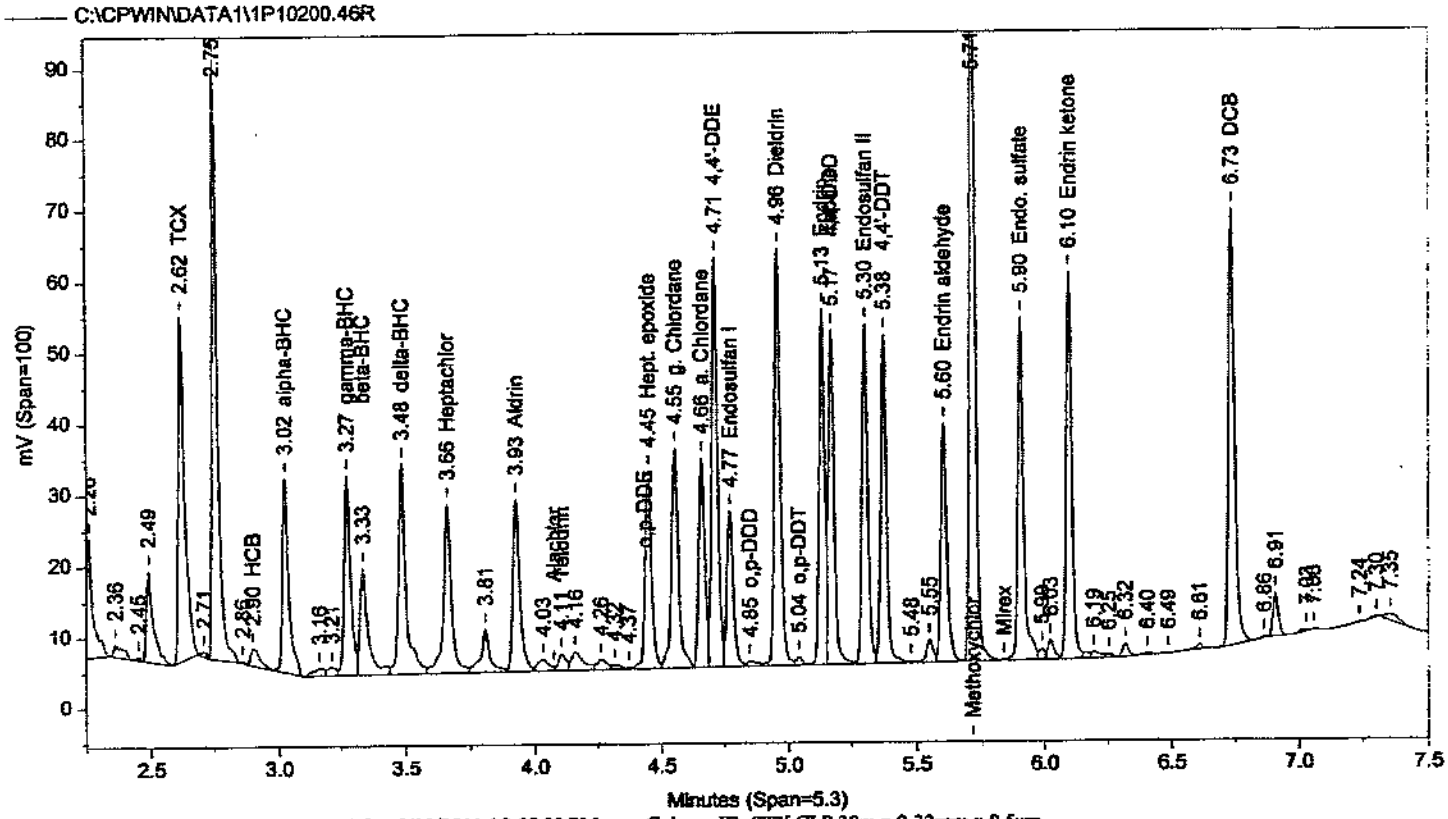
%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD > 40

Printed on: 7/21/2011 14:03:42

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.46R



Instrument ID: CP10–H9191A Injected On: 7/19/2011 10:55:03 PM Column ID: STX CLP 30m x 0.32mm x 0.5um

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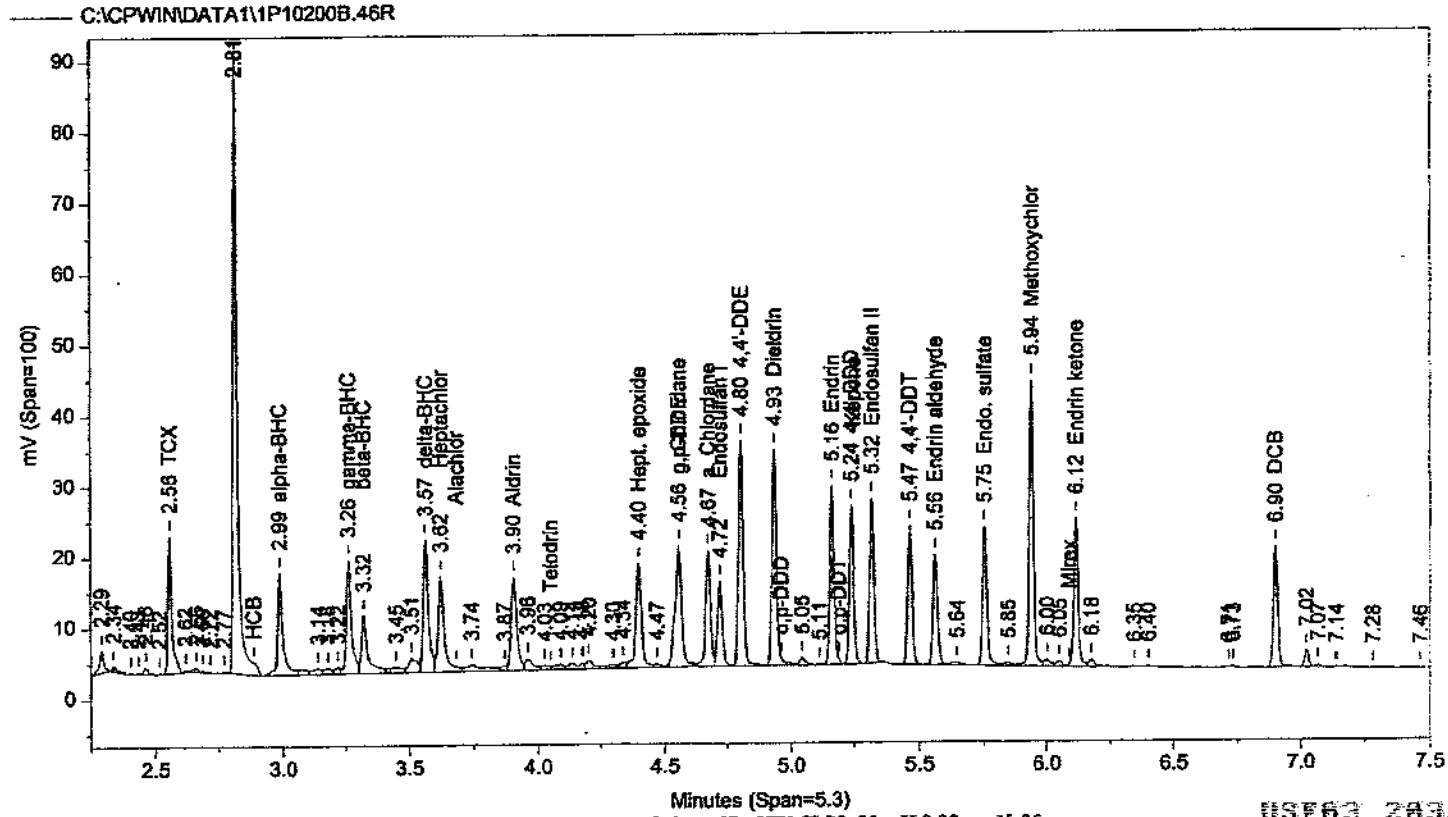

Instrument ID: CP10–H9191B Injected On: 7/19/2011 10:55:03 PM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.618	49159	.513	TCX	2.557	19521	.565	TCX
2.9	2400	.023	HCB	.	0	.	HCB
3.024	27392	.215	alpha-BHC	2.989	14613	.2	alpha-BHC
3.272	28114	.246	gamma-BHC	3.263	15967	.233	gamma-BHC
3.335	15091	.277	beta-BHC	3.323	8115	.285	beta-BHC
3.485	29888	.276	delta-BHC	3.566	18809	.289	delta-BHC
3.662	23780	.233	Heptachlor	3.624	13517	.245	Heptachlor
3.926	24236	.239	Aldrin	3.904	13205	.262	Aldrin
4.108	2324	.031	Telodrin	.	0	.	Telodrin
4.449	27834	.296	Hept. epoxide	4.401	14768	.346	Hept. epoxide
4.553	30901	.317	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.557	17115	.582	o,p-DDE
4.659	29505	.317	a. Chlordane	4.673	16414	.35	a. Chlordane
4.712	58136	.668	4,4'-DDE	4.803	31940	.736	4,4'-DDE
4.772	21967	.254	Endosulfan I	4.721	12067	.286	Endosulfan I
4.85	779	.016	o,p-DDD	.	0	.	o,p-DDD
4.956	58626	.623	Dieldrin	4.933	30551	.647	Dieldrin
5.042	1169	.022	o,p-DDT	.	0	.	o,p-DDT
5.134	50019	.644	Endrin	5.163	25418	.661	Endrin
5.171	47069	.667	4,4'-DDD	5.24	22511	.672	4,4'-DDD
5.303	47896	.842	Endosulfan II	5.32	23360	.697	Endosulfan II
5.375	46521	.738	4,4'-DDT	5.465	19949	.725	4,4'-DDT
5.601	33760	.55	Endrin aldehyde	5.56	15632	.594	Endrin aldehyde
5.713	109499	3.518	Methoxychlor	5.939	40600	3.825	Methoxychlor
5.903	48114	.78	Endo. sulfate	5.751	19770	.762	Endo. sulfate
6.099	54811	.67	Endrin ketone	6.117	21109	.711	Endrin ketone
6.733	61257	1.063	DCB	6.899	17380	1.168	DCB

Files:
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Area File: C:\CPWIN\DATA1\IP10200B.46A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
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Calibration File B: C:\CPWIN\DATA1\IP10200B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
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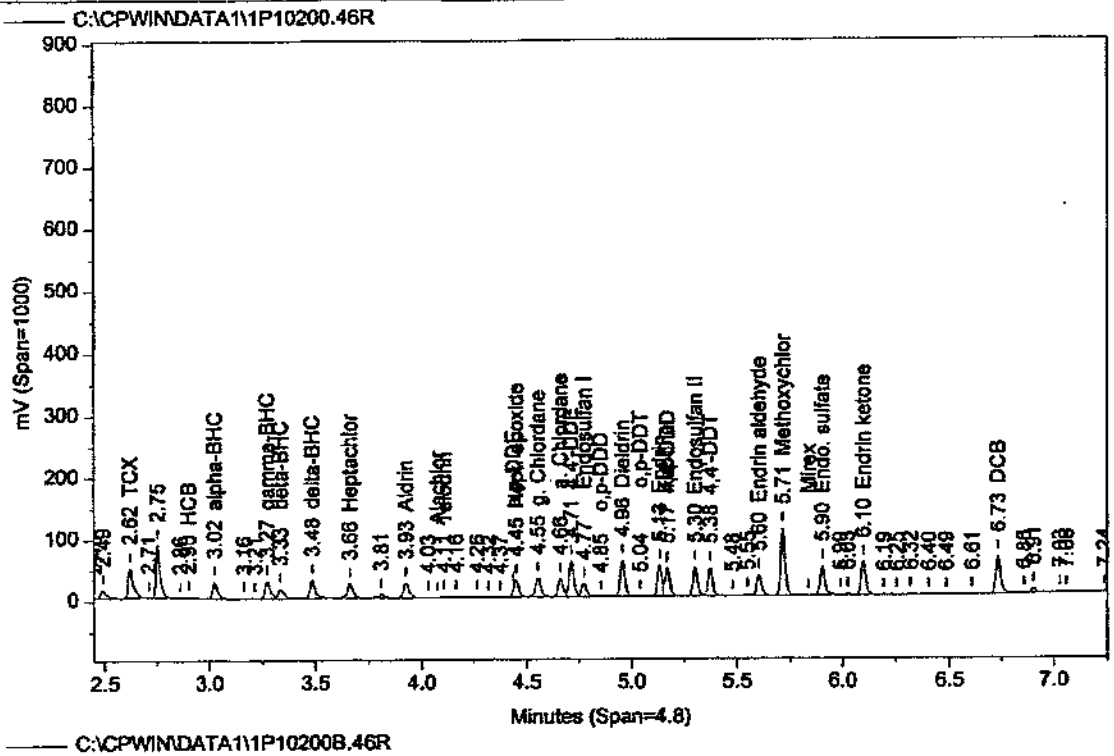
USF03 2633

10X REPLOTS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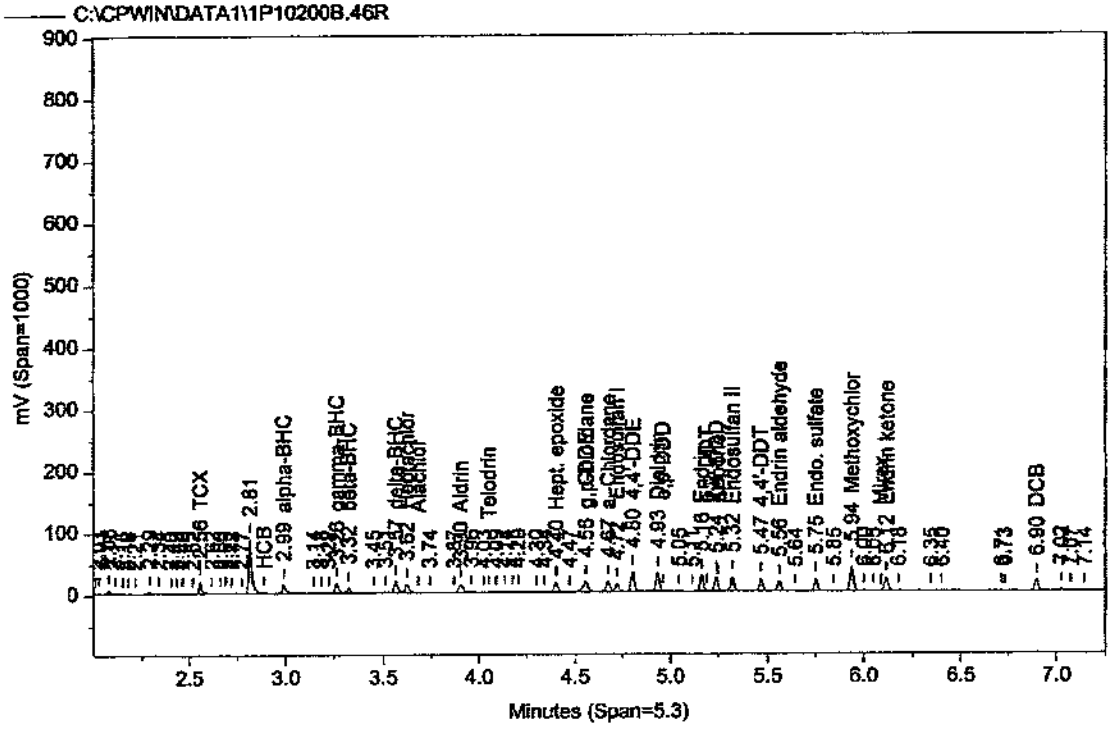
mV (Span=1000)
Minutes (Span=4.8)
2.62 TCX
2.75
HCB
3.02 alpha-BHC
3.48 delta-BHC
3.66 Heptachlor
3.81
3.93 Aldrin
4.55 g. Chlordane
4.85 o,p-DDD
4.96 Dieldrin
5.04 o,p-DDT
5.38 4,4'-DDT
5.71 Methoxychlor
5.90 Endo. sulfate
6.10 Endrin ketone
6.73 DCB
7.24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mV (Span=1000)
Minutes (Span=5.3)
2.81
HCB
2.99 alpha-BHC
3.74
Aldrin
Telodrin
Hept. epoxide
4.55
4,4'-DDE
4.83
5.47 4,4'-DDT
Endrin aldehyde
5.56
5.75 Endo. sulfate
5.94 Methoxychlor
6.35
6.73
6.90 DCB
7.14

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339378 MSFG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:32:48
Instrument : CP10--H9191A
Result file : 1P10200.77R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 56% (28-121) Conc.: 0.582671
%SSR(DCB) : 102.4% (45-150) Conc.: 1.065245

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	55885	0.582671
HCB	2.88	2.90	2.92	2373	0.022525
alpha-BHC	3.00	3.02	3.04	28408	0.222326
gamma-BHC	3.25	3.27	3.29	27739	0.242222
beta-BHC	3.31	3.34	3.35	15710	0.288398
delta-BHC	3.46	3.48	3.50	28048	0.258122
Heptachlor	3.64	3.66	3.68	26072	0.254969
Aldrin	3.91	3.92	3.95	25820	0.254221
Hept. epoxide	4.43	4.45	4.47	20150	0.214242
g. Chlordane	4.52	4.55	4.58	25787	0.264436
a. Chlordane	4.64	4.65	4.68	39440	0.423273
4,4'-DDE	4.69	4.71	4.73	67895	0.778766
Endosulfan I	4.75	4.77	4.79	16652	0.192154
o,p-DDD	4.83	4.85	4.87	3055	0.062945
Dieldrin	4.93	4.95	4.97	51625	0.547372
o,p-DDT	5.03	5.04	5.07	8226	0.156782
Endrin	5.11	5.13	5.15	47732	0.613517
Kepone (44DD)	5.15	5.17	5.19	41806	1.869418
Endosulfan II	5.28	5.30	5.32	39844	0.699219
4,4'-DDT	5.35	5.37	5.39	45452	0.720001
Endrin aldehyde	5.58	5.60	5.62	27127	0.441564
Methoxychlor	5.69	5.71	5.73	80087	2.568468
Mirex	5.82	5.83	5.86	4680	0.086843
Endo. sulfate	5.88	5.90	5.92	38721	0.626510
Endrin ketone	6.08	6.10	6.12	45890	0.559686
DCB	6.71	6.73	6.75	61494	1.065245

Analysis Report (B)

Injected on : JUL 20, 2011 07:32:48
Instrument : CP10--H9191B
Result file : 1P10200B.77R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 56.2% (28-121) Conc.: 0.584348
%SSR(DCB) : 98.8% (45-150) Conc.: 1.028796

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	20240	0.584348
HCB	2.87	2.89	2.91	787	0.016672
alpha-BHC	2.97	2.99	3.01	15031	0.205005
gamma-BHC	3.24	3.26	3.28	15825	0.231025
beta-BHC	3.30	3.32	3.34	5990	0.210111
delta-BHC	3.55	3.57	3.59	17252	0.265089
Heptachlor	3.60	3.62	3.64	14596	0.263917
Alachlor	3.66	3.69	3.70	1523 E	0.000000
Aldrin	3.89	3.90	3.93	14278	0.282799
Telodrin	4.03	4.05	4.07	2007	0.052689
Hept. epoxide	4.38	4.40	4.42	14590	0.341254
o,p-DDE	4.54	4.56	4.58	14521	0.493205
a. Chlordane	4.65	4.67	4.69	9044	0.192363
Endosulfan I	4.70	4.72	4.74	5063	0.119981
4,4'-DDE	4.78	4.80	4.82	22425	0.515572
Dieldrin	4.91	4.93	4.95	20498	0.433115
o,p-DDD	4.94	4.97	4.98	842	0.032951
Endrin	5.14	5.16	5.18	18982	0.492810
4,4'-DDD	5.22	5.24	5.26	12590	0.375300
Endosulfan II	5.30	5.32	5.34	15333	0.456807
4,4'-DDT	5.44	5.47	5.48	18813	0.682440
Endrin aldehyde	5.54	5.56	5.58	15949	0.605523
Endo. sulfate	5.73	5.75	5.77	16023	0.616327
Methoxychlor	5.92	5.94	5.96	26320	2.475608
Endrin ketone	6.10	6.12	6.14	15129	0.509033
DCB	6.88	6.90	6.91	15338	1.028796

44DDD : 41806/4707 x 4/60.1 = 591

Summary Report

Compound Name		Column		Amount Found		LOQ	MDL	Qualifiers	%Difference		Comments
☐ TCX		B		0.584348					0.29		
☐ HCB						<0.1657	<0.0419				
☑ alpha-BHC	B	A	.205	~~0.222326~~		0.1657	0.0339		8.11		ADD
☑ gamma-BHC	B	A	.231	~~0.242222~~		0.1657	0.0339		4.73		
☑ beta-BHC	B	A	.210	~~0.288398~~		0.1657	0.0599		31.41		
☑ delta-BHC		B		0.265089		0.1657	0.0359		2.66		
☑ Heptachlor		B		0.263917		0.1657	0.0599		3.45		
☑ Aldrin		B		0.282799		0.1657	0.0659		10.64		
☐ Alachlor											
☐ Telodrin						<0.2396	<0.0799				
☐ o,p-DDE						<0.3394	<0.0659				
☑ Hept. epoxide	B	A	.341	~~0.214242~~		0.1657	0.0339		45.73	**	ADD
☐ g. Chlordane						<0.1657	<0.0499				
☐ a. Chlordane		B		0.192363		0.1657	0.0459		75.02	**	
☑ 4,4'-DDE		B		0.515572		0.3394	0.0659		40.67	**	

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

USF03 2835

Printed on: 7/21/2011 14:21:13

Lancaster Laboratories Single Component Data Summary

Sample Name: **6339378** MSFG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:32:48
Instrument : CP10--H9191A
Result file : 1P10200.77R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 20, 2011 07:32:48
Instrument : CP10--H9191B
Result file : 1P10200B.77R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Endosulfan I	B	0.119981	<0.1657	0.0439	J	46.24 **	
☐ o,p-DDD			<0.3394	<0.0659			
☑ Dieldrin	B A	.1433 ~~0.547372~~	0.3394	0.0659		23.31	A 005
☐ o,p-DDT			<0.3394	<0.0659			
☑ Endrin	B A	.4928 ~~0.613517~~	0.3394	0.0659		21.82	
☐ Kepone			<1.3977	<0.4592			
☑ 4,4'-DDD	B	.5911	<0.3394	<0.0659			
☑ Endosulfan II	B	0.456807	0.3394	0.0659		41.94 **	
☑ 4,4'-DDT	B A	.682 ~~0.720001~~	0.3394	0.0659		5.36	A M .72
☑ Endrin aldehyde	B	0.605523	0.3394	0.0659		31.32	A M
☑ Methoxychlor	B A	2.4192 ~~2.568468~~	1.6572	0.3394		3.68	A M 25?
☑ Mirex			<0.3394	<0.0659			
☑ Endo. sulfate	B A	.616 ~~0.626510~~	0.3394	0.0659		1.64	A M .616
☑ Endrin ketone	B A	.1509 ~~0.559686~~	0.3394	0.0659		9.48	A M .559
☐ DCB	B A	.0297 ~~1.065245~~				3.48	

Mar BSC 7/26/11

Units: ug/kg

Reviewed by: Melissa A McDermott
Date: JUL 25 2011

Melissa A. McDermott
Senior Chemist

Verified by:
Date: 7/25/11

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

USF03 2836

Printed on: 7/21/2011 14:21:13

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339378 MSFG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:32:48
Instrument : CP10--H9191A
Result file : 1P10200.77R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 56% (28-121) Conc.: 0.582671
%SSR(DCB) : 102.4% (45-150) Conc.: 1.065245

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**119.38**	
2.84	2.87	2.90	195.141617	0.144735			1
3.10	3.13	3.16	581.095886	0.21619			2
E 3.26	3.27	3.32	27739.13867:	17.990635			3
3.46	3.48	3.52	28047.99023-	6.005613			4
3.57	3.58	3.63	1630.547607	0.700822			5
E 3.62	3.66	3.68	26072.15820:	14.619418			6
Height Summation:			**84266.072219**				
Amount Avg CF:			**6.612902**	Linear:			
Aroclor-1221					**3**	**171.89**	
E 2.70	2.75	2.76	57033.19921!	64.776227			1
2.81	2.82	2.87	494.605469	0.23686			2
+* 2.81	2.87	2.87	195.141617	0.093451			2
* 2.84	2.87	2.90	195.141617	0.093451			3
Height Summation:			**57722.946305**				
Amount Avg CF:			**21.702179**	Linear:			
Aroclor-1232					**6**	**120.19**	
2.84	2.87	2.90	195.141617	0.116776			1
3.10	3.13	3.16	581.095886	0.459572			2
E 3.26	3.27	3.32	27739.13867:	39.444482			3
3.46	3.48	3.52	28047.99023-	13.062908			4
3.57	3.58	3.63	1630.547607	1.492947			5
E 3.63	3.66	3.68	26072.15820:	32.199886			6
Height Summation:			**84266.072219**				
Amount Avg CF:			**14.462762**	Linear:			
Aroclor-1242					**6**	**119.88**	
2.84	2.87	2.90	195.141617	0.20381			1
3.10	3.13	3.16	581.095886	0.299391			2
E 3.26	3.27	3.32	27739.13867:	24.647206			3
3.46	3.48	3.52	28047.99023-	7.95413			4
3.57	3.58	3.63	1630.547607	1.007121			5
E 3.62	3.66	3.68	26072.15820:	20.66391			6
Height Summation:			**84266.072219**				
Amount Avg CF:			**9.129261**	Linear:			
Aroclor-1248					**4**	**95.42**	
3.72	3.76	3.78	2784.656006	1.129849			1
3.99	4.04	4.05	846.46637	0.456412			3
4.98	5.04	5.04	8226.373047	7.343245			5
5.19	5.24	5.25	4391.032227	4.406308			6
Height Summation:			**16248.527650**				
Amount Avg CF:			**3.333954**	Linear:			
Aroclor-1254					**4**	**65.07**	
E 4.68	4.71	4.74	67895.14843!	23.783221			2
4.98	5.04	5.04	8226.373047	2.540378			4
E 5.12	5.13	5.18	47732.32421!	18.206755			5
+ 5.12	5.17	5.18	41806.13281:	15.946301			5
5.33	5.37	5.39	45462.46875	11.624			6
Height Summation:			**169306.314454**				
Amount Avg CF:			**14.038589**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 07:32:48
Instrument : CP10--H9191B
Result file : 1P10200B.77R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 56.2% (28-121) Conc.: 0.584348
%SSR(DCB) : 98.8% (45-150) Conc.: 1.028796

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**118.45**	
2.86	2.89	2.91	786.682983	1.256347			1
3.15	3.18	3.21	2853.644043	2.650013			2
3.34	3.36	3.40	1928.948364	3.075769			3
+ 3.34	3.39	3.40	1641.424927	2.617304			3
3.50	3.53	3.56	1865.427368	0.846665			4
3.61	3.62	3.67	14595.90332	12.550109			5
Height Summation:			**22030.606078**				
Amount Avg CF:			**4.075781**	Linear:			
Aroclor-1221					**3**	**171.33**	
2.72	2.74	2.78	126.060112	0.374304			1
E 2.81	2.82	2.87	41973.89843!	191.736718			2
2.86	2.89	2.92	786.682983	1.017357			3
Height Summation:			**42886.641533**				
Amount Avg CF:			**64.376126**	Linear:			
Aroclor-1232					**5**	**126.89**	
2.86	2.89	2.92	786.682983	1.036797			1
3.15	3.18	3.21	2853.644043	5.71637			2
3.34	3.36	3.40	1928.948364	6.610844			3
+ 3.34	3.39	3.40	1641.424927	5.625451			3
3.50	3.53	3.56	1865.427368	1.94463			4
E 3.61	3.62	3.67	14595.90332	27.570347			5
Height Summation:			**22030.606078**				
Amount Avg CF:			**8.575798**	Linear:			
Aroclor-1242					**5**	**119.01**	
2.86	2.89	2.92	786.682983	1.810452			1
3.15	3.18	3.21	2853.644043	3.7204			2
3.34	3.36	3.40	1928.948364	4.197567			3
+ 3.34	3.39	3.40	1641.424927	3.57189			3
3.50	3.53	3.56	1865.427368	1.130582			4
E 3.61	3.62	3.67	14595.90332	17.576283			5
Height Summation:			**22030.606078**				
Amount Avg CF:			**5.687057**	Linear:			
Aroclor-1248					**4**	**103.21**	
+ 4.01	4.01	4.07	1221.773315	0.903461			2
4.01	4.05	4.07	2007.031128	1.484134			2
E 4.88	4.93	4.94	20497.96679:	25.603029			4
E 5.05	5.11	5.11	50969.39453:	91.671555			5
E 5.31	5.32	5.37	15332.56738:	30.124588			6
Height Summation:			**88806.959839**				
Amount Avg CF:			**37.220827**	Linear:			
Aroclor-1254					**6**	**56.31**	
4.52	4.56	4.58	14521.46386:	8.749337			1
E 4.79	4.80	4.85	22425.23046!	17.713362			2
4.88	4.93	4.94	20497.96679:	9.10136			3
E 5.05	5.11	5.11	50969.39453:	32.444871			4
5.30	5.32	5.36	15332.56738:	14.147263			5
5.44	5.47	5.50	18813.10351!	12.131066			6
Height Summation:			**142559.726563**				
Amount Avg CF:			**15.714543**	Linear:			

USF03 2837

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:21:26

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6339378 MSFG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.1 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:32:48
Instrument : CP10-H9191A
Result file : 1P10200.77R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	68.63	
E 4.91	4.95	4.97	51624.77734	13.7649			1
5.12	5.13	5.18	47732.32421	9.92955			2
+ 5.12	5.17	5.18	41806.13281	8.69675			2
5.33	5.37	5.39	45452.46875	10.276251			3
5.58	5.60	5.64	27126.99414	8.006107			4
5.79	5.80	5.85	5151.757813	0.730439			5
+ 5.79	5.83	5.85	4680.281738	0.663591			5
5.99	6.03	6.05	6668.070801	1.907088			6
Height Summation:			**183756.393068**				
Amount Avg CF:			**7.435723**	Linear:			
Chlordane					6	90.06	
3.56	3.58	3.63	1630.547607	0.468552			1
3.63	3.66	3.70	26072.15820	6.140331			2
4.01	4.04	4.08	846.46637	0.257902			3
4.52	4.55	4.59	25786.83398	2.591618			4
4.62	4.65	4.69	39440.28125	3.477483			5
5.22	5.24	5.29	4391.032227	1.670387			6
Height Summation:			**98167.319641**				
Amount Avg CF:			**2.434379**	Linear:			
Toxaphene					6	77.95	
* 5.35	5.37	5.42	45452.46875	24.641574			2
* 5.31	5.37	5.38	45452.46875	24.214581			1
5.55	5.60	5.62	27126.99414	11.855747			3
+ 5.74	5.77	5.81	3350.498779	1.845403			4
5.74	5.80	5.81	5151.757813	2.837508			4
5.80	5.83	5.87	4680.281738	1.92368			5
6.05	6.10	6.12	45890.19140	32.979548			6
Height Summation:			**173754.162598**				
Amount Avg CF:			**16.408773**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 07:32:48
Instrument : CP10-H9191B
Result file : 1P10200B.77R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					3	54.62	
5.03	5.04	5.09	6103.478516	3.488377			1
5.44	5.47	5.50	18813.10351	11.805771			3
+ 5.71	5.71	5.77	3665.891357	2.930588			4
5.71	5.75	5.77	16022.58496	12.808781			4
Height Summation:			**40939.166993**				
Amount Avg CF:			**9.367643**	Linear:			
Chlordane					6	78.99	
3.47	3.53	3.54	1865.427368	0.954899			1
3.59	3.62	3.66	14595.90332	6.320521			2
+ 4.00	4.01	4.07	1221.773315	0.823752			3
4.00	4.05	4.07	2007.031128	1.353193			3
4.52	4.56	4.59	14521.46386	2.782391			4
4.60	4.63	4.67	5975.178223	1.543266			5
4.64	4.67	4.71	9043.759766	2.046659			6
Height Summation:			**48008.763672**				
Amount Avg CF:			**2.500155**	Linear:			
Toxaphene					6	94.59	
5.09	5.11	5.16	50969.39453	86.996925			1
5.34	5.38	5.41	928.96167	0.764654			2
5.53	5.56	5.60	15949.24707	13.010424			3
+ 5.71	5.71	5.78	3665.891357	6.382593			4
5.71	5.75	5.78	16022.58496	27.896529			4
* 5.92	5.94	5.99	26320.47460	27.472246			6
* 5.88	5.94	5.95	26320.47460	31.930814			5
Height Summation:			**136511.137450**				
Amount Avg CF:			**31.345265**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0	E	** 47.47	4	40	
Aroclor-1221			0	0	E	** 99.15	3	5	
Aroclor-1232			0	0	E	** 51.11	4	10	
Aroclor-1242			0	0	E	** 46.47	4	30	
Aroclor-1248			0	0		** 167.12	4	30	
Aroclor-1254			0	0	E	11.27	4	40	
Aroclor-1260			0	0	E	22.99	4	40	
Chlordane			3.3943	0.7987		2.67	4	40	
Toxaphene			6.589	2.1963		** 62.56	4	40	

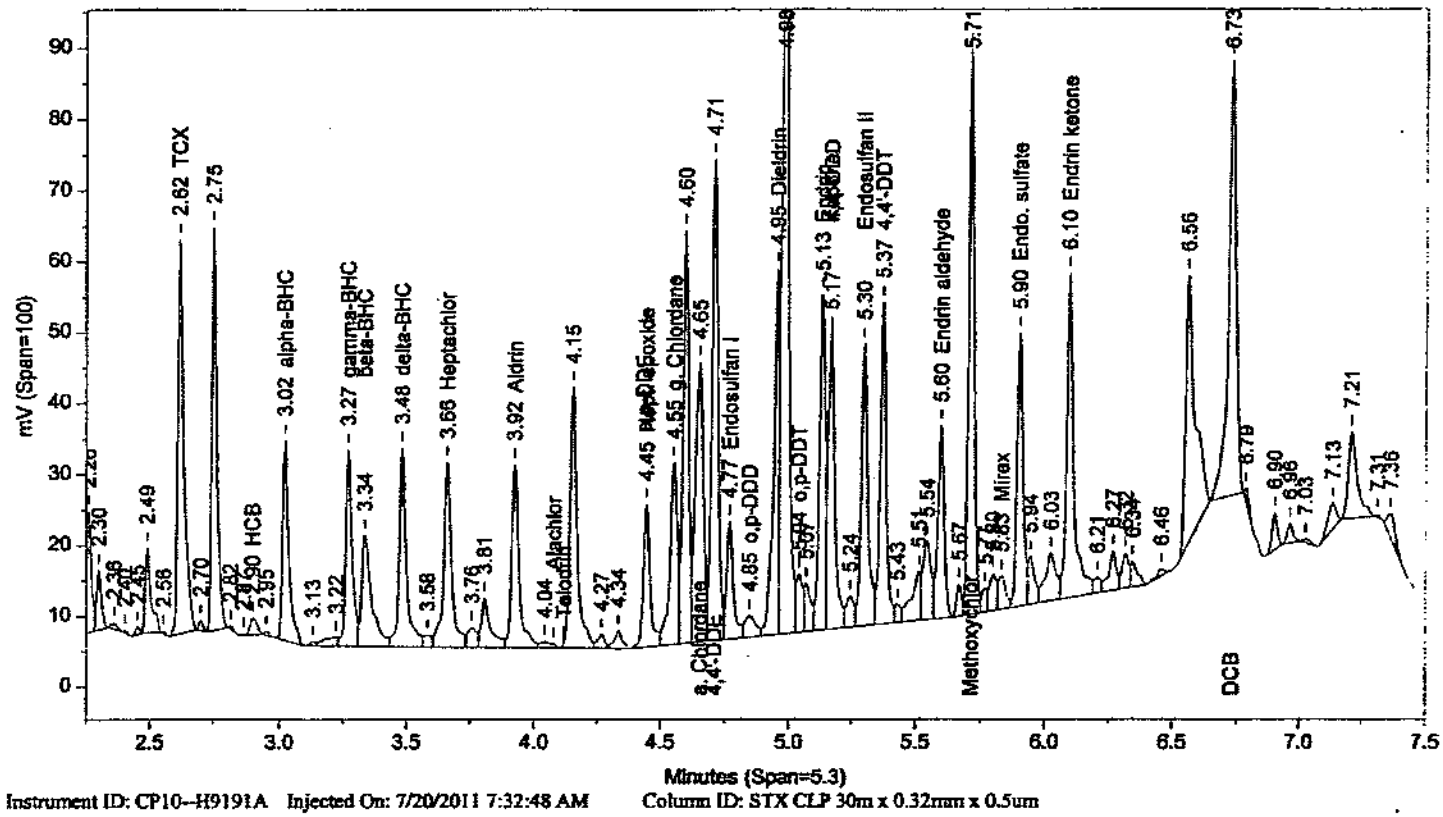
Units: ug/kg

USF03 2839

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:21:26

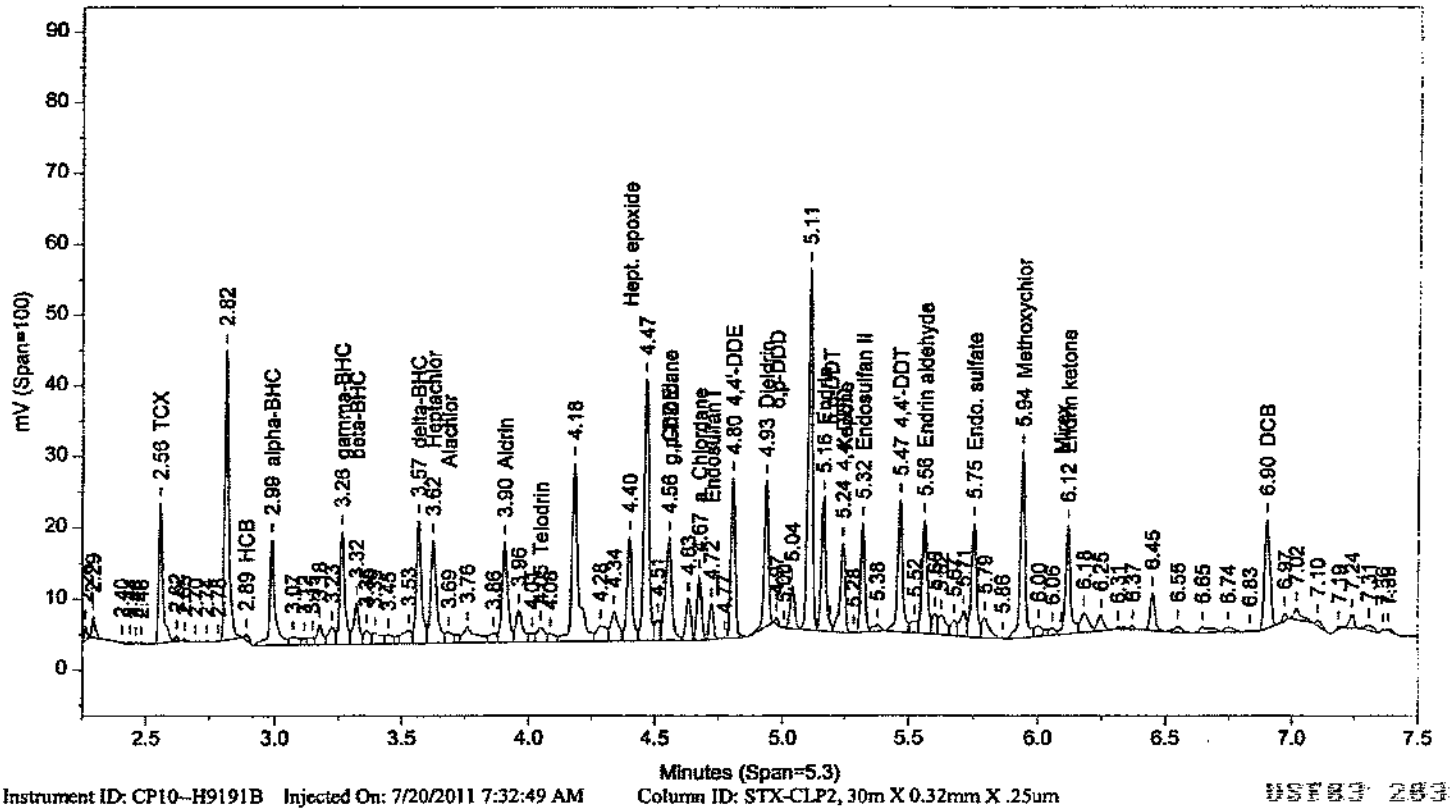
LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.77R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 7:32:48 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

C:\CPWIN\DATA1\1P10200B.77R



Instrument ID: CP10--H9191B Injected On: 7/20/2011 7:32:49 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.1 Dilution Factor: 4
Analyst: 0856

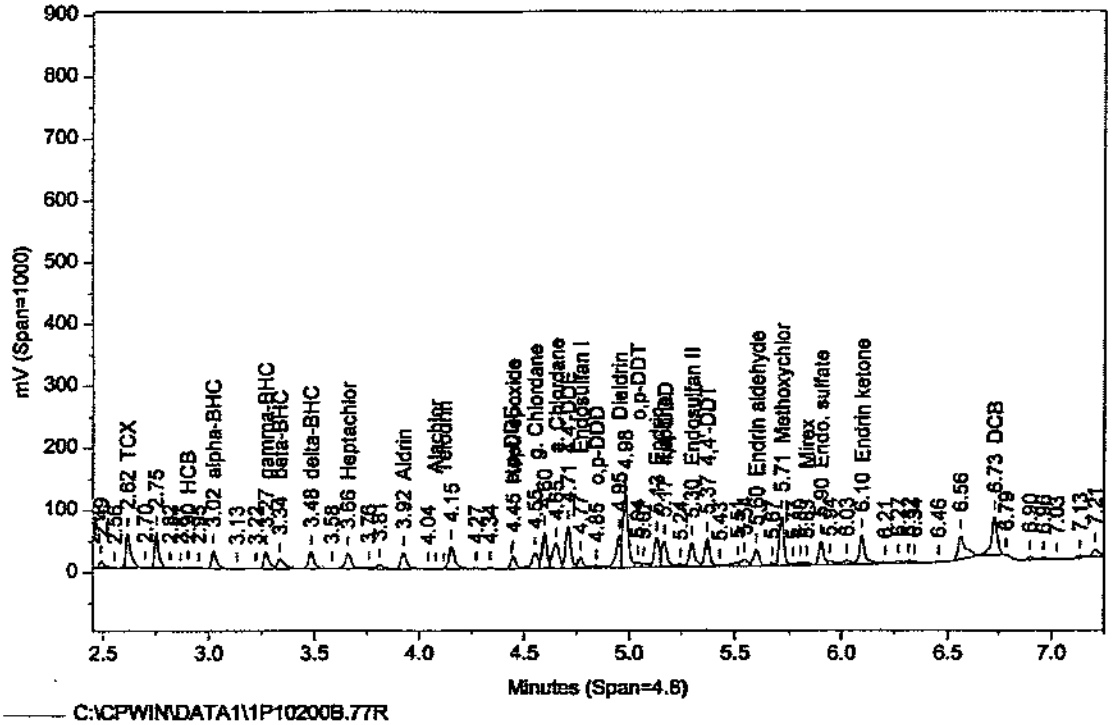
RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.617	55885	.583	TCX	2.558	20240	.584	TCX
2.9	2373	.023	HCB	2.892	787	.017	HCB
3.022	28408	.222	alpha-BHC	2.989	15031	.205	alpha-BHC
3.27	27739	.242	gamma-BHC	3.263	15825	.231	gamma-BHC
3.336	15710	.288	beta-BHC	3.322	5990	.21	beta-BHC
3.483	28048	.258	delta-BHC	3.566	17252	.265	delta-BHC
3.66	26072	.255	Heptachlor	3.624	14596	.264	Heptachlor
.	0	.	Alachlor	3.685	1523	.	Alachlor
3.923	25820	.254	Aldrin	3.905	14278	.283	Aldrin
.	0	.	Telodrin	4.046	2007	.053	Telodrin
4.446	20150	.214	Hept. epoxide	4.4	14590	.341	Hept. epoxide
4.552	25787	.264	g. Chlordane	.	0	.	g. Chlordane
.	0	.	o,p-DDE	4.556	14521	.493	o,p-DDE
4.653	39440	.423	a. Chlordane	4.673	9044	.192	a. Chlordane
4.709	67895	.779	4,4'-DDE	4.803	22425	.516	4,4'-DDE
4.769	16652	.192	Endosulfan I	4.721	5063	.12	Endosulfan I
4.845	3055	.063	o,p-DDD	4.975	842	.033	o,p-DDD
4.954	51625	.547	Dieldrin	4.933	20498	.433	Dieldrin
5.041	8226	.157	o,p-DDT	.	0	.	o,p-DDT
5.132	47732	.614	Endrin	5.162	18982	.493	Endrin
5.168	41806	1.869	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.24	12590	.375	4,4'-DDD
5.299	39844	.699	Endosulfan II	5.32	15333	.457	Endosulfan II
5.373	45452	.72	4,4'-DDT	5.465	18813	.682	4,4'-DDT
5.597	27127	.442	Endrin aldehyde	5.56	15949	.606	Endrin aldehyde
5.711	80087	2.568	Methoxychlor	5.94	26320	2.476	Methoxychlor
5.901	38721	.627	Endo. sulfate	5.75	16023	.616	Endo. sulfate
5.83	4680	.087	Mirex	.	0	.	Mirex
6.096	45890	.56	Endrin ketone	6.117	15129	.509	Endrin ketone
6.729	61494	1.065	DCB	6.896	15338	1.029	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.77A
Area File: C:\CPWIN\DATA1\1P10200B.77A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 7:40:26 AM
File Reported On: 7/20/2011 at 7:40:37 AM

Files:

10X REPLOTS

C:\CPWIN\DATA1\1P10200.77R



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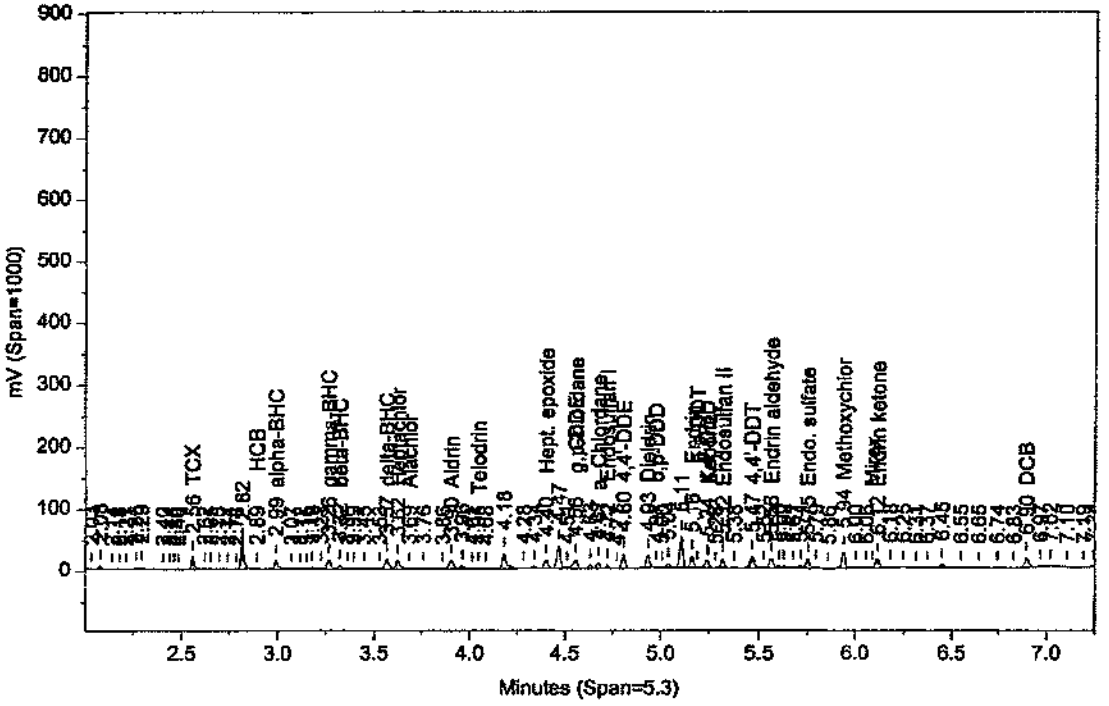


Lancaster Laboratories Single Component Data Summary

Sample Name: 6339379MSDFG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.4 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:48:07
Instrument : CP10--H9191A
Result file : 1P10200.78R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 65.6% (28-121) Conc.: 0.679038
%SSR(DCB) : 96.3% (45-150) Conc.: 0.99745

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.60	2.62	2.64	65453	0.679038
HCB	2.88	2.90	2.92	2675	0.025267
alpha-BHC	3.00	3.02	3.04	31595	0.246039
gamma-BHC	3.25	3.27	3.29	29866	0.259496
beta-BHC	3.31	3.33	3.35	17316	0.316310
delta-BHC	3.46	3.48	3.50	30581	0.280033
Heptachlor	3.64	3.66	3.68	28414	0.276488
Aldrin	3.91	3.92	3.95	29197	0.286045
Alachlor	4.06	4.08	4.10	916 E	0.000000
Hept. epoxide	4.43	4.44	4.47	20868	0.220782
g. Chlordane	4.52	4.55	4.58	25620	0.261422
a. Chlordane	4.64	4.65	4.68	39568	0.422537
4,4'-DDE	4.69	4.71	4.73	70262	0.801916
Endosulfan I	4.75	4.77	4.79	17802	0.204395
o,p-DDD	4.83	4.85	4.87	3588	0.073551
Dieldrin	4.93	4.95	4.97	52084	0.549501
o,p-DDT	5.03	5.04	5.07	6173	0.117059
Endrin	5.11	5.13	5.15	47986	0.613714
Kepone/44DDD	5.15	5.16	5.19	42713	1.900473
Endosulfan II	5.28	5.30	5.32	40983	0.715626
4,4'-DDT	5.35	5.37	5.39	46696	0.736024
Endrin aldehyde	5.58	5.59	5.62	29282	0.474268
Methoxychlor	5.69	5.71	5.73	84700	2.702901
Mirex	5.82	5.83	5.86	4512	0.083302
Endo. sulfate	5.88	5.90	5.92	41161	0.662678
Endrin ketone	6.08	6.09	6.12	47816	0.580273
DCB	6.71	6.73	6.75	57867	0.997450

Analysis Report (B)

Injected on : JUL 20, 2011 07:48:07
Instrument : CP10--H9191B
Result file : 1P10200B.78R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 68.2% (28-121) Conc.: 0.705094
%SSR(DCB) : 104.6% (45-150) Conc.: 1.08309

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.54	2.56	2.58	24544	0.705094
HCB	2.87	2.89	2.91	844	0.017804
alpha-BHC	2.97	2.99	3.01	17241	0.233971
gamma-BHC	3.24	3.26	3.28	17565	0.255147
beta-BHC	3.30	3.32	3.34	6322	0.220679
delta-BHC	3.55	3.56	3.59	18876	0.285544
Heptachlor	3.60	3.62	3.64	15949	0.286946
Alachlor	3.66	3.68	3.70	1611 E	0.000000
Aldrin	3.89	3.90	3.93	15701	0.309430
Telodrin	4.03	4.04	4.07	2366	0.061818
Hept. epoxide	4.38	4.40	4.42	15292	0.355909
o,p-DDE	4.54	4.54	4.58	24693	0.834515
a. Chlordane	4.65	4.67	4.69	9477	0.200574
Endosulfan I	4.70	4.72	4.74	5353	0.126242
4,4'-DDE	4.78	4.80	4.82	22733	0.520054
Dieldrin	4.91	4.93	4.95	21884	0.460097
Endrin	5.14	5.16	5.18	19577	0.505748
4,4'-DDD	5.22	5.24	5.26	13165	0.390501
Endosulfan II	5.30	5.32	5.34	15374	0.455766
4,4'-DDT	5.44	5.46	5.48	19448	0.701977
Endrin aldehyde	5.54	5.56	5.58	16633	0.628335
Endo. sulfate	5.73	5.75	5.77	16615	0.635925
Methoxychlor	5.92	5.94	5.96	27771	2.599026
Endrin ketone	6.10	6.11	6.14	15515	0.519432
DCB	6.88	6.89	6.91	16229	1.083090

Summary Report

44DDD: 42713/4707 × 4/60.4 = 1.6009

Compound Name		Column	Amount Found	LOQ	MDL	Qualifiers	%Difference		Comments
☐ TCX		B	0.705094				3.76		
☐ HCB				<0.1649	<0.0417				
☑ alpha-BHC	B	A	.2339 ~~0.246039~~	0.1649	0.0338		5.03		A005
☑ gamma-BHC	B	A	.255 ~~0.259496~~	0.1649	0.0338		1.69		↓
☑ beta-BHC	B	A	.3200 ~~0.316310~~	0.1649	0.0596		35.62		↓
☑ delta-BHC		B	0.285544	0.1649	0.0358		1.95		
☑ Heptachlor		B	0.286946	0.1649	0.0596		3.71		
☑ Aldrin		B	0.309430	0.1649	0.0656		7.85		
☐ Alachlor									
☐ Telodrin				<0.2384	<0.0795				
☐ o,p-DDE				<0.3377	<0.0656				
☑ Hept. epoxide	B	A	.3559 ~~0.220782~~	0.1649	0.0338		46.86	**	A002
☐ g. Chlordane				<0.1649	<0.0497				
☐ a. Chlordane		B	0.200574	0.1649	0.0457		71.24	**	

USF03 2842

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:21:45

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339379 MSDFG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.4 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:48:07
Instrument : CP10-H9191A
Result file : 1P10200.78R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 20, 2011 07:48:07
Instrument : CP10-H9191B
Result file : 1P10200B.78R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ 4,4'-DDE	B	0.520054	0.3377	0.0656		42.64 **	
☑ Endosulfan I	B	0.126242	<0.1649	0.0437	J	47.27 **	
☐ o,p-DDD			<0.3377	<0.0656			
☑ Dieldrin	B A	.460 ~~0.549501~~	0.3377	0.0656		17.71	A QQ
☐ o,p-DDT			<0.3377	<0.0656			
☑ Endrin	B A	.5059 ~~0.613714~~	0.3377	0.0656		19.29	
☐ Kepone			<1.3907	<0.457			
☑ 4,4'-DDD	B	.60095	<0.3377	<0.0656			
☑ Endosulfan II	B	0.455766	0.3377	0.0656		44.37 **	
☑ 4,4'-DDT	B A	.7019 ~~0.736024~~	0.3377	0.0656		4.74	A .74
☑ Endrin aldehyde	B	0.628335	0.3377	0.0656		27.95	
☑ Methoxychlor	B A	2.599 ~~2.702901~~	1.649	0.3377		3.92	A 2.70
☑ Mirex			<0.3377	<0.0656			
☑ Endo. sulfate	B A	.6359 ~~0.662678~~	0.3377	0.0656		4.12	A .66
☑ Endrin ketone	B A	.519 ~~0.589273~~	0.3377	0.0656		11.06	A .59
☐ DCB	B	1.083090				8.23	

Units: ug/kg

Reviewed by: Melissa A McDermott Verified by:

Date: JUL 25 2011 Date:

Melissa A. McDermott
Senior Chemist

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/21/2011 14:21:45

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6339379** MSDFG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.4 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:48:07
Instrument : CP10-H9191A
Result file : 1P10200.78R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

%SSR(TCX) : 65.6% (28-121) Conc.: 0.679038
%SSR(DCB) : 96.3% (45-150) Conc.: 0.99745

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**119.40**	
2.84	2.86	2.90	219.696213	0.162138			1
3.10	3.13	3.16	703.315002	0.26036			2
E 3.26	3.27	3.32	29865.66406	19.273616			3
3.46	3.48	3.52	30580.69140	6.51539			4
3.57	3.59	3.63	1552.24353	0.663853			5
E 3.62	3.66	3.68	28413.77148	15.853293			6
Height Summation:			**91335.381698**				
Amount Avg CF:			**7.121442**	Linear:			
Aroclor-1221					**3**	**164.69**	
E 2.70	2.75	2.78	40849.41015	46.164827			1
2.81	2.82	2.87	620.054443	0.295461			2
+* 2.81	2.86	2.87	219.696213	0.104687			2
+* 2.84	2.86	2.90	219.696213	0.104687			3
2.84	2.90	2.90	2675.343262	1.274824			3
Height Summation:			**44144.807861**				
Amount Avg CF:			**15.911704**	Linear:			
Aroclor-1232					**6**	**120.22**	
2.84	2.86	2.90	219.696213	0.130817			1
3.10	3.13	3.16	703.315002	0.553469			2
E 3.26	3.27	3.32	29865.66406	42.257419			3
E 3.46	3.48	3.52	30580.69140	14.171731			4
3.57	3.59	3.63	1552.24353	1.414192			5
E 3.63	3.66	3.68	28413.77148	34.917548			6
Height Summation:			**91335.381698**				
Amount Avg CF:			**15.574196**	Linear:			
Aroclor-1242					**6**	**119.93**	
2.84	2.86	2.90	219.696213	0.228316			1
3.10	3.13	3.16	703.315002	0.36056			2
E 3.26	3.27	3.32	29865.66406	26.404893			3
3.46	3.48	3.52	30580.69140	8.629304			4
3.57	3.59	3.63	1552.24353	0.953994			5
E 3.62	3.66	3.68	28413.77148	22.407939			6
Height Summation:			**91335.381698**				
Amount Avg CF:			**9.830834**	Linear:			
Aroclor-1248					**4**	**84.00**	
3.72	3.76	3.78	2993.395264	1.208511			1
3.99	4.04	4.05	879.057251	0.47163			3
4.98	5.04	5.04	6172.757324	5.482723			5
5.19	5.24	5.25	4306.786621	4.300304			6
Height Summation:			**14351.996460**				
Amount Avg CF:			**2.865792**	Linear:			
Aroclor-1254					**4**	**68.26**	
E 4.68	4.71	4.74	70262.42187	24.490212			2
4.98	5.04	5.04	6172.757324	1.896735			4
E 5.12	5.13	5.18	47985.99218	18.2126			5
+ 5.12	5.16	5.18	42712.76171	16.211199			5
5.33	5.37	5.39	46695.91406	11.882683			6
Height Summation:			**171117.085450**				
Amount Avg CF:			**14.120558**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 07:48:07
Instrument : CP10-H9191B
Result file : 1P10200B.78R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 68.2% (28-121) Conc.: 0.705094
%SSR(DCB) : 104.6% (45-150) Conc.: 1.08309

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**118.50**	
+ 2.86	2.87	2.91	201.270462	0.319836			1
2.86	2.89	2.91	844.312805	1.341686			1
3.15	3.17	3.21	4292.111328	3.966036			2
3.34	3.36	3.40	2079.274658	3.299001			3
+ 3.34	3.39	3.40	1776.374268	2.818416			3
3.50	3.53	3.56	1913.899902	0.86435			4
E 3.61	3.62	3.67	15948.71679	13.645196			5
3.70	3.72	3.76	1155.49939	1.394626			6
Height Summation:			**26233.814880**				
Amount Avg CF:			**4.085149**	Linear:			
Aroclor-1221					**3**	**26.45**	
2.72	2.74	2.78	212.435257	0.62764			1
+* 2.86	2.87	2.92	201.270462	0.258995			3
* 2.81	2.87	2.87	201.270462	0.914837			2
2.86	2.89	2.92	844.312805	1.086462			3
Height Summation:			**1258.018524**				
Amount Avg CF:			**0.876313**	Linear:			
Aroclor-1232					**6**	**115.38**	
+ 2.86	2.87	2.92	201.270462	0.263944			1
2.86	2.89	2.92	844.312805	1.107223			1
3.15	3.17	3.21	4292.111328	8.555178			2
3.34	3.36	3.40	2079.274658	7.090644			3
+ 3.34	3.39	3.40	1776.374268	6.057707			3
3.50	3.53	3.56	1913.899902	1.985251			4
E 3.61	3.62	3.67	15948.71679	29.976057			5
+ 3.70	3.72	3.76	1155.49939	3.014502			6
3.70	3.76	3.76	2456.270508	6.407994			6
Height Summation:			**27534.585998**				
Amount Avg CF:			**9.187058**	Linear:			
Aroclor-1242					**6**	**108.52**	
+ 2.86	2.87	2.92	201.270462	0.460898			1
2.86	2.89	2.92	844.312805	1.933429			1
3.15	3.17	3.21	4292.111328	5.567988			2
3.34	3.36	3.40	2079.274658	4.502217			3
+ 3.34	3.39	3.40	1776.374268	3.846352			3
3.50	3.53	3.56	1913.899902	1.154199			4
E 3.61	3.62	3.67	15948.71679	19.10994			5
+ 3.70	3.72	3.76	1155.49939	1.9753			6
3.70	3.76	3.76	2456.270508	4.198939			6
Height Summation:			**27534.585998**				
Amount Avg CF:			**6.077785**	Linear:			
Aroclor-1248					**4**	**75.54**	
4.01	4.04	4.07	2366.48999	1.74125			2
E 4.88	4.93	4.94	21883.63476	27.198035			4
E 5.05	5.10	5.11	30088.53125	53.847261			5
E 5.31	5.32	5.37	15373.99023	30.055941			6
+ 5.31	5.35	5.37	887.644287	1.735332			6
Height Summation:			**69712.646240**				
Amount Avg CF:			**28.210622**	Linear:			

USF03 2844

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:21:58

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: 6339379 MSDFG 82S05 Sample ID: AC **Batchnumber: 111930027A**
Sample Amount: 60.4 g Total Volume: 4 ml Analyst: 0856 SDG: USF03 State: CA
Analyses: 01363

Analysis Report (A)

Injected on : JUL 20, 2011 07:48:07
Instrument : CP10-H9191A
Result file : 1P10200.78R
Calibration file : 1P10200.CAL
Method file : PESTD.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	67.23	
E 4.91	4.95	4.97	52084.324215	13.818452			1
5.12	5.13	5.18	47985.992185	9.932738			2
+ 5.12	5.16	5.18	42712.761715	8.841219			2
5.33	5.37	5.39	46695.914065	10.504941			3
5.58	5.59	5.64	29281.585935	8.599077			4
5.79	5.79	5.85	5632.887695	0.794689			5
+ 5.79	5.83	5.85	4511.88916	0.636538			5
5.99	6.02	6.05	7114.745117	2.024731			6
Height Summation:			**188795.449220**				
Amount Avg CF:			**7.612438**	Linear:			
Chlordane					6	94.66	
3.56	3.59	3.63	1552.24353	0.443835			1
3.63	3.66	3.70	28413.771485	6.658573			2
+ 4.01	4.04	4.08	879.057251	0.266501			3
4.01	4.08	4.08	916.09082	0.277729			3
4.52	4.55	4.59	25620.115235	2.562073			4
4.62	4.65	4.69	39568.304685	3.471442			5
5.22	5.24	5.29	4306.786621	1.630202			6
Height Summation:			**100377.312377**				
Amount Avg CF:			**2.507309**	Linear:			
Toxaphene					6	77.49	
* 5.35	5.37	5.42	46695.914065	25.189853			2
* 5.31	5.37	5.38	46695.914065	24.753458			1
5.55	5.59	5.62	29281.585935	12.733839			3
+ 5.74	5.76	5.81	3286.386475	1.8011			4
5.74	5.79	5.81	5632.887695	3.087097			4
5.80	5.83	5.87	4511.88916	1.845257			5
5.05	6.09	6.12	47815.636715	34.192612			6
Height Summation:			**180633.827638**				
Amount Avg CF:			**16.967036**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2011 07:48:07
Instrument : CP10-H9191B
Result file : 1P10200B.78R
Calibration file : 1P10200B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	23.55	
4.52	4.54	4.58	24693.332035	14.804099			1
E 4.79	4.80	4.85	22733.111325	17.867363			2
4.88	4.93	4.94	21883.634765	9.668352			3
E 5.05	5.10	5.11	30088.53125	19.057901			4
5.30	5.32	5.36	15373.990235	14.115025			5
+ 5.30	5.35	5.36	887.644287	0.814956			5
5.44	5.46	5.50	19448.296875	12.478362			6
Height Summation:			**134220.896484**				
Amount Avg CF:			**14.665184**	Linear:			
Aroclor-1260					4	48.87	
5.03	5.03	5.09	7122.483887	4.05056			1
5.18	5.24	5.24	13165.461914	6.582002			2
5.44	5.46	5.50	19448.296875	12.143755			3
+ 5.71	5.71	5.77	3365.293457	2.676922			4
5.71	5.75	5.77	16614.599605	13.216078			4
Height Summation:			**56350.842285**				
Amount Avg CF:			**8.998099**	Linear:			
Chlordane					6	77.21	
3.47	3.53	3.54	1913.699902	0.974846			1
3.59	3.62	3.66	15948.716795	6.872032			2
+ 4.00	4.01	4.07	1323.485107	0.887896			3
4.00	4.04	4.07	2366.48999	1.587625			3
4.52	4.54	4.59	24693.332035	4.707876			4
4.60	4.63	4.67	6398.886719	1.644492			5
4.64	4.67	4.71	9476.833984	2.134014			6
Height Summation:			**60798.159423**				
Amount Avg CF:			**2.986814**	Linear:			
Toxaphene					6	66.12	
5.09	5.10	5.16	30088.53125	51.101415			1
+ 5.34	5.35	5.41	887.644287	0.727016			2
5.34	5.37	5.41	1075.677856	0.881023			2
5.53	5.56	5.60	16632.712895	13.500562			3
+ 5.53	5.60	5.60	2853.05542	2.315789			3
5.71	5.75	5.78	16614.599605	28.783591			4
* 5.88	5.94	5.95	27770.585935	33.522687			5
* 5.92	5.94	5.99	27770.585935	28.841842			6
Height Summation:			**119952.693482**				
Amount Avg CF:			**26.105187**	Linear:			

Summary Report

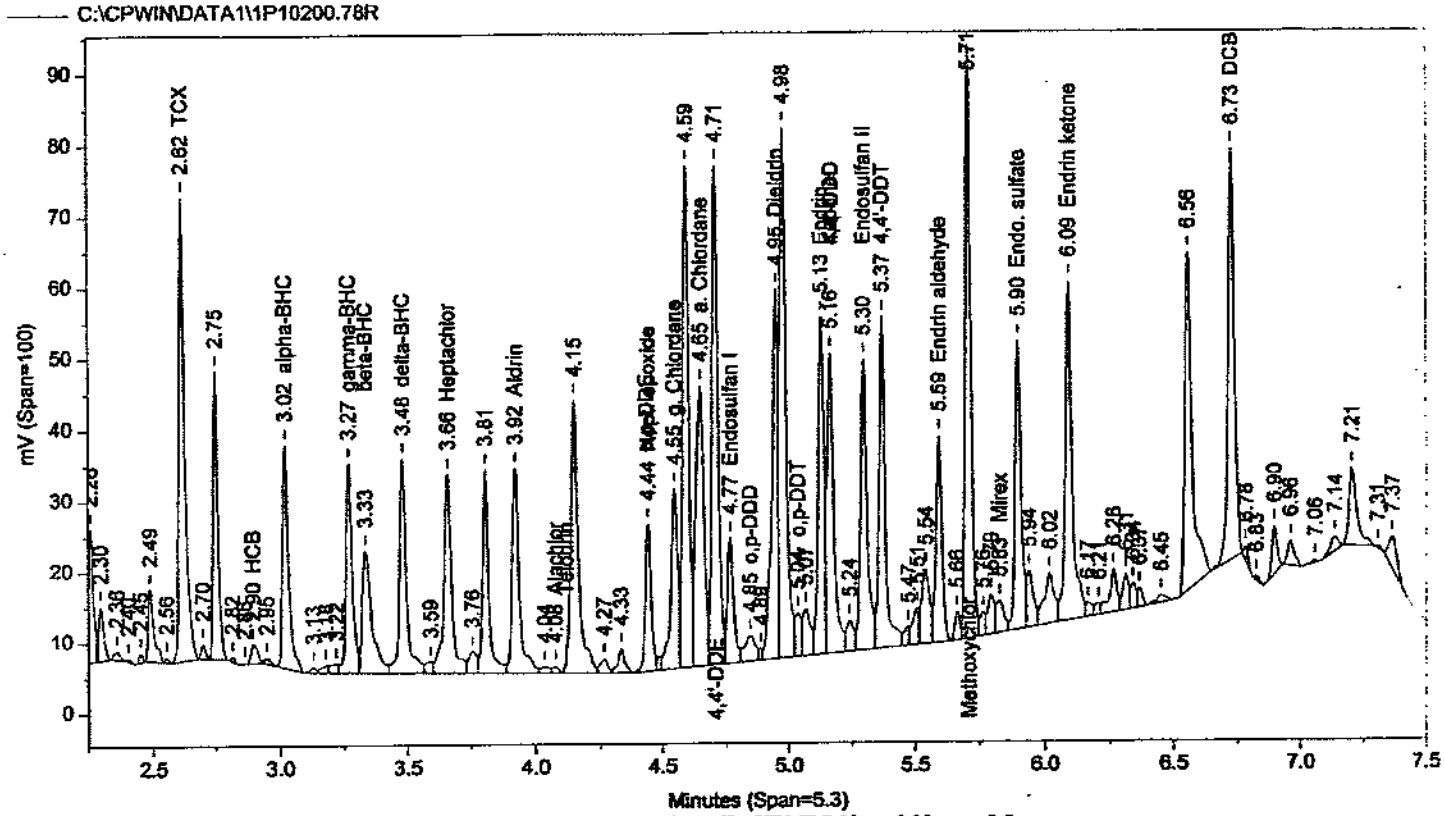
Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0	E	** 54.19	4	40	
Aroclor-1221			0	0	E	** 179.12	3	5	
Aroclor-1232			0	0	E	** 51.59	4	10	
Aroclor-1242			0	0	E	** 47.18	4	30	
Aroclor-1248			0	0		** 163.11	4	30	
Aroclor-1254			0	0	E	3.78	4	40	
Aroclor-1260			0	0	E	16.68	4	40	
Chlordane			3.3775	0.7947		17.46	4	40	
Toxaphene			6.5563	2.1854		** 42.43	4	40	

Units: ug/kg

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/21/2011 14:21:58

LANCASTER LABORATORIES

C:\CPWIN\DATA1\1P10200.78R



Instrument ID: CP10--H9191A Injected On: 7/20/2011 7:48:07 AM Column ID: STX CLP 30m x 0.32mm x 0.5um

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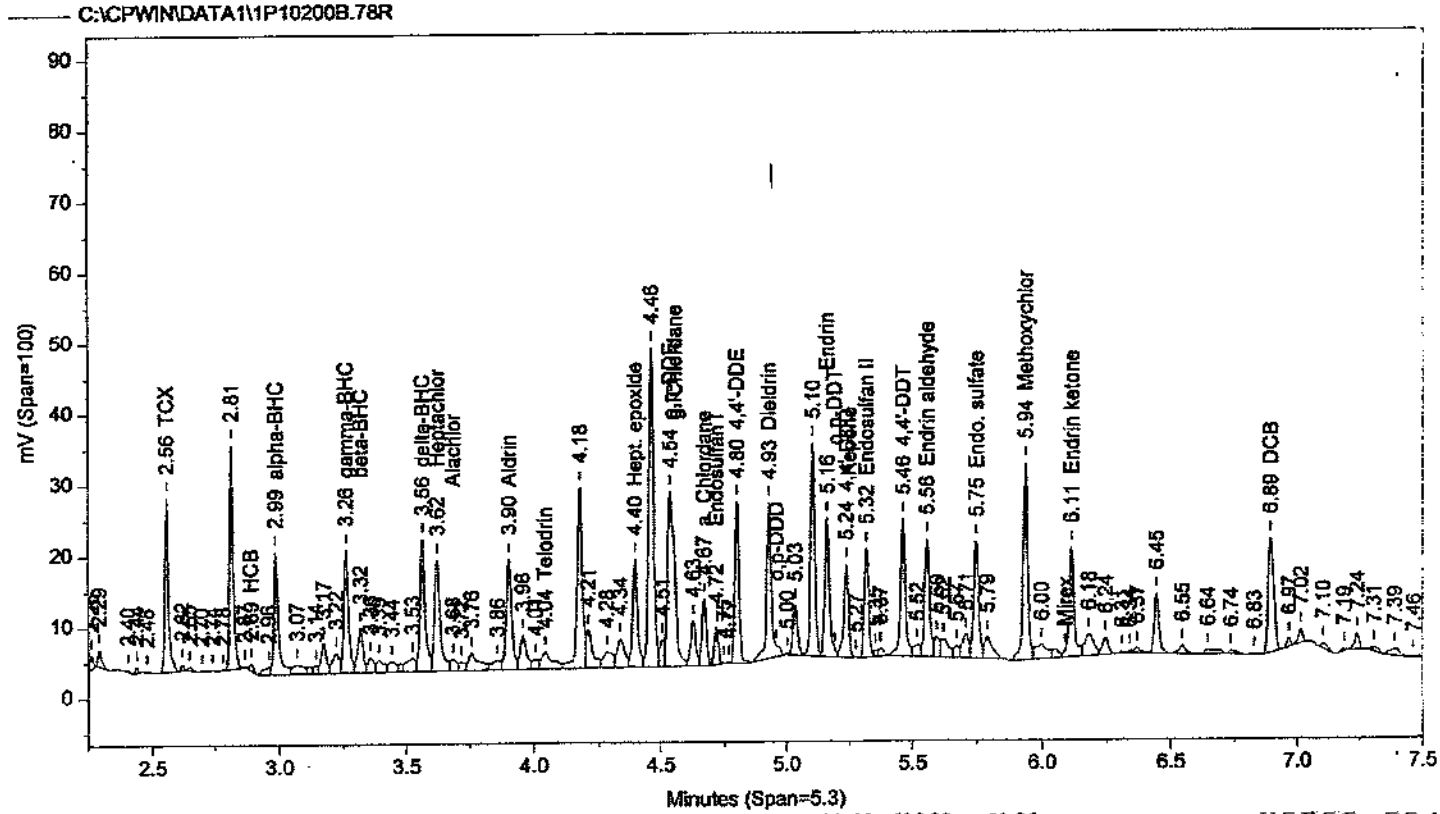

Instrument ID: CP10--H9191B Injected On: 7/20/2011 7:48:07 AM Column ID: STX-CLP2, 30m X 0.32mm X .25um

USF03 2846

Oven Parameters: 110 to 200 at 45 c/min. to 230 @ 15 to 330 at 30 c/min Volume Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 60.4 Dilution Factor: 4
Analyst: 0856

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
2.616	65453	.679	TCX	2.557	24544	.705	TCX
2.898	2675	.025	HCB	2.891	844	.018	HCB
3.021	31595	.246	alpha-BHC	2.987	17241	.234	alpha-BHC
3.269	29866	.259	gamma-BHC	3.261	17565	.255	gamma-BHC
3.335	17316	.316	beta-BHC	3.32	6322	.221	beta-BHC
3.481	30581	.28	delta-BHC	3.564	18676	.286	delta-BHC
3.658	28414	.276	Heptachlor	3.622	15949	.287	Heptachlor
4.077	916	.	Alachlor	3.684	1611	.	Alachlor
3.922	29197	.286	Aldrin	3.902	15701	.309	Aldrin
.	0	.	Telodrin	4.043	2366	.062	Telodrin
4.444	20868	.221	Hept. epoxide	4.397	15292	.356	Hept. epoxide
.	0	.	o,p-DDE	4.538	24693	.835	o,p-DDE
4.549	25620	.261	g. Chlordane	.	0	.	g. Chlordane
4.65	39568	.423	a. Chlordane	4.67	9477	.201	a. Chlordane
4.706	70262	.802	4,4'-DDE	4.8	22733	.52	4,4'-DDE
4.766	17802	.204	Endosulfan I	4.718	5353	.126	Endosulfan I
4.846	3588	.074	o,p-DDD	.	0	.	o,p-DDD
4.95	52084	.55	Dieldrin	4.93	21884	.46	Dieldrin
5.038	6173	.117	o,p-DDT	.	0	.	o,p-DDT
5.128	47986	.614	Endrin	5.16	19577	.506	Endrin
5.165	42713	1.9	Kepone	.	0	.	Kepone
.	0	.	4,4'-DDD	5.237	13165	.391	4,4'-DDD
5.296	40983	.716	Endosulfan II	5.317	15374	.456	Endosulfan II
5.37	46696	.736	4,4'-DDT	5.462	19448	.702	4,4'-DDT
5.594	29282	.474	Endrin aldehyde	5.557	16633	.628	Endrin aldehyde
5.708	84700	2.703	Methoxychlor	5.937	27771	2.599	Methoxychlor
5.898	41161	.663	Endo. sulfate	5.747	16615	.636	Endo. sulfate
5.827	4512	.083	Mirex	.	0	.	Mirex
6.093	47816	.58	Endrin ketone	6.114	15515	.519	Endrin ketone
6.726	57867	.997	DCB	6.894	16229	1.083	DCB

Files:
Area File: C:\CPWIN\DATA1\1P10200.78A
Area File: C:\CPWIN\DATA1\1P10200B.78A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P10200.CAL
Calibration File B: C:\CPWIN\DATA1\1P10200B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/20/2011 7:55:44 AM
File Reported On: 7/20/2011 at 7:55:55 AM

Files:

10X REPLOTS

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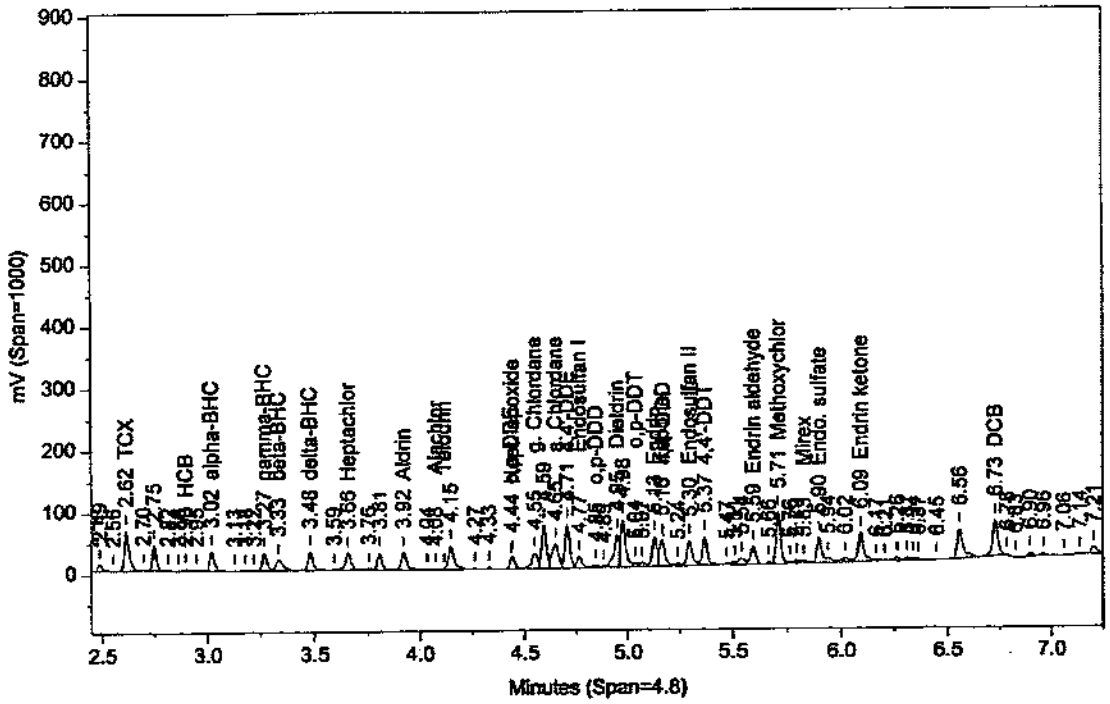

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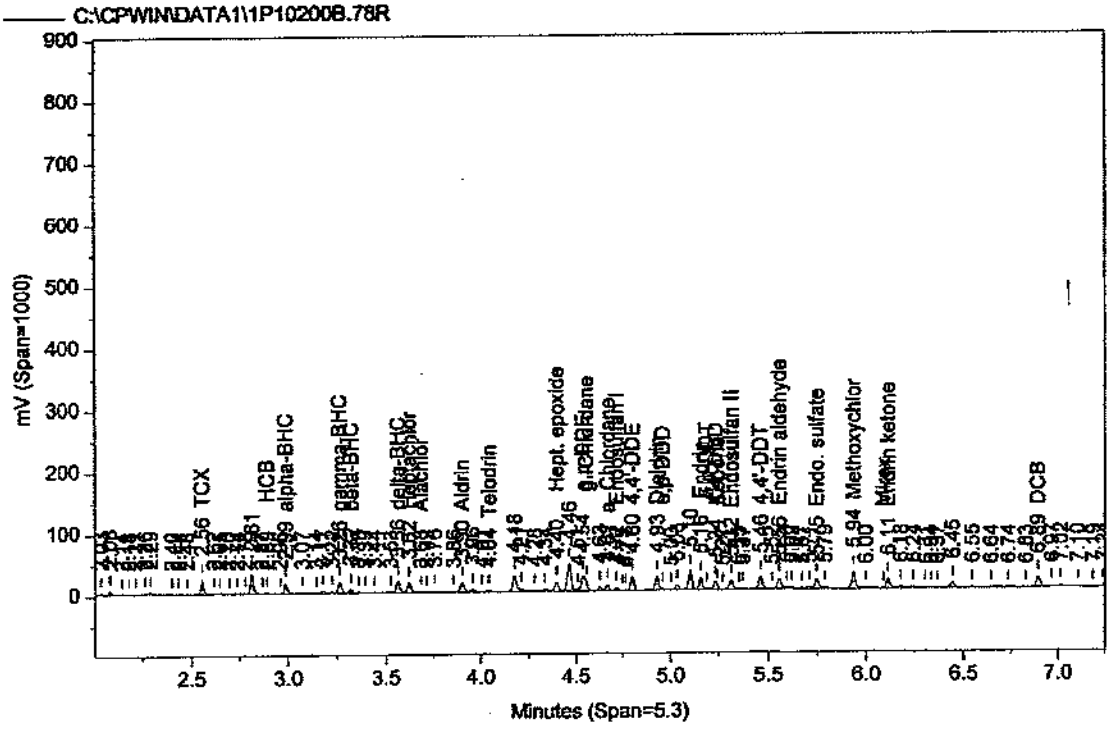


USP93 2849

Lancaster Laboratories Single Component Data Summary

Sample Name: BLANKA 7/13/11F PBLK13194 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 120 SDG: State:
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 22:51:54
Instrument : CP06-S9147A
Result file : 3P6193.39R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

%SSR(TCX) : 91.3% (52-141) Conc.: 0.285116
%SSR(DCB) : 80.6% (40-144) Conc.: 0.251982

Peak name	Min	R.T.	Max	Height	Amount
TCX	3.17	3.19	3.22	149852	0.285116
alpha-BHC	3.46	3.47	3.51	135	0.000137
HCB	3.49	3.53	3.54	330	0.000556
delta-BHC	3.95	3.95	4.01	791	0.001175
Telodrin	4.33	4.36	4.37	426	0.001675
Hept. epoxide	4.57	4.60	4.62	194	0.000355
o,p-DDE	4.68	4.71	4.72	40	0.000152
a. Chlordane	4.80	4.83	4.87	64	0.000133
Endosulfan I	4.85	4.87	4.90	156	0.000356
o,p-DDD	5.02	5.02	5.07	47	0.000233
Endosulfan II	5.41	5.44	5.46	274	0.000778
Mirex	6.39	6.43	6.43	293	0.001390
DCB	7.01	7.03	7.06	33894	0.251982

Analysis Report (B)

Injected on : JUL 14, 2011 22:51:54
Instrument : CP06-S9147B
Result file : 3P6193B.39R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 88.7% (52-141) Conc.: 0.277231
%SSR(DCB) : 68.3% (40-144) Conc.: 0.213501

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.94	2.95	2.98	243127	0.277231
HCB	3.26	3.28	3.30	298	0.000216
alpha-BHC	3.30	3.30	3.34	612	0.000422
gamma-BHC	3.51	3.54	3.55	613	0.000469
beta-BHC	3.69	3.72	3.73	236	0.000446
Heptachlor	3.73	3.76	3.78	167	0.000174
delta-BHC	3.85	3.86	3.89	734	0.000617
Aldrin	3.92	3.92	3.96	168	0.000193
Telodrin	3.98	4.01	4.03	298	0.000392
g. Chlordane	4.42	4.45	4.47	599	0.000725
Endosulfan I	4.52	4.54	4.56	716	0.000955
Endrin	4.91	4.94	4.96	209	0.000316
Endosulfan II	5.13	5.14	5.18	536	0.000899
Methoxychlor	5.62	5.65	5.67	902	0.004617
Endrin ketone	5.83	5.84	5.88	1226	0.001983
DCB	6.61	6.63	6.65	74960	0.213501

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	A	0.285116				2.80	
☑ alpha-BHC			<0.01	<0.003			
☑ HCB			<0.01	<0.003			
☑ gamma-BHC			<0.01	<0.002			
☑ beta-BHC			<0.01	<0.0029			
☑ delta-BHC			<0.01	<0.0029			
☑ Heptachlor			<0.01	<0.0026			
☑ Aldrin			<0.01	<0.002			
☑ Telodrin			<0.01	<0.0036			
☑ Hept. epoxide			<0.01	<0.0023			
☑ o,p-DDE			<0.75	<0.25			
☑ g. Chlordane			<0.02	<0.0025			
☑ a. Chlordane			<0.01	<0.002			
☑ Endosulfan I			<0.01	<0.0043			
☑ 4,4'-DDE			<0.02	<0.005			
☑ o,p-DDD			<0.02	<0.005			
☑ Dieldrin			<0.02	<0.0053			
☑ Endrin			<0.02	<0.0081			
☑ o,p-DDT			<0.02	<0.0051			
☑ 4,4'-DDD			<0.02	<0.005			
☑ Endosulfan II			<0.02	<0.015			
☑ Kepone			<0.2	<0.07			
☑ Endrin aldehyde			<0.1	<0.02			
☑ 4,4'-DDT			<0.02	<0.005			
☑ Endo. sulfate			<0.02	<0.0058			

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/15/2011 13:57:41

Lancaster Laboratories Single Component Data Summary

Sample Name: BLANKA 7/13/11F PBLK13194 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 120 SDG: State:
Analyses: 00177

Analysis Report (A)

Injected on	: JUL 14, 2011 22:51:54
Instrument	: CP06-S9147A
Result file	: 3P6193.39R
Calibration file	: 1P6193.CAL
Method file	: PESTD.MET

Analysis Report (B)

Injected on	: JUL 14, 2011 22:51:54
Instrument	: CP06-S9147B
Result file	: 3P6193B.39R
Calibration file	: 1P6193B.CAL
Method file	: PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methoxychlor			<0.1	<0.03			
☑ Endrin ketone			<0.02	<0.005			
☑ Mirex			<0.25	<0.0846			
☐ DCB	A	0.251982				16.53	

Units: ug/l

Valerie L. Tomayko
Principal Specialist

Reviewed by: Lisa A. Reinert Chemist
Date: JUL 15 2011

Verified by: JUL 22 2011
Date:

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Higher Amount Found unless RPD > 40

Printed on: 7/15/2011 13:57:41

Multiple Component Data Summary

Sample Name: BLANKA 7/13/11F PBLK13194 BLK Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 2306 SDG: State:
Analyses: 00177

Analysis Report (A)

Injected on	Jul 14, 2011 22:51:54
Instrument	S9147A
Result file	3P6193.39R
Calibration file	1P6193
Method file	PESTD

%SSR(TCX)	91.3%	Conc:	0.28511E
%SSR(DCB)	80.6%	Conc:	0.251982

Analysis Report (B)

Injected on	Jul 14, 2011 22:51:54
Instrument	S9147B
Result file	3P6193B.39R
Calibration file	1P6193B
Method file	PESTDB

%SSR(TCX)	88.7%	Conc:	0.277231
%SSR(DCB)	68.3%	Conc:	0.213501

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	No. of Hits Required	Max %RSD	Comments
Chlordane (Technical)			<0.5	<0.12			4	40	
Toxaphene			<3	<1			4	40	

Units: ug/l

%Difference = High - Low divided by the Average times 100

Reviewed by: Lisa A. Reinert Chemist Verified by:

Date: JUL 15 2011 Date:

USF03 2851

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: BLANKA 7/13/11F PBLK13194 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 120 SDG: State:
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 22:51:54
Instrument : CP06--S9147A
Result file : 3P6193.39R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

%SSR(TCX) : 91.3% (52-141) Conc.: 0.285116
%SSR(DCB) : 80.6% (40-144) Conc.: 0.251982

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					3	90.65	
3.42	3.47	3.48	134.946945	0.017109			1
3.77	3.79	3.83	66.700104	0.0064			2
4.07	4.11	4.13	408.749481	0.048032			4
Height Summation:			610.396530				
Amount Avg CF:			0.023847	Linear:			
Aroclor-1221					3	95.16	
3.31	3.32	3.37	1102.699951	0.282454			1
3.37	3.40	3.43	1886.403442	0.546784			2
3.42	3.47	3.48	134.946945	0.012675			3
Height Summation:			3124.050338				
Amount Avg CF:			0.280638	Linear:			
Aroclor-1232					3	122.08	
3.43	3.47	3.49	134.946945	0.015448			1
3.77	3.79	3.83	66.700104	0.015644			2
4.07	4.11	4.13	408.749481	0.126921			4
Height Summation:			610.396530				
Amount Avg CF:			0.052671	Linear:			
Aroclor-1242					3	92.97	
3.43	3.47	3.49	134.946945	0.022057			1
3.77	3.79	3.83	66.700104	0.008136			2
4.07	4.11	4.13	408.749481	0.064441			4
Height Summation:			610.396530				
Amount Avg CF:			0.031545	Linear:			
Aroclor-1248					1		
5.00	5.02	5.06	46.937023	0.00763			5
Height Summation:			46.937023				
Amount Avg CF:			0.00763	Linear:			
Aroclor-1254					3	94.50	
+ 4.55	4.55	4.61	130.725449	0.009615			1
4.55	4.60	4.61	194.249878	0.014287			1
5.00	5.02	5.06	46.937023	0.002293			3
5.43	5.44	5.49	273.564941	0.033654			5
Height Summation:			514.751842				
Amount Avg CF:			0.016745	Linear:			
Aroclor-1268					3	72.80	
6.27	6.31	6.33	584.287598	0.022984			2
6.40	6.43	6.46	293.031067	0.01148			3
6.84	6.87	6.90	269.992493	0.004326			6
Height Summation:			1147.311158				
Amount Avg CF:			0.01293	Linear:			
Chlordane					3	122.09	
3.89	3.95	3.96	790.99469	0.032271			1
4.03	4.04	4.10	225.334961	0.007507			2
4.80	4.83	4.87	63.867344	0.000879			5
Height Summation:			1080.196995				
Amount Avg CF:			0.013552	Linear:			
Toxaphene					2	82.19	
5.40	5.44	5.47	273.564941	0.030222			2
6.25	6.31	6.32	584.287598	0.114093			6
Height Summation:			857.852539				
Amount Avg CF:			0.072158	Linear:			

Analysis Report (B)

Injected on : JUL 14, 2011 22:51:54
Instrument : CP06--S9147B
Result file : 3P6193B.39R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 88.7% (52-141) Conc.: 0.277231
%SSR(DCB) : 68.3% (40-144) Conc.: 0.213501

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					5	80.41	
+ 3.22	3.24	3.28	117.135712	0.007965			1
3.22	3.28	3.28	297.779327	0.020249			1
3.43	3.48	3.49	298.996521	0.014609			2
+ 3.56	3.56	3.62	405.039368	0.02181			3
3.56	3.61	3.62	872.336487	0.046972			3
3.73	3.76	3.78	166.554016	0.003897			4
3.77	3.80	3.83	302.632874	0.014719			5
Height Summation:			1938.299225				
Amount Avg CF:			0.020089	Linear:			
Aroclor-1221					3	117.28	
3.10	3.14	3.16	1784.047974	0.223132			1
3.16	3.18	3.22	4304.09082	0.750561			2
3.22	3.24	3.28	117.135712	0.005877			3
Height Summation:			6205.274506				
Amount Avg CF:			0.326523	Linear:			
Aroclor-1232					5	96.55	
+ 3.22	3.24	3.28	117.135712	0.006971			1
3.22	3.28	3.28	297.779327	0.017722			1
3.44	3.48	3.49	298.996521	0.034179			2
+ 3.56	3.56	3.62	405.039368	0.051032			3
3.56	3.61	3.62	872.336487	0.109908			3
3.73	3.76	3.79	166.554016	0.009452			4
3.77	3.80	3.83	302.632874	0.035299			5
Height Summation:			1938.299225				
Amount Avg CF:			0.041312	Linear:			
Aroclor-1242					5	80.64	
+ 3.22	3.24	3.28	117.135712	0.010121			1
3.22	3.28	3.28	297.779327	0.025728			1
3.44	3.48	3.49	298.996521	0.018638			2
+ 3.56	3.56	3.62	405.039368	0.028112			3
3.56	3.61	3.62	872.336487	0.060545			3
3.73	3.76	3.79	166.554016	0.00502			4
3.77	3.80	3.83	302.632874	0.019176			5
Height Summation:			1938.299225				
Amount Avg CF:			0.025821	Linear:			
Aroclor-1248					4	61.95	
3.88	3.92	3.94	167.794006	0.008072			1
4.13	4.17	4.19	732.22229	0.038972			3
4.28	4.30	4.34	531.482727	0.014477			4
4.43	4.46	4.49	599.416687	0.031505			5
Height Summation:			2030.915710				
Amount Avg CF:			0.023257	Linear:			
Aroclor-1254					2	47.57	
4.27	4.30	4.34	531.482727	0.014253			1
5.10	5.14	5.16	536.167297	0.028702			5
Height Summation:			1067.650024				
Amount Avg CF:			0.021478	Linear:			

USF83 3852

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/15/2011 13:57:55

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: BLANKA 7/13/11F PBLK13194 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 120 SDG: State:
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 22:51:54
Instrument : CP06-S9147A
Result file : 3P6193.39R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 14, 2011 22:51:54
Instrument : CP06-S9147B
Result file : 3P6193B.39R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					5	74.77	
4.78	4.81	4.84	340.094116	0.011314			1
+ 4.78	4.84	4.84	265.107849	0.00882			1
4.93	4.94	4.99	209.217667	0.00577			2
5.05	5.09	5.11	401.635712	0.01318			3
+ 5.61	5.62	5.67	91.801491	0.00153			5
5.61	5.65	5.67	901.903076	0.015033			5
5.87	5.87	5.93	1535.033936	0.038115			6
Height Summation:			3387.884507				
Amount Avg CF:			0.016682	Linear:			
Aroclor-1262					3	51.02	
5.05	5.09	5.11	401.635712	0.015033			1
+ 5.61	5.62	5.67	91.801491	0.001286			4
5.61	5.65	5.67	901.903076	0.012632			4
5.87	5.87	5.93	1535.033936	0.030983			5
Height Summation:			2838.572724				
Amount Avg CF:			0.019549	Linear:			
Aroclor-1268					4	57.36	
+ 5.82	5.84	5.88	1225.775757	0.015185			1
* 5.87	5.87	5.93	1535.033936	0.020177			2
* 5.82	5.87	5.88	1535.033936	0.019016			1
6.02	6.05	6.08	1642.215942	0.030538			3
6.44	6.47	6.50	787.633972	0.004607			6
Height Summation:			5499.917786				
Amount Avg CF:			0.018585	Linear:			
Chlordane					5	70.08	
3.61	3.61	3.68	872.336487	0.024279			1
3.72	3.76	3.79	166.554016	0.003898			2
3.98	4.01	4.05	298.444397	0.010806			3
4.41	4.45	4.48	599.416687	0.006074			4
5.13	5.14	5.20	536.167297	0.023366			6
Height Summation:			2472.918884				
Amount Avg CF:			0.013685	Linear:			
Toxaphene					6	92.10	
4.88	4.94	4.95	209.217667	0.030902			1
5.28	5.33	5.35	160.406647	0.017369			2
5.35	5.41	5.42	75.88195	0.003818			3
5.55	5.62	5.62	91.801491	0.008059			4
5.63	5.65	5.70	901.903076	0.072125			5
5.73	5.75	5.80	680.666077	0.02841			6
Height Summation:			2119.876908				
Amount Avg CF:			0.026781	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0	0		17.11	4	40	
Aroclor-1221			0	0		15.11	3	5	
Aroclor-1232			0	0		24.17	4	10	
Aroclor-1242			0	0		19.96	4	30	
Aroclor-1248			0	0		** 101.19	4	30	
Aroclor-1254			0	0		24.77	4	40	
Aroclor-1260			0	0			4	40	
Aroclor-1262			0	0			4	40	

USF83 2853

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/15/2011 13:57:55

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: BLANKA 7/13/11F PBLK13194 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 120 SDG: State:
Analyses: 00177

Analysis Report (A)

Injected on	: JUL 14, 2011 22:51:54
Instrument	: CP06-S9147A
Result file	: 3P6193.39R
Calibration file	: 1P6193.CAL
Method file	: PESTD.MET

Analysis Report (B)

Injected on	: JUL 14, 2011 22:51:54
Instrument	: CP06--S9147B
Result file	: 3P6193B.39R
Calibration file	: 1P6193B.CAL
Method file	: PESTDB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1268			0	0		35.89	4	40	
Chlordane			0.5	0.12		0.98	4	40	
Toxaphene			3	1		**91.73	4	40	

Units: ug/l

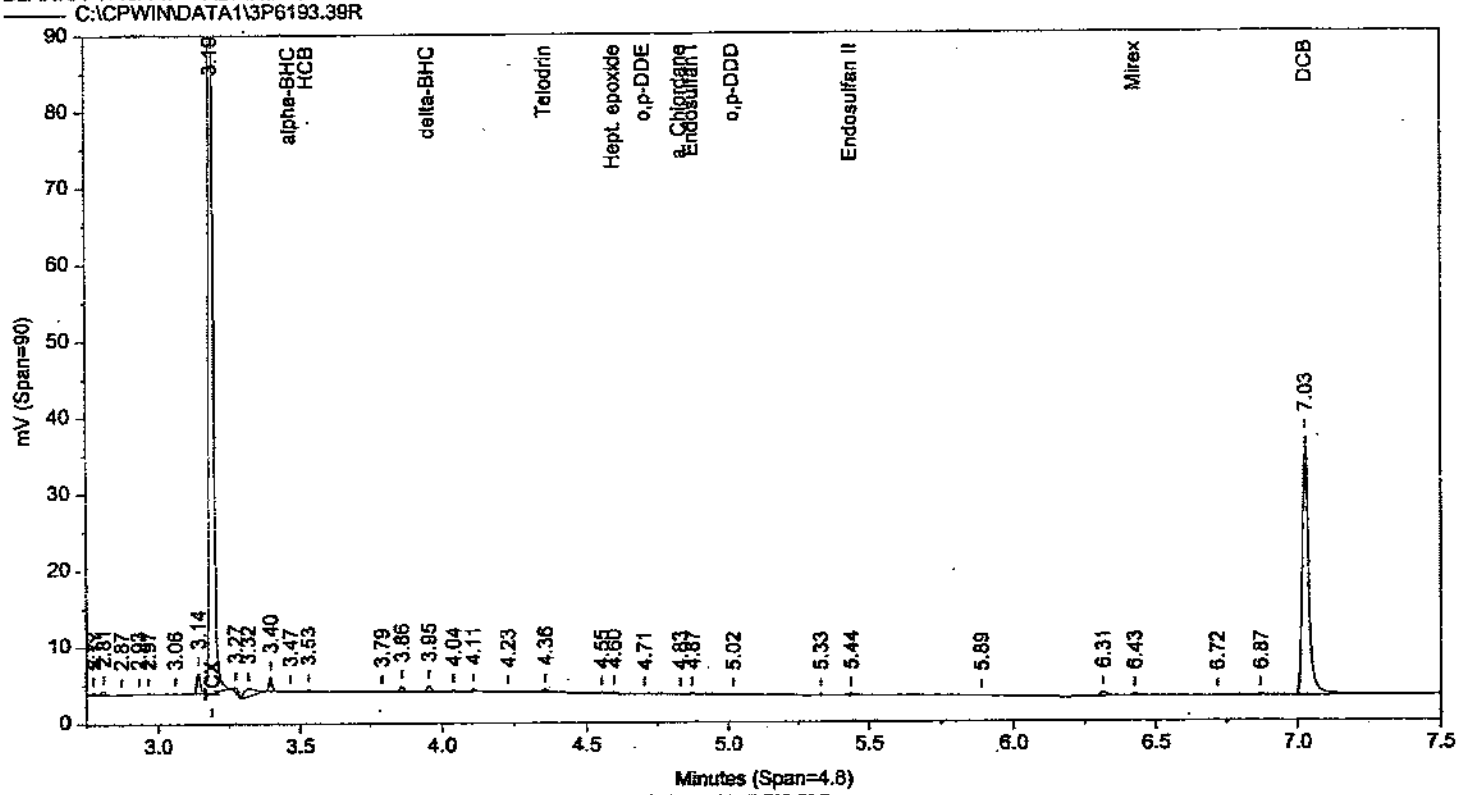
USF03 2854

* Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 7/15/2011 13:57:55

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.39R

BLANKA 7/13/11F ABPBLK13194 BLK 111940013A 00177

C:\CPWIN\DATA1\3P6193.39R

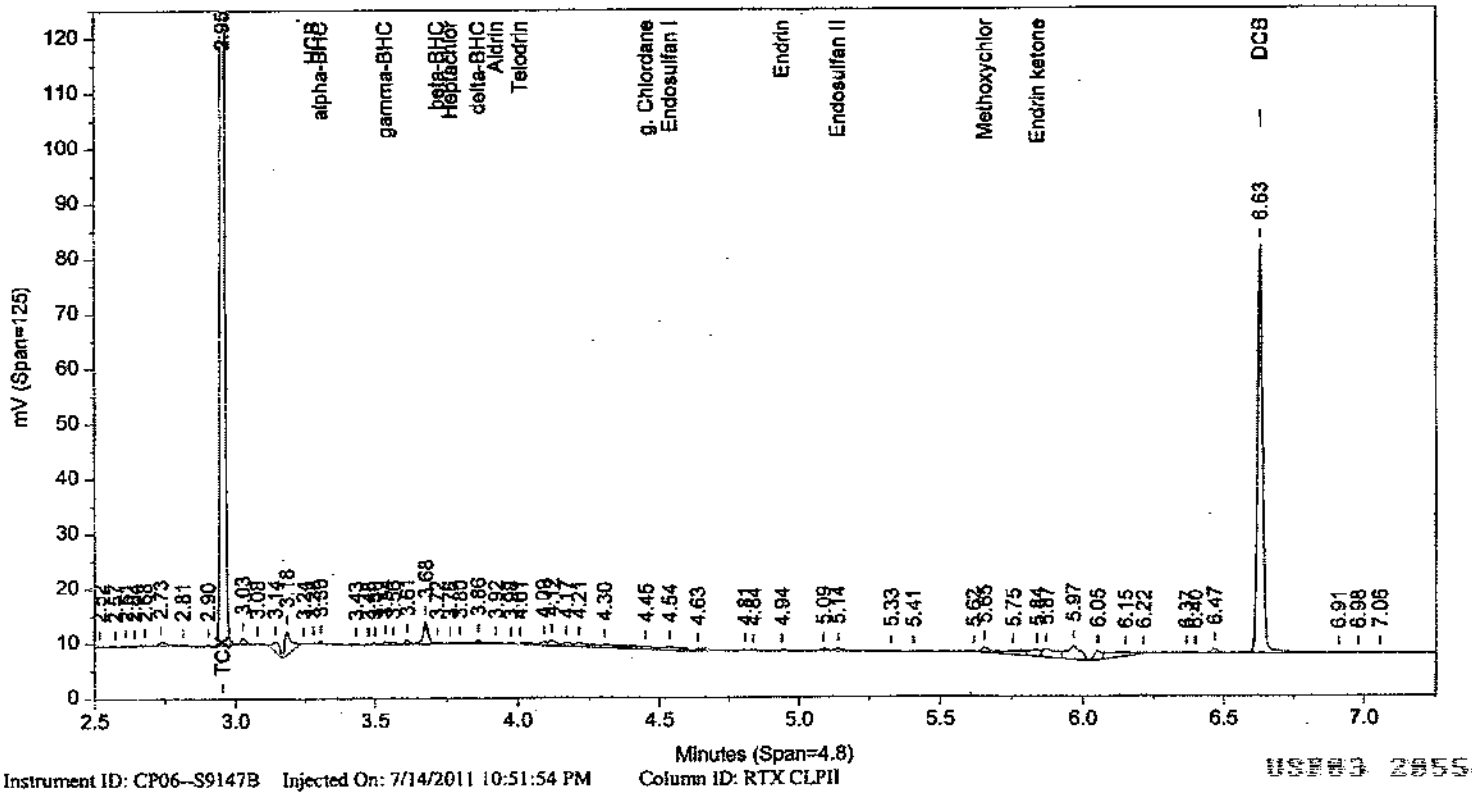


Instrument ID: CP06--S9147A Injected On: 7/14/2011 10:51:54 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\3P6193B.39R

BLANKA 7/13/11F ABPBLK13194 BLK 111940013A 00177

C:\CPWIN\DATA1\3P6193B.39R



Instrument ID: CP06--S9147B Injected On: 7/14/2011 10:51:54 PM Column ID: RTX CLPII

USEPA 2855

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Multiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1000 Dilution Factor: 10
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.189	149852	.28512	TCX	2.954	243127	.27723	TCX
3.53	330	.00056	HCB	3.278	298	.00022	HCB
3.465	135	.00014	alpha-BHC	3.304	612	.00042	alpha-BHC
.	0	.	gamma-BHC	3.536	613	.00047	gamma-BHC
.	0	.	beta-BHC	3.718	236	.00045	beta-BHC
.	0	.	Heptachlor	3.763	167	.00017	Heptachlor
3.955	791	.00118	delta-BHC	3.862	734	.00062	delta-BHC
.	0	.	Aldrin	3.925	168	.00019	Aldrin
4.357	426	.00168	Telodrin	4.008	298	.00039	Telodrin
.	0	.	g. Chlordane	4.452	599	.00072	g. Chlordane
4.872	156	.00036	Endosulfan I	4.535	716	.00095	Endosulfan I
4.597	194	.00035	Hept. epoxide	.	0	.	Hept. epoxide
4.705	40	.00015	o,p-DDE	.	0	.	o,p-DDE
4.83	64	.00013	a. Chlordane	.	0	.	a. Chlordane
.	0	.	Endrin	4.939	209	.00032	Endrin
5.018	47	.00023	o,p-DDD	.	0	.	o,p-DDD
5.439	274	.00078	Endosulfan II	5.14	536	.0009	Endosulfan II
.	0	.	Methoxychlor	5.654	902	.00462	Methoxychlor
.	0	.	Endrin ketone	5.839	1226	.00198	Endrin ketone
6.426	293	.00139	Mirex	.	0	.	Mirex
7.029	33894	.25198	DCB	6.629	74960	.2135	DCB

Files:
Area File: C:\CPWIN\DATA1\3P6193.39A
Area File: C:\CPWIN\DATA1\3P6193B.39A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
Format A: C:\CPWIN\DATA1\PESTD.FMTA
Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/14/2011 10:59:30 PM
File Reported On: 7/14/2011 at 10:59:37 PM

REPLOTS

USF83 2856

BLANKA 7/13/11F ABPBLK13194 BLK 111940013A 00177
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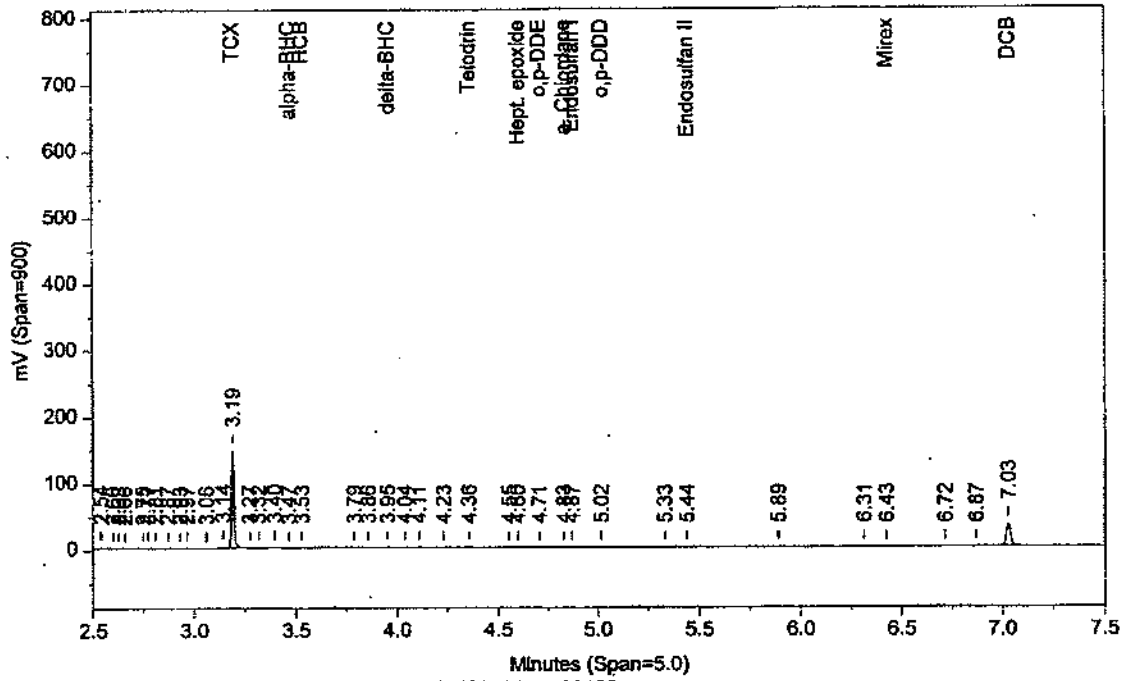

BLANKA 7/13/11F ABPBLK13194 BLK 111940013A 00177
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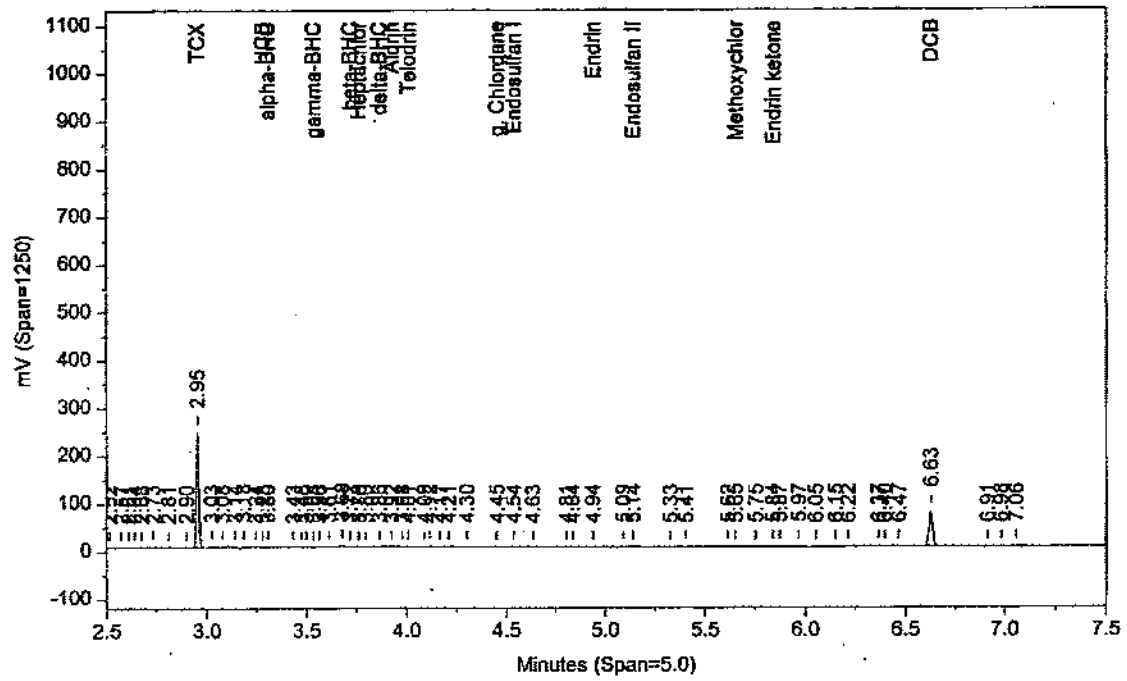

USF89 2857

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSA 7/13/11F LCS13194 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 120 SDG: State:
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 23:04:30
Instrument : CP06--S9147A
Result file : 3P6193.40R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

%SSR(TCX) : 94.7% (52-141) Conc.: 0.295789
%SSR(DCB) : 109.9% (40-144) Conc.: 0.343639

Peak name	Min	R.T.	Max	Height	Amount
TCX	3.17	3.19	3.22	155462	0.295789
alpha-BHC	3.46	3.49	3.51	98391	0.099667
HCB	3.49	3.53	3.54	284	0.000478
gamma-BHC	3.67	3.69	3.72	82477	0.098614
beta-BHC	3.80	3.82	3.85	28543	0.096402
delta-BHC	3.95	3.98	4.01	66342	0.098582
Heptachlor	4.04	4.06	4.09	65930	0.099435
Aldrin	4.27	4.29	4.32	61493	0.091030
Telodrin	4.33	4.36	4.37	405	0.001593
Hept. epoxide	4.57	4.59	4.62	51387	0.093864
o,p-DDE	4.68	4.70	4.72	595	0.002293
g. Chlordane	4.75	4.78	4.80	49260	0.097133
a. Chlordane	4.80	4.83	4.87	46004	0.095766
Endosulfan I	4.85	4.87	4.90	39852	0.090963
4,4'-DDE	4.94	4.96	4.99	71673	0.211791
Dieldrin	5.06	5.08	5.11	102416	0.208849
Endrin	5.24	5.26	5.29	48092	0.123559
4,4'-DDD	5.34	5.36	5.39	55259	0.237949
Endosulfan II	5.41	5.43	5.46	67212	0.191123
Endrin aldehyde	5.51	5.53	5.56	54594	0.220877
4,4'-DDT	5.57	5.59	5.62	53447	0.197767
Endo. sulfate	5.68	5.70	5.73	62335	0.202137
Methoxychlor	5.93	5.95	5.98	94677	1.003645
Endrin ketone	6.05	6.07	6.10	73212	0.230930
Mirex	6.39	6.43	6.43	315	0.001493
DCB	7.01	7.03	7.06	46222	0.343639

Analysis Report (B)

Injected on : JUL 14, 2011 23:04:30
Instrument : CP06--S9147B
Result file : 3P6193B.40R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 90.4% (52-141) Conc.: 0.282513
%SSR(DCB) : 90.3% (40-144) Conc.: 0.282305

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.94	2.96	2.98	247759	0.282513
HCB	3.26	3.28	3.30	2653	0.001926
alpha-BHC	3.30	3.32	3.34	134316	0.092543
gamma-BHC	3.51	3.53	3.55	118902	0.090963
beta-BHC	3.69	3.71	3.73	46171	0.086990
Heptachlor	3.73	3.75	3.78	87181	0.091027
delta-BHC	3.85	3.87	3.89	109816	0.092208
Aldrin	3.92	3.94	3.96	79446	0.091549
Hept. epoxide	4.25	4.27	4.30	73527	0.086359
o,p-DDE	4.37	4.39	4.41	1035	0.001960
g. Chlordane	4.42	4.44	4.47	71217	0.086127
a. Chlordane	4.47	4.49	4.51	65032	0.090760
Endosulfan I	4.52	4.54	4.56	60418	0.080550
4,4'-DDE	4.59	4.61	4.63	125692	0.175130
Dieldrin	4.70	4.73	4.76	146309	0.183804
Endrin	4.91	4.94	4.96	72264	0.109281
4,4'-DDD	5.00	5.02	5.05	109690	0.200843
Endosulfan II	5.13	5.15	5.18	98803	0.165595
4,4'-DDT	5.19	5.21	5.24	94501	0.173976
Endrin aldehyde	5.27	5.29	5.32	87098	0.188047
Endo. sulfate	5.43	5.46	5.48	89242	0.182841
Methoxychlor	5.62	5.65	5.67	170583	0.873279
Endrin ketone	5.83	5.85	5.88	125317	0.202753
DCB	6.61	6.63	6.65	99117	0.282305

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	A	0.295789				4.59	
☑ alpha-BHC	A	0.099667	0.01	0.003		7.41	
☑ HCB			<0.01	<0.003			
☑ gamma-BHC	A	0.098614	0.01	0.002		8.07	
☑ beta-BHC	A	0.096402	0.01	0.0029		10.26	
☑ delta-BHC	A	0.098582	0.01	0.0029		6.68	
☑ Heptachlor	A	0.099435	0.01	0.0026		8.83	
☑ Aldrin	B	0.091549	0.01	0.002		0.57	
☑ Telodrin			<0.01	<0.0036			
☑ Hept. epoxide	A	0.093864	0.01	0.0023		8.33	
☑ o,p-DDE			<0.75	<0.25			
☑ g. Chlordane	A	0.097133	0.02	0.0025		12.01	
☑ a. Chlordane	A	0.095766	0.01	0.002		5.37	
☑ Endosulfan I	A	0.090963	0.01	0.0043		12.14	
☑ 4,4'-DDE	A	0.211791	0.02	0.005		18.95	

USF03 2858

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/15/2011 13:58:09

Lancaster Laboratories Single Component Data Summary

Sample Name: **LCSA** 7/13/11F LCS13194 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 120 SDG: State:
Analyses: 00177

Analysis Report (A)
Injected on : JUL 14, 2011 23:04:30
Instrument : CP06-S9147A
Result file : 3P6193.40R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

Analysis Report (B)
Injected on : JUL 14, 2011 23:04:30
Instrument : CP06-S9147B
Result file : 3P6193B.40R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ o,p-DDD			<0.02	<0.005			
☑ Dieldrin	A	0.208849	0.02	0.0053		12.76	
☑ Endrin	~~A~~ B	0.105281 ~~0.123559~~	0.02	0.0081		12.26	Endrn BD (A)
☑ o,p-DDT			<0.02	<0.0051			
☑ 4,4'-DDD	A	0.237949	0.02	0.005		16.91	
☑ Endosulfan II	A	0.191123	0.02	0.015		14.31	
☑ Kepone			<0.2	<0.07			
☑ Endrin aldehyde	~~A~~ B	0.188071 ~~0.220877~~	0.1	0.02		16.06	Endrn BD (A)
☑ 4,4'-DDT	A	0.197767	0.02	0.005		12.80	
☑ Endo. sulfate	A	0.202137	0.02	0.0058		10.02	
☑ Methoxychlor	A	1.003645	0.1	0.03		13.89	
☑ Endrin ketone	~~A~~ B	0.202153 ~~0.236930~~	0.02	0.005		12.99	Endrn BD (A)
☑ Mirex			<0.25	<0.0846			
☐ DCB	A	0.343639				19.60	

Units: ug/l

Lisa A. Reinert
Chemist

Reviewed by: _____
Date: JUL 15 2011

Valerie L. Tomayko
Principal Specialist

Verified by: _____
Date: JUL 22 2011

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits
Printed on: 7/15/2011 13:58:09

Higher Amount Found unless RPD > 40

USF03 2659

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.40R

LCSA 7/13/11F ABLCS13194 LCS 111940013A 00177

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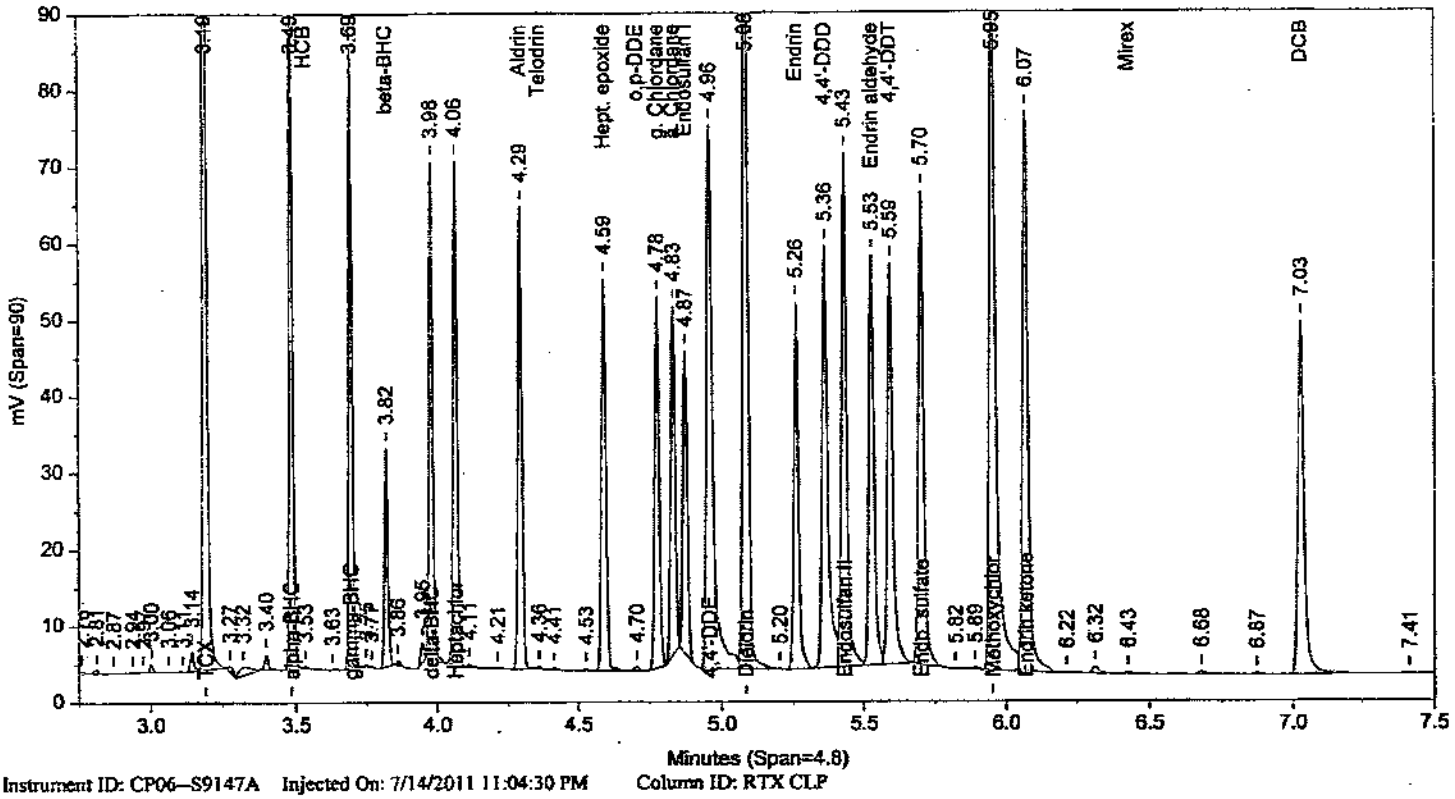

Instrument ID: CP06—S9147A Injected On: 7/14/2011 11:04:30 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\3P6193B.40R

LCSA 7/13/11F ABLCS13194 LCS 111940013A 00177

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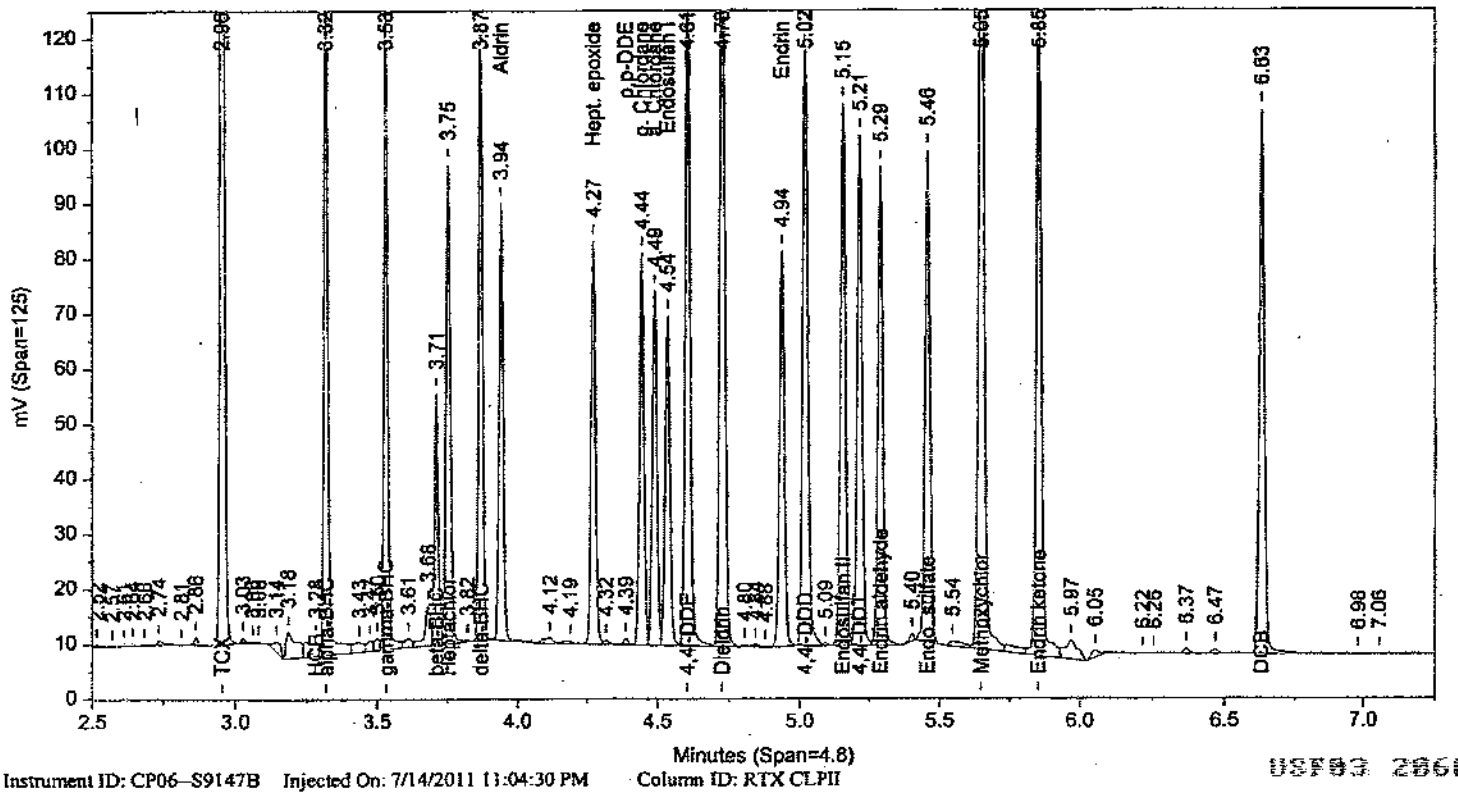

Instrument ID: CP06—S9147B Injected On: 7/14/2011 11:04:30 PM Column ID: RTX CLPII

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/minValidate Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1000 Dilution Factor: 10
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.19	155462	.29579	TCX	2.955	247759	.28251	TCX
3.532	284	.00048	HCB	3.28	2653	.00193	HCB
3.486	98391	.09967	alpha-BHC	3.315	134316	.09254	alpha-BHC
3.692	82477	.09861	gamma-BHC	3.532	118902	.09096	gamma-BHC
3.82	28543	.0964	beta-BHC	3.712	46171	.08699	beta-BHC
4.063	65930	.09943	Heptachlor	3.754	87181	.09103	Heptachlor
3.979	66342	.09858	delta-BHC	3.868	109816	.09221	delta-BHC
4.292	61493	.09103	Aldrin	3.94	79446	.09155	Aldrin
4.59	51387	.09386	Hept. epoxide	4.273	73527	.08636	Hept. epoxide
4.359	405	.00159	Telodrin	.	0	.	Telodrin
4.704	595	.00229	o,p-DDE	4.388	1035	.00196	o,p-DDE
4.775	49260	.09713	g. Chlordane	4.443	71217	.08613	g. Chlordane
4.832	46004	.09577	a. Chlordane	4.489	65032	.09076	a. Chlordane
4.874	39852	.09096	Endosulfan I	4.536	60418	.08055	Endosulfan I
4.959	71673	.21179	4,4'-DDE	4.606	125692	.17513	4,4'-DDE
5.083	102416	.20885	Dieldrin	4.726	146309	.1838	Dieldrin
5.26	48092	.12356	Endrin	4.936	72264	.10928	Endrin
5.36	55259	.23795	4,4'-DDD	5.019	109690	.20084	4,4'-DDD
5.43	67212	.19112	Endosulfan II	5.154	98803	.1656	Endosulfan II
5.595	53447	.19777	4,4'-DDT	5.215	94501	.17398	4,4'-DDT
5.528	54594	.22088	Endrin aldehyde	5.29	87098	.18805	Endrin aldehyde
5.704	62335	.20214	Endo. sulfate	5.457	89242	.18284	Endo. sulfate
5.953	94677	1.00365	Methoxychlor	5.645	170583	.87328	Methoxychlor
6.07	73212	.23093	Endrin ketone	5.852	125317	.20275	Endrin ketone
6.428	315	.00149	Mirex	.	0	.	Mirex
7.03	46222	.34364	DCB	6.629	99117	.28231	DCB

Files:
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Area File: C:\CPWIN\DATA1\3P6193B.40A
Method A: C:\CPWIN\DATA1\PESTD.MET
Method B: C:\CPWIN\DATA1\PESTDB.MET
Calibration File A: C:\CPWIN\DATA1\1P6193.CAL
Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/14/2011 11:12:06 PM
File Reported On: 7/14/2011 at 11:12:13 PM

USF83 2861

Files:

REPLOTS

LCSA 7/13/11F ABLCS13194 LCS 111940013A 00177
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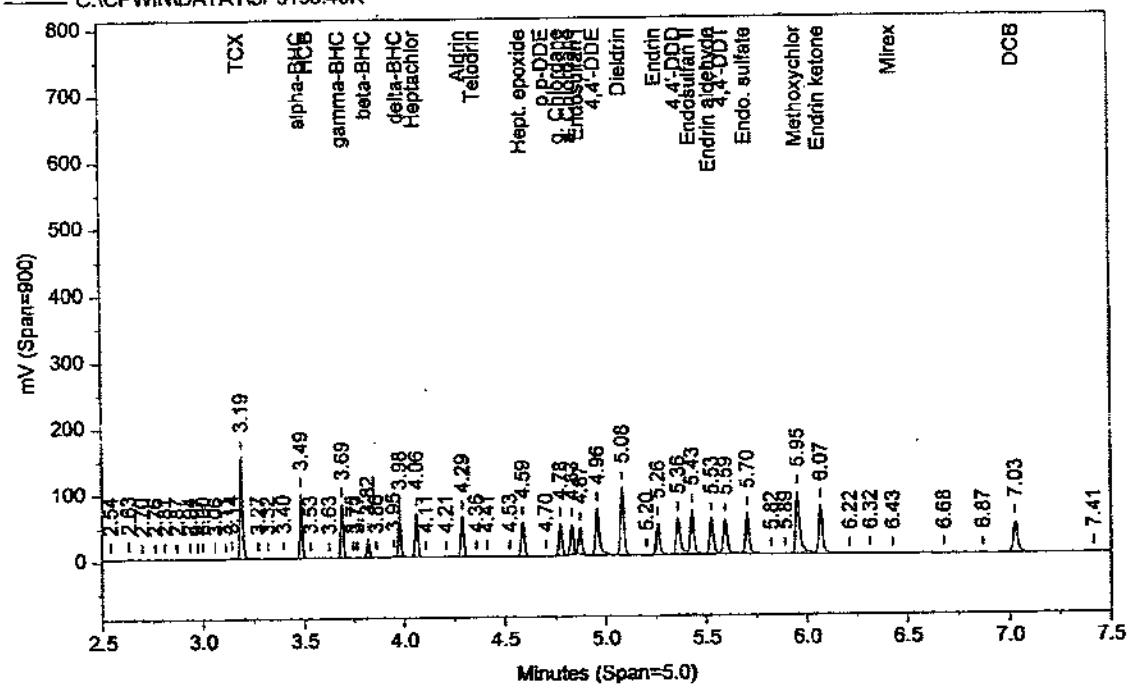

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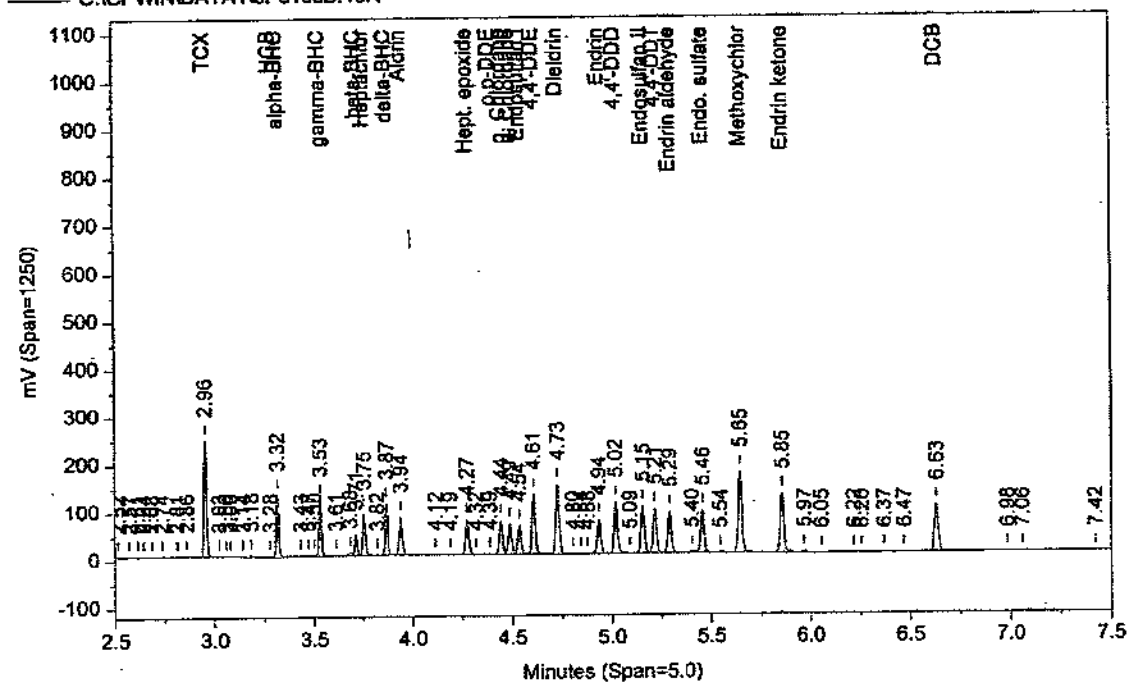

USF03 2862

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSDA 7/13/11F LCSD13194 Sample ID: AB **Batchnumber: 111940013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 120 SDG: State:
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 23:17:17
Instrument : CP06-S9147A
Result file : 3P6193.41R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

%SSR(TCX) : 99.9% (52-141) Conc.: 0.31228
%SSR(DCB) : 111.5% (40-144) Conc.: 0.348836

Peak name	Min	R.T.	Max	Height	Amount
TCX	3.17	3.19	3.22	164129	0.312280
alpha-BHC	3.46	3.49	3.51	104315	0.105668
HCB	3.49	3.53	3.54	298	0.000503
gamma-BHC	3.67	3.69	3.72	88004	0.105222
beta-BHC	3.80	3.82	3.85	29684	0.100257
delta-BHC	3.95	3.98	4.01	71565	0.106343
Heptachlor	4.04	4.06	4.09	71155	0.107316
Aldrin	4.27	4.29	4.32	64985	0.098201
Telodrin	4.33	4.36	4.37	406	0.001596
Hept. epoxide	4.57	4.59	4.62	53128	0.097044
o,p-DDE	4.68	4.70	4.72	624	0.002402
g. Chlordane	4.75	4.77	4.80	51601	0.101750
a. Chlordane	4.80	4.83	4.87	48573	0.101112
Endosulfan I	4.85	4.87	4.90	42471	0.096940
4,4'-DDE	4.94	4.96	4.99	75839	0.224101
Dieldrin	5.06	5.08	5.11	111649	0.227679
Endrin	5.24	5.26	5.29	58282	0.147749
4,4'-DDD	5.34	5.36	5.39	58143	0.250369
Endosulfan II	5.41	5.43	5.46	70747	0.201175
Endrin aldehyde	5.51	5.53	5.56	57631	0.233163
4,4'-DDT	5.57	5.59	5.62	57909	0.212993
Endo. sulfate	5.68	5.70	5.73	66125	0.213585
Methoxychlor	5.93	5.95	5.98	102949	1.091335
Endrin ketone	6.05	6.07	6.10	76208	0.240381
Mirex	6.39	6.43	6.43	347	0.001645
DCB	7.01	7.03	7.06	46921	0.348836

Analysis Report (B)

Injected on : JUL 14, 2011 23:17:17
Instrument : CP06-S9147B
Result file : 3P6193B.41R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

%SSR(TCX) : 95.6% (52-141) Conc.: 0.298677
%SSR(DCB) : 94.1% (40-144) Conc.: 0.294447

Peak name	Min	R.T.	Max	Height	Amount
TCX	2.94	2.95	2.98	261934	0.298677
HCB	3.26	3.28	3.30	293	0.000213
alpha-BHC	3.30	3.31	3.34	142004	0.097840
gamma-BHC	3.51	3.53	3.55	126474	0.096756
beta-BHC	3.69	3.71	3.73	48954	0.092234
Heptachlor	3.73	3.75	3.78	91710	0.095755
delta-BHC	3.85	3.87	3.89	118588	0.099573
Aldrin	3.92	3.94	3.96	85621	0.098565
Hept. epoxide	4.25	4.27	4.30	78650	0.092376
o,p-DDE	4.37	4.39	4.41	1123	0.002127
g. Chlordane	4.42	4.44	4.47	77274	0.093452
a. Chlordane	4.47	4.49	4.51	73590	0.102703
Endosulfan I	4.52	4.53	4.56	64618	0.086150
4,4'-DDE	4.59	4.60	4.63	134587	0.186413
Dieldrin	4.70	4.73	4.76	157209	0.197497
Endrin	4.91	4.93	4.96	92176	0.139393
4,4'-DDD	5.00	5.02	5.05	115289	0.211096
Endosulfan II	5.13	5.15	5.18	107554	0.180263
4,4'-DDT	5.19	5.21	5.24	103022	0.189663
Endrin aldehyde	5.27	5.29	5.32	90144	0.194623
Endo. sulfate	5.43	5.46	5.48	96001	0.196690
Methoxychlor	5.62	5.64	5.67	184723	0.945666
Endrin ketone	5.83	5.85	5.88	129089	0.208856
DCB	6.61	6.63	6.65	103379	0.294447

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☐ TCX	A	0.312280				4.45	
☑ alpha-BHC	A	0.105668	0.01	0.003		7.69	
☑ HCB			<0.01	<0.003			
☑ gamma-BHC	A	0.105222	0.01	0.002		8.38	
☑ beta-BHC	A	0.100257	0.01	0.0029		8.34	
☑ delta-BHC	A	0.106343	0.01	0.0029		6.58	
☑ Heptachlor	A	0.107316	0.01	0.0026		11.39	
☑ Aldrin	B	0.098665	0.01	0.002		2.53	
☑ Telodrin			<0.01	<0.0036			
☑ Hept. epoxide	A	0.097044	0.01	0.0023		4.93	
☑ o,p-DDE			<0.75	<0.25			
☑ g. Chlordane	A	0.101750	0.02	0.0025		8.50	
☑ a. Chlordane	B	0.102703	0.01	0.002		1.56	
☑ Endosulfan I	A	0.096940	0.01	0.0043		11.79	
☑ 4,4'-DDE	A	0.224101	0.02	0.005		18.36	

%Difference = High - Low Amount divided by the Average times 100 Higher Amount Found unless RPD > 40
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits

Printed on: 7/15/2011 13:58:38

Lancaster Laboratories-Single Component Data Summary

Sample Name: LCSDA 7/13/11F LCSD13194 **Sample ID:** AB **Batchnumber:** 111940013A
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 120 SDG: State:
Analyses: 00177

Analysis Report (A)

Injected on : JUL 14, 2011 23:17:17
Instrument : CP06--S9147A
Result file : 3P6193.41R
Calibration file : 1P6193.CAL
Method file : PESTD.MET

Analysis Report (B)

Injected on : JUL 14, 2011 23:17:17
Instrument : CP06--S9147B
Result file : 3P6193B.41R
Calibration file : 1P6193B.CAL
Method file : PESTDB.MET

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ o,p-DDD			<0.02	<0.005			
☑ Dieldrin	A	0.227679	0.02	0.0053		14.20	
☑ Endrin	~~AB~~	0.139395 ~~0.147749~~	0.02	0.0081		5.82	Endrin BD(A)
☑ o,p-DDT			<0.02	<0.0051			
☑ 4,4'-DDD	A	0.250369	0.02	0.005		17.02	
☑ Endosulfan II	A	0.201175	0.02	0.015		10.96	
☑ Kepone			<0.2	<0.07			
☑ Endrin aldehyde	~~AB~~	0.194023 ~~0.233163~~	0.1	0.02		18.02	Endrin BD(A)
☑ 4,4'-DDT	A	0.212993	0.02	0.005		11.59	
☑ Endo. sulfate	A	0.213585	0.02	0.0058		8.24	
☑ Methoxychlor	A	1.091335	0.1	0.03		14.30	
☑ Endrin ketone	~~AB~~	0.208856 ~~0.246381~~	0.02	0.005		14.03	Endrin BD(A)
☑ Mirex			<0.25	<0.0846			
☐ DCB	A	0.348836				16.91	

Units: ug/l

Reviewed by: Lisa A. Reinert, Chemist
Date: JUL 15 2011

Verified by: Valerie L. Tomayko, Principal Specialist
Date: JUL 22 2011

%Difference = High - Low Amount divided by the Average times 100
** %Difference > 40, lower amount found reported
* Recovery outside QC Limits
Higher Amount Found unless RPD > 40

USEPA 2864

Printed on: 7/15/2011 13:58:38

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P6193.41R

LCSDA 7/13/11F ABLCSD13194 LCSD 111940013A 00177

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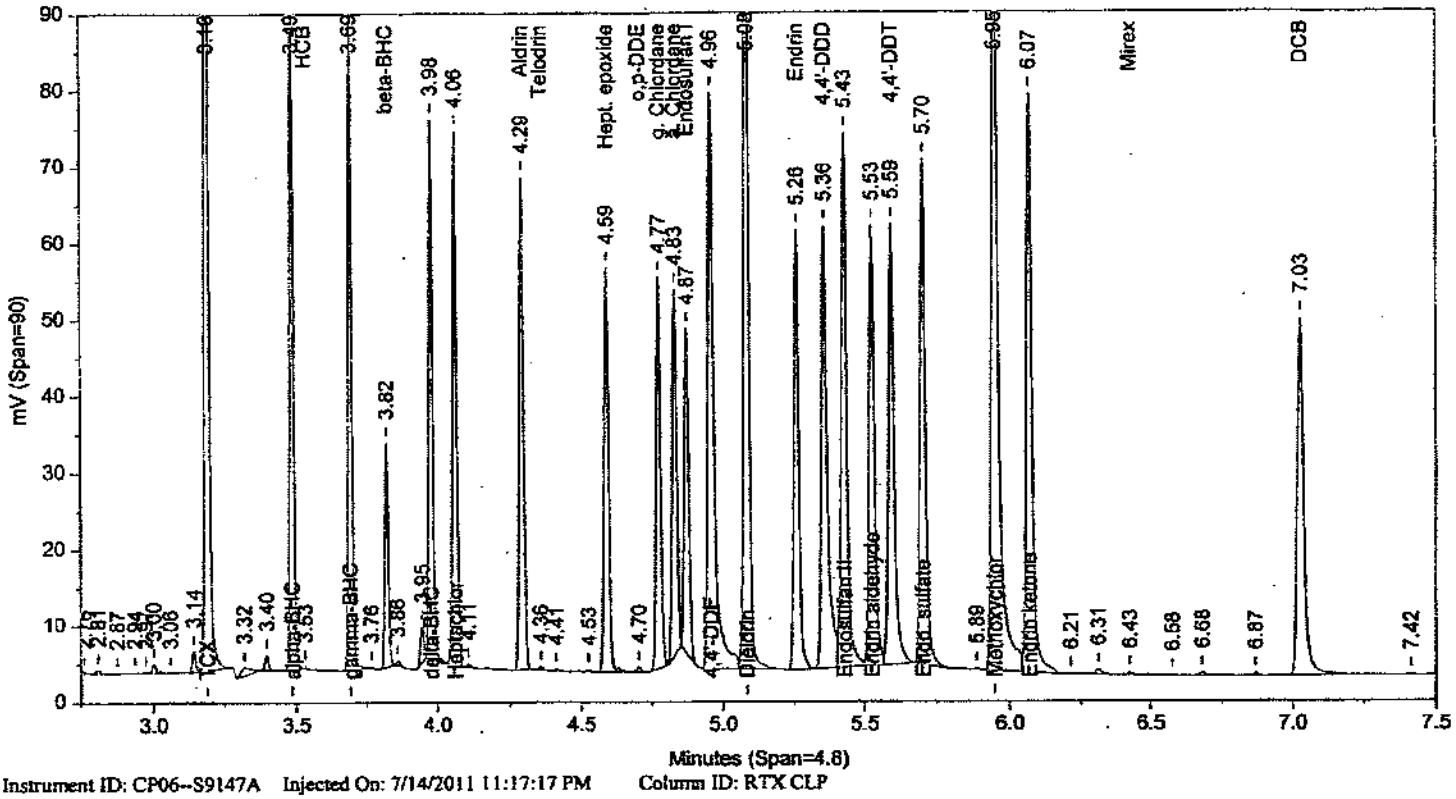

Instrument ID: CP06--S9147A Injected On: 7/14/2011 11:17:17 PM Column ID: RTX CLP

File: C:\CPWIN\DATA1\3P6193B.41R

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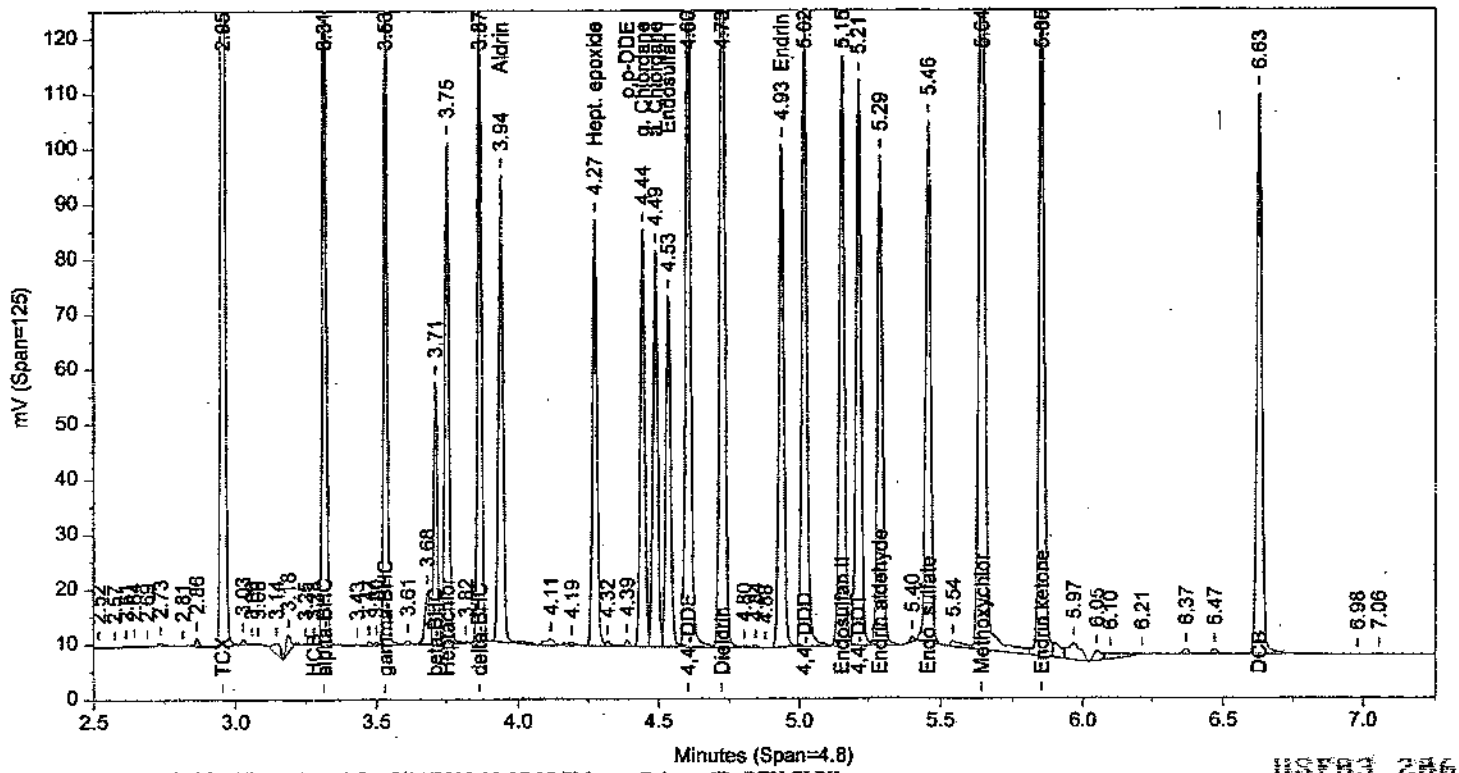

Instrument ID: CP06--S9147B Injected On: 7/14/2011 11:17:17 PM Column ID: RTX CLPII

USF93 2565

Oven Parameters: 110 to 250 @ 40/min; to 280 @ 20/min; to 330 @ 30/min Multiple Inj: 1

Detector A Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 1 Width: 0.008 Area Reject: 0
Calibration Type: External Quantitation: Height

Sample Weight: 1000 Dilution Factor: 10
Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.189	164129	.31228	TCX	2.955	261934	.29868	TCX
3.531	298	.0005	HCB	3.278	293	.00021	HCB
3.485	104315	.10567	alpha-BHC	3.314	142004	.09784	alpha-BHC
3.691	88004	.10522	gamma-BHC	3.531	126474	.09676	gamma-BHC
3.819	29684	.10026	beta-BHC	3.711	48954	.09223	beta-BHC
4.062	71155	.10732	Heptachlor	3.752	91710	.09576	Heptachlor
3.978	71565	.10634	delta-BHC	3.867	118588	.09957	delta-BHC
4.291	64985	.0962	Aldrin	3.939	85621	.09867	Aldrin
4.589	53128	.09704	Hept. epoxide	4.271	78650	.09238	Hept. epoxide
4.357	406	.0016	Telodrin	.	0	.	Telodrin
4.703	624	.0024	o,p-DDE	4.387	1123	.00213	o,p-DDE
4.774	51601	.10175	g. Chlordane	4.442	77274	.09345	g. Chlordane
4.832	48573	.10111	a. Chlordane	4.488	73590	.1027	a. Chlordane
4.873	42471	.09694	Endosulfan I	4.535	64618	.08615	Endosulfan I
4.958	75839	.2241	4,4'-DDE	4.605	134587	.18641	4,4'-DDE
5.082	111649	.22768	Dieldrin	4.725	157209	.1975	Dieldrin
5.259	58282	.14775	Endrin	4.934	92176	.13939	Endrin
5.358	58143	.25037	4,4'-DDD	5.017	115289	.2111	4,4'-DDD
5.429	70747	.20117	Endosulfan II	5.153	107554	.18026	Endosulfan II
5.594	57909	.21299	4,4'-DDT	5.213	103022	.18966	4,4'-DDT
5.527	57631	.23316	Endrin aldehyde	5.288	90144	.19462	Endrin aldehyde
5.703	66125	.21358	Endo. sulfate	5.455	96001	.19669	Endo. sulfate
5.951	102949	1.09133	Methoxychlor	5.644	184723	.94567	Methoxychlor
6.069	76208	.24038	Endrin ketone	5.851	129089	.20886	Endrin ketone
6.426	347	.00164	Mirex	.	0	.	Mirex
7.029	46921	.34884	DCB	6.629	103379	.29445	DCB

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Area File: C:\CPWIN\DATA1\3P6193B.41A
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Method B: C:\CPWIN\DATA1\PESTDB.MET
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Calibration File B: C:\CPWIN\DATA1\1P6193B.CAL
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Format B: C:\CPWIN\DATA1\PESTD.FMTB
Area File Created On: 7/14/2011 11:24:52 PM
File Reported On: 7/14/2011 at 11:25:00 PM

USF03 2866

Files:

REPLOTS

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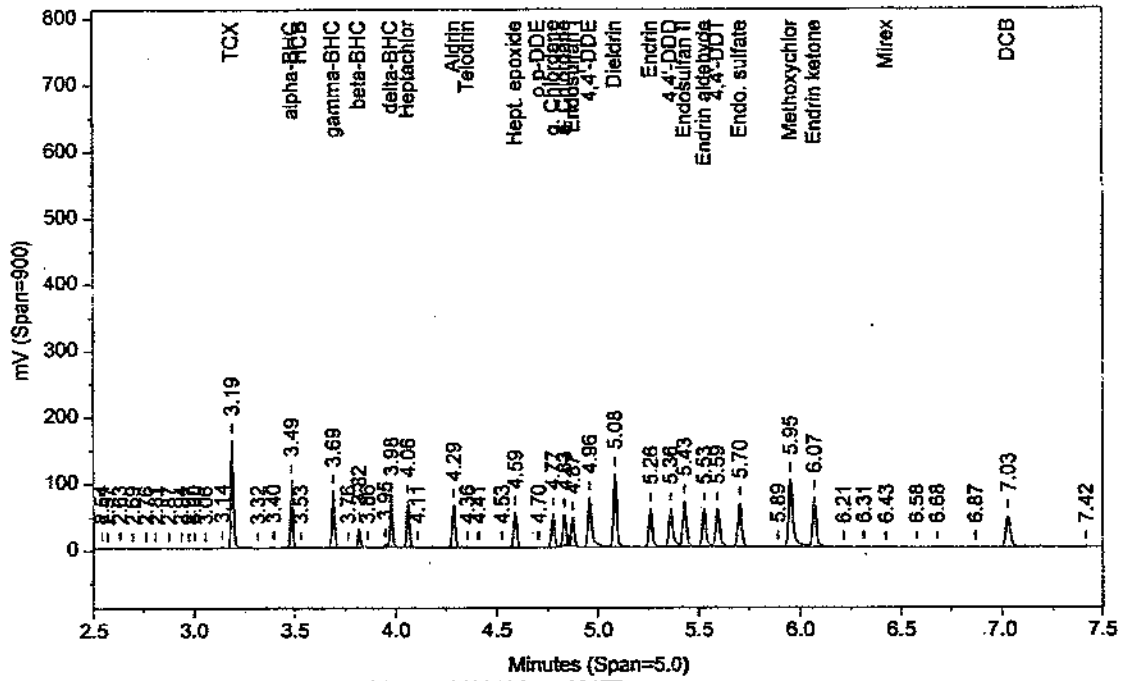

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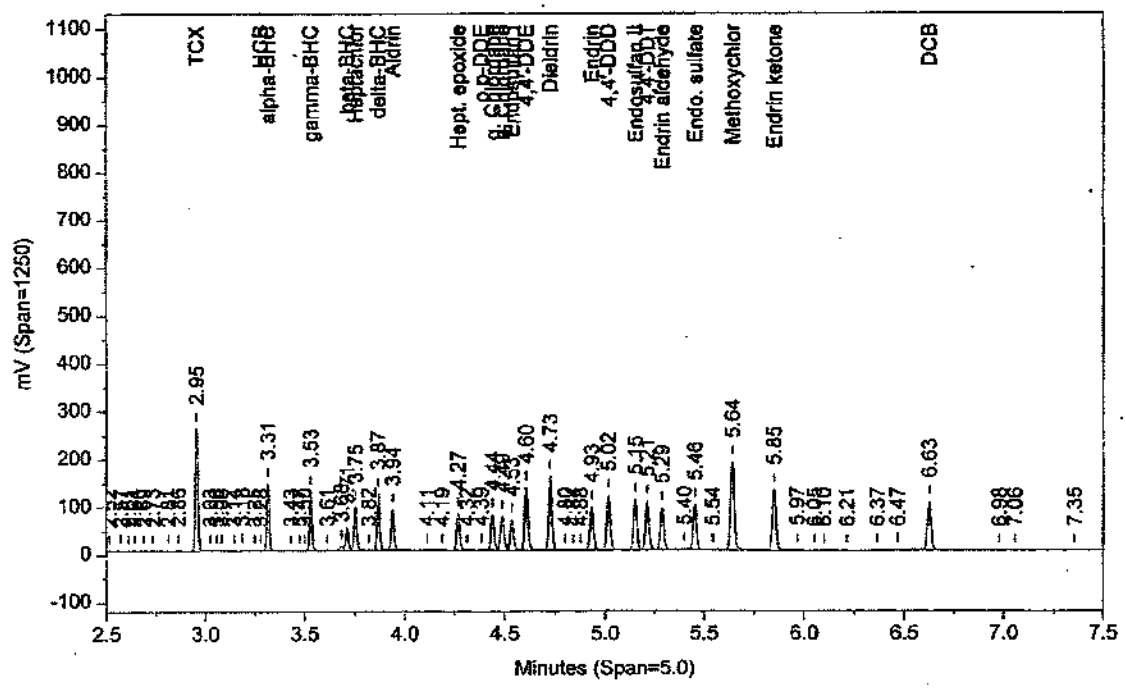


USF93 2857

Extraction/Distillation/Digestion Logs

USF83 2868

Organic Extraction Batchlog Assigned to: 1364 JoElla Rice Reviewed by: [illegible] Start Date: 7-13-11 Start time: 15:40

111940013A Tech 1: MBL Tech 2:

Dept: 24 Prep Analysis: 11118 Pesticide Screen Waters Ext OC Pesticides in Water

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANKA	PBLK13194	1000	SS1118624A	1.0	—	—	10	6	—	—	DI H2O
LCSA	LCS13194	1000	SS1118624A	1.0	~~MS1116124A~~	1.0	10	6	—	—	↓
LCSDA	LCSD13194	1000	SS1118624A	1.0	~~MS1116124A~~	1.0	10	6	—	—	↓

Solvent Used	Lot No.
Hexane	112392
Methylene Chloride	112973
Sodium Sulfate	111914

* MS1118224A
Spike Solutions: Witness: R62341

~~*MS1116124A~~ SW846 SPIKE
SS1118624A SW846 SURROGATE STANDARI

MBL 7-12-11

Sample #	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1 6339388	EBQ03	1043	SS1118624A	1.0	10	6	—	430	clear	00177	07/22/2011	S
2 6340962	WREB4	1047	SS1118624A	1.0	10	6	—	43B	↓	00177	07/21/2011	S
3 6340963	WRFB1	1047	SS1118624A	1.0	10	6	—	43B	↓	00177	07/21/2011	S

MBL 7-13-11

Rack ID:	—	Work Station	Bench 5
Internal Standard		Balance #	7

DF = Dilution Factor FV = Final Volume

S-bath ID	96 C	S-bath ID	— C	N-Evap	1	37C	M-vap	— C

Documented temps are NIST corrected.

111940013A

Prep-Process Worksheet

Florisil
Prep: 11118 Pesticide Screen Waters Ext
Batch: 111940013A

Verified: MC 7-13-11
Start Date: 7-13-11
Start Time: 2010
Tech 1: MBC
Tech 2:

	Sample #	QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	6339388		2	2				00177
2	6340962		2	2				00177
3	6340963		2	2				00177
4	BLANKA		2	2				
5	LCSA		2	2				
6	LCSDA		2	2				

MBC 7-13-11

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		Florisil	855021-1BY

S-Evap/bath	C	S-Evap/bath	C	N-Evap	C

USF03 2578

The documented temperatures are NIST corrected.

Organic Extraction Batchlog Assigned to: 881 Joseph Feister

Reviewed by: _____ Start Date: 7/13/11 Start time: 6:30

111930027A

Tech 1: SF 921 Tech 2: _____

Dept: 24 Prep Analysis: 11134 Pesticide Screen Soils Ext OC Pesticides in Solids

QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6339378MS	82S05	60.1	SS1115424C	1.0	MS1116124B	1.0	10	Z	Z		
6339379MSD	82S05	60.4	SS1115424C	1.0	MS1116124B	1.0	10	Z	Z		
BLANKA	PBLK27193	60	SS1115424C	1.0	—	—	10	Z	Z		
CHLMDLV		60	SS1115424C	1.0	MS1112524C	0.5	10	Z	Z		
LCSA	LCS27193	60	SS1115424C	1.0	MS1116124B	1.0	10	Z	Z		
LCSCHL	LCS27193	60	SS1115424C	1.0	MS1119324I	1.0	10	Z	Z		
LCSDA	LCSD27193	60	SS1115424C	1.0	MS1116124B	1.0	10	Z	Z		
LCSMIR	LCS27193	60	SS1115424C	1.0	MS1119324H	1.0	10	Z	Z		
LCSTOX	LCS27193	60	SS1115424C	1.0	MS1119324J	1.0	10	Z	Z		
MDLV		60	SS1115424C	1.0	MS1119324E	1.0	10	Z	Z		
MIRMDLV		60	SS1115424C	1.0	MS1119324G	1.0	10	Z	Z		
RLCHL	LCS27193	60	SS1115424C	1.0	MS1119324I	0.5	10	Z	Z		
RLMIR	LCS27193	60	SS1115424C	1.0	MS1119324H	0.5	10	Z	Z		
RLTOX	LCS27193	60	SS1115424C	1.0	MS1119324J	0.2	10	Z	Z		
TOXMDLV		60	SS1115424C	1.0	MS1119324F	1.0	10	Z	Z		

Solvent Used	Lot No.
1:1 Hexane/Acetone	82 10713114
Filter Paper	51670
Hexane	112592
Sodium Sulfate	11193A

Spike Solutions: Witness: D.H 1429

MS1112524C	CHLORDANE MDL SPIKE
MS1119324G	MIREX MDLV SPIKE
MS1119324I	SSFL CHLORDANE SPIKE
MS1119324H	SSFL MIREX SPIKE
MS1119324E	SSFL SW846 MDL SPIKE
MS1116124B	SSFL SW846 SPIKE
MS1119324J	SSFL TOXAPHENE SPIKE
MS1119324F	TOXAPHENE MDLV SPIKE
SS1115424C	SSFL SW846 SURROGATE STAI

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
5 6337203	WR01S	60	SS1115424C	1.0	10	Z	Z	21A	brown soil	01363	07/20/2011	S
6 6337205	WR03S	60	SS1115424C	1.0	10	Z	Z	21A		01363	07/20/2011	S
7 6337207	WR05S	60.4	SS1115424C	1.0	10	Z	Z	21A		01363	07/20/2011	S
8 6337209	WR07S	60.4	SS1115424C	1.0	10	Z	Z	21A		01363	07/20/2011	S
9 6337212	WR11S	60.1	SS1115424C	1.0	10	Z	Z	21A		01363	07/20/2011	S

Rack ID:		Work Station	Hood 5
Internal Standard		Balance #	5311

S-bath ID	97 C	S-bath ID	C	N-Evap	C	M-vap	C	111930027A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

	Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
10	6338249	WR09S	60.4	SS1115424C	1.0	10	Z	Z	21A	Brown soil	01363	07/21/2011	S
11	6338250	WR13S	60.5	SS1115424C	1.0	10	Z	Z	21A		01363	07/21/2011	S
12	6338252	WR29S	60.2	SS1115424C	1.0	10	Z	Z	21A		01363	07/21/2011	S
13	6338261	WR88S	60.1	SS1115424C	1.0	10	Z	Z	21A		01363	07/21/2011	S
14	6338263	WR90S	60.2	SS1115424C	1.0	10	Z	Z	21A		01363	07/21/2011	S
15	6338264	WR90D	60	SS1115424C	1.0	10	Z	Z	21A		01363	07/21/2011	S
16	6339368	15S05	60	SS1115424C	1.0	10	Z	Z	21A		01363	07/22/2011	S
17	6339370	17S05	60.1	SS1115424C	1.0	10	Z	Z	21A		01363	07/22/2011	S
18	6339372	19S05	60.3	SS1115424C	1.0	10	Z	Z	21A		01363	07/22/2011	S
19	6339374	21S05	60.1	SS1115424C	1.0	10	Z	Z	21A		01363	07/22/2011	S
20	6339375	74S05	60.5	SS1115424C	1.0	10	Z	Z	21A		01363	07/22/2011	S
21	6339377BKG	82S05	60.2	SS1115424C	1.0	10	Z	Z	21A		01363	07/22/2011	S
22	6339384	82S05	~~60.2~~ 60.2	SS1115424C	1.0	10	Z	Z	—	RL LCS + 0.5 ml MS 111621A	01363	07/22/2011	S
23	6339386	87S05	60.2	SS1115424C	1.0	10	Z	Z	21A	Brown soil	01363	07/22/2011	S

7/13/11

Rack ID:		Work Station	
Internal Standard		Balance #	

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	111930027A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Prep-Process Worksheet

GPC
Prep: 11134 Pesticide Screen Soils Ext
Batch: 111930027A

Verified: DL 7/14/11
Start Date: 7-13-11
Start Time: 16:00
Tech 1: ES TZ
Tech 2: _____

Sample #	Vol. (mL) on	Final Conc Volume (ml)	Column ID		D.F. Aliq	D.F. F.V.	Comments	Analyses
1 6337203	5	2	(1)	2				01363
2 6337205	5	2	(1)	2				01363
3 6337207	5	2	(1)	2				01363
4 6337209	5	2	(1)	2				01363
5 6337212	5	2	(1)	2				01363
6 6338249	5	2	(1)	2				01363
7 6338250	5	2	(1)	2				01363
8 6338252	5	2	(1)	2				01363
9 6338261	5	2	(1)	2				01363
10 6338263	5	2	(1)	2				01363
11 6338264	5	2	(1)	2				01363
12 6339368	5	2	(1)	2				01363
13 6339370	5	2	(1)	2				01363
14 6339372	5	2	(1)	2				01363
15 6339374	5	2	(1)	2				01363
16 6339375	5	2	(1)	2				01363
17 6339377	5	2	(1)	2				01363
18 6339378 MS	5	2	(1)	2				01363

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		MeCl2	112968
		MeCl2	112973

S-Evap/bath	C	S-Evap/bath	C	N-Evap	C

Instrument #: J2-1
Column ID #1: 6T
Column ID #2: _____

The documented temperatures are NIST corrected.

USF03 2873

Prep-Process Worksheet

GPC
Prep: 11134 Pesticide Screen Soils Ext
Batch: 111930027A

Verified: [illegible]
Start Date: 7-13-11
Start Time: 16:00
Tech 1: [illegible]
Tech 2:

	Sample #	Vol. (mL) on	Final Conc Volume (ml)	Column ID		D.F. Aliq	D.F. F.V.	Comments	Analyses
19	6339379 MSD	5	2	(1)	2				01363
20	6339384	5	2	(1)	2				01363
21	6339386	5	2	(1)	2				01363
22	BLANKA	5	2	(1)	2				
23	CHLMDL	5	2	(1)	2				
24	LCSA	5	2	(1)	2				
25	LCSCHL	5	2	(1)	2				
26	LCSDA	5	2	(1)	2				
27	LCSMIR	5	2	(1)	2				
28	LCSTOX	5	2	(1)	2				
29	MDLV	5	2	(1)	2				
30	MIRMDL	5	2	(1)	2				
31	RLCHL	5	2	(1)	2				
32	RLMIR	5	2	(1)	2				
33	RLTOX	5	2	(1)	2				
34	TOXMDL	5	2	(1)	2				

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
~~Hexane/Acetone~~ DCM/MeOH	7-16-11	MeCl2	112968
~~Hexane~~	7-16-11	MeCl2	112973

S-Evap/bath	C	S-Evap/bath	C	N-Evap	C

Instrument #: J2-1
Column ID #1: 6T
Column ID #2: _____

The documented temperatures are NIST corrected.

USF83 2274

Prep-Process Worksheet

Florisil
Prep: 11134 Pesticide Screen Soils Ext
Batch: 111930027A

Verified: DH 7/16/11
Start Date: 7/16/11
Start Time: 10:00
Tech 1: DH 144
Tech 2:

	Sample #	QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	6337203		2	2				01363
2	6337205		2	2				01363
3	6337207		2	2				01363
4	6337209		2	2				01363
5	6337212		2	2				01363
6	6338249		2	2				01363
7	6338250		2	2				01363
8	6338252		2	2				01363
9	6338261		2	2				01363
10	6338263		2	2				01363
11	6338264		2	2				01363
12	6339368		2	2				01363
13	6339370		2	2				01363
14	6339372		2	2				01363
15	6339374		2	2				01363
16	6339375		2	2				01363
17	6339377		2	2				01363
18	6339378	MS	2	2				01363
19	6339379	MSD	2	2				01363
20	6339384		2	2				01363
21	6339386		2	2				01363
22	BLANKA		2	2				
23	CHLMDLV		2	2				
24	LCSA		2	2				
25	LCSCHL		2	2				
26	LCSDA		2	2				
27	LCSMIR		2	2				
28	LCSTOX		2	2				
29	MDLV		2	2				
30	MIRMDLV		2	2				
31	RLCHL		2	2				
32	RLMIR		2	2				
33	RLTOX		2	2				
34	TOXMDLV		2	2				

DH 7/16/11

Additional Comment: _____ DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
Florisil	805024-DR		
1:1 Acetone/Hex	110607101IA		

S-Evap/bath	C	S-Evap/bath	C	N-Evap	VV	C

USF83 2875

The documented temperatures are NIST corrected.

Alcohol by GC Data

Case Narrative
Conformance/Nonconformance Summary

USF63 2977

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

EPH/Miscellaneous GC

Fraction: Alcohol by GC

Alcohols in Soil
Alcohols by 8015B

Sample #	Client ID	Matrix Liquid	Matrix Solid	Comments
6339376	WRBS0074S045		X	
6339385	WRBS0082S040		X	
6339387	WRBS0087S040		X	
6339388	EBQW00003	X		Equipment Blank
6339390	TBQW00004	X		Trip Blank

See QC Reference List for Associated Batch QC Samples

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples.

ANALYSIS:

There were no dilutions performed for analyses associated with samples in this SDG.

No problems were encountered with the analysis of the samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

Site specific matrix QC samples were not submitted for this SDG. The batch matrix QC was performed on samples from another project. Therefore the matrix effects would not be relevant and matrix QC is not provided in the data package. Laboratory spike data (LCS) are provided.

All QC is within specification.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value

USF03 2079

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

EPH/Miscellaneous GC

Fraction: Alcohol by GC

D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 8-25-11 by
(Date)

Audrey K. McClune
Specialist

USF03 2879

Example Calculation: External Standard

- **Calibration Factors (CF)**

  Average Calibration Factor = the average of the CFs for each level in a calibration.

$$CF = \frac{\text{Peak Height of Analyte}}{\text{Concentration of Analyte in Standard (ug/L)}}$$

$$\text{Average CF} = \frac{\text{CF Calib1} + \text{CF Calib2} + \text{CF Calib3} + \text{CF Calib4} + \text{CFCalib5}}{5}$$

- **Determining the Analyte Concentration in Extracts**

  Extract Conc.(ug/L) = Peak Height of sample / CF(or Avg CF)

- **Analyte Concentration in Samples - referred to as the "as received" concentration**

Insert Extract concentrations, as calculated using equations above, into the appropriate equations below:

Soils:

$$\text{ug/L in Extract} \times \frac{\text{Final Volume (ml)}}{\text{Initial Weight (g)}} \times DF \times AF = \text{ug/kg in sample}$$

Waters:

$$\text{ug/L in Extract} \times \frac{\text{Final Volume (ml)}}{\text{Initial Volume (ml)}} \times DF = \text{ug/l in sample}$$

Where: **DF** = Dilution Factor **AF** = Additional Prep Factors

Example Calculation: Internal Standard

- **Calibration Factors (CF)**

  Average Calibration Factor = the average of the CFs for each level in a calibration.

$$CF = \frac{\text{Standard Peak Height of Analyte / Internal Peak Height}}{\text{Standard Conc of Analyte (ug/L) / Conc of Internal Standard}}$$

$$\text{Average CF} = \frac{\text{CF Calib 1} + \text{CF Calib 2} + \text{CF Calib 3} + \text{CF Calib 4} + \text{CF Calib 5}}{5}$$

- **Determining the Analyte Concentration in Extracts**

$$\text{Extract Conc.(ug/L)} = \frac{\text{Peak Height in sample}}{\text{Internal Std Pk Ht in sample}} / \text{CF(or Avg CF)}$$

USF93 2685

- **Analyte Concentration in Samples - referred to as the "as received" concentration**

Insert the following as needed per matrix:

Insert Extract concentrations, as calculated using equations above, into the appropriate equations below:

Soils:

$$\text{ug/L in Extract} \times \frac{\text{Final Volume (ml)}}{\text{Initial Weight (g)}} \times \text{DF X AF} = \text{ug/kg in sample}$$

Waters:

$$\text{ug/L in Extract} \times \frac{\text{Final Volume (ml)}}{\text{Initial Volume (ml)}} \times \text{DF} = \text{ug/l in sample}$$

Where: **DF** = Dilution Factor **AF** = Additional Prep Factors

Quality Control and Calibration Summary Forms

USF03 2082

Lancaster Laboratories

Quality Control Reference List
EPH/Miscellaneous GC

CLIENT: URS Corporation
SDG: USF03

Fraction: Alcohol by GC

Analysis	Batch Number	Sample Number	Analysis Date
Alcohols by 8015B	111900018A	PBLK18190	07/14/2011 04:16:00
		LCS18190	07/14/2011 04:31:00
		LCSD18190	07/14/2011 04:46:00
		6339388	07/14/2011 06:15:00
		6339390	07/14/2011 06:45:00
Alcohols in Soil	111940030A	PBLK30194	07/15/2011 00:24:00
		LCS30194	07/15/2011 00:39:00
		LCSD30194	07/15/2011 00:54:00
		6339376	07/15/2011 01:08:00
		6339385	07/15/2011 01:23:00
		6339387	07/15/2011 01:38:00

USF03 2893

Lancaster Laboratories

Quality Control Summary
Method Blank
EPH/Miscellaneous GC
SDG: USF03
Matrix: SOLID

Fraction: Alcohol by GC

111940030 / PBLK30194 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Methanol (by Direct Injection)	07/15/11	N.D.	ug/kg	100	500
Ethanol (by Direct Injection)	07/15/11	N.D.	ug/kg	100	500

USF03 2884

Lancaster Laboratories

Quality Control Summary
Method Blank
EPH/Miscellaneous GC
SDG: USF03
Matrix: LIQUID

Fraction: Alcohol by GC

111900018 / PBLK18190 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Methanol	07/14/11	N.D.	ug/l	200	1000
Ethanol	07/14/11	N.D.	ug/l	200	1000

Lancaster Laboratories

Quality Control Summary
Surrogates
EPH/Miscellaneous GC
SDG: USF03
Matrix: SOLID

Fraction: Alcohol by GC

111940030A	Acetone	
	Spike Added	2500 ug/kg
Sample	% Recovery	Limits
6339376	94	42 - 138
6339385	88	42 - 138
6339387	97	42 - 138
LCS30194	98	42 - 138
LCSD30194	97	42 - 138
PBLK30194	91	42 - 138

USF03 2806

Lancaster Laboratories

Quality Control Summary
Surrogates
EPH/Miscellaneous GC
SDG: USF03
Matrix: LIQUID

Fraction: Alcohol by GC

111900018A	Acetone	
	Spike Added	2500 ug/l
Sample	% Recovery	Limits
6339388	104	54 - 147
6339390	102	54 - 147
LCS18190	103	54 - 147
LCSD18190	107	54 - 147
PBLK18190	103	54 - 147

USF03 2687

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: SOLID

EPH/Miscellaneous GC

Fraction: Alcohol by GC

LCS: LCS30194 LCSD: LCSD30194 **Analyte**	Batch: **111940030A** (Sample number(s): 6339376, 6339385, 6339387)							
	Spike Added ug/kg	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Methanol (by Direct Injection)	2500	2367.62	2270.12	95	91	68-129	4	20
Ethanol (by Direct Injection)	2500	2520.27	2401.63	101	96	71-129	5	20

USF03 2888

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: USF03
Matrix: LIQUID

EPH/Miscellaneous GC
Fraction: Alcohol by GC

LCS: LCS18190 LCSD: LCSD18190 Analyte	Batch: **111900018A** (Sample number(s): 6339388, 6339390)							
	Spike Added ug/l	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Methanol	2500	2500	2900	100	116	71-140	15	20
Ethanol	2500	2200	2100	88	84	66-132	5	20

USF03 2889

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739B Calibration File: 1M27187

GC Column (1) : SP-1000 ID: 2 (mm) Update File:

Date(s) Analyzed: 7/6/2011 7/6/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Methanol	.53	.54	.53	.53	.53	.53	.50	.56
ethanol	1.20	1.20	1.20	1.20	1.20	1.19	1.16	1.22
Acetone	2.07	2.07	2.07	2.07	2.07	2.07	2.01	2.14
ISOPROPANOL	2.42	2.42	2.42	2.42	2.42	2.41	2.34	2.48

USP83 2898

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739B Calibration File: 1M27187

GC Column (1) : SP-1000 ID: 2 (mm) Date(s) Analyzed: 7/6/2011 7/6/2011

COMPOUND	CALIBRATION FACTORS						
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	%RSD
Methanol	1.60E+00	1.40E+00	1.35E+00	1.33E+00	1.31E+00	1.40E+00	8.5
ethanol	1.27E+00	1.23E+00	1.22E+00	1.21E+00	1.20E+00	1.23E+00	2.3
Acetone	1.50E+00	1.39E+00	1.38E+00	1.34E+00	1.32E+00	1.38E+00	5.1
ISOPROPANOL	1.18E+00	1.15E+00	1.15E+00	1.14E+00	1.14E+00	1.15E+00	1.3

Average % RSD: 4.3

USF03 2891

File Name: Y:\CP27\1M27187.CAL
Version: 7

Creator:
Description:
Reason for change:

D2208 7/7/11

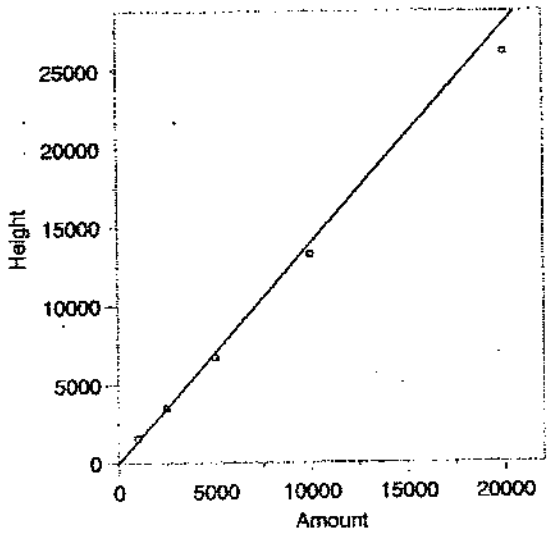
External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units:
No default component

✓ Delng 9-7-11

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 Methanol



Expected retention time (frozen): 0.53 minutes
Search window: 0.03 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

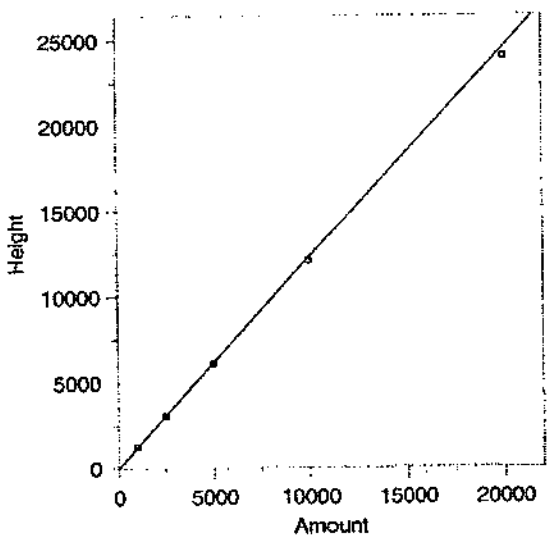
Single peak quantification by height

Y = 1.396677 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9904977
Average error: 5.959%
Average CF: 1.396677
RSD: 8.538%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	1600.803	1.600803	14.615	\\Uslan-chromperf\Active-data\CP27\1M27187B.0006.BND	7/6/2011 5:05:17 PM
2	2500	3501.525	1.40061	0.282	\\Uslan-chromperf\Active-data\CP27\1M27187B.0007.BND	7/6/2011 5:20:16 PM
3	5000	6734	1.3468	-3.571	Manual	7/6/2011 6:06:56 PM
4	10000	13275	1.3275	-4.953	Manual	7/6/2011 6:07:18 PM
5	20000	26153.41	1.30767	-6.373	\\Uslan-chromperf\Active-data\CP27\1M27187B.0010.BND	7/6/2011 6:05:05 PM

2 Ethanol



Expected retention time (frozen): 1.19 minutes
Search window: 0.03 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

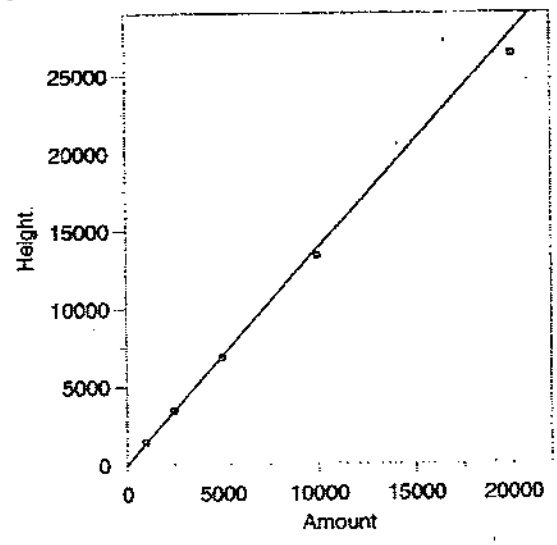
Single peak quantification by height

Y = 1.227309 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9991219
Average error: 1.605%
Average CF: 1.227309
RSD: 2.301%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	1274.302	1.274302	3.829	\\Uslan-chromperf\Active-data\CP27\1M27187B.0006.BND	7/6/2011 5:05:17 PM
2	2500	3073.906	1.229562	0.184	\\Uslan-chromperf\Active-data\CP27\1M27187B.0007.BND	7/6/2011 5:20:16 PM
3	5000	6098	1.2196	-0.628	Manual	7/6/2011 6:07:00 PM
4	10000	12117	1.2117	-1.272	Manual	7/6/2011 6:07:25 PM
5	20000	24027.57	1.201378	-2.113	\\Uslan-chromperf\Active-data\CP27\1M27187B.0010.BND	7/6/2011 6:05:05 PM

3 Acetone



Expected retention time (frozen): 2.07 minutes
Search window: 0.065 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

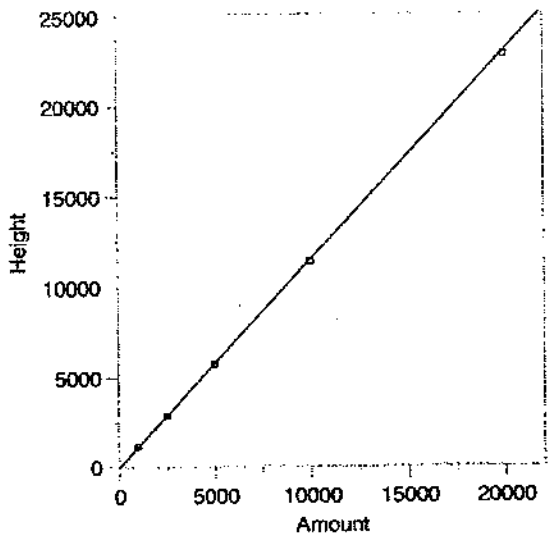
Single peak quantification by height

Y = 1.384599 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9949024
Average error: 3.553%
Average CF: 1.384599
RSD: 5.079%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	1498.097	1.498097	8.197	\\Uslan-chromperf\Active-data\CP27\1M27187B.0006.BND	7/6/2011 5:05:17 PM
2	2500	3485.259	1.394104	0.686	\\Uslan-chromperf\Active-data\CP27\1M27187B.0007.BND	7/6/2011 5:20:16 PM
3	5000	6879	1.3758	-0.635	Manual	7/6/2011 6:07:06 PM
4	10000	13378	1.3378	-3.380	Manual	7/6/2011 6:07:29 PM
5	20000	26343.89	1.317195	-4.868	\\Uslan-chromperf\Active-data\CP27\1M27187B.0010.BND	7/6/2011 6:05:05 PM

4 Isopropanol



Expected retention time (frozen):	2.41 minutes
Search window:	0.072 minutes
No retention time reference component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by height

$Y = 1.152485 X + 0$

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9998199
Average error:	0.914%
Average CF:	1.152485
RSD:	1.334%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	1178.833	1.178833	2.286	\\Uslan-chromperf\Active-data\CP27\1M27187B.0006.BND	7/6/2011 5:05:17 PM
2	2500	2874.186	1.149674	-0.244	\\Uslan-chromperf\Active-data\CP27\1M27187B.0007.BND	7/6/2011 5:20:16 PM
3	5000	5754	1.1508	-0.146	Manual	7/6/2011 6:07:10 PM
4	10000	11407	1.1407	-1.023	Manual	7/6/2011 6:07:32 PM
5	20000	22848.38	1.142419	-0.873	\\Uslan-chromperf\Active-data\CP27\1M27187B.0010.BND	7/6/2011 6:05:05 PM

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Calibration File: 1M27188A

GC Column (1) : RTX-200 ID: 0.53 (mm) Update File:

Date(s) Analyzed: 7/7/2011 7/7/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Methanol	.65	.65	.65	.65	.65	.65	.62	.68
ethanol	.81	.81	.81	.81	.81	.81	.78	.84
ISOPROPANOL	.96	.98	.97	.96	.98	.98	.91	1.05
Acetone	1.53	1.53	1.53	1.53	1.54	1.54	1.48	1.61

USF83 2895

FORM VI-1

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Calibration File: 1M27188A

GC Column (1) : RTX-200 ID: 0.53 (mm) Date(s) Analyzed: 7/7/2011 7/7/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Methanol	7.27E+00	7.39E+00	7.40E+00	7.11E+00	7.32E+00	7.30E+00	1.6
ethanol	3.58E+00	3.50E+00	3.50E+00	3.40E+00	3.35E+00	3.46E+00	2.6
ISOPROPANOL	2.96E+00	2.80E+00	2.80E+00	2.75E+00	2.78E+00	2.82E+00	2.9
Acetone	3.03E+00	2.86E+00	2.85E+00	2.77E+00	2.78E+00	2.86E+00	3.7

Average % RSD: 2.7

USF03 2896

FORM VI-2

File Name: Y:\CP27\1m27188a.CAL
Version: 8

Creator:
Description:
Reason for change:

Level data 1M27188A.0012.BND through .0016.BND

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units:
No default component

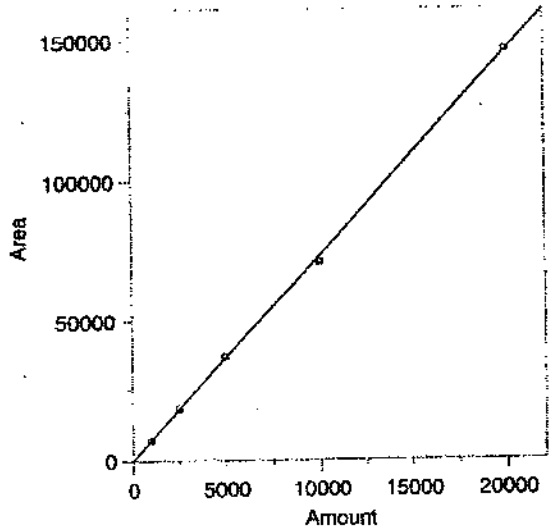
MDL : 1M27188A.0018.raw
ICV : 1M27188A.0019.bnd

Method of calculating data point averages: Equal weight for all updates
No calibration update report

Dr 7/8/11 DA 7/8/11 7-13-11

All levels are normal data points.

1 Methanol



Expected retention time (frozen): 0.65 minutes
Search window: 0.03 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

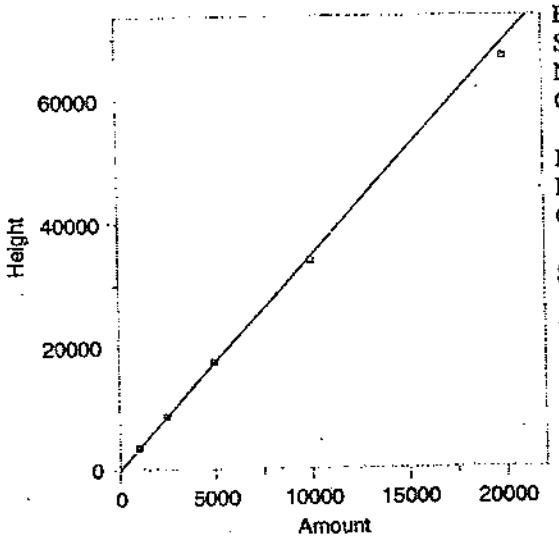
Y = 7.29781 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9996597
Average error: 1.184%
Average CF: 7.29781
RSD: 1.623%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	7274	7.274	-0.326	Manual	7/8/2011 2:55:52 PM
2	2500	18473	7.3892	1.252	Manual	7/8/2011 2:55:58 PM
3	5000	36978	7.3956	1.340	Manual	7/8/2011 2:56:08 PM
4	10000	71056	7.1056	-2.634	Manual	7/8/2011 2:56:20 PM
5	20000	146493	7.32465	0.368	Manual	7/8/2011 2:50:27 PM

2 Ethanol

USFDA 3897



Expected retention time (frozen): 0.81 minutes
Search window: 0.03 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

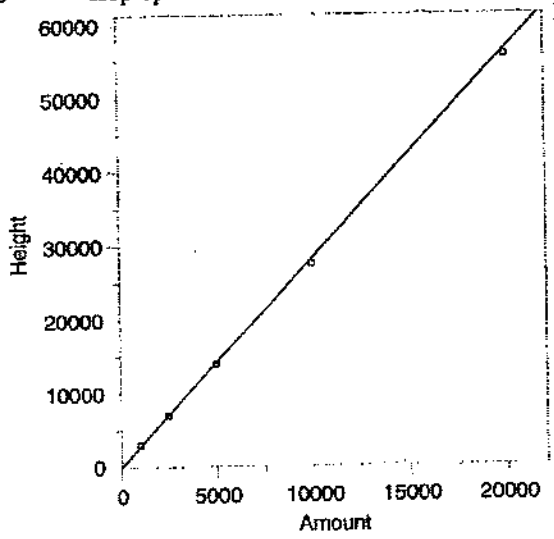
Single peak quantification by height

Y = 3.46354 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9977037
Average error: 2.069%
Average CF: 3.46354
RSD: 2.604%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	3576	3.576	3.247	Manual	7/8/2011 2:49:18 PM
2	2500	8740	3.496	0.937	Manual	7/8/2011 2:49:36 PM
3	5000	17489	3.4978	0.989	Manual	7/8/2011 2:49:53 PM
4	10000	34024	3.4024	-1.765	Manual	7/8/2011 2:50:10 PM
5	20000	66910	3.3455	-3.408	Manual	7/8/2011 2:50:31 PM

3 Isopropanol



Expected retention time (frozen): 0.98 minutes
Search window: 0.072 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

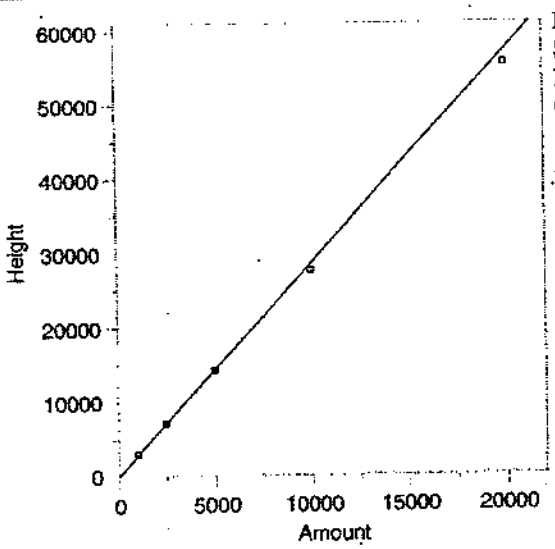
Single peak quantification by height

Y = 2.81788 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9994569
Average error: 2.017%
Average CF: 2.81788
RSD: 2.903%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	2960	2.96	5.044	Manual	7/8/2011 2:49:20 PM
2	2500	6992	2.7968	-0.748	Manual	7/8/2011 2:49:38 PM
3	5000	13998	2.7996	-0.649	Manual	7/8/2011 2:49:56 PM
4	10000	27504	2.7504	-2.395	Manual	7/8/2011 2:50:13 PM
5	20000	55652	2.7826	-1.252	Manual	7/8/2011 2:50:33 PM

4 Acetone



Expected retention time (frozen): 1.54 minutes
Search window: 0.065 minutes
No retention time reference component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by height

$Y = 2.85615 X + 0$

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.998076
Average error: 2.491%
Average CF: 2.85615
RSD: 3.663%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	3027	3.027	5.982	Manual	7/8/2011 2:49:22 PM
2	2500	7158	2.8632	0.247	Manual	7/8/2011 2:49:40 PM
3	5000	14241	2.8482	-0.278	Manual	7/8/2011 2:49:58 PM
4	10000	27673	2.7673	-3.111	Manual	7/8/2011 2:50:17 PM
5	20000	55501	2.77505	-2.839	\\Uslan-chromperf\Active-data\CP27\1m27188a.0016.BND	7/7/2011 10:17:07 PM

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H2739A Calibration File: 1M27194A
GC Column (1) : RTX-200 ID: 0.53 (mm) Update File:
Date(s) Analyzed: 7/13/2011 7/13/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Methanol	.65	.65	.66	.66	.66	.65	.62	.68
ethanol	.82	.82	.82	.82	.82	.81	.78	.84
ISOPROPANOL	.99	.98	.99	.98	.98	.98	.91	1.05
Acetone	1.53	1.53	1.53	1.53	1.53	1.54	1.48	1.61

USF03: 2188

FORM VI-1

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Calibration File: 1M27194A

GC Column (1) : RTX-200 ID: 0.53 (mm) Date(s) Analyzed: 7/13/2011 7/13/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Methanol	8.54E+00	8.42E+00	8.35E+00	8.52E+00	8.24E+00	8.41E+00	1.5
ethanol	1.06E+01	1.00E+01	9.90E+00	9.90E+00	9.69E+00	1.00E+01	3.7
ISOPROPANOL	1.09E+01	9.84E+00	1.04E+01	1.04E+01	1.05E+01	1.04E+01	3.5
Acetone	9.45E+00	8.95E+00	8.94E+00	8.81E+00	8.66E+00	8.96E+00	3.3

Average % RSD: 3

USF03 2161

FORM VI-2

File Name: Y:\CP27\1m27194a.CAL
Version: 8

Creator:
Description:
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units:
No default component

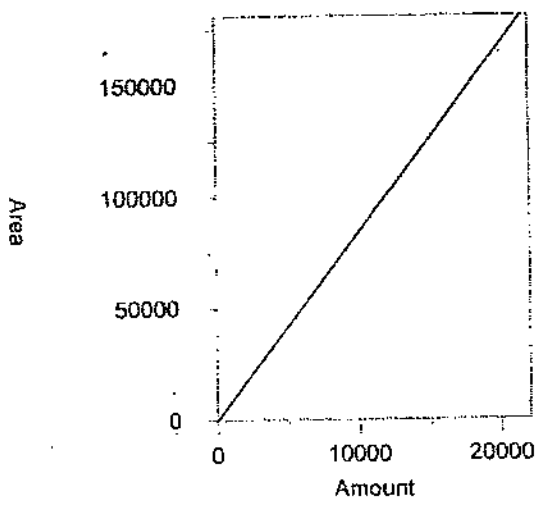
EM 7/13 7/14/11

✓ DA 7/19 7-15-11

Method of calculating data point averages: Current update equal to cal data
No calibration update report

All levels are normal data points.

1 Methanol



Expected retention time (frozen): 0.65 minutes
Search window: 0.03 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

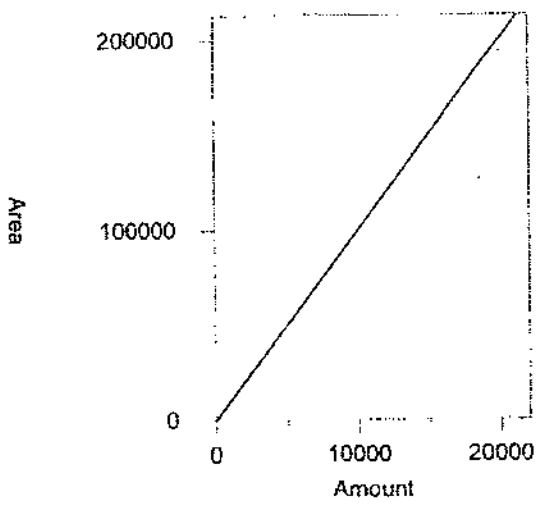
$Y = 8.41381\ X + 0$

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.999149
Average error: 1.128%
Average CF: 8.41381
RSD: 1.471%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	8538	8.538	1.476	Manual	7/13/2011 9:01:56 PM
2	2500	21054	8.4216	0.093	Manual	7/13/2011 9:02:22 PM
3	5000	41764	8.3528	-0.725	Manual	7/13/2011 9:02:41 PM
4	10000	85190	8.519	1.250	Manual	7/13/2011 9:03:01 PM
5	20000	164753	8.23765	-2.094	Manual	7/13/2011 9:03:16 PM

2 Ethanol

USP83 2182



Expected retention time (frozen): 0.81 minutes
Search window: 0.03 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

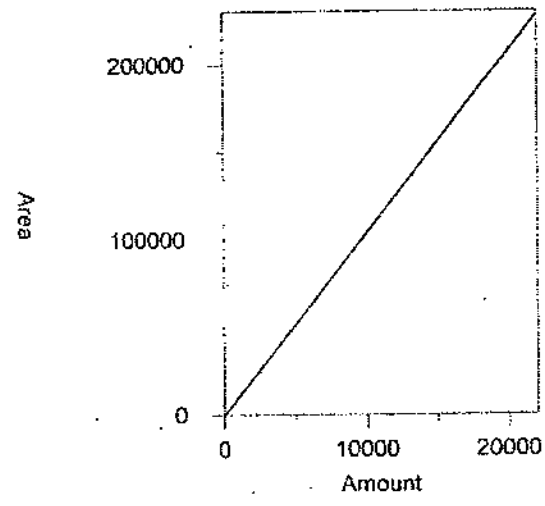
Single peak quantification by area

Y = 10.02668 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9977729
Average error: 2.483%
Average CF: 10.02668
RSD: 3.656%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	10649	10.649	6.207	Manual	7/13/2011 9:02:01 PM
2	2500	25012	10.0048	-0.218	Manual	7/13/2011 9:02:25 PM
3	5000	49479	9.8958	-1.305	Manual	7/13/2011 9:02:45 PM
4	10000	98978	9.8978	-1.285	Manual	7/13/2011 9:03:04 PM
5	20000	193720	9.686	-3.398	Manual	7/13/2011 9:03:19 PM

3 Isopropanol



Expected retention time (frozen): 0.98 minutes
Search window: 0.072 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

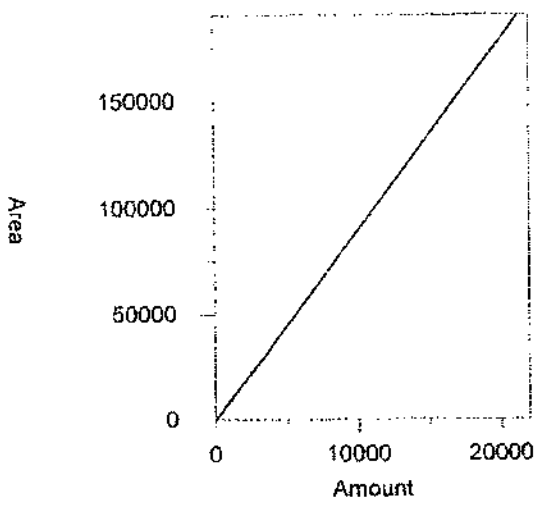
Y = 10.392 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.999812
Average error: 2.159%
Average CF: 10.392
RSD: 3.523%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	10862	10.862	4.523	Manual	7/13/2011 9:02:07 PM
2	2500	24592	9.8368	-5.343	Manual	7/13/2011 9:02:29 PM
3	5000	51932	10.3864	-0.054	Manual	7/13/2011 9:02:48 PM
4	10000	104002	10.4002	0.079	Manual	7/13/2011 9:03:11 PM
5	20000	209492	10.4746	0.795	\\Uslan-chromperf\Active-data\CP27\1M27194a.0008.BND	7/13/2011 8:54:00 PM

4 Acetone

USP83 2103



Expected retention time (frozen):	1.54 minutes
Search window:	0.065 minutes
No retention time reference component	
No response proxy component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by area

Y = 8.96157 X + 0

Average CF fit with equal weighting,	forced to origin
Coefficient of determination:	0.9977248
Average error:	2.176%
Average CF:	8.96157
RSD:	3.319%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	1000	9449	9.449	5.439	Manual	7/14/2011 2:41:24 PM
2	2500	22380	8.952	-0.107	Manual	7/14/2011 2:41:32 PM
3	5000	44695	8.939	-0.252	Manual	7/14/2011 2:41:44 PM
4	10000	88118	8.8118	-1.671	Manual	7/14/2011 2:41:54 PM
5	20000	173121	8.65605	-3.409	\\Ustan-chromperf\Active-data\CP27\1M27194a.0008.BND	7/13/2011 8:54:00 PM

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739B Init. Calib Date(s): 07/06/11 07/06/11

GC Column (1) : SP-1000 ID: 2 (mm) Date Analyzed: 07/06/11

Lab File ID: 1M27187B.0012.RAW Time Analyzed: 18:31

Lab Standard ID: LLMXXDJ Initial Calibration: 1M27187

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.54	0.50	0.56	4784.23	5000.00	-4.3
ethanol	1.21	1.16	1.22	5098.52	5000.00	2.0
Acetone	2.08	2.01	2.14	4841.33	5000.00	-3.2
ISOPROPANOL	2.43	2.34	2.48	5134.59	5000.00	2.7
					Average of %D:	3.1

USP03 2165

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Init. Calib Date(s): 07/07/11 07/07/11

GC Column (1) : RTX-200 ID: .53 (mm) Date Analyzed: 07/07/11

Lab File ID: 1M27188A.0019.RAW Time Analyzed: 22:57

Lab Standard ID: LLMXXDK Initial Calibration: 1M27188A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.65	0.62	0.68	4755.76	5000.00	-4.9
ethanol	0.81	0.78	0.84	4406.38	5000.00	-11.9
ISOPROPANOL	0.98	0.91	1.05	4599.78	5000.00	-8.0
Acetone	1.54	1.48	1.61	4593.68	5000.00	-8.1
					Average of %D:	8.2

USF03 2186

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739B Init. Calib Date(s): 07/06/11 07/06/11

GC Column (1) : SP-1000 ID: 2 (mm) Date Analyzed: 07/09/11

Lab File ID: 3M27187B.0051.RAW Time Analyzed: 18:32

Lab Standard ID: LLME4CS Initial Calibration: 1M27187

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.54	0.50	0.56	8798.48	10000.00	-12.0
ethanol	1.21	1.16	1.22	9531.86	10000.00	-4.7
Acetone	2.08	2.01	2.14	9628.66	10000.00	-3.7
ISOPROPANOL	2.43	2.34	2.48	9682.65	10000.00	-3.2
					Average of %D:	5.9

USF03 2187

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739B Init. Calib Date(s): 07/06/11 07/06/11

GC Column (1) : SP-1000 ID: 2 (mm) Date Analyzed: 07/09/11

Lab File ID: 3M27187B.0071.RAW Time Analyzed: 23:29

Lab Standard ID: LLME4CT Initial Calibration: 1M27187

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.53	0.50	0.56	9112.38	10000.00	-8.9
ethanol	1.20	1.16	1.22	9624.98	10000.00	-3.8
Acetone	2.07	2.01	2.14	9502.41	10000.00	-5.0
ISOPROPANOL	2.42	2.34	2.48	9688.94	10000.00	-3.1
					Average of %D:	5.2

USF03 2188

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A

Init. Calib Date(s): 07/07/11 07/07/11

GC Column (1) : RTX-200 ID: .53 (mm)

Date Analyzed: 07/11/11

Lab File ID: 2M27188A.0004.RAW

Time Analyzed: 18:01

Lab Standard ID: LLME3WO

Initial Calibration: 1M27188A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.66	0.62	0.68	5261.05	5000.00	5.2
ethanol	0.82	0.78	0.84	4288.43	5000.00	-14.2
ISOPROPANOL	0.98	0.91	1.05	4912.79	5000.00	-1.7
Acetone	1.54	1.48	1.61	4734.74	5000.00	-5.3
					Average of %D:	6.6

USP83 2189

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Init. Calib Date(s): 07/07/11 07/07/11

GC Column (1) : RTX-200 ID: .53 (mm) Date Analyzed: 07/11/11

Lab File ID: 2M27188A.0023.RAW Time Analyzed: 22:47

Lab Standard ID: LLME3WP Initial Calibration: 1M27188A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.65	0.62	0.68	5488.91	5000.00	9.8
ethanol	0.81	0.78	0.84	5535.76	5000.00	10.7
ISOPROPANOL	0.98	0.91	1.05	5256.42	5000.00	5.1
Acetone	1.54	1.48	1.61	5070.77	5000.00	1.4
					Average of %D:	6.8

USF03 2118

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Init. Calib Date(s): 07/07/11 07/07/11

GC Column (1) : RTX-200 ID: .53 (mm) Date Analyzed: 07/13/11

Lab File ID: 1C27193.0017.RAW Time Analyzed: 1:04

Lab Standard ID: LLME3WS Initial Calibration: 1M27188A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.66	0.62	0.68	4760.75	5000.00	-4.8
ethanol	0.83	0.78	0.84	2278.00	5000.00	-54.4
ISOPROPANOL	0.99	0.91	1.05	2996.94	5000.00	-40.1
Acetone	1.54	1.48	1.61	4246.86	5000.00	-15.1
					Average of %D:	28.6

U3F83 2111

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Init. Calib Date(s): 07/07/11 07/07/11

GC Column (1) : RTX-200 ID: .53 (mm) Date Analyzed: 07/13/11

Lab File ID: 1C27193.0042.RAW Time Analyzed: 7:15

Lab Standard ID: LLME3WT Initial Calibration: 1M27188A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.67	0.62	0.68	7202.50	5000.00	44.0
ethanol	0.83	0.78	0.84	2714.82	5000.00	-45.7
ISOPROPANOL	0.99	0.91	1.05	3353.71	5000.00	-32.9
Acetone	1.54	1.48	1.61	4498.02	5000.00	-10.0
					Average of %D:	33.2

USF03 2112

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Init. Calib Date(s): 07/13/11 07/13/11

GC Column (1) : RTX-200 ID: .53 (mm) Date Analyzed: 07/13/11

Lab File ID: 1M27194A.0011.RAW Time Analyzed: 21:34

Lab Standard ID: LLMXXDL Initial Calibration: 1M27194A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.66	0.62	0.68	4929.85	5000.00	-1.4
ethanol	0.83	0.78	0.84	4762.11	5000.00	-4.8
ISOPROPANOL	0.99	0.91	1.05	5056.19	5000.00	1.1
Acetone	1.53	1.48	1.61	4911.83	5000.00	-1.8
					Average of %D:	2.3

USP83 2213

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Init. Calib Date(s): 07/13/11 07/13/11

GC Column (1) : RTX-200 ID: .53 (mm) Date Analyzed: 07/14/11

Lab File ID: 1M27194A.0036.RAW Time Analyzed: 3:47

Lab Standard ID: LLME4CU Initial Calibration: 1M27194A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.69	0.62	0.68	11456.07	10000.00	14.6
ethanol	0.85	0.78	0.84	9788.77	10000.00	-2.1
ISOPROPANOL	1.00	0.91	1.05	9097.99	10000.00	-9.0
Acetone	1.53	1.48	1.61	9802.56	10000.00	-2.0
					Average of %D:	6.9

USP83 2114

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739A Init. Calib Date(s): 07/13/11 07/13/11

GC Column (1) : RTX-200 ID: .53 (mm) Date Analyzed: 07/14/11

Lab File ID: 1M27194A.0049.RAW Time Analyzed: 7:00

Lab Standard ID: LLME4CV Initial Calibration: 1M27194A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.69	0.62	0.68	12050.86	10000.00	20.5
ethanol	0.86	0.78	0.84	10005.95	10000.00	0.1
ISOPROPANOL	1.01	0.91	1.05	8725.58	10000.00	-12.7
Acetone	1.53	1.48	1.61	9771.59	10000.00	-2.3
					Average of %D:	8.9

USF03 2115

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739B Init. Calib Date(s): 07/06/11 07/06/11

GC Column (1) : SP-1000 ID: 2 (mm) Date Analyzed: 07/14/11

Lab File ID: 5M27187B.0027.RAW Time Analyzed: 23:54

Lab Standard ID: LLME3WW Initial Calibration: 1M27187

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.54	0.50	0.56	4988.02	5000.00	-0.2
ethanol	1.21	1.16	1.22	5291.73	5000.00	5.8
Acetone	2.08	2.01	2.14	4874.46	5000.00	-2.5
ISOPROPANOL	2.43	2.34	2.48	5338.19	5000.00	6.8
					Average of %D:	3.8

USP63 2116

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739B Init. Calib Date(s): 07/06/11 07/06/11

GC Column (1) : SP-1000 ID: 2 (mm) Date Analyzed: 07/15/11

Lab File ID: 5M27187B.0051.RAW Time Analyzed: 5:51

Lab Standard ID: LLME3WX Initial Calibration: 1M27187

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.53	0.50	0.56	5081.82	5000.00	1.6
ethanol	1.20	1.16	1.22	5277.81	5000.00	5.6
Acetone	2.07	2.01	2.14	4923.31	5000.00	-1.5
ISOPROPANOL	2.42	2.34	2.48	5243.13	5000.00	4.9
					Average of %D:	3.4

USP63 2117

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: H2739B Init. Calib Date(s): 07/06/11 07/06/11

GC Column (1) : SP-1000 ID: 2 (mm) Date Analyzed: 07/15/11

Lab File ID: 5M27187B.0060.RAW Time Analyzed: 8:04

Lab Standard ID: LLME3WX Initial Calibration: 1M27187

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Methanol	0.54	0.50	0.56	5041.17	5000.00	0.8
ethanol	1.21	1.16	1.22	5262.44	5000.00	5.2
Acetone	2.08	2.01	2.14	4860.04	5000.00	-2.8
ISOPROPANOL	2.42	2.34	2.48	5261.83	5000.00	5.2
					Average of %D:	3.5

USF83 2119

8D
ANALYTICAL SEQUENCE

Sequence: 1M27187B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SP-1000 ID: 2

Instrument: H2739B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
001		CONDITIONER	07/06/2011	15:46:06	3M27187	
002	AA	DI H2O	07/06/2011	16:00:55	1M27187	
003	AA	DI H2O	07/06/2011	16:15:46	1M27187	
004	AA	DI H2O	07/06/2011	16:31:23	1M27187	2.08
005	AA	DI H2O	07/06/2011	16:46:19	1M27187	2.07
006	LLME1AA	LLME11132K	07/06/2011	17:01:15	1M27187	2.07
007	LLME2AA	LLME21132P	07/06/2011	17:16:12	1M27187	2.07
008	LLME3AA	LLME31132X	07/06/2011	17:31:10	1M27187	2.07
009	LLME4AA	LLME41132R	07/06/2011	17:46:07	1M27187	2.07
010	LLME5AA	LLME51132K	07/06/2011	18:01:04	1M27187	2.07
011	AA	DI H2O	07/06/2011	18:16:05	1M27187	2.07
012	LLMXXDJ	LLMXX1132H	07/06/2011	18:31:05	1M27187	2.08
013	LLMDXEH	LLMDX1132L	07/06/2011	18:46:03	1M27187	2.08
014	AA	DI H2O	07/06/2011	19:01:08	1M27187	2.08
015	PBLK11182	BLANKA	07/06/2011	19:16:06	1M27187	2.08
016	LCS11182	LCSA	07/06/2011	19:31:06	1M27187	2.08
017	13240	6331381	07/06/2011	19:46:00	1M27187	2.07
018	14140	6331382	07/06/2011	20:01:00	1M27187	2.08
019	E9211	6333530	07/06/2011	20:15:57	1M27187	2.07
020	E9211MS	6333530	07/06/2011	20:30:57	1M27187	2.08
021	E9211MSD	6333530	07/06/2011	20:45:53	1M27187	2.08
022	E9212	6333531	07/06/2011	21:00:50	1M27187	2.08
023	AA	DI H2O	07/06/2011	21:15:44	1M27187	
024	PBLK20181	BLANKA	07/06/2011	21:30:44	1M27187	2.08
025	LCS20181	LCSA	07/06/2011	21:45:38	1M27187	2.08
026	E9109	6332115	07/06/2011	22:00:32	1M27187	2.07
027	E9109MS	6332115	07/06/2011	22:15:31	1M27187	2.08
028	E9109MSD	6332115	07/06/2011	22:30:29	1M27187	2.08
029	LLME3WI	LLME31132X	07/06/2011	22:45:23	1M27187	2.07

	ICAL Dates		ICAL RT	QC Limits
1M27187	07/06/2011 - 07/06/2011	Acet = Acetone	2.07	(2.01 - 2.14 Minutes)

USF03 2119

8D
ANALYTICAL SEQUENCE

Sequence: 1M27188A Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-200 ID: 0.53

Instrument: H2739A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
001		CONDITIONER	07/07/2011	16:56:18	1M27188A	
002		CONDITIONER	07/07/2011	17:30:51	1M27188A	1.48
003		CONDITIONER	07/07/2011	17:45:35	1M27188A	1.60
004		CONDITIONER	07/07/2011	18:05:08	1M27188A	1.53
005		CONDITIONER	07/07/2011	18:19:56	1M27188A	
006		CONDITIONER	07/07/2011	18:34:49	1M27188A	
007		CONDITIONER	07/07/2011	18:49:44	1M27188A	
008	AA	DI WATER	07/07/2011	20:13:14	1M27188A	
009	AA	DI WATER	07/07/2011	20:28:18	1M27188A	1.60
010	AA	DI WATER	07/07/2011	20:43:29	1M27188A	1.53
011	AA	DI WATER	07/07/2011	20:58:29	1M27188A	
012	LLME1AA	LLME11132K	07/07/2011	21:13:20	1M27188A	1.53
013	LLME2AA	LLME21132P	07/07/2011	21:28:22	1M27188A	1.53
014	LLME3AA	LLME31132X	07/07/2011	21:43:18	1M27188A	1.53
015	LLME4AA	LLME41132R	07/07/2011	21:58:07	1M27188A	1.53
016	LLME5AA	LLME51132K	07/07/2011	22:13:00	1M27188A	1.53
017	AA	DI WATER	07/07/2011	22:28:00	1M27188A	1.53
018	LLMDXEI	LLMDX1132L	07/07/2011	22:42:50	1M27188A	1.53
019	LLMXXDK	LLMXX1132H	07/07/2011	22:57:48	1M27188A	1.54
020	AA	DI WATER	07/07/2011	23:12:36	1M27188A	1.56
021	PBLK11182	BLANKA	07/07/2011	23:27:28	1M27188A	1.53
022	LCS11182	LCSA	07/07/2011	23:42:23	1M27188A	1.53
023	E9211	6333530	07/07/2011	23:57:23	1M27188A	1.53
024	E9211MS	6333530	07/08/2011	00:12:15	1M27188A	1.53
025	E9211MSD	6333530	07/08/2011	00:27:07	1M27188A	1.53
026	E9212	6333531	07/08/2011	00:42:02	1M27188A	1.53
027	AA	DI WATER	07/08/2011	00:56:51	1M27188A	1.54
028	PBLK20181	BLANKA	07/08/2011	01:11:40	1M27188A	1.53
029	LCS20181	LCSA	07/08/2011	01:26:34	1M27188A	1.53
030	E9109	6332115	07/08/2011	01:41:24	1M27188A	1.53
031	E9109MS	6332115	07/08/2011	01:56:16	1M27188A	1.53
032	E9109MSD	6332115	07/08/2011	02:11:05	1M27188A	1.53
033	LLME3WN	LLME31132X	07/08/2011	02:26:00	1M27188A	1.53

	ICAL Dates		ICAL RT	QC Limits
1M27188A	07/07/2011 - 07/07/2011	Acet = Acetone	1.54	(1.48 - 1.61 Minutes)

8D
ANALYTICAL SEQUENCE

Sequence: 3M27187B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SP-1000 ID: 2

Instrument: H2739B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
001		CONDITIONER	07/08/2011	18:58:50	1M27187	
002		CONDITIONER	07/08/2011	19:13:43	1M27187	
003		CONDITIONER	07/08/2011	19:28:35	1M27187	
004	LLME4CP	LLME41132R	07/08/2011	19:43:29	1M27187	2.07
005	AA	DI WATER	07/08/2011	19:58:22	1M27187	
006	PBLK13189	BLANKA	07/08/2011	20:13:14	1M27187	2.07
007	AA	DI WATER	07/08/2011	20:31:19	1M27187	
008	AA	DI WATER	07/08/2011	20:46:11	1M27187	
009	PBLK13189	BLANKA	07/08/2011	21:01:03	1M27187	2.07
010	PBLK32187	BLANKA	07/08/2011	21:16:00	1M27187	2.06
011	LCS32187	LCSA	07/08/2011	21:30:57	1M27187	2.06
012	22677	6303214	07/08/2011	21:45:47	1M27187	2.07
013	22SSW	6303215	07/08/2011	22:00:40	1M27187	2.06
014	22AS1	6303216	07/08/2011	22:15:32	1M27187	2.07
015	22897	6303217	07/08/2011	22:30:22	1M27187	2.06
016	22LVW	6303218	07/08/2011	22:45:13	1M27187	2.08
017	22935	6303219	07/08/2011	23:00:04	1M27187	2.07
018	4194Z	6333317	07/08/2011	23:14:53	1M27187	2.07
019	4194ZMS	6333317	07/08/2011	23:29:41	1M27187	2.07
020	4194ZMSD	6333317	07/08/2011	23:44:37	1M27187	2.07
021	11187	6336237	07/08/2011	23:59:29	1M27187	2.07
022	LLME4CQ	LLME41132R	07/09/2011	00:14:17	1M27187	2.07
023	AA	DI WATER	07/09/2011	00:29:12	1M27187	
024	PBLK13189	BLANKA	07/09/2011	00:44:06	1M27187	2.08
025	LCS13189	LCSA	07/09/2011	00:59:03	1M27187	2.08
026	LCSD13189	LCSDA	07/09/2011	01:13:57	1M27187	2.08
027	WR134	6338251	07/09/2011	01:28:56	1M27187	2.08
028	WR294	6338253	07/09/2011	01:43:45	1M27187	2.07
029	WR294	6338254	07/09/2011	01:58:40	1M27187	2.07
030	WR294	6338255	07/09/2011	02:13:39	1M27187	2.08
031	WR294	6338260	07/09/2011	02:28:37	1M27187	2.08
032	WR883	6338262	07/09/2011	02:43:29	1M27187	2.07
033	WR903	6338265	07/09/2011	02:58:24	1M27187	2.07

	ICAL Dates		ICAL RT QC Limits	
1M27187	07/06/2011 - 07/06/2011	Acet = Acetone	2.07	(2.01 - 2.13 Minutes)

8D
ANALYTICAL SEQUENCE

Sequence: 3M27187B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SP-1000 ID: 2

Instrument: H2739B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
034	LLME4CQ	LLME41132R	07/09/2011	03:13:20	1M27187	2.08
035	AA	DI WATER	07/09/2011	03:28:09	1M27187	
036	PBLK12189	BLANKA	07/09/2011	03:42:58	1M27187	2.07
037	LCS12189	LCSA	07/09/2011	03:57:51	1M27187	2.07
038	45186	6335826	07/09/2011	04:12:45	1M27187	2.08
039	95186	6335827	07/09/2011	04:27:43	1M27187	2.08
040	95186MS	6335827	07/09/2011	04:42:29	1M27187	2.06
041	95186MSD	6335827	07/09/2011	04:57:18	1M27187	2.07
042	45192	6335828	07/09/2011	05:12:06	1M27187	2.07
043	95192	6335829	07/09/2011	05:26:58	1M27187	2.07
044	19140	6337086	07/09/2011	05:41:49	1M27187	2.08
045	19190	6337087	07/09/2011	05:56:45	1M27187	2.07
046	LLME4CR	LLME41132R	07/09/2011	06:11:38	1M27187	2.07
047		CONDITIONER	07/09/2011	17:32:39	1M27187	
048		CONDITIONER	07/09/2011	17:47:22	1M27187	
049		CONDITIONER	07/09/2011	18:02:13	1M27187	
050		CONDITIONER	07/09/2011	18:17:01	1M27187	
051	LLME4CS	LLME41132R	07/09/2011	18:32:11	1M27187	2.08
052	AA	DI WATER	07/09/2011	18:47:03	1M27187	2.02
053	AA	DI WATER	07/09/2011	19:01:58	1M27187	
054	WR294	6338260	07/09/2011	19:16:52	1M27187	2.08
055	PBLK12189	BLANKA	07/09/2011	19:31:43	1M27187	2.07
056	LCS12189	LCSA	07/09/2011	19:46:39	1M27187	2.07
057	45186	6335826	07/09/2011	20:01:32	1M27187	2.07
058	95186	6335827	07/09/2011	20:16:24	1M27187	2.07
059	95186MS	6335827	07/09/2011	20:31:15	1M27187	2.07
060	95186MSD	6335827	07/09/2011	20:46:05	1M27187	2.07
061	45192	6335828	07/09/2011	21:00:56	1M27187	2.07
062	95192	6335829	07/09/2011	21:15:49	1M27187	2.07
063	19140	6337086	07/09/2011	21:30:40	1M27187	2.07
064	19190	6337087	07/09/2011	21:45:27	1M27187	2.07
065	PBLK17190	BLANKA	07/09/2011	22:00:17	1M27187	2.07
066	LCS17190	LCSA	07/09/2011	22:15:08	1M27187	2.07

	ICAL Dates		ICAL RT	QC Limits
1M27187	07/06/2011 - 07/06/2011	Acet = Acetone	2.07	(2.01 - 2.13 Minutes)

8D
ANALYTICAL SEQUENCE

Sequence: 3M27187B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SP-1000 ID: 2

Instrument: H2739B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
067	LCSD17190	LCSDA	07/09/2011	22:30:00	1M27187	2.07
068	74S45	6339376	07/09/2011	22:44:48	1M27187	2.07
069	82S40	6339385	07/09/2011	22:59:38	1M27187	2.07
070	87S40	6339387	07/09/2011	23:14:27	1M27187	2.07
071	LLME4CT	LLME41132R	07/09/2011	23:29:19	1M27187	2.07

	ICAL Dates		ICAL RT	QC Limits
1M27187	07/06/2011 - 07/06/2011	Acet = Acetone	2.07	(2.01 - 2.13 Minutes)

USP83 2123

8D
ANALYTICAL SEQUENCE

Sequence: 2M27188A Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-200 ID: 0.53

Instrument: H2739A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
001		CONDITIONER	07/11/2011	17:16:07	1M27188A	1.57
002		CONDITIONER	07/11/2011	17:31:14	1M27188A	1.54
003		CONDITIONER	07/11/2011	17:46:17	1M27188A	
004	LLME3WO	LLME31132X	07/11/2011	18:01:20	1M27188A	1.54
005	WR883	6338262	07/11/2011	18:16:25	1M27188A	1.57
006	WR883	6338262	07/11/2011	18:31:34	1M27188A	1.54
007	PBLK12189	BLANKA	07/11/2011	18:46:36	1M27188A	1.54
008	LCS12189	LCSA	07/11/2011	19:01:40	1M27188A	1.54
009	45186	6335826	07/11/2011	19:16:43	1M27188A	1.54
010	95186	6335827	07/11/2011	19:31:44	1M27188A	1.54
011	95186MS	6335827	07/11/2011	19:48:30	1M27188A	1.54
012	95186MSD	6335827	07/11/2011	20:03:30	1M27188A	1.54
013	45192	6335828	07/11/2011	20:18:27	1M27188A	1.54
014	95192	6335829	07/11/2011	20:33:27	1M27188A	1.54
015	19140	6337086	07/11/2011	20:48:24	1M27188A	1.54
016	19190	6337087	07/11/2011	21:03:26	1M27188A	1.54
017	PBLK17190	BLANKA	07/11/2011	21:18:22	1M27188A	1.54
018	LCS17190	LCSA	07/11/2011	21:33:17	1M27188A	1.54
019	LCSD17190	LCSDA	07/11/2011	21:48:06	1M27188A	1.54
020	74S45	6339376	07/11/2011	22:03:08	1M27188A	1.54
021	82S40	6339385	07/11/2011	22:18:03	1M27188A	1.54
022	87S40	6339387	07/11/2011	22:32:59	1M27188A	1.54
023	LLME3WP	LLME31132X	07/11/2011	22:47:56	1M27188A	1.54
024	CCWE3HY	CCWE31132E	07/11/2011	23:02:49	1C27192	
025	AA	DI WATER	07/11/2011	23:17:37	1C27192	
026	PBLK16192	BLANKA	07/11/2011	23:32:34	1C27192	
027	LCS16192	LCSA	07/11/2011	23:47:26	1C27192	
028	AA	DI WATER	07/12/2011	00:02:13	1C27192	
029	4194-	6333315	07/12/2011	00:17:09	1C27192	
030	4194-MS	6333315	07/12/2011	00:32:00	1C27192	
031	4194-MSD	6333315	07/12/2011	00:46:47	1C27192	

ICAL Dates

1M27188A 07/07/2011 - 07/07/2011

Acet = Acetone

ICAL RT QC Limits

1.54 (1.48 - 1.61 Minutes)

USF03 2124

8D
ANALYTICAL SEQUENCE

Sequence: 2M27188A Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-200 ID: 0.53

Instrument: H2739A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
032	CCWE3HX	CCWE31132E	07/12/2011	01:01:41	1C27192	

ICAL Dates

1M27188A 07/07/2011 - 07/07/2011

Acet = Acetone

ICAL RT QC Limits

1.54 (1.48 - 1.61 Minutes)

USF03 2125

8D
ANALYTICAL SEQUENCE

Sequence: 1C27193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-200 ID: 0.53

Instrument: H2739A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
001		CONDITIONER	07/12/2011	21:05:38	1C27193	
002		CONDITIONER	07/12/2011	21:20:31	1C27193	
003	CCWE1AA	CCWE11132D	07/12/2011	21:35:22	1C27193	
004	CCWE2AA	CCWE21132D	07/12/2011	21:50:14	1C27193	
005	CCWE3AA	CCWE31132F	07/12/2011	22:05:12	1C27193	
006	CCWE4AA	CCWE41132D	07/12/2011	22:20:07	1C27193	
007	CCWE5AA	CCWE51132D	07/12/2011	22:34:58	1C27193	
008	AA	DI WATER	07/12/2011	22:49:58	1C27193	
009	CCWXXAR	CCWXX1132B	07/12/2011	23:04:52	1C27193	
010	AA	DI WATER	07/12/2011	23:19:49	1C27193	
011	PBLK16192	BLANKA	07/12/2011	23:34:49	1C27193	
012	LCS16192	LCSA	07/12/2011	23:49:41	1C27193	
013	4194-	6333315	07/13/2011	00:04:30	1C27193	
014	4194-MS	6333315	07/13/2011	00:19:25	1C27193	
015	4194-MSD	6333315	07/13/2011	00:34:20	1C27193	
016	CCWE3AA	CCWE31132F	07/13/2011	00:49:13	1C27193	
017	LLME3WS	LLME31132Y	07/13/2011	01:04:07	1M27188A	1.54
018	AA	DI WATER	07/13/2011	01:19:04	1M27188A	1.54
019	PBLK28193	BLANKA	07/13/2011	01:33:55	1M27188A	1.54
020	LCS28193	LCSA	07/13/2011	01:48:51	1M27188A	1.54
021	LBOD-	6336622	07/13/2011	02:03:46	1M27188A	1.54
022	H-BOD	6336623	07/13/2011	02:18:36	1M27188A	1.53
023	PCEFF	6337192	07/13/2011	02:33:31	1M27188A	1.54
024	PCEFFMS	6337192	07/13/2011	02:48:20	1M27188A	1.54
025	PCEFFMSD	6337192	07/13/2011	03:03:08	1M27188A	1.54
026	PCINF	6337196	07/13/2011	03:18:05	1M27188A	1.53
027	1068D	6338943	07/13/2011	03:32:56	1M27188A	1.54
028	1068E	6338944	07/13/2011	03:47:45	1M27188A	1.54

	ICAL Dates		ICAL RT	QC Limits
1M27188A	07/07/2011 - 07/07/2011	Acet = Acetone	1.54	(1.48 - 1.61 Minutes)
1M27199A	07/18/2011 - 07/19/2011	Acet = Acetone	1.54	(1.48 - 1.61 Minutes)

USPB3 2125

8D
ANALYTICAL SEQUENCE

Sequence: 1C27193 Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-200 ID: 0.53

Instrument: H2739A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
029	1068F	6338945	07/13/2011	04:02:32	1M27188A	1.54
030	E9612	6339516	07/13/2011	04:17:23	1M27188A	1.53
031	PBLK18190	BLANKA	07/13/2011	04:32:15	1M27188A	1.54
032	LCS18190	LCSA	07/13/2011	04:47:13	1M27188A	1.53
033	LCSD18190	LCSDA	07/13/2011	05:02:00	1M27188A	1.53
034	TBQ01	6338266	07/13/2011	05:16:48	1M27188A	1.53
035	TBQ02	6338267	07/13/2011	05:31:39	1M27188A	1.53
036	EBQ02	6338269	07/13/2011	05:46:35	1M27188A	1.54
037	EBQ02MS	6338269	07/13/2011	06:01:24	1M27188A	1.53
038	EBQ02MSD	6338269	07/13/2011	06:16:13	1M27188A	1.53
039	EBQ03	6339388	07/13/2011	06:31:04	1M27188A	1.53
040	TBQ05	6339389	07/13/2011	06:45:59	1M27188A	1.53
041	TBQ04	6339390	07/13/2011	07:00:47	1M27188A	1.53
042	LLME3WT	LLME31132Y	07/13/2011	07:15:39	1M27188A	1.54

	ICAL Dates		ICAL RT	QC Limits
1M27188A	07/07/2011 - 07/07/2011	Acet = Acetone	1.54	(1.48 - 1.61 Minutes)
1M27199A	07/18/2011 - 07/19/2011	Acet = Acetone	1.54	(1.48 - 1.61 Minutes)

USF03 2127

8D
ANALYTICAL SEQUENCE

Sequence: 1M27194A Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-200 ID: 0.53

Instrument: H2739A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
001		CONDITIONER	07/13/2011	19:05:49	1M27194A	1.55
002		CONDITIONER	07/13/2011	19:20:42	1M27194A	1.54
003		CONDITIONER	07/13/2011	19:35:29	1M27194A	1.53
004	LLME1AA	LLME11132L	07/13/2011	19:50:18	1M27194A	1.53
005	LLME2AA	LLME21132Q	07/13/2011	20:05:16	1M27194A	1.53
006	LLME3AA	LLME31132Z	07/13/2011	20:20:10	1M27194A	1.53
007	LLME4AA	LLME41132S	07/13/2011	20:34:58	1M27194A	1.53
008	LLME5AA	LLME51132L	07/13/2011	20:49:53	1M27194A	1.53
009	AA	DI WATER	07/13/2011	21:05:04	1M27194A	1.53
010	LLMDXEJ	LLMDX1132L	07/13/2011	21:19:56	1M27194A	1.53
011	LLMXXDL	LLMXX1132I	07/13/2011	21:34:52	1M27194A	1.53
012	AA	DI WATER	07/13/2011	21:49:51	1M27194A	1.55
013	PBLK29194	BLANKA	07/13/2011	22:04:40	1M27194A	1.53
014		MDL1	07/13/2011	22:19:31	1M27194A	
015	LCS29194	LCSA	07/13/2011	22:34:26	1M27194A	1.53
016	LCSD29194	LCSDA	07/13/2011	22:49:24	1M27194A	1.53
017	WR134	6338251	07/13/2011	23:04:21	1M27194A	1.53
018	WR294	6338253	07/13/2011	23:19:16	1M27194A	1.53
019	WR294	6338254	07/13/2011	23:34:08	1M27194A	1.53
020	WR294	6338255	07/13/2011	23:49:03	1M27194A	1.53
021	WR294	6338260	07/14/2011	00:03:54	1M27194A	1.53
022	WR883	6338262	07/14/2011	00:18:49	1M27194A	1.53
023	WR903	6338265	07/14/2011	00:33:41	1M27194A	1.54
024	PBLK30193	BLANKA	07/14/2011	00:48:35	1M27194A	1.53
025	LCS30193	LCSA	07/14/2011	01:03:23	1M27194A	1.53
026	45135	6340791	07/14/2011	01:18:19	1M27194A	1.53
027	45138	6340792	07/14/2011	01:33:11	1M27194A	1.53
028	91138	6340793	07/14/2011	01:48:06	1M27194A	1.53
029	00149	6340795	07/14/2011	02:03:00	1M27194A	1.53
030	00297	6340796	07/14/2011	02:17:47	1M27194A	1.53
031	00297	6340797	07/14/2011	02:32:38	1M27194A	1.53
032	00297	6340798	07/14/2011	02:47:32	1M27194A	1.53
033	00292	6340800	07/14/2011	03:02:25	1M27194A	1.53

	ICAL Dates		ICAL RT	QC Limits
1M27194A	07/13/2011 - 07/13/2011	Acet = Acetone	1.54	(1.48 - 1.61 Minutes)

USF03 2128

8D
ANALYTICAL SEQUENCE

Sequence: 1M27194A Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: RTX-200 ID: 0.53

Instrument: H2739A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
034	00298	6340801	07/14/2011	03:17:14	1M27194A	1.53
035	DP-01	6340802	07/14/2011	03:32:09	1M27194A	1.53
036	LLME4CU	LLME41132S	07/14/2011	03:47:05	1M27194A	1.53
037	AA	DI WATER	07/14/2011	04:01:54	1M27194A	1.54
038	PBLK18190	BLANKA	07/14/2011	04:16:44	1M27194A	1.53
039	LCS18190	LCSA	07/14/2011	04:31:33	1M27194A	1.53
040	LCSD18190	LCSDA	07/14/2011	04:46:24	1M27194A	1.53
041	TBQ01	6338266	07/14/2011	05:01:15	1M27194A	1.53
042	TBQ02	6338267	07/14/2011	05:16:09	1M27194A	1.54
043	EBQ02	6338269	07/14/2011	05:30:58	1M27194A	1.53
044	EBQ02MS	6338269	07/14/2011	05:45:48	1M27194A	1.53
045	EBQ02MSD	6338269	07/14/2011	06:00:39	1M27194A	1.53
046	EBQ03	6339388	07/14/2011	06:15:32	1M27194A	1.53
047	TBQ05	6339389	07/14/2011	06:30:25	1M27194A	1.53
048	TBQ04	6339390	07/14/2011	06:45:20	1M27194A	1.54
049	LLME4CV	LLME41132S	07/14/2011	07:00:08	1M27194A	1.53
050	AA	DI WATER	07/14/2011	07:15:00	1M27194A	
051	PBLK28193	BLANKA	07/14/2011	07:29:52	1M27194A	1.54
052	LCS28193	LCSA	07/14/2011	07:44:45	1M27194A	1.53
053	E9612	6339516	07/14/2011	07:59:39	1M27194A	1.54
054	LBOD-	6336622	07/14/2011	08:14:33	1M27194A	1.54
055	H-BOD	6336623	07/14/2011	08:29:24	1M27194A	1.54
056	PCEFF	6337192	07/14/2011	08:44:18	1M27194A	1.54
057	PCEFFMS	6337192	07/14/2011	08:59:10	1M27194A	1.54
058	PCEFFMSD	6337192	07/14/2011	09:14:05	1M27194A	1.54
059	PCINF	6337196	07/14/2011	09:28:55	1M27194A	1.54
060	1068D	6338943	07/14/2011	09:43:46	1M27194A	1.54
061	1068E	6338944	07/14/2011	09:58:40	1M27194A	1.54
062	1068F	6338945	07/14/2011	10:13:34	1M27194A	1.53
063	AA	DI WATER	07/14/2011	10:28:26	1M27194A	
064	AA	DI WATER	07/14/2011	10:43:17	1M27194A	
065	AA	DI WATER	07/14/2011	10:58:13	1M27194A	
066	LLME4CW	LLME41132S	07/14/2011	11:13:10	1M27194A	1.54

	ICAL Dates		ICAL RT	QC Limits
1M27194A	07/13/2011 - 07/13/2011	Acet = Acetone	1.54	(1.48 - 1.61 Minutes)

USF03 2129

8D
ANALYTICAL SEQUENCE

Sequence: 5M27187B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SP-1000 ID: 2

Instrument: H2739B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
001		CONDITIONER	07/14/2011	17:27:24	1M27187	
002		CONDITIONER	07/14/2011	17:42:09	1M27187	2.07
003		CONDITIONER	07/14/2011	17:56:59	1M27187	
004	LLME3WV	LLME31132Z	07/14/2011	18:12:04	1M27187	2.09
005	AA	DI WATER	07/14/2011	18:26:53	1M27187	
006	PBLK31193	BLANKA	07/14/2011	18:41:48	1M27187	2.07
007	LCS31193	LCSA	07/14/2011	18:56:46	1M27187	2.09
008	10954	6341428	07/14/2011	19:11:38	1M27187	2.08
009	10954	6341429	07/14/2011	19:26:30	1M27187	2.07
010	10954	6341430	07/14/2011	19:41:29	1M27187	2.08
011	20954	6341431	07/14/2011	19:56:17	1M27187	2.07
012	30954	6341432	07/14/2011	20:11:12	1M27187	2.07
013	40954	6341433	07/14/2011	20:26:08	1M27187	2.08
014	50954	6341434	07/14/2011	20:40:56	1M27187	2.07
015	60954	6341435	07/14/2011	20:55:51	1M27187	2.07
016	70954	6341436	07/14/2011	21:10:52	1M27187	2.08
017	80954	6341437	07/14/2011	21:25:37	1M27187	2.07
018	90954	6341438	07/14/2011	21:40:28	1M27187	2.07
019	95410	6341439	07/14/2011	21:55:41	1M27187	2.08
020	I1954	6341440	07/14/2011	22:10:34	1M27187	2.07
021	I2954	6341441	07/14/2011	22:25:26	1M27187	2.07
022	I3954	6341442	07/14/2011	22:40:21	1M27187	2.08
023	I4954	6341443	07/14/2011	22:55:13	1M27187	2.08
024	I5954	6341444	07/14/2011	23:10:00	1M27187	2.07
025	I6954	6341445	07/14/2011	23:24:50	1M27187	2.07
026	I7954	6341446	07/14/2011	23:39:43	1M27187	2.08
027	LLME3WW	LLME31132Z	07/14/2011	23:54:35	1M27187	2.08
028	AA	DI WATER	07/15/2011	00:09:29	1M27187	
029	PBLK30194	BLANKA	07/15/2011	00:24:19	1M27187	2.08
030	LCS30194	LCSA	07/15/2011	00:39:15	1M27187	2.08
031	LCSD30194	LCSDA	07/15/2011	00:54:08	1M27187	2.08
032	74S45	6339376	07/15/2011	01:08:58	1M27187	2.08
033	82S40	6339385	07/15/2011	01:23:46	1M27187	2.08

ICAL Dates		ICAL RT	QC Limits
1M27187	07/06/2011 - 07/06/2011	2.07	(2.01 - 2.13 Minutes)

Acet = Acetone

USF03 2138

8D
ANALYTICAL SEQUENCE

Sequence: 5M27187B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SP-1000 ID: 2

Instrument: H2739B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
034	87S40	6339387	07/15/2011	01:38:38	1M27187	2.08
035	WR473	6340961	07/15/2011	01:53:29	1M27187	2.08
036	WR143	6342262	07/15/2011	02:08:21	1M27187	2.08
037	WR28-	6342264	07/15/2011	02:23:09	1M27187	2.08
038	WR483	6342266	07/15/2011	02:37:58	1M27187	2.08
039	WR483	6342267	07/15/2011	02:52:46	1M27187	2.08
040	WR483	6342268	07/15/2011	03:07:44	1M27187	2.09
041	WR483	6342273	07/15/2011	03:22:31	1M27187	2.08
042	WR793	6342275	07/15/2011	03:37:22	1M27187	2.08
043	WR833	6342277	07/15/2011	03:52:10	1M27187	2.08
044	WR893	6342279	07/15/2011	04:07:02	1M27187	2.08
045	WR325	6343302	07/15/2011	04:21:53	1M27187	2.08
046	WR763	6343304	07/15/2011	04:36:45	1M27187	2.08
047	WR335	6343325	07/15/2011	04:51:34	1M27187	2.08
048	WR463	6343327	07/15/2011	05:06:26	1M27187	2.08
049	WR775	6343329	07/15/2011	05:21:16	1M27187	2.08
050	WR843	6343331	07/15/2011	05:36:09	1M27187	2.08
051	LLME3WX	LLME31132Z	07/15/2011	05:51:00	1M27187	2.07
052	AA	DI WATER	07/15/2011	06:05:52	1M27187	
053	PBLK30193	BLANKA	07/15/2011	06:20:40	1M27187	2.07
054	91138	6340793	07/15/2011	06:35:31	1M27187	2.07
055	DP-01	6340802	07/15/2011	06:50:24	1M27187	2.08
056	PBLK18190	BLANKA	07/15/2011	07:05:18	1M27187	2.08
057	LCS18190	LCSA	07/15/2011	07:20:08	1M27187	2.08
058	LCSD18190	LCSDA	07/15/2011	07:35:00	1M27187	2.08
059	TBQ02	6338267	07/15/2011	07:49:50	1M27187	2.08
060	LLME3WX	LLME31132Z	07/15/2011	08:04:46	1M27187	2.08
061	AA	DI WATER	07/15/2011	08:19:38	1M27187	
062	PBLK28193	BLANKA	07/15/2011	08:34:31	1M27187	2.08
063	LCS28193	LCSA	07/15/2011	08:49:16	1M27187	2.08
064	E9612	6339516	07/15/2011	09:04:04	1M27187	2.07
065	H-BOD	6336623	07/15/2011	09:18:58	1M27187	2.07
066	1068D	6338943	07/15/2011	09:33:53	1M27187	2.08

ICAL Dates

1M27187 07/06/2011 - 07/06/2011

Acet = Acetone

ICAL RT QC Limits

2.07 (2.01 - 2.13 Minutes)

USF03 2131

8D
ANALYTICAL SEQUENCE

Sequence: 5M27187B Lab Name: Lancaster laboratories Contract:

Lab Code: Case No.: SAS No: SDG No.:

GC Column: SP-1000 ID: 2

Instrument: H2739B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	Acet
067	1068E	6338944	07/15/2011	09:48:48	1M27187	2.08
068	1068F	6338945	07/15/2011	10:03:36	1M27187	2.07
069	AA	DI WATER	07/15/2011	10:18:24	1M27187	
070	AA	DI WATER	07/15/2011	10:33:22	1M27187	2.08
071	LLME3WY	LLME31132Z	07/15/2011	10:48:16	1M27187	2.08

	ICAL Dates		ICAL RT	QC Limits
1M27187	07/06/2011 - 07/06/2011	Acet = Acetone	2.07	(2.01 - 2.13 Minutes)

USF03 2132

Sample Data

Lancaster Laboratories

LOQ/MDL Summary
EPH/Miscellaneous GC

SDG: USF03

Fraction: Alcohol by GC

06624: Alcohols by 8015B Analyte Name	Default MDL	Default LOQ	Units
Methanol	200	1,000	ug/l
Ethanol	200	1,000	ug/l

10501: Alcohols in Soil Analyte Name	Default MDL	Default LOQ	Units
Methanol (by Direct Injection)	200	1,000	ug/kg
Ethanol (by Direct Injection)	200	1,000	ug/kg

USF03 2234

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339376 RI 74S45 Sample ID: AA **Batchnumber: 111900017A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: USF03 State: CA
Analyses: 10501

Analysis Report (A)

Injected on : JUL 11, 2011 22:03:08
Instrument : CP27--H2739A
Result file : 2M27188A.0020.RAW
Calibration file : 1m27188a.CAL
Method file : ilm.MET

%SSR(Acetone) : 82.9% (42-138) Conc.: 2073.45947

Peak name	Min	R.T.	Max	Height	Amount
Ethanol	0.78	0.83	0.84	245	35.403480
Acetone	1.48	1.54	1.61	11844	2073.459470

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol			<500	<100			
☑ Ethanol	A	35.403480	<500	<100			
☐ Isopropanol			<500	<100			
☐ Acetone	A	2073.459470					

Units: ug/kg

Tracy A. Cole

Reviewed by: EM 7343

Date: 7/12/11

Verified by:

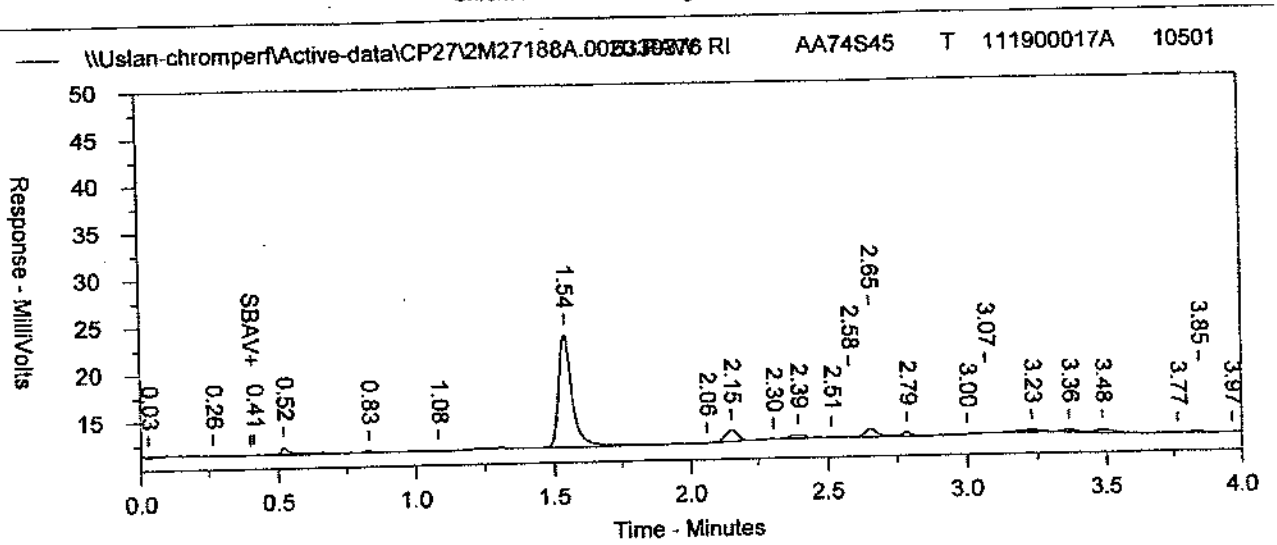
Date: JUL 13 2011

Tracy A. Cole
Senior Specialist

USF03 2135

* Recovery outside QC Limits

Printed on: 7/12/2011 14:56:26



Sample Name = 6339376 RI AA74S45 T 111900017A 10501

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0020.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/11/2011 10:03:08 PM
Dilution Factor = 5
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Ethanol	0.83	35.40	1.679	245	1455
Acetone	1.54	2073.46	98.321	11844	41059

USP93 2136

Printed on 7/12/2011 2:54:47 PM

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339376R 74S45 Sample ID: AA **Batchnumber: 111940030A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: USF03 State: CA
Analyses: 10501

Analysis Report (A)

Injected on : JUL 15, 2011 01:08:58
Instrument : CP27--H2739B
Result file : 5M27187B.0032.RAW
Calibration file : 1M27187.CAL
Method file : LLMB.MET
%SSR(Acetone) : 93.6% (42-138) Conc.: 2340.19241

Peak name	Min	R.T.	Max	Height	Amount
Methanol	0.50	0.54	0.56	161	57.568240
Acetone	2.01	2.08	2.14	6480	2340.192410

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	B	57.568240	<500	<100		0.00	
☑ Ethanol			<500	<100			
☐ Acetone	B	2340.192410				0.00	
☐ Isopropanol			<500	<100			

Units: ug/kg

Reviewed by: EM 7313
Date: 7/20/11

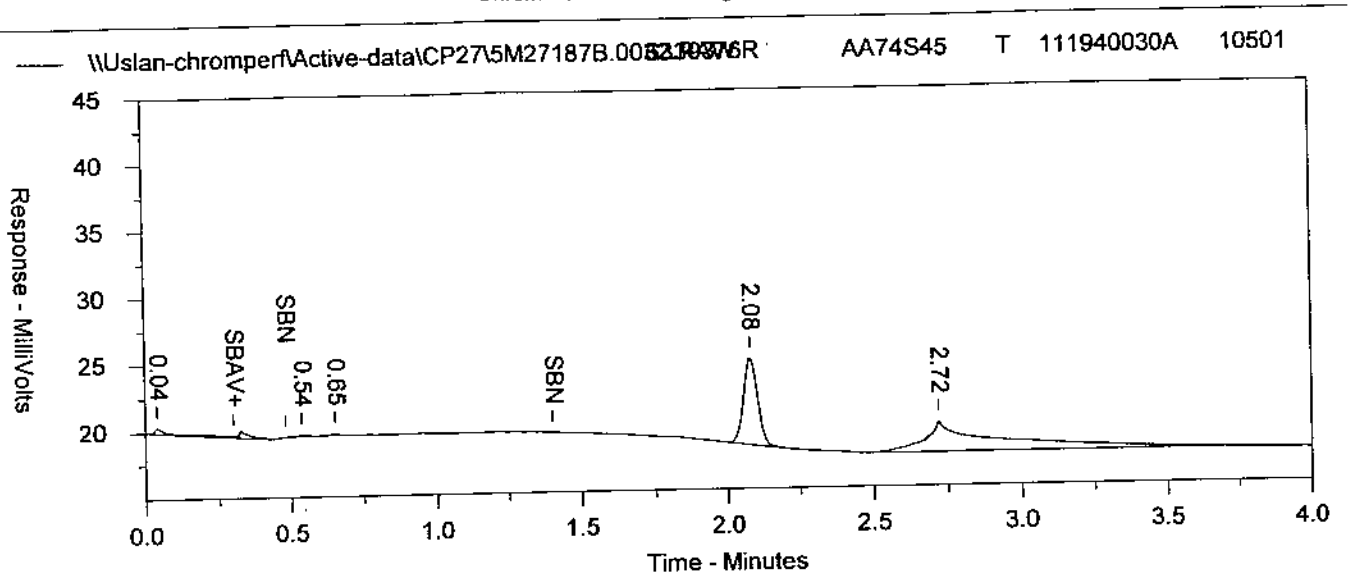
Verified by: Tracy A. Cole
Date: JUL 21 2011

Tracy A. Cole
Senior Specialist

USF03 2137

* Recovery outside QC Limits

Printed on: 7/15/2011 01:13:15



Sample Name = 6339376R AA74S45 T 111940030A 10501

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0032.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/15/2011 1:08:58 AM
Dilution Factor = 5
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	57.57	2.401	161	459
Acetone	2.08	2340.19	97.599	6480	22304

USF83 2138

Lancaster Laboratories-Single Component Data Summary

Sample Name: **6339385** RI 82S40 Sample ID: AA **Batchnumber: 111900017A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: USF03 State: CA
Analyses: 10501

Analysis Report (A)

Injected on : JUL 11, 2011 22:18:03
Instrument : CP27-H2739A
Result file : 2M27188A.0021.RAW
Calibration file : 1m27188a.CAL
Method file : ilm.MET

%SSR(Acetone) : 86.7% (42-138) Conc.: 2166.59058

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.65	0.68	430	29.475140
Ethanol	0.78	0.83	0.84	263	37.913990
Isopropanol	0.91	1.00	1.05	83	14.684350
Acetone	1.48	1.54	1.61	12376	2166.590580

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	29.475140	<500	<100			
☑ Ethanol	A	37.913990	<500	<100			
☐ Isopropanol	A	14.684350	<500	<100			
☐ Acetone	A	2166.590580					

Units: ug/kg

Reviewed by: EM 7/13
Date: 7/12/11

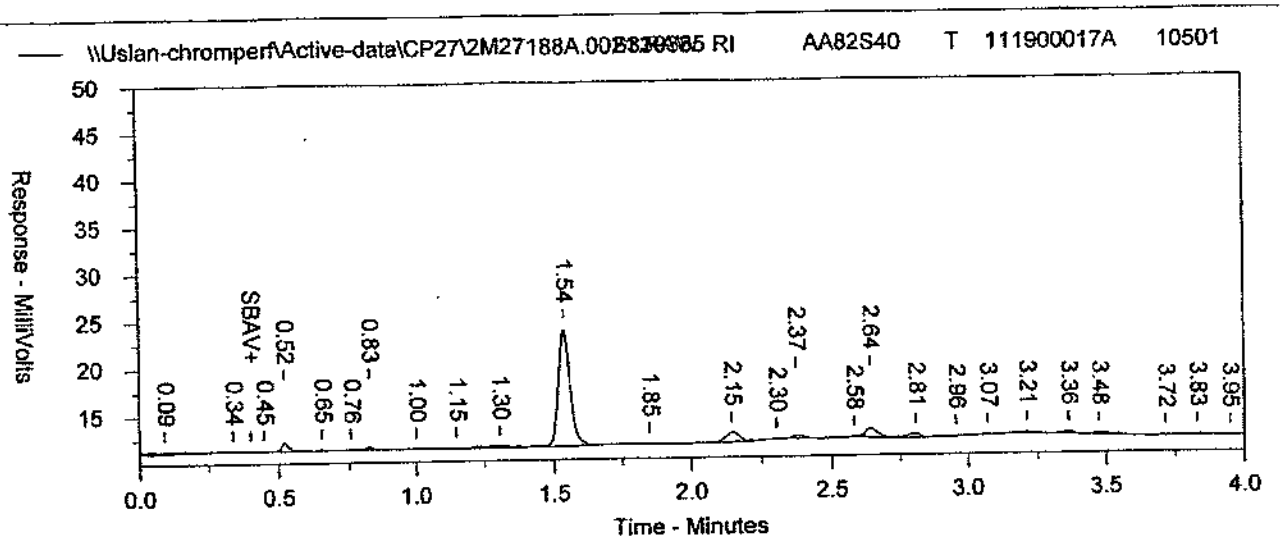
Verified by: Tracy A Cole
Date: JUL 13 2011

Tracy A. Cole
Senior Specialist

USF03 2139

* Recovery outside QC Limits

Printed on: 7/12/2011 14:56:40



Sample Name = 6339385 RI AA82S40 T 111900017A 10501

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0021.RAW
Method File Name = Y:\CP27\lim.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/11/2011 10:18:03 PM
Dilution Factor = 5
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	29.48	1.311	214	430
Ethanol	0.83	37.91	1.686	263	823
Isopropanol	1.00	14.68	0.653	83	301
Acetone	1.54	2166.59	96.350	12376	37363

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339385R 82S40 Sample ID: AA **Batchnumber: 111940030A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: USF03 State: CA
Analyses: 10501

Analysis Report (A)

Injected on : JUL 15, 2011 01:23:46
Instrument : CP27--H2739B
Result file : 5M27187B.0033.RAW
Calibration file : 1M27187.CAL
Method file : LLMB.MET

%SSR(Acetone) : 88.1% (42-138) Conc.: 2202.03903

Peak name	Min	R.T.	Max	Height	Amount
Methanol	0.50	0.54	0.56	208	74.486170
Acetone	2.01	2.08	2.14	6098	2202.039030

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	B	74.486170	<500	<100		0.00	
☑ Ethanol			<500	<100			
☐ Acetone	B	2202.039030				0.00	
☐ Isopropanol			<500	<100			

Units: ug/kg

Reviewed by: CM 7343
Date: 7/20/11

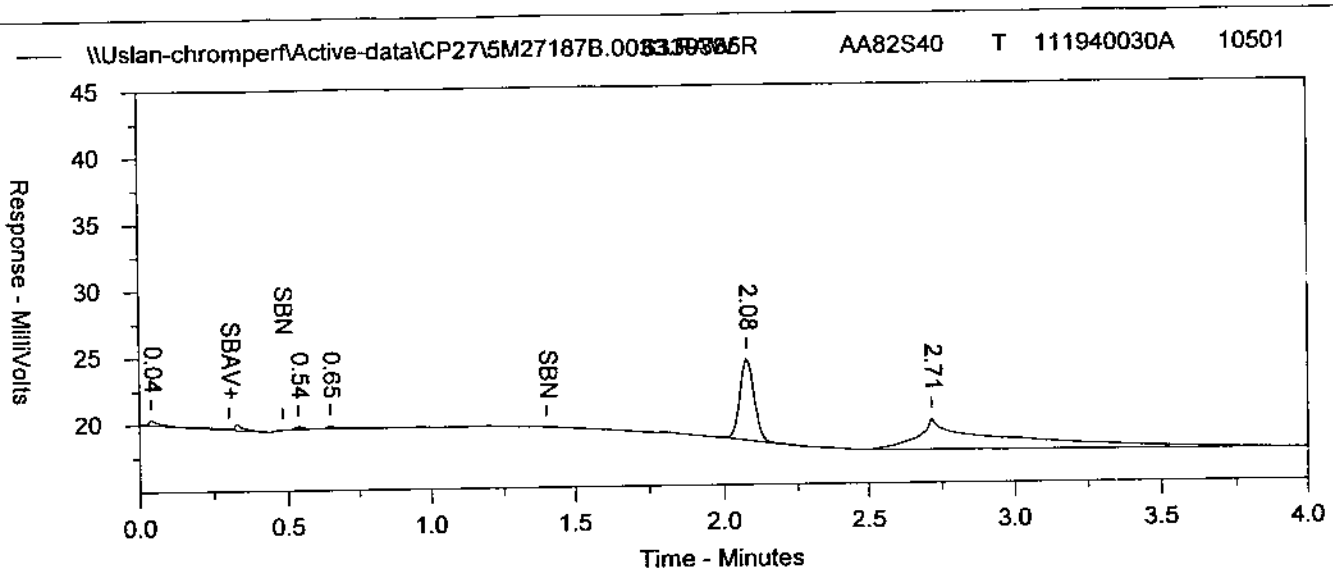
Verified by: Tracy A. Cole
Date: JUL 21 2011

Tracy A. Cole
Senior Specialist

USF03 2141

* Recovery outside QC Limits

Printed on: 7/15/2011 01:28:06



Sample Name = 6339385R AA82S40 T 111940030A 10501

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0033.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/15/2011 1:23:46 AM
Dilution Factor = 5
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	74.49	3.272	208	548
Acetone	2.08	2202.04	96.728	6098	21153

USF93 2142

Lancaster Laboratories-Single Component Data Summary

Sample Name: **6339387** RI 87S40 Sample ID: AA **Batchnumber: 111900017A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: USF03 State: CA
Analyses: 10501

Analysis Report (A)

Injected on : JUL 11, 2011 22:32:59
Instrument : CP27--H2739A
Result file : 2M27188A.0022.RAW
Calibration file : 1m27188a.CAL
Method file : llm.MET

%SSR(Acetone) : 85.5% (42-138) Conc.: 2136.48758

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.65	0.68	975	66.800740
Ethanol	0.78	0.83	0.84	544	78.594920
Isopropanol	0.91	0.99	1.05	138	24.543320
Acetone	1.48	1.54	1.61	12204	2136.487580

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	66.800740	<500	<100			
☑ Ethanol	A	78.594920	<500	<100			
☐ Isopropanol	A	24.543320	<500	<100			
☐ Acetone	A	2136.487580					

Units: ug/kg

Reviewed by: EM 2343
Date: 7/12/11

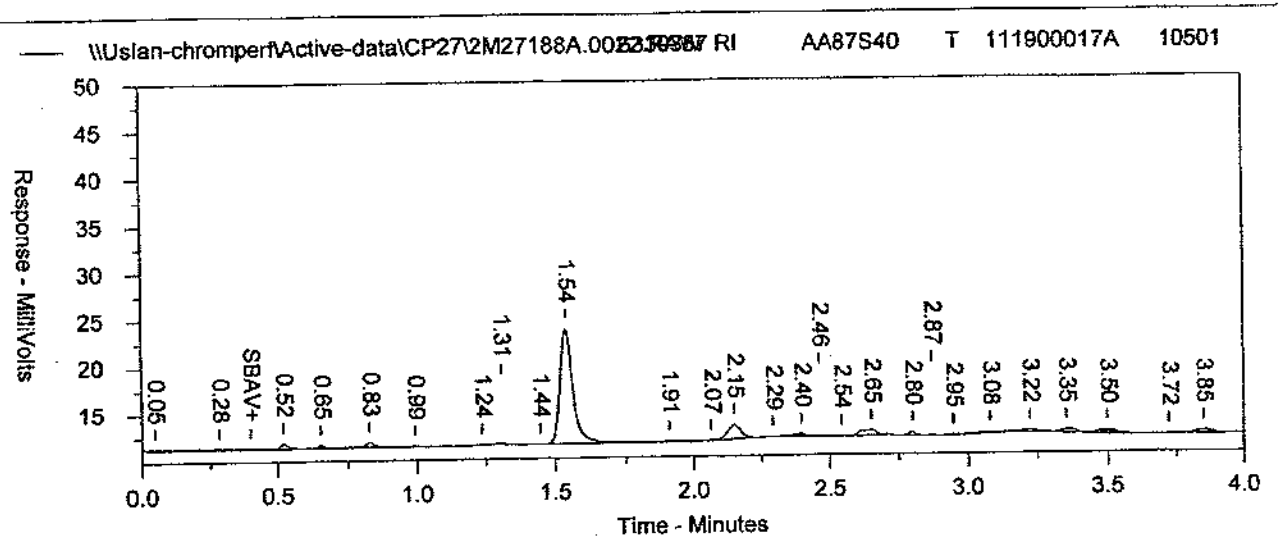
Verified by: Tracy A. Cole
Date: JUL 13 2011

Tracy A. Cole
Senior Specialist

USF03 2143

* Recovery outside QC Limits

Printed on: 7/12/2011 14:56:46



Sample Name = 6339387 RI AA87S40 T 111900017A 10501

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0022.RAW
Method File Name = Y:\CP27\llm.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/11/2011 10:32:59 PM
Dilution Factor = 5
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	66.80	2.896	359	975
Ethanol	0.83	78.59	3.408	544	1452
Isopropanol	0.99	24.54	1.064	138	723
Acetone	1.54	2136.49	92.632	12204	40516

USPB3: 2144

Lancaster Laboratories Single Component Data Summary

Sample Name: 6339387R 87S40 Sample ID: AA **Batchnumber: 111940030A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: USF03 State: CA
Analyses: 10501

Analysis Report (A)

Injected on : JUL 15, 2011 01:38:38
Instrument : CP27--H2739B
Result file : 5M27187B.0034.RAW
Calibration file : 1M27187.CAL
Method file : LLMB.MET

%SSR(Acetone) : 96.8% (42-138) Conc.: 2418.78418

Peak name	Min	R.T.	Max	Height	Amount
Methanol	0.50	0.54	0.56	186	66.670030
Acetone	2.01	2.08	2.14	6698	2418.784180

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	B	66.670030	<500	<100		0.00	
☑ Ethanol			<500	<100			
☐ Acetone	B	2418.784180				0.00	
☐ Isopropanol			<500	<100			

Tracy A. Cole

Units: ug/kg

Reviewed by: EM 2343
Date: 7/20/11

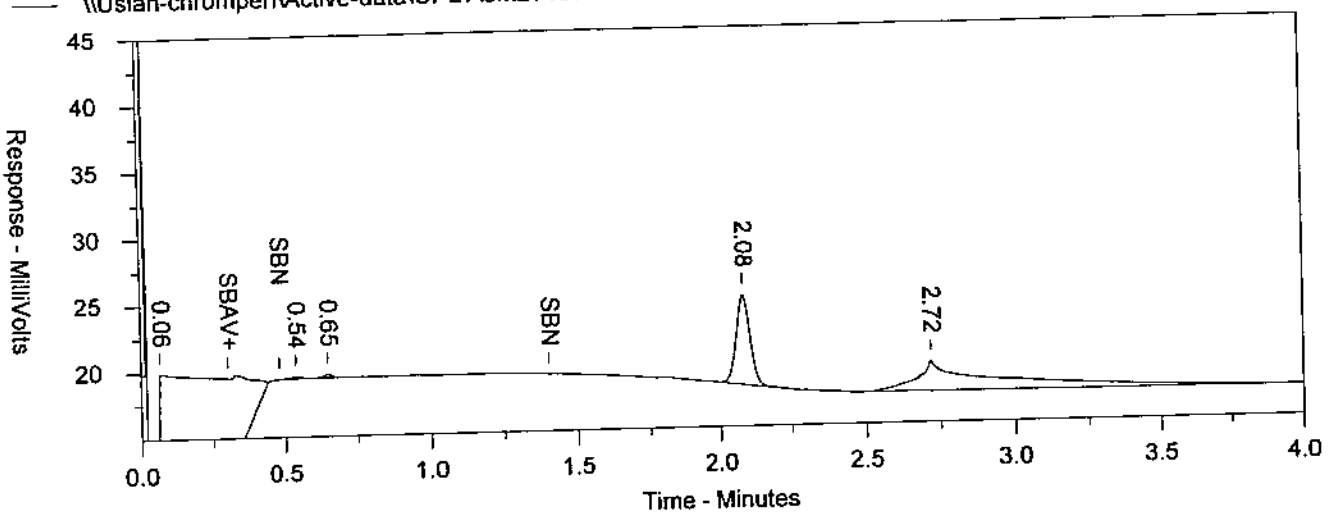
Verified by: JUL 21 2011
Date
Tracy A. Cole
Senior Specialist

USF03 2345

* Recovery outside QC Limits

Printed on: 7/15/2011 01:42:54

\\Uslan-chromperf\Active-data\CP27\5M27187B.0034.RAW AA87S40 T 111940030A 10501



Sample Name = 6339387R AA87S40 T 111940030A 10501

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0034.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/15/2011 1:38:38 AM
Dilution Factor = 5
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	66.67	2.682	186	565
Acetone	2.08	2418.78	97.318	6698	23043

USEPA 2146

Printed on 7/15/2011 1:42:41 AM

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339388 RI EBQ03 Sample ID: AA **Batchnumber: 111900018A**
Sample Amount: 1 ml Total Volume: 1 ml Analyst: 2343 SDG: USF03 State: CA
Analyses: 06624

Analysis Report (A)

Injected on : JUL 14, 2011 06:15:32
Instrument : CP27--H2739A
Result file : 1M27194A.0046.RAW
Calibration file : 1m27194a.CAL
Method file : ilm.MET
%SSR(Acetone) : 103.7% (54-147) Conc.: 2593.424072

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.67	0.68	1033	122.751991
Ethanol	0.78	0.82	0.84	1227	122.330093
Acetone	1.48	1.53	1.61	23241	2593.424072

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	122.751991	<1000	<200			
☑ Ethanol	A	122.330093	<1000	<200			
☐ Isopropanol			<1000	<200			
☐ Acetone	A	2593.424072					

Units: ug/l

Reviewed by: EM 7313
Date: 7/16/11

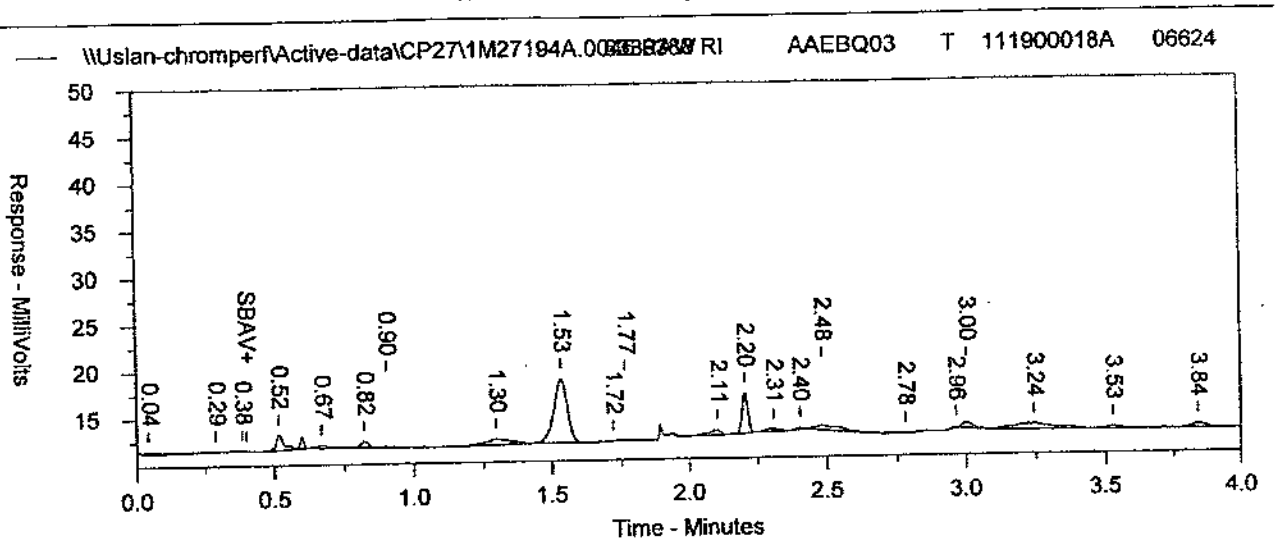
Verified by: Tracy A. Cole
Date: JUL 19 2011

Tracy A. Cole
Senior Specialist

USF03 2147

* Recovery outside QC Limits

Printed on: 7/14/2011 15:03:56



Sample Name = 6339388 RI AAEBQ03 T 111900018A 06624

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0046.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/14/2011 6:15:32 AM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.67	122.75	4.325	304	1033
Ethanol	0.82	122.33	4.310	643	1227
Acetone	1.53	2593.42	91.366	6864	23241

Lancaster Laboratories-Single Component Data Summary

Sample Name: 6339390 RI TBQ04 Sample ID: AA **Batchnumber: 111900018A**
Sample Amount: 1 ml Total Volume: 1 ml Analyst: 2343 SDG: USF03 State: CA
Analyses: 06624

Analysis Report (A)

Injected on : JUL 14, 2011 06:45:20
Instrument : CP27--H2739A
Result file : 1M27194A.0048.RAW
Calibration file : 1m27194a.CAL
Method file : Ilm.MET

%SSR(Acetone) : 102.3% (54-147) Conc.: 2558.55200

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.67	0.68	866	102.942818
Ethanol	0.78	0.82	0.84	1208	120.511703
Acetone	1.48	1.54	1.61	22929	2558.552002

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	102.942818	<1000	<200			
☑ Ethanol	A	120.511703	<1000	<200			
☐ Isopropanol			<1000	<200			
☐ Acetone	A	2558.552002					

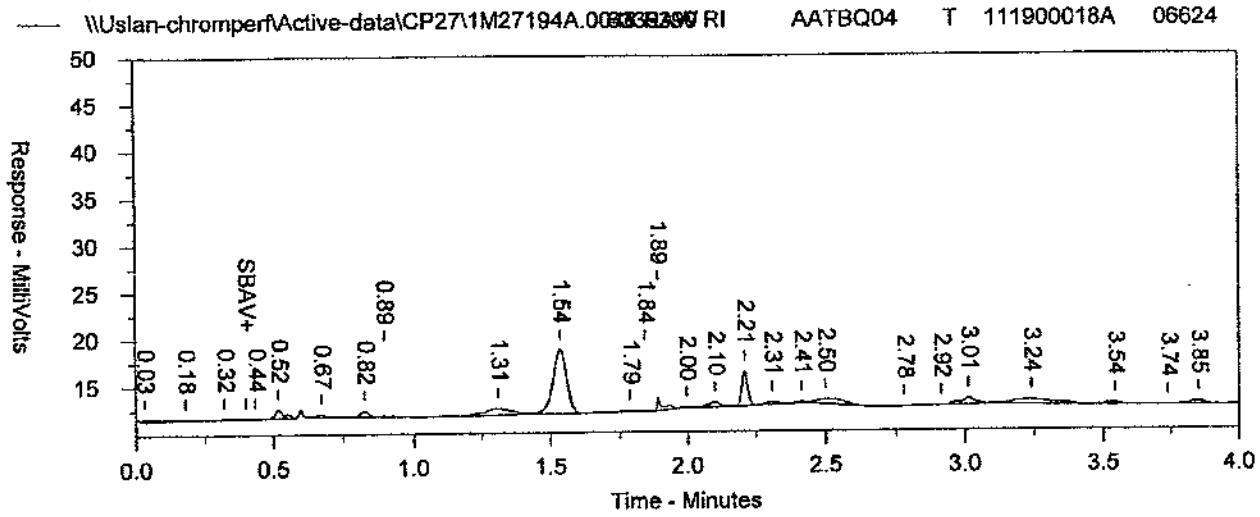
Units: ug/l

Reviewed by: EM 7343 Verified by: _____
Date: 7/18 7/16/11 Date: _____

③ EM 7343
7/16/11

USF03 2149

* Recovery outside QC Limits
Printed on: 7/14/2011 15:04:28



Sample Name = 6339390 RI AATBQ04 T 111900018A 06624

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0048.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/14/2011 6:45:20 AM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.67	102.94	3.700	238	866
Ethanol	0.82	120.51	4.332	619	1208
Acetone	1.54	2558.55	91.968	6783	22929

USP63 2158

Standards Data

USP63 2151

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\1M27187.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\Uslan-chromperf\Active-data\CP27

Number of Entries: 29

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1M27187.0001.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
2	DI H2O	MISC	AA	1M27187.0002.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
3	DI H2O	MISC	AA	1M27187.0003.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
4	DI H2O	MISC	AA	1M27187.0004.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
5	DI H2O	MISC	AA	1M27187.0005.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
6	LLME11132K	ICAL	AA	1M27187.0006.RA\	ata\CP27\LLMB.MET	1	1	1	1	1118699999	
7	LLME21132P	ICAL	AA	1M27187.0007.RA\	ata\CP27\LLMB.MET	1	1	1	2	1118699999	
8	LLME31132X	ICAL	AA	1M27187.0008.RA\	ata\CP27\LLMB.MET	1	1	1	4	1118699999	
9	LLME41132R	ICAL	AA	1M27187.0009.RA\	ata\CP27\LLMB.MET	1	1	1	3	1118699999	
10	LLME51132K	ICAL	AA	1M27187.0010.RA\	ata\CP27\LLMB.MET	1	1	1	5	1118699999	
11	DI H2O	MISC	AA	1M27187.0011.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
12	LLMXX1132H	CCAL	DJ	1M27187.0012.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
13	LLMDX1132L	CCAL	EH	1M27187.0013.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
14	DI H2O	MISC	AA	1M27187.0014.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
15	BLANKA 7/5/11 RI	BLK	AA	1M27187.0015.RA\	ata\CP27\LLMB.MET	10	5	1	0	111820011A	10501
16	LCSA 7/5/11 RI	LCS	AA	1M27187.0016.RA\	ata\CP27\LLMB.MET	10	5	1	0	111820011A	10501
17	6331381R RI	T	AA	1M27187.0017.RA\	ata\CP27\LLMB.MET	10	5	1	0	111820011A	10501
18	6331382R RI	T	AA	1M27187.0018.RA\	ata\CP27\LLMB.MET	10	5	1	0	111820011A	10501
19	6333530 RI	T	AA	1M27187.0019.RA\	ata\CP27\LLMB.MET	10	5	1	0	111820011A	10501
20	6333530MS RI	MS	AA	1M27187.0020.RA\	ata\CP27\LLMB.MET	10	5	1	0	111820011A	10501
21	6333530MSD RI	MSD	AA	1M27187.0021.RA\	ata\CP27\LLMB.MET	10	5	1	0	111820011A	10501
22	6333531 RI	T	AA	1M27187.0022.RA\	ata\CP27\LLMB.MET	10	5	1	0	111820011A	10501
23	DI H2O	MISC	AA	1M27187.0023.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	
24	BLANKA 7/6/11	BLK	AA	1M27187.0024.RA\	ata\CP27\LLMB.MET	1	1	1	0	111810020A	06624
25	LCSA 7/6/11	LCS	AA	1M27187.0025.RA\	ata\CP27\LLMB.MET	1	1	1	0	111810020A	06624
26	6332115	T	AA	1M27187.0026.RA\	ata\CP27\LLMB.MET	1	1	1	0	111810020A	06624
27	6332115MS	MS	AA	1M27187.0027.RA\	ata\CP27\LLMB.MET	1	1	1	0	111810020A	06624
28	6332115MSD	MSD	AA	1M27187.0028.RA\	ata\CP27\LLMB.MET	1	1	1	0	111810020A	06624
29	LLME31132X	CCAL	WI	1M27187.0029.RA\	ata\CP27\LLMB.MET	1	1	1	0	1118699999	

USF03 2152

Set-up by: Tracy A. Cole Date: 7-7-11

7/7/2011

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\1m27188a.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\Uslan-chromperf\Active-data\CP27

Number of Entries: 33

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1m27188a.0001.R/	LLM.MET	1	1	1	0	1118799999	
2	CONDITIONER	MISC	AA	1m27188a.0002.R/	LLM.MET	1	1	1	0	1118799999	
3	CONDITIONER	MISC	AA	1m27188a.0003.R/	LLM.MET	1	1	1	0	1118799999	
4	CONDITIONER	MISC	AA	1m27188a.0004.R/	LLM.MET	1	1	1	0	1118799999	
5	CONDITIONER	MISC	AA	1m27188a.0005.R/	LLM.MET	1	1	1	0	1118799999	
6	CONDITIONER	MISC	AA	1m27188a.0006.R/	LLM.MET	1	1	1	0	1118799999	
7	CONDITIONER	MISC	AA	1m27188a.0007.R/	LLM.MET	1	1	1	0	1118799999	
8	DI WATER	MISC	AA	1m27188a.0008.R/	LLM.MET	1	1	1	0	1118799999	
9	DI WATER	MISC	AA	1m27188a.0009.R/	LLM.MET	1	1	1	0	1118799999	
10	DI WATER	MISC	AA	1m27188a.0010.R/	LLM.MET	1	1	1	0	1118799999	
11	DI WATER	MISC	AA	1m27188a.0011.R/	LLM.MET	1	1	1	0	1118799999	
12	LLME11132K	ICAL	AA	1m27188a.0012.R/	LLM.MET	1	1	1	1	1118799999	
13	LLME21132P	ICAL	AA	1m27188a.0013.R/	LLM.MET	1	1	1	2	1118799999	
14	LLME31132X	ICAL	AA	1m27188a.0014.R/	LLM.MET	1	1	1	3	1118799999	
15	LLME41132R	ICAL	AA	1m27188a.0015.R/	LLM.MET	1	1	1	4	1118799999	
16	LLME51132K	ICAL	AA	1m27188a.0016.R/	LLM.MET	1	1	1	5	1118799999	
17	DI WATER	MISC	AA	1m27188a.0017.R/	LLM.MET	1	1	1	0	1118799999	
18	LLMDX1132L	CCAL	EI	1m27188a.0018.R/	LLM.MET	1	1	1	0	1118799999	
19	LLMXX1132H	CCAL	DK	1m27188a.0019.R/	LLM.MET	1	1	1	0	1118799999	
20	DI WATER	MISC	AA	1m27188a.0020.R/	LLM.MET	1	1	1	0	1118799999	
21	BLANKA 7/5/11 RI	BLK	AA	1m27188a.0021.R/	LLM.MET	10	5	1	0	111820011A	10501
22	LCSA 7/5/11 RI	LCS	AA	1m27188a.0022.R/	LLM.MET	10	5	1	0	111820011A	10501
23	6333530 RI	T	AA	1m27188a.0023.R/	LLM.MET	10	5	1	0	111820011A	10501
24	6333530MS RI	MS	AA	1m27188a.0024.R/	LLM.MET	10	5	1	0	111820011A	10501
25	6333530MSD RI	MSD	AA	1m27188a.0025.R/	LLM.MET	10	5	1	0	111820011A	10501
26	6333531 RI	T	AA	1m27188a.0026.R/	LLM.MET	10	5	1	0	111820011A	10501
27	DI WATER	MISC	AA	1m27188a.0027.R/	LLM.MET	1	1	1	0	1118799999	
28	BLANKA 7/6/11 RI	BLK	AA	1m27188a.0028.R/	LLM.MET	1	1	1	0	111810020A	06624
29	LCSA 7/6/11 RI	LCS	AA	1m27188a.0029.R/	LLM.MET	1	1	1	0	111810020A	06624
30	6332115 RI	T	AA	1m27188a.0030.R/	LLM.MET	1	1	1	0	111810020A	06624
31	6332115MS RI	MS	AA	1m27188a.0031.R/	LLM.MET	1	1	1	0	111810020A	06624
32	6332115MSD RI	MSD	AA	1m27188a.0032.R/	LLM.MET	1	1	1	0	111810020A	06624
33	LLME31132X	CCAL	WN	1m27188a.0033.R/	LLM.MET	1	1	1	0	1118799999	

USF03 2153

Set-up by: D2268 Date: 7/6/11

7/8/2011

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\3m27187.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\Uslan-chromperf\Active-data\CP27

Number of Entries: 71

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	3m27187.0001.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
2	CONDITIONER	MISC	AA	3m27187.0002.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
3	CONDITIONER	MISC	AA	3m27187.0003.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
4	LLME41132R	CCAL	CP	3m27187.0004.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
5	DI WATER	MISC	AA	3m27187.0005.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
6	BLANKA 7/8/11	BLK	AA	3m27187.0006.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
7	DI WATER	MISC	AA	3m27187.0007.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
8	DI WATER	MISC	AA	3m27187.0008.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
9	BLANKA 7/8/11	BLK	AA	3m27187.0009.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
10	BLANKA 7/8/11	BLK	AA	3m27187.0010.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
11	LCSA 7/8/11	LCS	AA	3m27187.0011.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
12	6303214	T	AA	3m27187.0012.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
13	6303215	T	AA	3m27187.0013.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
14	6303216	T	AA	3m27187.0014.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
15	6303217	T	AA	3m27187.0015.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
16	6303218	T	AA	3m27187.0016.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
17	6303219	T	AA	3m27187.0017.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
18	6333317	T	AA	3m27187.0018.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
19	6333317MS	MS	AA	3m27187.0019.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
20	6333317MSD	MSD	AA	3m27187.0020.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
21	6336237	T	AA	3m27187.0021.RA'	TA\CP27\LLMB.MET	1	1	1	0	111870032A	06624
22	LLME41132R	CCAL	CQ	3m27187.0022.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
23	DI WATER	MISC	AA	3m27187.0023.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
24	BLANKA 7/8/11 RI	BLK	AA	3m27187.0024.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
25	LCSA 7/8/11	LCS	AA	3m27187.0025.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
26	LCSDA 7/8/11	LCSD	AA	3m27187.0026.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
27	6338251	T	AA	3m27187.0027.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
28	6338253	T	AA	3m27187.0028.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
29	6338254MS	MS	AA	3m27187.0029.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
30	6338255MSD	MSD	AA	3m27187.0030.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
31	6338260	T	AA	3m27187.0031.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
32	6338262	T	AA	3m27187.0032.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
33	6338265	T	AA	3m27187.0033.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
34	LLME41132R	CCAL	CQ	3m27187.0034.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
35	DI WATER	MISC	AA	3m27187.0035.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
36	BLANKA 7/8/11	BLK	AA	3m27187.0036.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
37	LCSA 7/8/11	LCS	AA	3m27187.0037.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
38	6335826	T	AA	3m27187.0038.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
39	6335827	T	AA	3m27187.0039.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
40	6335827MS	MS	AA	3m27187.0040.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
41	6335827MSD	MSD	AA	3m27187.0041.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
42	6335828	T	AA	3m27187.0042.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
43	6335829	T	AA	3m27187.0043.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
44	6337086	T	AA	3m27187.0044.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
45	6337087	T	AA	3m27187.0045.RA'	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
46	LLME41132R	CCAL	CR	3m27187.0046.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
47	CONDITIONER	MISC	AA	3m27187.0047.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
48	CONDITIONER	MISC	AA	3m27187.0048.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
49	CONDITIONER	MISC	AA	3m27187.0049.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	
50	CONDITIONER	MISC	AA	3m27187.0050.RA'	TA\CP27\LLMB.MET	1	1	1	0	1118899999	

USF83 2154

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\3m27187.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\Uslan-chromperf\Active-data\CP27

Number of Entries: 71

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51	LLME41132R	CCAL	CS	3m27187.0051.RA1	TA\CP27\LLMB.MET	1	1	1	0	1118999999	
52	DI WATER	MISC	AA	3m27187.0052.RA1	TA\CP27\LLMB.MET	1	1	1	0	1118999999	
53	DI WATER	MISC	AA	3m27187.0053.RA1	TA\CP27\LLMB.MET	1	1	1	0	1118999999	
54	6338260 RI	T	AA	3m27187.0054.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890013A	10501
55	BLANKA 7/8/11 RI	BLK	AA	3m27187.0055.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
56	LCSA 7/8/11 RI	LCS	AA	3m27187.0056.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
57	6335826 RI	T	AA	3m27187.0057.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
58	6335827 RI	T	AA	3m27187.0058.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
59	6335827MS RI	MS	AA	3m27187.0059.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
60	6335827MSD RI	MSD	AA	3m27187.0060.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
61	6335828 RI	T	AA	3m27187.0061.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
62	6335829 RI	T	AA	3m27187.0062.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
63	6337086 RI	T	AA	3m27187.0063.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
64	6337087 RI	T	AA	3m27187.0064.RA1	TA\CP27\LLMB.MET	10	5	1	0	111890012A	10501
65	BLANKA 7/9/11	BLK	AA	3m27187.0065.RA1	TA\CP27\LLMB.MET	10	5	1	0	111900017A	10501
66	LCSA 7/9/11	LCS	AA	3m27187.0066.RA1	TA\CP27\LLMB.MET	10	5	1	0	111900017A	10501
67	LCSDA 7/9/11	LCSD	AA	3m27187.0067.RA1	TA\CP27\LLMB.MET	10	5	1	0	111900017A	10501
68	6339376	T	AA	3m27187.0068.RA1	TA\CP27\LLMB.MET	10	5	1	0	111900017A	10501
69	6339385	T	AA	3m27187.0069.RA1	TA\CP27\LLMB.MET	10	5	1	0	111900017A	10501
70	6339387	T	AA	3m27187.0070.RA1	TA\CP27\LLMB.MET	10	5	1	0	111900017A	10501
71	LLME41132R	CCAL	CT	3m27187.0071.RA1	TA\CP27\LLMB.MET	1	1	1	0	1118999999	

USTEC 2155

Set-up by: EM 7343 Date: 7/12/11

7/11/2011

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\2M27188A.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\Uslan-chromperf\Active-data\CP27

Number of Entries: 32

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	2M27188A.0001.R	ATA\CP27\LLM.MET	1	1	1	0	1119199999	
2	CONDITIONER	MISC	AA	2M27188A.0002.R	ATA\CP27\LLM.MET	1	1	1	0	1119199999	
3	CONDITIONER	MISC	AA	2M27188A.0003.R	ATA\CP27\LLM.MET	1	1	1	0	1119199999	
4	LLME31132X	CCAL	WO	2M27188A.0004.R	ATA\CP27\LLM.MET	1	1	1	0	1119199999	
5	CONDITIONER	MISC	AA	2M27188A.0005.R	ATA\CP27\LLM.MET	1	1	1	0	1119199999	
6	6338262 RI	T	AA	2M27188A.0006.R	ATA\CP27\LLM.MET	10	5	1	0	111890013A	10501
7	BLANKA 7/8/11 RI	BLK	AA	2M27188A.0007.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
8	LCSA 7/8/11 RI	LCS	AA	2M27188A.0008.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
9	6335826 RI	T	AA	2M27188A.0009.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
10	6335827 RI	T	AA	2M27188A.0010.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
11	6335827MS RI	MS	AA	2M27188A.0011.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
12	6335827MSD RI	MSD	AA	2M27188A.0012.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
13	6335828 RI	T	AA	2M27188A.0013.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
14	6335829 RI	T	AA	2M27188A.0014.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
15	6337086 RI	T	AA	2M27188A.0015.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
16	6337087 RI	T	AA	2M27188A.0016.R	ATA\CP27\LLM.MET	10	5	1	0	111890012A	10501
17	BLANKA 7/9/11 RI	BLK	AA	2M27188A.0017.R	ATA\CP27\LLM.MET	10	5	1	0	111900017A	10501
18	LCSA 7/9/11 RI	LCS	AA	2M27188A.0018.R	ATA\CP27\LLM.MET	10	5	1	0	111900017A	10501
19	LCSDA 7/9/11 RI	LCSD	AA	2M27188A.0019.R	ATA\CP27\LLM.MET	10	5	1	0	111900017A	10501
20	6339376 RI	T	AA	2M27188A.0020.R	ATA\CP27\LLM.MET	10	5	1	0	111900017A	10501
21	6339385 RI	T	AA	2M27188A.0021.R	ATA\CP27\LLM.MET	10	5	1	0	111900017A	10501
22	6339387 RI	T	AA	2M27188A.0022.R	ATA\CP27\LLM.MET	10	5	1	0	111900017A	10501
23	LLME31132X	CCAL	WP	2M27188A.0023.R	ATA\CP27\LLM.MET	1	1	1	0	1119199999	
24	CCWE31132E	CCAL	HY	2M27188A.0024.R	CCW.MET	1	1	1	0	1119199999	
25	DI WATER	MISC	AA	2M27188A.0025.R	CCW.MET	1	1	1	0	1119199999	
26	BLANKA 7/11/11	BLK	AA	2M27188A.0026.R	CCW.MET	5	5	1	0	111920016A	00969
27	LCSA 7/11/11	LCS	AA	2M27188A.0027.R	CCW.MET	5	5	1	0	111920016A	00969
28	DI WATER	MISC	AA	2M27188A.0028.R	CCW.MET	1	1	1	0	1119199999	
29	6333315	T	AA	2M27188A.0029.R	CCW.MET	5	5	1	0	111920016A	00969
30	6333315MS	MS	AA	2M27188A.0030.R	CCW.MET	5	5	1	0	111920016A	00969
31	6333315MSD	MSD	AA	2M27188A.0031.R	CCW.MET	5	5	1	0	111920016A	00969
32	CCWE31132E	CCAL	HX	2M27188A.0032.R	CCW.MET	1	1	1	0	1119199999	

USF83 2156

Set-up by: EM 2365 Date: 7/12/11

7/11/2011

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\1C27193.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP27

Number of Entries: 42

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1C27193.0001.RA\	.TA\CP27\CCW.MET	1	1	1	0	1119299999	
2	CONDITIONER	MISC	AA	1C27193.0002.RA\	.TA\CP27\CCW.MET	1	1	1	0	1119299999	
3	CCWE11132D	ICAL	AA	1C27193.0003.RA\	.TA\CP27\CCW.MET	1	1	1	1	1119299999	
4	CCWE21132D	ICAL	AA	1C27193.0004.RA\	.TA\CP27\CCW.MET	1	1	1	2	1119299999	
5	CCWE31132F	ICAL	AA	1C27193.0005.RA\	.TA\CP27\CCW.MET	1	1	1	3	1119299999	
6	CCWE41132D	ICAL	AA	1C27193.0006.RA\	.TA\CP27\CCW.MET	1	1	1	4	1119299999	
7	CCWE51132D	ICAL	AA	1C27193.0007.RA\	.TA\CP27\CCW.MET	1	1	1	5	1119299999	
8	DI WATER	misc	AA	1C27193.0008.RA\	.TA\CP27\CCW.MET	1	1	1	0	1119299999	
9	CCWXX1132B	CCAL	AR	1C27193.0009.RA\	.TA\CP27\CCW.MET	1	1	1	0	1119299999	
10	DI WATER	misc	AA	1C27193.0010.RA\	.TA\CP27\CCW.MET	1	1	1	0	1119299999	
11	BLANKA 7/11/11 RI	BLK	AA	1C27193.0011.RA\	.TA\CP27\CCW.MET	5	5	1	0	111920016A	00969
12	LCSA 7/11/11 RI	LCS	AA	1C27193.0012.RA\	.TA\CP27\CCW.MET	5	5	1	0	111920016A	00969
13	6333315 RI	T	AA	1C27193.0013.RA\	.TA\CP27\CCW.MET	5	5	1	0	111920016A	00969
14	6333315MS RI	MS	AA	1C27193.0014.RA\	.TA\CP27\CCW.MET	5	5	1	0	111920016A	00969
15	6333315MSD RI	MSD	AA	1C27193.0015.RA\	.TA\CP27\CCW.MET	5	5	1	0	111920016A	00969
16	CCWE31132F	ICAL	AA	1C27193.0016.RA\	.TA\CP27\CCW.MET	1	1	1	3	1119299999	
17	LLME31132Y	CCAL	WS	1C27193.0017.RA\	ATA\CP27\LLM.MET	1	1	1	0	1119299999	
18	DI WATER	MISC	AA	1C27193.0018.RA\	ATA\CP27\LLM.MET	1	1	1	0	1119299999	
19	BLANKA 7/12/11	BLK	AA	1C27193.0019.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
20	LCSA 7/12/11	LCS	AA	1C27193.0020.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
21	6336622	T	AA	1C27193.0021.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
22	6336623	T	AA	1C27193.0022.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
23	6337192	T	AA	1C27193.0023.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
24	6337192MS	MS	AA	1C27193.0024.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
25	6337192MSD	MSD	AA	1C27193.0025.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
26	6337196	T	AA	1C27193.0026.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
27	6338943	T	AA	1C27193.0027.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
28	6338944	T	AA	1C27193.0028.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
29	6338945	T	AA	1C27193.0029.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
30	6339516	T	AA	1C27193.0030.RA\	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
31	BLANKA 7/12/11	BLK	AA	1C27193.0031.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
32	LCSA 7/12/11	LCS	AA	1C27193.0032.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
33	LCSDA 7/12/11	LCSD	AA	1C27193.0033.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
34	6338266	T	AA	1C27193.0034.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
35	6338267	T	AA	1C27193.0035.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
36	6338269	T	AA	1C27193.0036.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
37	6338269MS	MS	AA	1C27193.0037.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
38	6338269MSD	MSD	AA	1C27193.0038.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
39	6339388	T	AA	1C27193.0039.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
40	6339389	T	AA	1C27193.0040.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
41	6339390	T	AA	1C27193.0041.RA\	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
42	LLME31132Y	CCAL	WT	1C27193.0042.RA\	ATA\CP27\LLM.MET	1	1	1	0	1119299999	

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Set-up by: EM 1343 Date: 7/19/11

7/19/2011

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\1M27194A.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP27

Number of Entries: 66

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	1M27194A.0001.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
2	CONDITIONER	MISC	AA	1M27194A.0002.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
3	CONDITIONER	MISC	AA	1M27194A.0003.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
4	LLME11132L	ICAL	AA	1M27194A.0004.R	ATA\CP27\LLM.MET	1	1	1	1	1119399999	
5	LLME21132Q	ICAL	AA	1M27194A.0005.R	ATA\CP27\LLM.MET	1	1	1	2	1119399999	
6	LLME31132Z	ICAL	AA	1M27194A.0006.R	ATA\CP27\LLM.MET	1	1	1	3	1119399999	
7	LLME41132S	ICAL	AA	1M27194A.0007.R	ATA\CP27\LLM.MET	1	1	1	4	1119399999	
8	LLME51132L	ICAL	AA	1M27194A.0008.R	ATA\CP27\LLM.MET	1	1	1	5	1119399999	
9	DI WATER	MISC	AA	1M27194A.0009.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
10	LLMDX1132L	CCAL	EJ	1M27194A.0010.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
11	LLMXX1132I	CCAL	DL	1M27194A.0011.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
12	DI WATER	MISC	AA	1M27194A.0012.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
13	BLANKA 7/13/11	BLK	AA	1M27194A.0013.R	ATA\CP27\LLM.MET	10	5	1	0	111940029A	10501
14	MDL1 7/13/11	MDL	AA	1M27194A.0014.R	ATA\CP27\LLM.MET	10	10	1	0	111940029A	10501
15	LCSA 7/13/11	LCS	AA	1M27194A.0015.R	ATA\CP27\LLM.MET	10	5	1	0	111940029A	10501
16	LCSDA 7/13/11	LCSD	AA	1M27194A.0016.R	ATA\CP27\LLM.MET	10	5	1	0	111940029A	10501
17	6338251R	T	AA	1M27194A.0017.R	ATA\CP27\LLM.MET	11.5	5	1	0	111940029A	10501
18	6338253R	T	AA	1M27194A.0018.R	ATA\CP27\LLM.MET	5	2.5	1	0	111940029A	10501
19	6338254RMS	MS	AA	1M27194A.0019.R	ATA\CP27\LLM.MET	5	2.5	1	0	111940029A	10501
20	6338255RMSD	MSD	AA	1M27194A.0020.R	ATA\CP27\LLM.MET	5	2.5	1	0	111940029A	10501
21	6338260R	T	AA	1M27194A.0021.R	ATA\CP27\LLM.MET	10	5	1	0	111940029A	10501
22	6338262R	T	AA	1M27194A.0022.R	ATA\CP27\LLM.MET	10.5	5	1	0	111940029A	10501
23	6338265R	T	AA	1M27194A.0023.R	ATA\CP27\LLM.MET	10	5	1	0	111940029A	10501
24	BLANKA 7/13/11	BLK	AA	1M27194A.0024.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
25	LCSA 7/13/11	LCS	AA	1M27194A.0025.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
26	6340791	T	AA	1M27194A.0026.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
27	6340792	T	AA	1M27194A.0027.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
28	6340793	T	AA	1M27194A.0028.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
29	6340795	T	AA	1M27194A.0029.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
30	6340796	T	AA	1M27194A.0030.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
31	6340797MS	MS	AA	1M27194A.0031.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
32	6340798MSD	MSD	AA	1M27194A.0032.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
33	6340800	T	AA	1M27194A.0033.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
34	6340801	T	AA	1M27194A.0034.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
35	6340802	T	AA	1M27194A.0035.R	ATA\CP27\LLM.MET	10	5	1	0	111930030A	10501
36	LLME41132S	CCAL	CU	1M27194A.0036.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
37	DI WATER	MISC	AA	1M27194A.0037.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
38	BLANKA 7/12/11 RI	BLK	AA	1M27194A.0038.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
39	LCSA 7/12/11 RI	LCS	AA	1M27194A.0039.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
40	LCSDA 7/12/11 RI	LCSD	AA	1M27194A.0040.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
41	6338266 RI	T	AA	1M27194A.0041.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
42	6338267 RI	T	AA	1M27194A.0042.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
43	6338269 RI	T	AA	1M27194A.0043.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
44	6338269MS RI	MS	AA	1M27194A.0044.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
45	6338269MSD RI	MSD	AA	1M27194A.0045.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
46	6339388 RI	T	AA	1M27194A.0046.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
47	6339389 RI	T	AA	1M27194A.0047.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
48	6339390 RI	T	AA	1M27194A.0048.R	ATA\CP27\LLM.MET	1	1	1	0	111900018A	06624
49	LLME41132S	CCAL	CV	1M27194A.0049.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
50	DI WATER	MISC	AA	1M27194A.0050.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\1M27194A.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP27

Number of Entries: 66

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51	BLANKA 7/12/11 RI	BLK	AA	1M27194A.0051.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
52	LCSA 7/12/11 RI	LCS	AA	1M27194A.0052.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
53	6339516 RI	T	AA	1M27194A.0053.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
54	6336622 RI	T	AA	1M27194A.0054.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
55	6336623 RI	T	AA	1M27194A.0055.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
56	6337192 RI	T	AA	1M27194A.0056.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
57	6337192MS RI	MS	AA	1M27194A.0057.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
58	6337192MSD RI	MSD	AA	1M27194A.0058.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
59	6337196 RI	T	AA	1M27194A.0059.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
60	6338943 RI	T	AA	1M27194A.0060.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
61	6338944 RI	T	AA	1M27194A.0061.R	ATA\CP27\LLM.MET	1	1	1	0	111930028A	06624
62	6338945DF10	T	AB	1M27194A.0062.R	ATA\CP27\LLM.MET	1	10	1	0	111930028A	06624
63	DI WATER	MISC	AA	1M27194A.0063.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
64	DI WATER	MISC	AA	1M27194A.0064.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
65	DI WATER	MISC	AA	1M27194A.0065.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	
66	LLME41132S	CCAL	CW	1M27194A.0066.R	ATA\CP27\LLM.MET	1	1	1	0	1119399999	

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Set-up by: EM 1343 Date: 7/19/11

7/19/2011

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\5M27187.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\Uslan-chromperf\Active-data\CP27

Number of Entries: 71

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	MISC	AA	5M27187.0001.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
2	CONDITIONER	MISC	AA	5M27187.0002.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
3	CONDITIONER	MISC	AA	5M27187.0003.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
4	LLME31132Z	CCAL	WV	5M27187.0004.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
5	DI WATER	MISC	AA	5M27187.0005.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
6	BLANKA 7/13/11	BLK	AA	5M27187.0006.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
7	LCSA 7/13/11	LCS	AA	5M27187.0007.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
8	6341428	T	AA	5M27187.0008.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
9	6341429MS	MS	AA	5M27187.0009.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
10	6341430MSD	MSD	AA	5M27187.0010.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
11	6341431	T	AA	5M27187.0011.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
12	6341432	T	AA	5M27187.0012.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
13	6341433	T	AA	5M27187.0013.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
14	6341434	T	AA	5M27187.0014.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
15	6341435	T	AA	5M27187.0015.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
16	6341436	T	AA	5M27187.0016.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
17	6341437	T	AA	5M27187.0017.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
18	6341438	T	AA	5M27187.0018.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
19	6341439	T	AA	5M27187.0019.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
20	6341440	T	AA	5M27187.0020.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
21	6341441	T	AA	5M27187.0021.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
22	6341442	T	AA	5M27187.0022.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
23	6341443	T	AA	5M27187.0023.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
24	6341444	T	AA	5M27187.0024.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
25	6341445	T	AA	5M27187.0025.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
26	6341446	T	AA	5M27187.0026.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930031A	06624
27	LLME31132Z	CCAL	WW	5M27187.0027.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
28	DI WATER	MISC	AA	5M27187.0028.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
29	BLANKA 7/14/11	BLK	AA	5M27187.0029.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
30	LCSA 7/14/11	LCS	AA	5M27187.0030.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
31	LCSDA 7/14/11	LCSD	AA	5M27187.0031.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
32	6339376R	T	AA	5M27187.0032.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
33	6339385R	T	AA	5M27187.0033.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
34	6339387R	T	AA	5M27187.0034.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
35	6340961	T	AA	5M27187.0035.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
36	6342262	T	AA	5M27187.0036.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
37	6342264	T	AA	5M27187.0037.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
38	6342266	T	AA	5M27187.0038.RA\	TA\CP27\LLMB.MET	11	5	1	0	111940030A	10501
39	6342267MS	MS	AA	5M27187.0039.RA\	TA\CP27\LLMB.MET	11	5	1	0	111940030A	10501
40	6342268MSD	MSD	AA	5M27187.0040.RA\	TA\CP27\LLMB.MET	11	5	1	0	111940030A	10501
41	6342273	T	AA	5M27187.0041.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
42	6342275	T	AA	5M27187.0042.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
43	6342277	T	AA	5M27187.0043.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
44	6342279	T	AA	5M27187.0044.RA\	TA\CP27\LLMB.MET	12	5	1	0	111940030A	10501
45	6343302	T	AA	5M27187.0045.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
46	6343304	T	AA	5M27187.0046.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
47	6343325	T	AA	5M27187.0047.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
48	6343327	T	AA	5M27187.0048.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
49	6343329	T	AA	5M27187.0049.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501
50	6343331	T	AA	5M27187.0050.RA\	TA\CP27\LLMB.MET	10	5	1	0	111940030A	10501

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\Active-data\CP27\5M27187.seq

Chromatography Directory: \\Uslan-chromperf\Active-data\CP27

Method Directory: \\Uslan-chromperf\Active-data\CP27

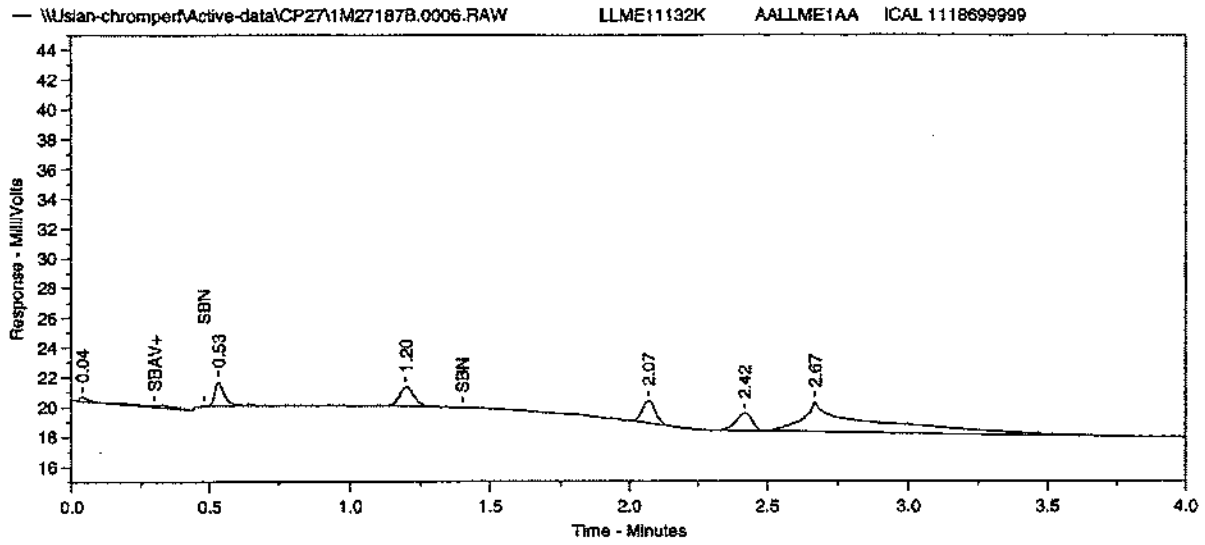
Number of Entries: 71

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51	LLME31132Z	CCAL	WX	5M27187.0051.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
52	DI WATER	MISC	AA	5M27187.0052.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
53	BLANKA 7/13/11 RI	BLK	AA	5M27187.0053.RA\	TA\CP27\LLMB.MET	10	5	1	0	111930030A	10501
54	6340793 RI	T	AA	5M27187.0054.RA\	TA\CP27\LLMB.MET	10	5	1	0	111930030A	10501
55	6340802 RI	T	AA	5M27187.0055.RA\	TA\CP27\LLMB.MET	10	5	1	0	111930030A	10501
56	BLANKA 7/12/11 RI	BLK	AA	5M27187.0056.RA\	TA\CP27\LLMB.MET	1	1	1	0	111900018A	06624
57	LCSA 7/12/11 RI	LCS	AA	5M27187.0057.RA\	TA\CP27\LLMB.MET	1	1	1	0	111900018A	06624
58	LCSDA 7/12/11 RI	LCSD	AA	5M27187.0058.RA\	TA\CP27\LLMB.MET	1	1	1	0	111900018A	06624
59	6338267 RI	T	AA	5M27187.0059.RA\	TA\CP27\LLMB.MET	1	1	1	0	111900018A	06624
60	LLME31132Z	CCAL	WX	5M27187.0060.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
61	DI WATER	MISC	AA	5M27187.0061.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
62	BLANKA 7/12/11 RI	BLK	AA	5M27187.0062.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930028A	06624
63	LCSA 7/12/11 RI	LCS	AA	5M27187.0063.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930028A	06624
64	6339516 RI	T	AA	5M27187.0064.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930028A	06624
65	6336623 RI	T	AA	5M27187.0065.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930028A	06624
66	6338943 RI	T	AA	5M27187.0066.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930028A	06624
67	6338944 RI	T	AA	5M27187.0067.RA\	TA\CP27\LLMB.MET	1	1	1	0	111930028A	06624
68	6338945 RI DF10	T	AB	5M27187.0068.RA\	TA\CP27\LLMB.MET	1	10	1	0	111930028A	06624
69	DI WATER	MISC	AA	5M27187.0069.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
70	DI WATER	MISC	AA	5M27187.0070.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	
71	LLME31132Z	CCAL	WY	5M27187.0071.RA\	TA\CP27\LLMB.MET	1	1	1	0	1119499999	

USF83 2161

Set-up by: EM 7343 Date: 7/15/11

7/15/2011



Sample Name = **LLME11132K** **AALLME1AA** **ICAL 1118699999**

Instrument = CP27
Detector = H2739B

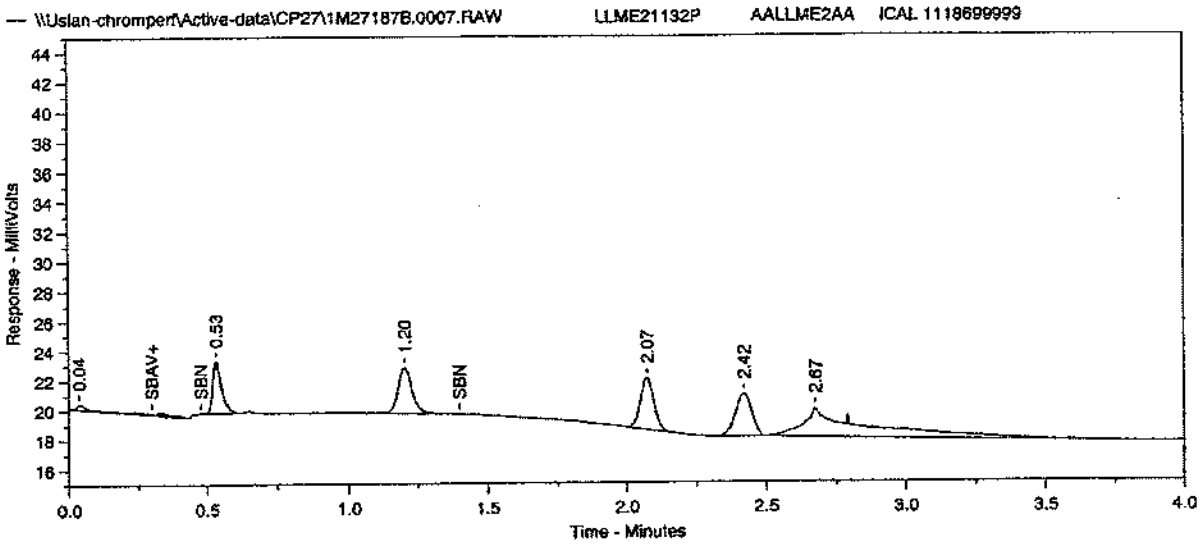
Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1M27187B.0006.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2268

Time injected = 7/6/2011 5:01:15 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.53	1085.03	27.159	1601	4357
Ethanol	1.20	943.90	23.627	1274	4740
Acetone	2.07	1019.23	25.512	1498	5065
Isopropanol	2.42	946.88	23.701	1179	5054

Chrom Perfect Chromatogram Report



Sample Name = **LLME21132P** **AALLME2AA** **ICAL 1118699999**

Instrument = CP27
Detector = H2739B

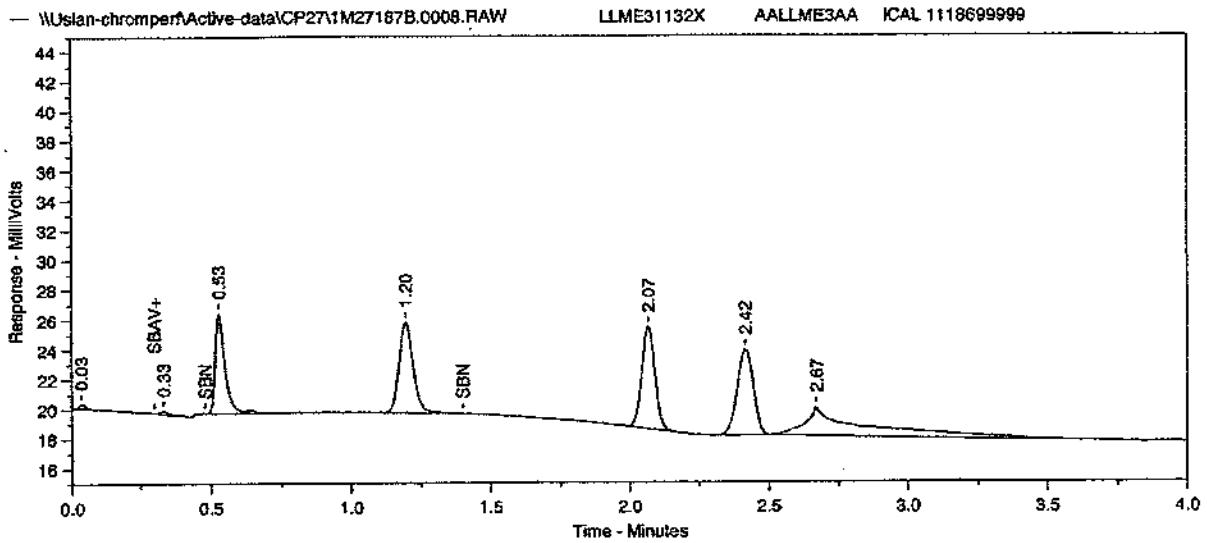
Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1M27187B.0007.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2268

Time injected = 7/6/2011 5:16:12 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.53	2355.20	25.211	3502	7822
Ethanol	1.20	2306.87	24.694	3074	11028
Acetone	2.07	2355.46	25.214	3485	12028
Isopropanol	2.42	2324.38	24.881	2874	11694

Chrom Perfect Chromatogram Report



Sample Name = **LLME31132X** **AALLME3AA** **ICAL 1118699999**

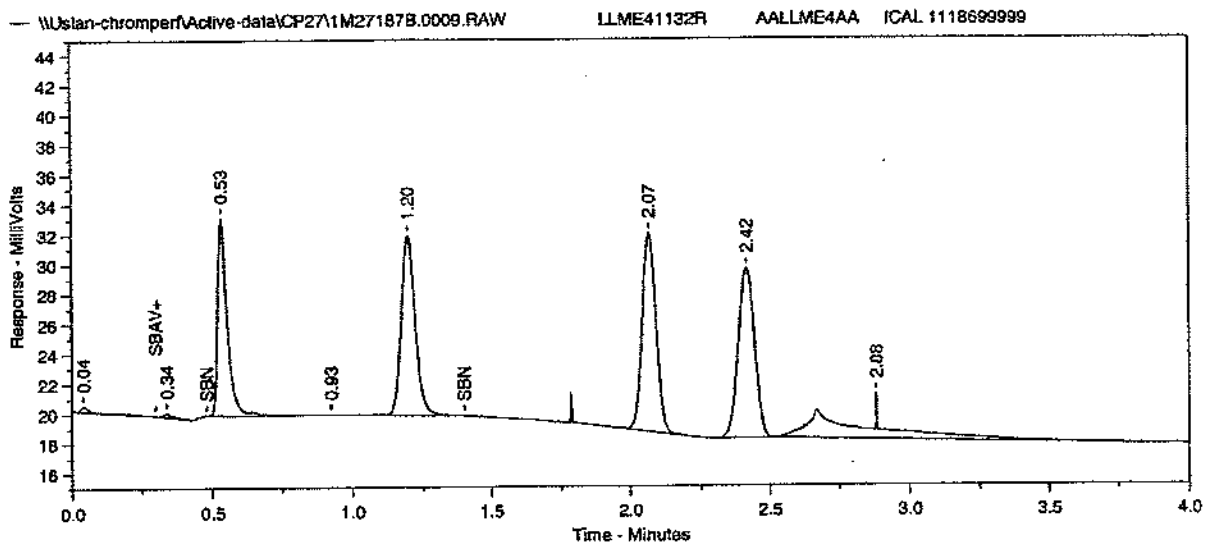
Instrument = CP27
Detector = H2739B

Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1M27187B.0008.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2268

Time injected = 7/6/2011 5:31:10 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.53	4569.11	24.492	6734	17013
Ethanol	1.20	4660.29	24.981	6098	21454
Acetone	2.07	4702.88	25.209	6879	23310
Isopropanol	2.42	4723.07	25.318	5754	23167



Sample Name = **LLME41132R** **AALLME4AA** **ICAL 1118699999**

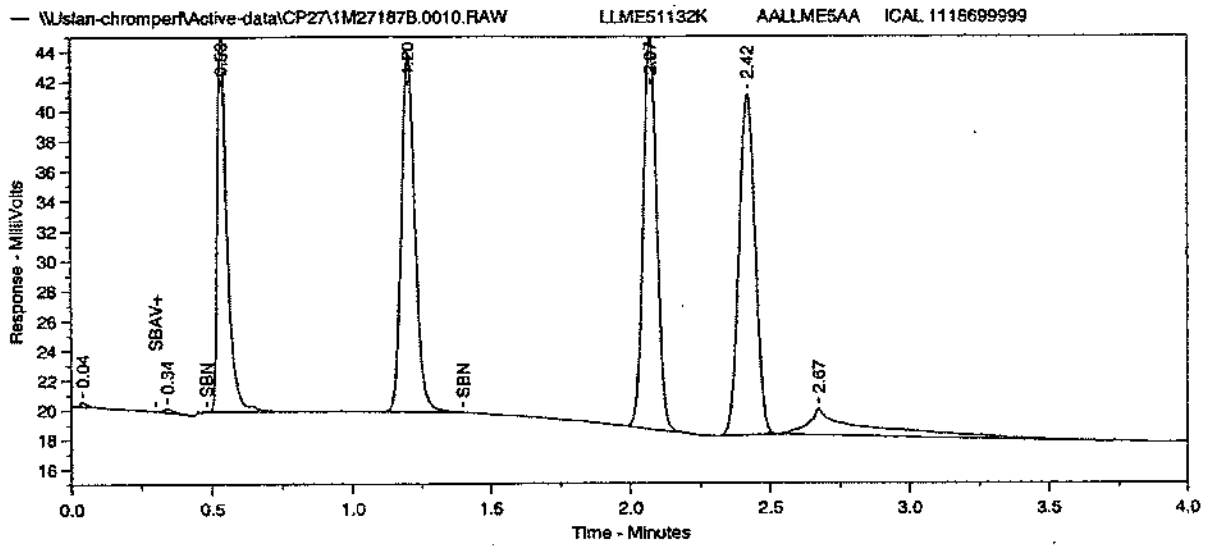
Instrument = CP27
Detector = H2739B

Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1M27187B.0009.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2268

Time Injected = 7/6/2011 5:46:07 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.53	10054.65	24.418	13275	31506
Ethanol	1.20	10417.65	25.300	12117	41832
Acetone	2.07	10178.10	24.718	13378	45270
Isopropanol	2.42	10526.13	25.563	11407	45911



Sample Name = **LLME51132K** **AALLME5AA** **ICAL 1118699999**

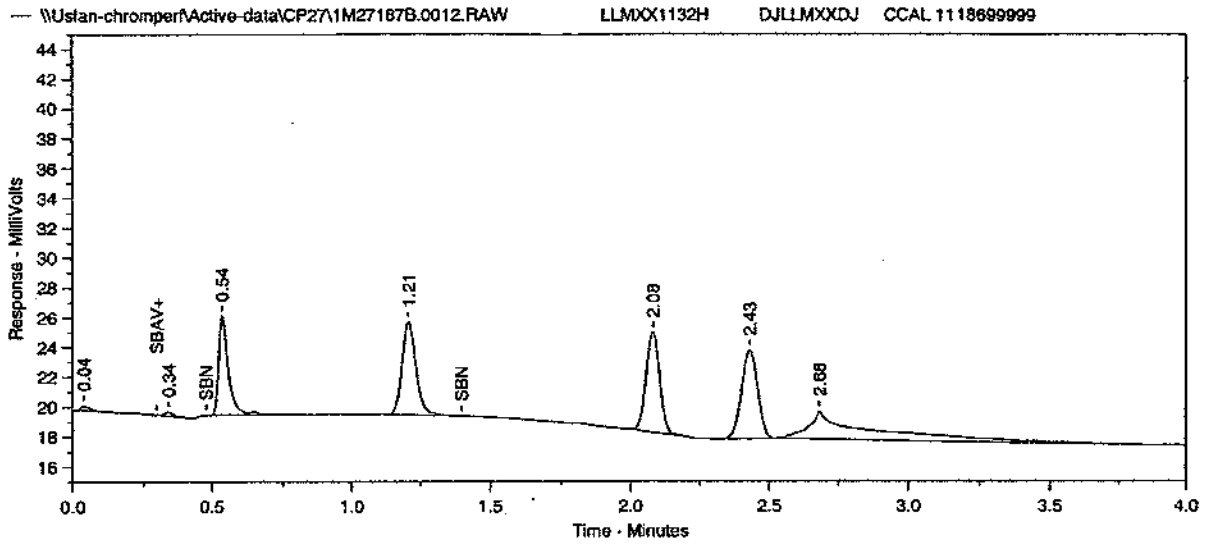
Instrument = CP27
Detector = H2739B

Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1M27187B.0010.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2268

Time injected = 7/6/2011 6:01:04 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.53	16797.17	24.375	26153	62017
Ethanol	1.20	17465.77	25.345	24028	82854
Acetone	2.07	16910.20	24.539	26344	88866
Isopropanol	2.42	17737.74	25.740	22848	91723



Sample Name = **LLMXX1132H** **DJLLMXXDJ** **CCAL 1118699999**

Instrument = CP27
Detector = H2739B

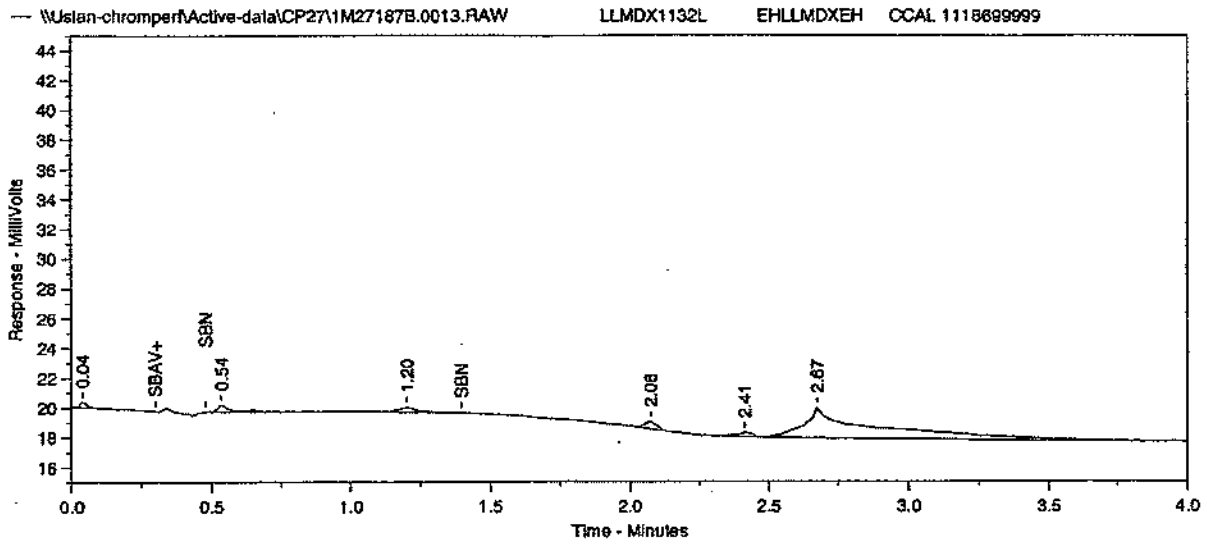
Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1M27187B.0012.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2268

Time injected = 7/6/2011 6:31:05 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	4784.23	24.091	6682	16672
Ethanol	1.21	5098.52	25.674	6257	21955
Acetone	2.08	4841.33	24.379	6703	22933
Isopropanol	2.43	5134.59	25.856	5918	23639

Chrom Perfect Chromatogram Report



Sample Name = **LLMDX1132L EHLLMDXEH CCAL 1118699999**

Instrument = CP27
Detector = H2739B

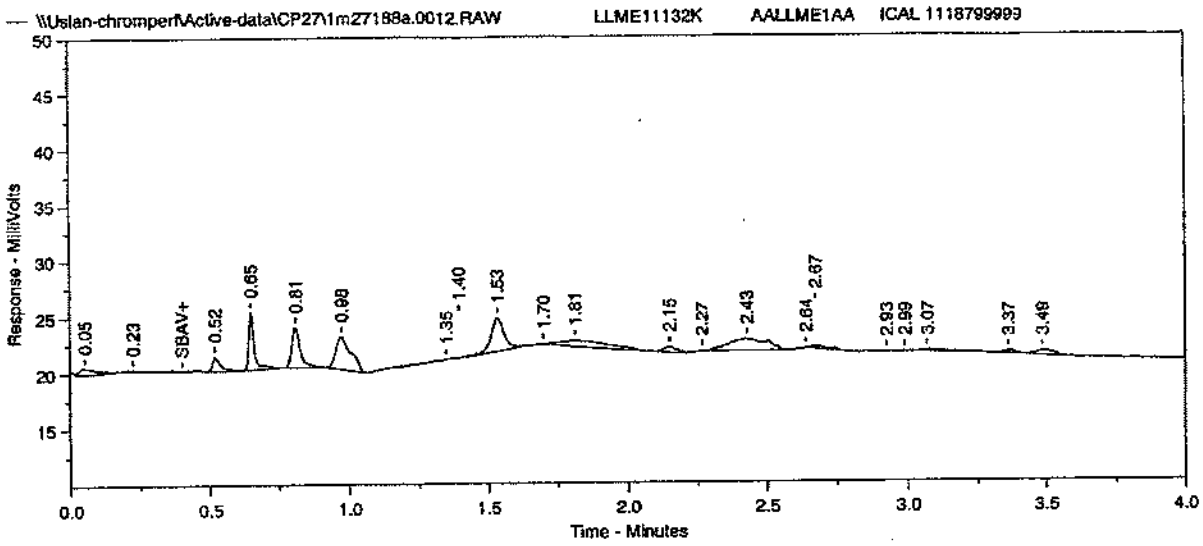
Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1M27187B.0013.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2268

Time Injected = 7/6/2011 6:46:03 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	337.21	28.041	471	2337
Ethanol	1.20	271.67	22.591	333	1820
Acetone	2.08	348.60	28.989	483	1595
Isopropanol	2.41	245.06	20.378	282	1202

Chrom Perfect Chromatogram Report



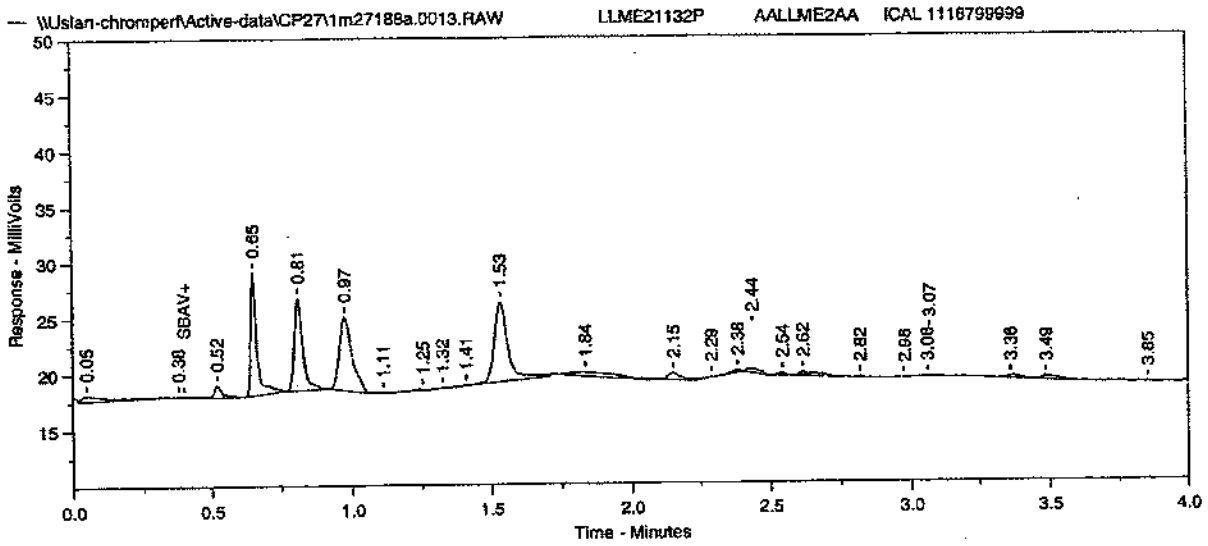
Sample Name = **LLME11132K** **AALLME1AA** **ICAL 1118799999**

Instrument = CP27
Detector = H2739A

Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1m27188a.0012.RAW**
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
Time Injected = 7/7/2011 9:13:20 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	922.76	26.484	5150	7274
Ethanol	0.81	749.23	21.504	3576	7599
Isopropanol	0.98	977.38	28.052	2960	10949
Acetone	1.53	834.84	23.961	3027	10268

Chrom Perfect Chromatogram Report



Sample Name = **LLME21132P** **AALLME2AA** **ICAL 1116799999**

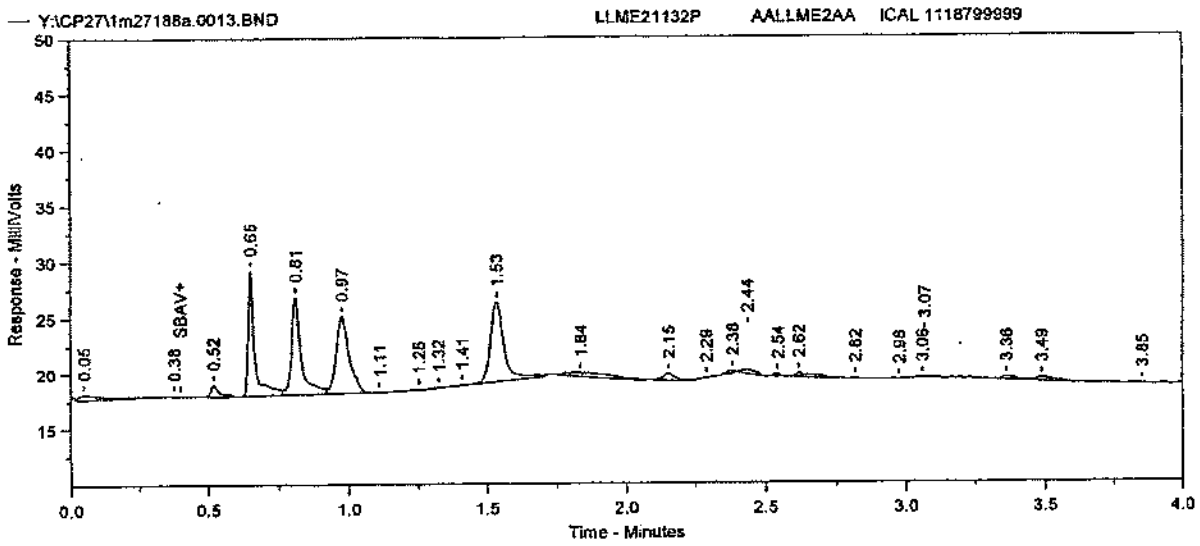
Instrument = CP27
Detector = H2739A

Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1m27188a.0013.RAW**
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
Time Injected = 7/7/2011 9:28:22 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	2226.70	28.016	11188	16809
Ethanol	0.81	1804.95	22.709	8315	17367
Isopropanol	0.97	1884.72	23.713	6679	20750
Acetone	1.53	2031.68	25.562	7158	24075

Not Used
See Remediation

Chrom Perfect Chromatogram Report



Sample Name = **LLME21132P** **AALLME2AA** **ICAL 1118799999**

Instrument = CP27
Detector = H2739A

Raw File Name = **Y:\CP27\1m27188a.0013.RAW**
Method File Name = \\Usian-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

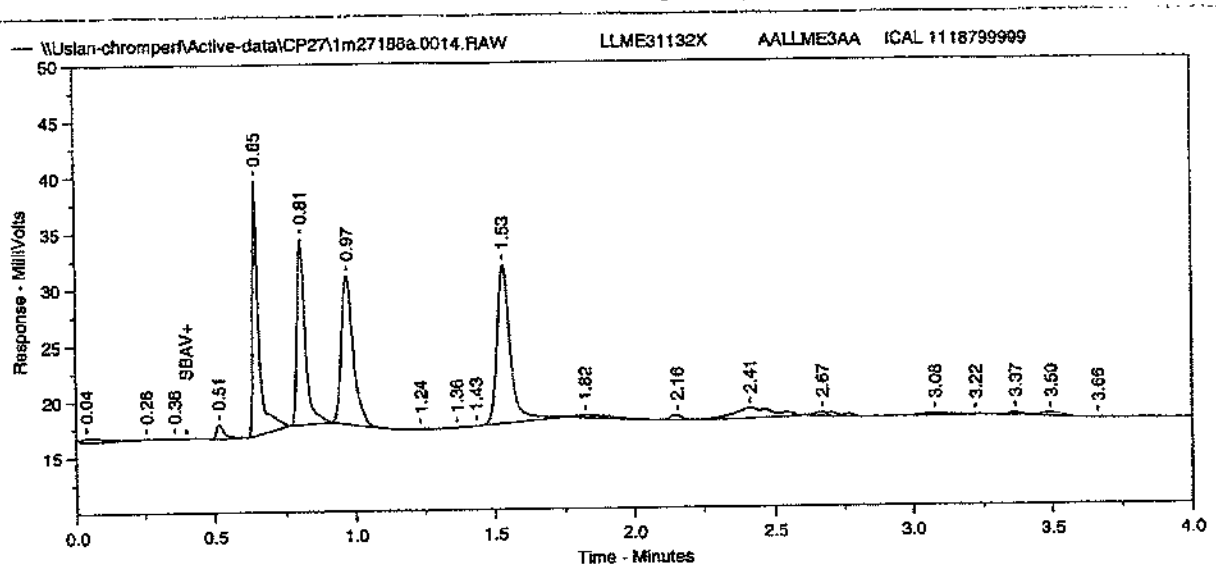
Time Injected = 7/7/2011 9:28:22 PM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area	
Methanol	0.65	2756.02	24.987	11263	18473	M
Ethanol	0.81	3111.65	28.212	8740	21544	M
Isopropanol	0.97	2655.79	24.079	6992	22917	M
Acetone	1.53	2506.17	22.722	7158	24075	

M = Manually Integrated
Analyst [signature] 7/8/11
Approved by [signature]
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USEPA 2171

Chrom Perfect Chromatogram Report



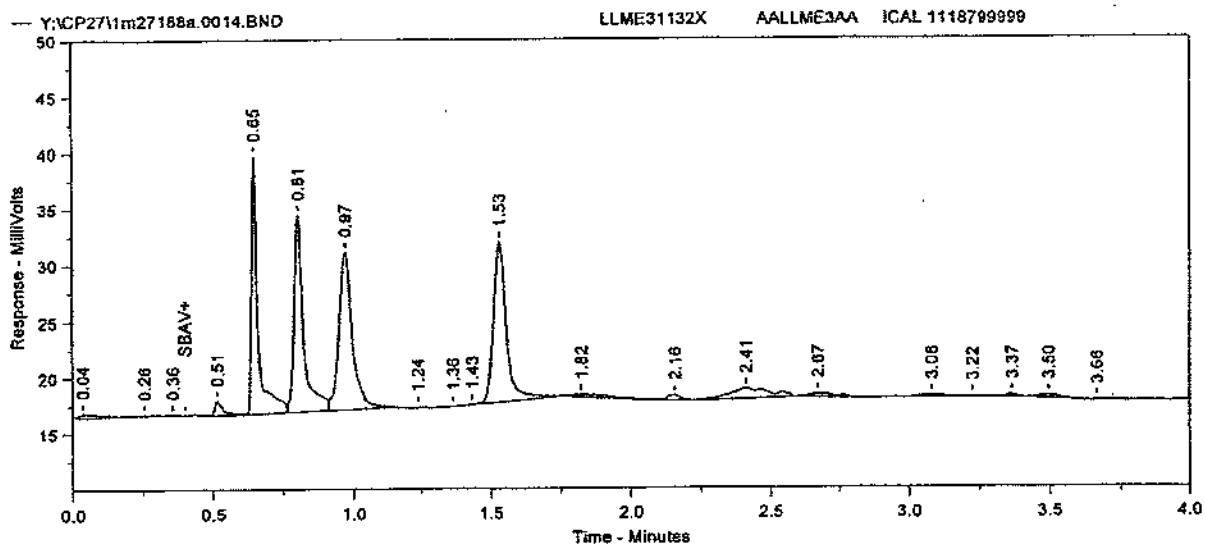
Sample Name = **LLME31132X** **AALLME3AA** **ICAL 1118799999**

Instrument = CP27
Detector = H2739A

Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1m27188a.0014.RAW**
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
Time Injected = 7/7/2011 9:43:18 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	4549.15	27.545	22837	33228
Ethanol	0.81	3840.29	23.253	16621	33965
Isopropanol	0.97	3856.94	23.353	13316	40158
Acetone	1.53	4269.12	25.849	14241	46167

Not Used
See Reinjection



Sample Name = **LLME31132X** **AALLME3AA** **ICAL 1118799999**

Instrument = CP27
Detector = H2739A

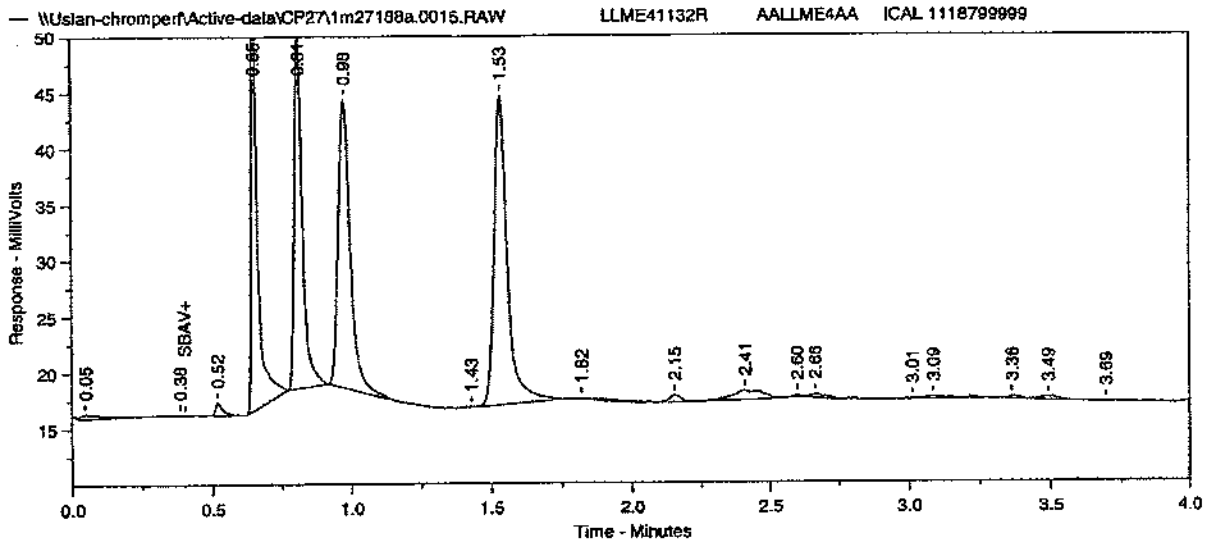
Raw File Name = **Y:\CP27\1m27188a.0014.RAW**
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
Time Injected = 7/7/2011 9:43:18 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area	
Methanol	0.65	5516.83	25.203	23011	36978	M
Ethanol	0.81	6029.18	27.544	17489	41744	M
Isopropanol	0.97	5357.10	24.474	13998	46227	
Acetone	1.53	4986.28	22.779	14241	46167	

M = Manually Integrated
Analyst EM 7/8/11
Approved by
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

USPB3 2173

Chrom Perfect Chromatogram Report



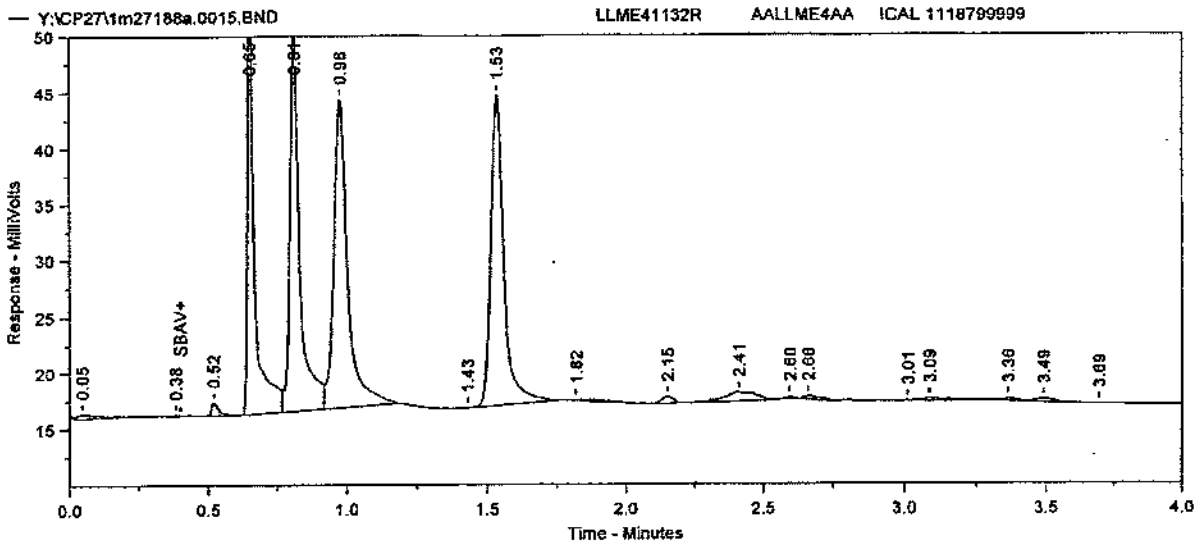
Sample Name = **LLME41132R** **AALLME4AA** **ICAL 1118799999**

Instrument = CP27
Detector = H2739A

Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1m27188a.0015.RAW**
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
Time Injected = 7/7/2011 9:58:07 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	8773.16	26.355	43384	63043
Ethanol	0.81	7948.16	23.876	32054	65252
Isopropanol	0.98	7986.46	23.991	25828	78293
Acetone	1.53	8581.20	25.778	27673	89540

Not Used
See Reintegration



Sample Name = **LLME41132R** **AALLME4AA** **ICAL 1118799999**

Instrument = CP27
Detector = H2739A

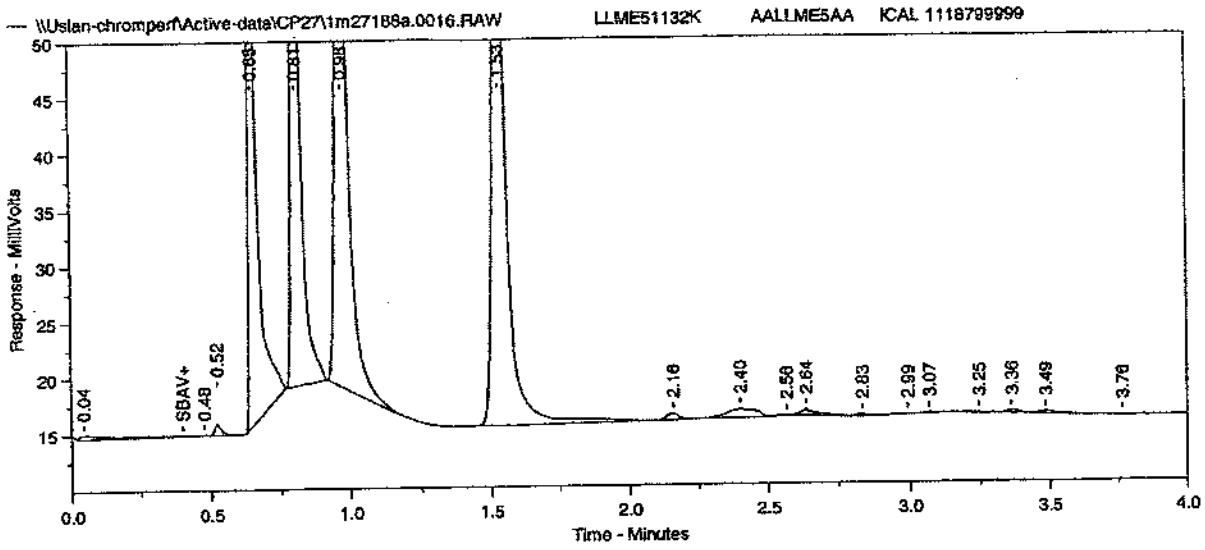
Raw File Name = **Y:\CP27\1m27188a.0015.RAW**
Method File Name = \\Usian-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
Time Injected = 7/7/2011 9:58:07 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area	
Methanol	0.65	10600.98	24.418	43731	71056	M
Ethanol	0.81	12064.10	27.788	34024	83527	M
Isopropanol	0.98	11060.13	25.476	27504	95439	M
Acetone	1.53	9689.05	22.318	27673	89540	

M = Manually Integrated
Analyst m7343 7/8/11
Approved by
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

USFE3 2175

Chrom Perfect Chromatogram Report



Sample Name = **LLME51132K** **AALLME5AA** **ICAL 1118799999**

Instrument = CP27
Detector = H2739A

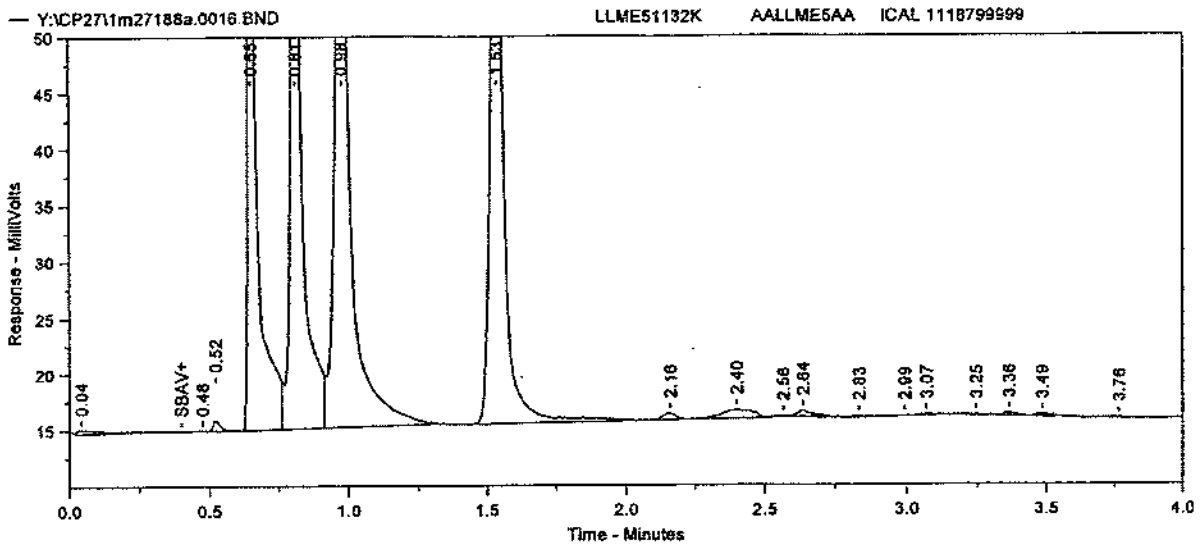
Raw File Name = **\\Uslan-chromperf\Active-data\CP27\1m27188a.0016.RAW**
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
Time Injected = 7/7/2011 10:13:00 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	18763.02	26.010	81879	131327
Ethanol	0.81	17790.89	24.663	62791	135079
Isopropanol	0.98	17491.36	24.248	51855	160702
Acetone	1.53	18091.06	25.079	55501	183787

Not Used
See Reintegration

Printed on 7/7/2011 10:17:07 PM

Chrom Perfect Chromatogram Report



Sample Name = **LLME51132K AALLME5AA ICAL 1118799999**

Instrument = CP27
Detector = H2739A

Raw File Name = **Y:\CP27\1m27188a.0016.RAW**
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268

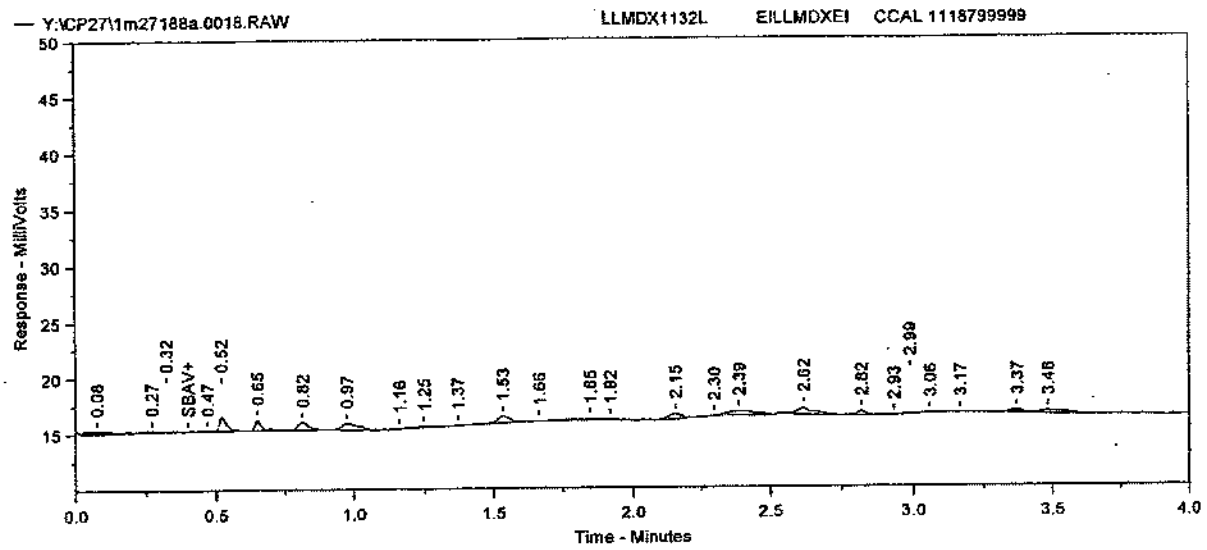
Time Injected = 7/7/2011 10:13:00 PM
Dilution Factor = 1
Peak Threshold = -10

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area	
Methanol	0.65	21855.48	24.064	82628	146493	M
Ethanol	0.81	25133.47	27.674	66910	174014	
Isopropanol	0.98	24399.94	26.866	55652	210550	
Acetone	1.53	19432.29	21.396	55501	183787	

M = Manually Integrated
Analyst [signature] 7/8/11
Approved by [signature]
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USF03 2377



Sample Name = **LLMDX1132L** **EILLMDXEI** **CCAL 1118799999**

Instrument = CP27
Detector = H2739A

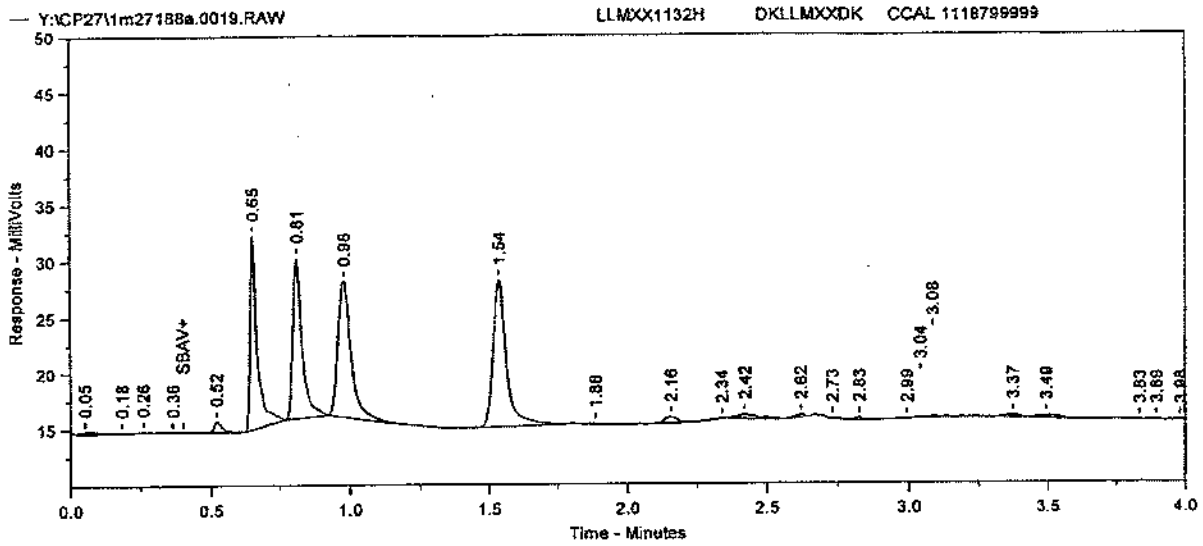
Raw File Name = **Y:\CP27\1m27188a.0018.RAW**
Method File Name = Y:\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268

Time Injected = 7/7/2011 10:42:50 PM
Dilution Factor = 1
Peak Threshold = -10

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	245.72	27.544	958	1793
Ethanol	0.82	206.32	23.128	715	2096
Isopropanol	0.97	218.26	24.466	615	2678
Acetone	1.53	221.78	24.861	633	2172

Chrom Perfect Chromatogram Report



Sample Name = **LLMXX1132H** **DKLLMXXDK** **CCAL 1118799999**

Instrument = CP27
Detector = H2739A

Raw File Name = **Y:\CP27\1m27188a.0019.RAW**
Method File Name = Y:\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/7/2011 10:57:48 PM
Dilution Factor = 1
Peak Threshold = -10

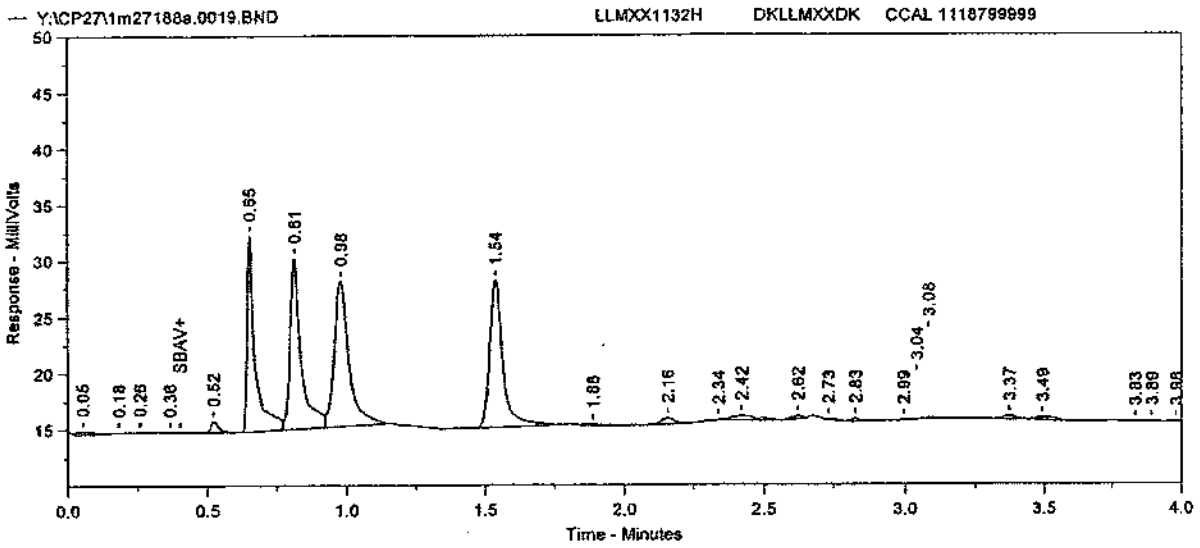
	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	4217.45	24.417	17524	30778
Ethanol	0.81	4139.14	23.964	14336	32709
Isopropanol	0.98	4322.25	25.024	12180	39679
Acetone	1.54	4593.68	26.595	13120	44538

Not Used
See Reintegration

(3) EMBL13
7/8/11

M = Manually Integrated
Analyst _____
Approved by _____
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USP63_2179



Sample Name = **LLMXX1132H** **DKLLMXXDK** **CCAL 1118799999**

Instrument = CP27
Detector = H2739A

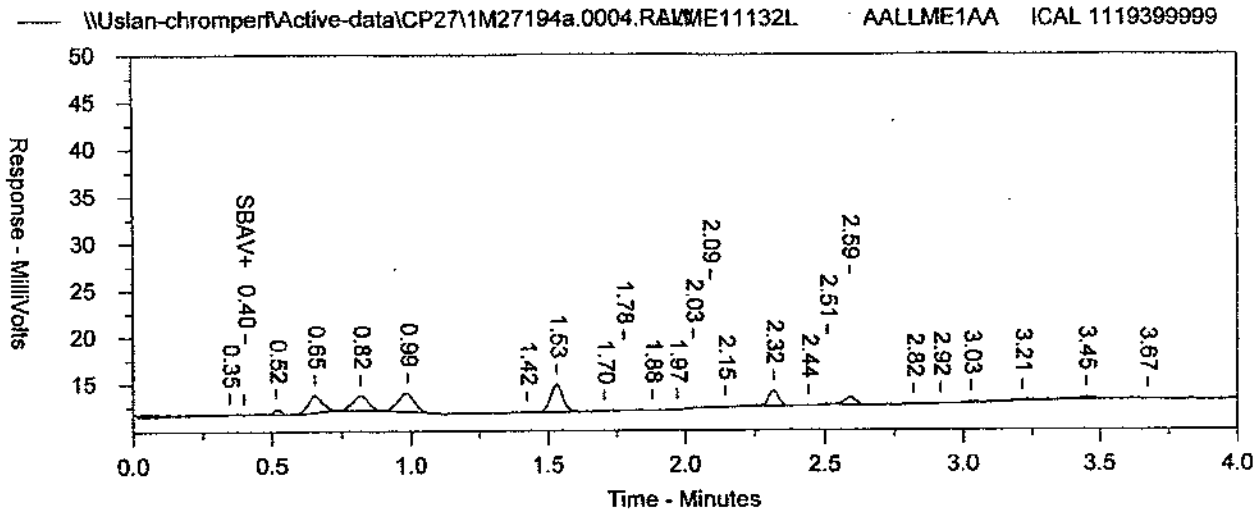
Raw File Name = **Y:\CP27\1m27188a.0019.RAW**
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2268
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/7/2011 10:57:48 PM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	4755.76	25.909	17698	34707M
Ethanol	0.81	4406.38	24.006	15262	41597
Isopropanol	0.98	4599.78	25.059	12962	46562
Acetone	1.54	4593.68	25.026	13120	44538

M = Manually Integrated
Analyst [signature] 7/8/11
Approved by [signature]
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USF03 2188



Sample Name = LLME11132L AALLME1AA ICAL 1119399999

Instrument = CP27
Detector = H2739A

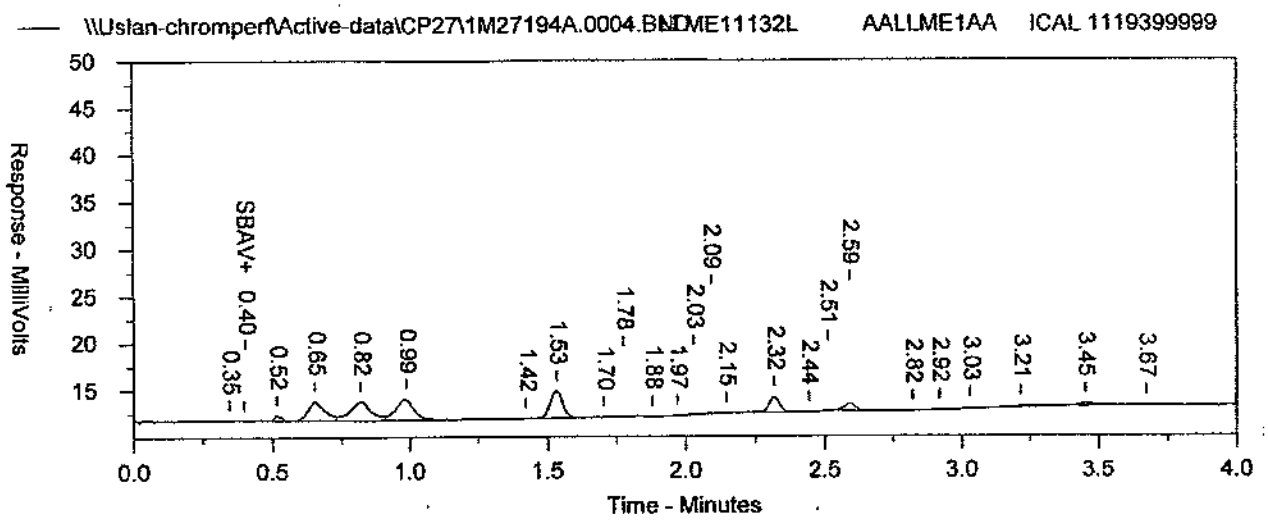
Not Used
See Reintegration

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194a.0004.RAW
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 7:50:18 PM
Dilution Factor = 1
Peak Threshold = -10

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	914.80	29.406	1836	6676
Ethanol	0.82	460.80	14.812	1596	6208
Isopropanol	0.99	709.13	22.794	1998	8126
Acetone	1.53	1026.25	32.988	2931	9449

USF03 2181



Sample Name = LLME11132L AALLME1AA ICAL 1119399999

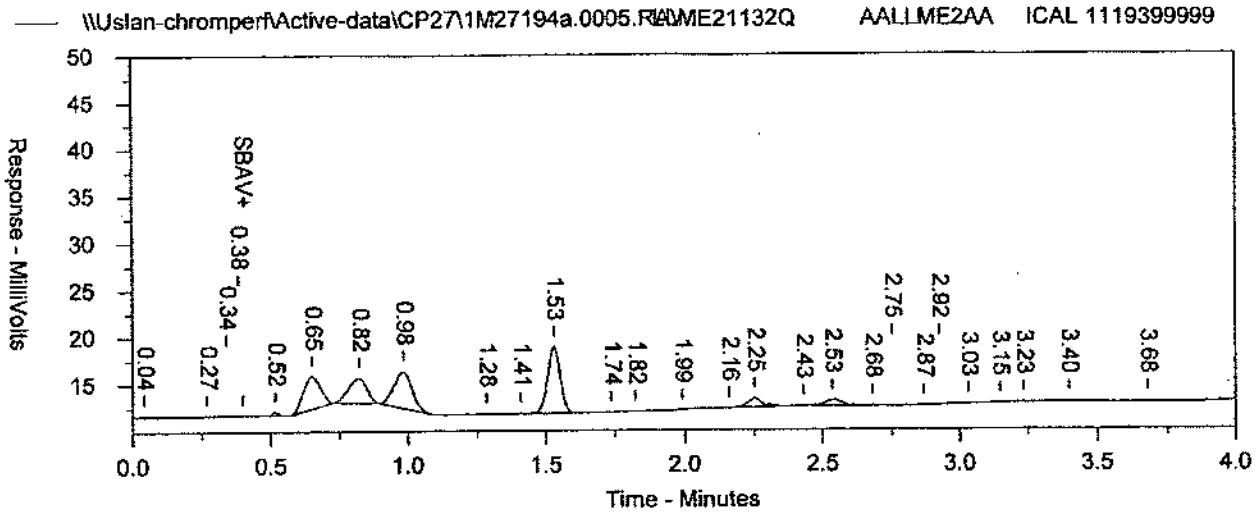
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0004.RAW
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 7:50:18 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	1354.66	26.773	2038	8538
Ethanol	0.82	1455.94	28.775	2015	10649
Isopropanol	0.99	1226.72	24.244	2262	10862
Acetone	1.53	1022.51	20.208	2931	9449

M = Manually Integrated
Analyst [signature] 7/13/11
Approved by [signature]
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USF83 2182



Sample Name = LLME21132Q AALLME2AA ICAL 1119399999

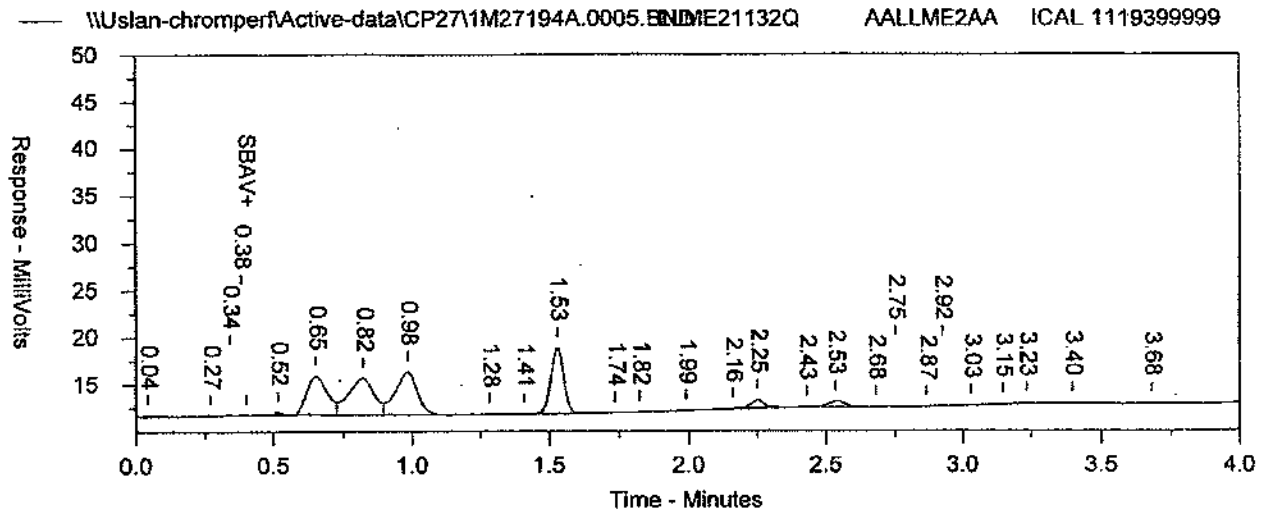
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194a.0005.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 8:05:16 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	2160.91	30.834	3463	15511
Ethanol	0.82	870.55	12.422	2670	12482
Isopropanol	0.98	1490.89	21.273	3914	17648
Acetone	1.53	2485.92	35.471	7052	22380

Not Used
See Reintegration

USF83 2193



Sample Name = LLME21132Q AALLME2AA ICAL 1119399999

Instrument = CP27
Detector = H2739A

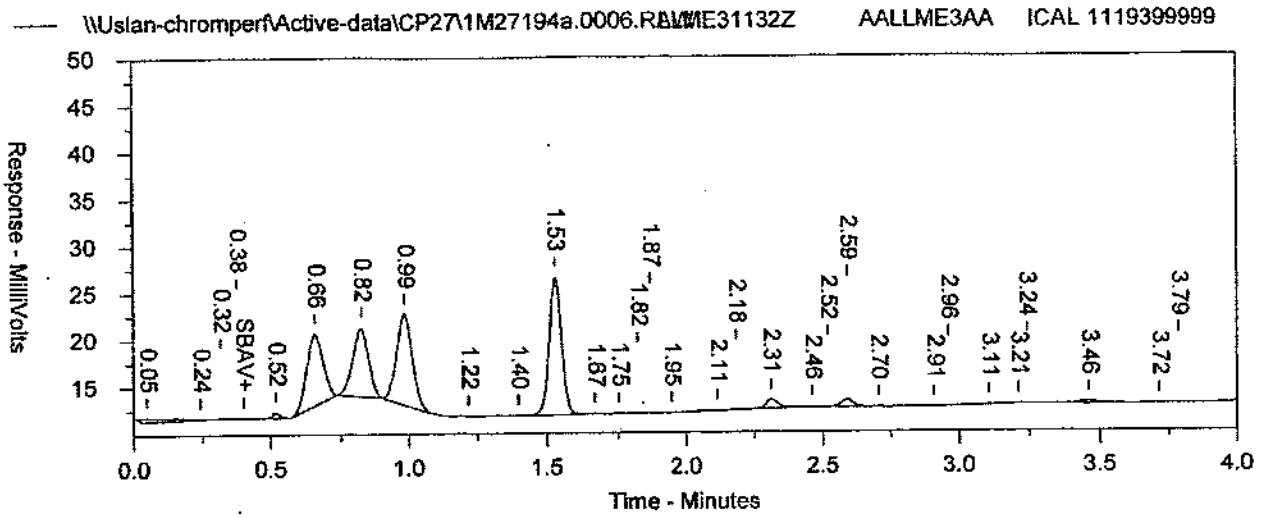
Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0005.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 8:05:16 PM
Dilution Factor = 1
Peak Threshold = -10

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	3340.31	30.105	4093	21054
Ethanol	0.82	2814.06	25.362	3895	25012
Isopropanol	0.98	2480.98	22.360	4575	24592
Acetone	1.53	2460.23	22.173	7052	22380

M = Manually Integrated
Analyst EM 7/13/11
Approved by
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

USFB3 2184



Sample Name = LLME31132Z AALLME3AA ICAL 1119399999

Instrument = CP27
Detector = H2739A

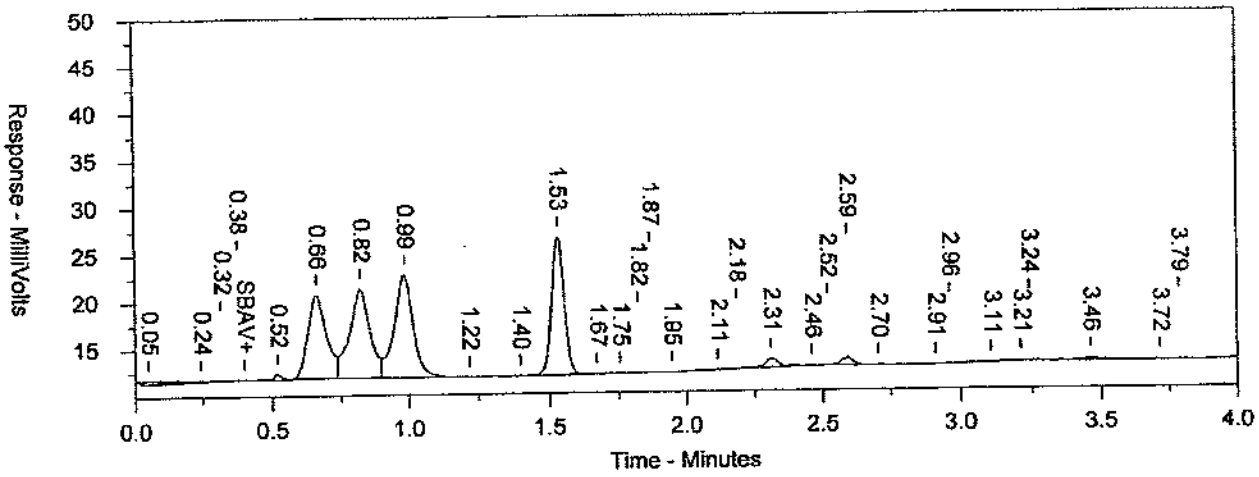
Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194a.0006.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 8:20:10 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	4452.74	26.924	7644	30908
Ethanol	0.82	2828.16	17.101	7302	28487
Isopropanol	0.99	4089.02	24.725	9729	38953
Acetone	1.53	5167.98	31.249	14618	44695

Not Used
See Reintegration

USF83 2185

\\Uslan-chromperf\Active-data\CP27\1M27194A.0006.BNLME31132Z AALLME3AA ICAL 1119399999



Sample Name = LLME31132Z AALLME3AA ICAL 1119399999

Instrument = CP27
Detector = H2739A

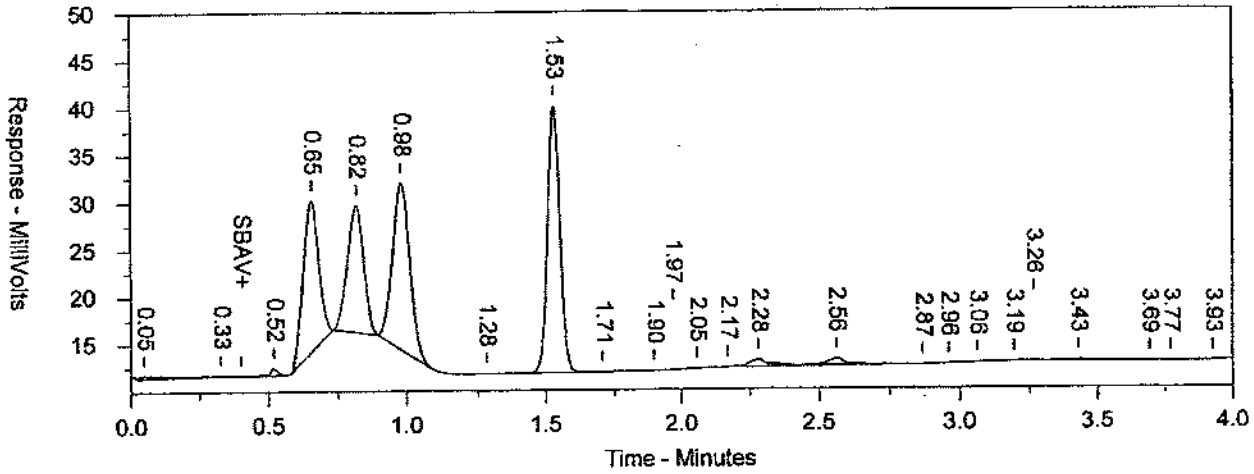
Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0006.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 8:20:10 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	6825.94	27.092	8824	41764 M
Ethanol	0.82	6816.55	27.871	9434	49479
Isopropanol	0.99	5915.44	24.187	10908	51932
Acetone	1.53	5099.36	20.850	14618	44695

M = Manually Integrated
Analyst [signature] 7/13/11
Approved by [signature]
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USFDA 2186

\\Uslan-chromperf\Active-data\CP27\1M27194a.0007.RAW ME41132S AALLME4AA ICAL 1119399999



Sample Name = LLME41132S AALLME4AA ICAL 1119399999

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194a.0007.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

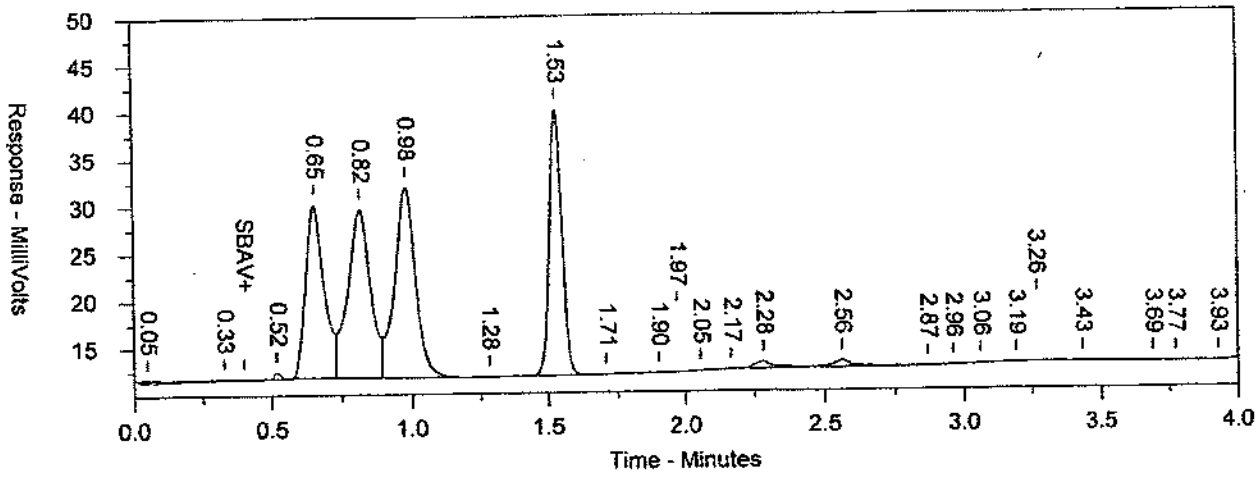
Time Injected = 7/13/2011 8:34:58 PM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	9499.03	28.258	16052	63629
Ethanol	0.82	6189.16	18.411	13458	55593
Isopropanol	0.98	7995.08	23.784	17658	75724
Acetone	1.53	9932.59	29.547	28244	88118

Not Used
See Reintegration

USF93 2197

\\Uslan-chromperf\Active-data\CP27\1M27194A.0007.BNDME41132S AALLME4AA ICAL 1119399999



Sample Name = LLME41132S AALLME4AA ICAL 1119399999

Instrument = CP27
Detector = H2739A

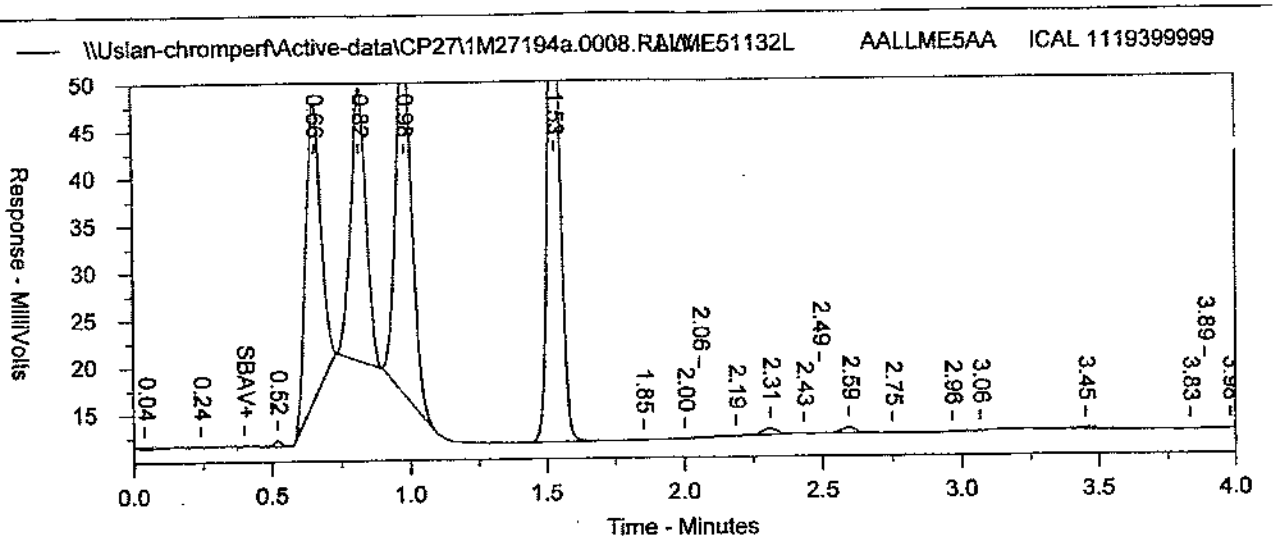
Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0007.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/13/2011 8:34:58 PM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	13515.63	28.615	18395	85190
Ethanol	0.82	12903.94	27.320	17859	98978
Isopropanol	0.98	10960.18	23.205	20210	104002
Acetone	1.53	9852.94	20.860	28244	88118

M = Manually Integrated
Analyst EM 7/13/11
Approved by _____
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USF63 2189



Sample Name = LLME51132L AALLME5AA ICAL 1119399999

Instrument = CP27
Detector = H2739A

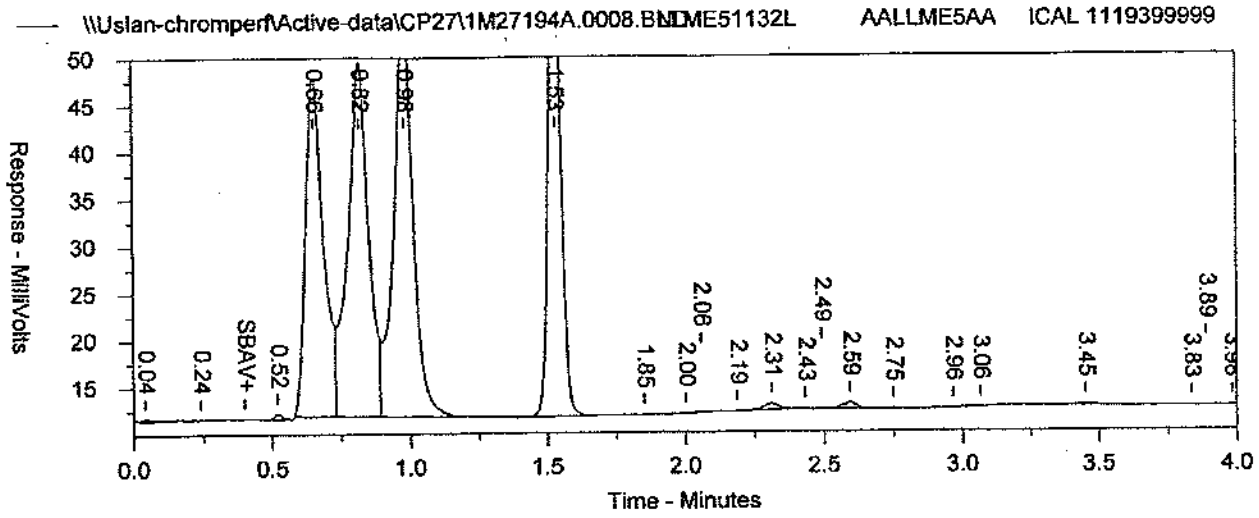
Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194a.0008.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/13/2011 8:49:53 PM
Dilution Factor = 1
Peak Threshold = -10

Not Used
See Reintegration

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	18596.19	25.058	31215	121804
Ethanol	0.82	16441.15	22.154	28989	109731
Isopropanol	0.98	19331.16	26.048	38887	151085
Acetone	1.53	19844.69	26.740	56657	173121

USF03 2189



Sample Name = LLME51132L AALLME5AA ICAL 1119399999

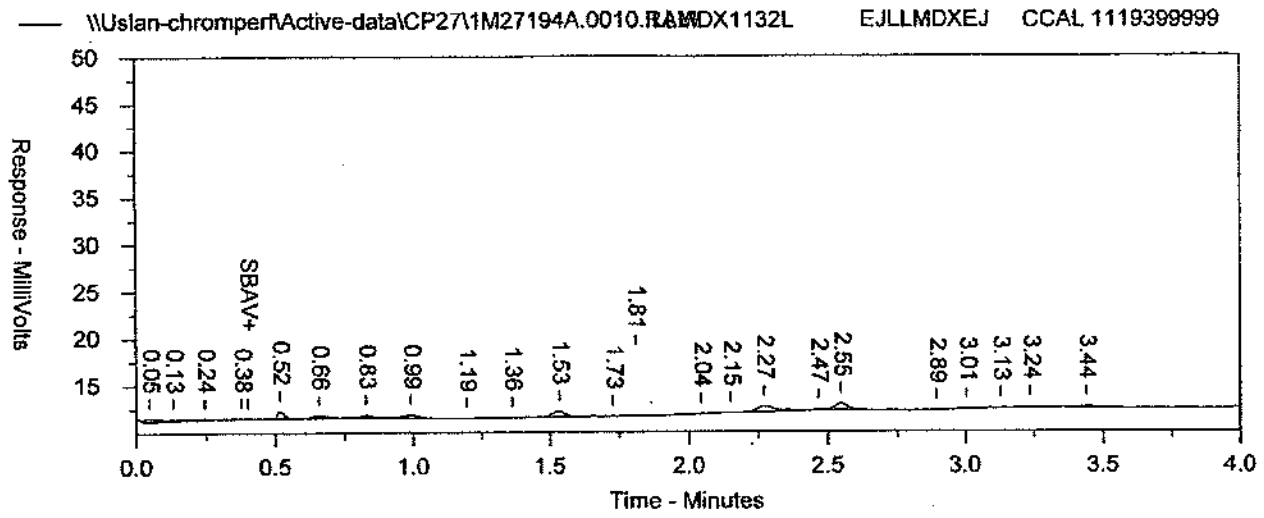
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0008.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 8:49:53 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	26138.61	26.984	36093	164753
Ethanol	0.82	27195.44	28.075	37638	193720
Isopropanol	0.98	23769.77	24.538	43831	209492
Acetone	1.53	19764.65	20.404	56657	173121

M = Manually Integrated
Analyst EM 7/13/11
Approved by _____
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USE03 2198



Sample Name = LLMDX1132L EJLLMDXEJ CCAL 1119399999

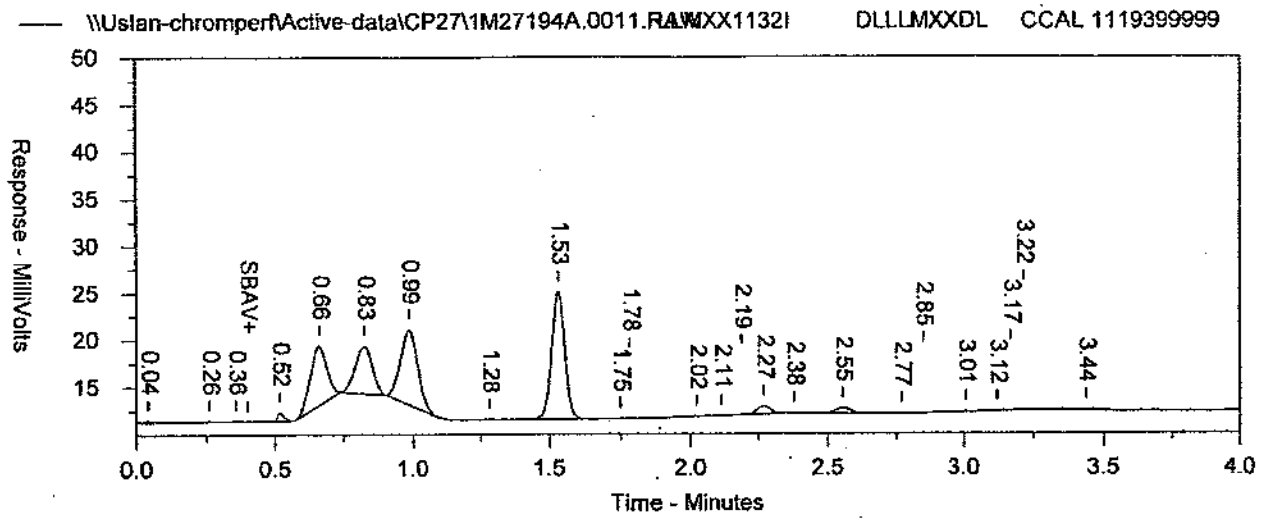
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0010.RAW
Method File Name = Y:\CP27\ltm.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/13/2011 9:19:56 PM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	158.84	24.393	269	1336
Ethanol	0.83	117.86	18.100	310	1182
Isopropanol	0.99	139.33	21.397	351	1448
Acetone	1.53	235.15	36.111	642	2107

USP63 2191



Sample Name = LLMXX1132I DLLLMXXDL CCAL 1119399999

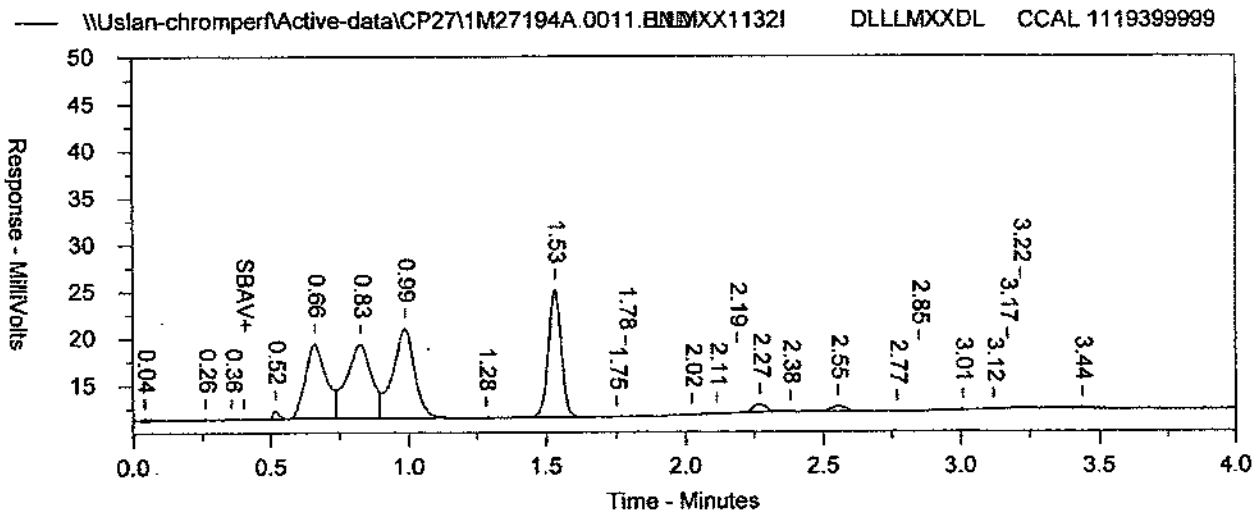
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0011.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 9:34:52 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	3217.92	23.739	6313	27075
Ethanol	0.83	2132.02	15.728	5053	21377
Isopropanol	0.99	3293.60	24.297	7946	34227
Acetone	1.53	4911.83	36.235	13662	44018

Not Used
See Reintegration

USPB3 2192



Sample Name = LLMXX1132I DLLLMXXDL CCAL 1119399999

Instrument = CP27
Detector = H2739A

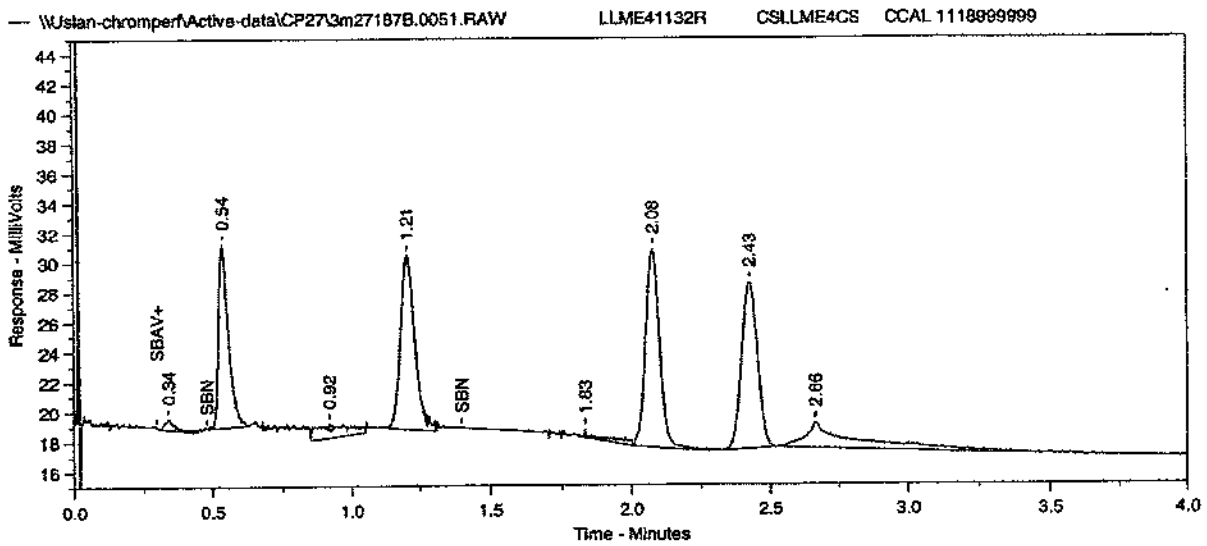
Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0011.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 9:34:52 PM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	4929.85	25.076	7873	41479 M
Ethanol	0.83	4762.11	24.222	7837	47748
Isopropanol	0.99	5056.19	25.718	9535	52544
Acetone	1.53	4911.83	24.984	13662	44018

M = Manually Integrated
Analyst EMCLS 7/14/11
Approved by _____
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USF03 2193

Chrom Perfect Chromatogram Report



Sample Name = **LLME41132R** **CSLLME4CS** **CCAL 1118999999**

Instrument = CP27
Detector = H2739B

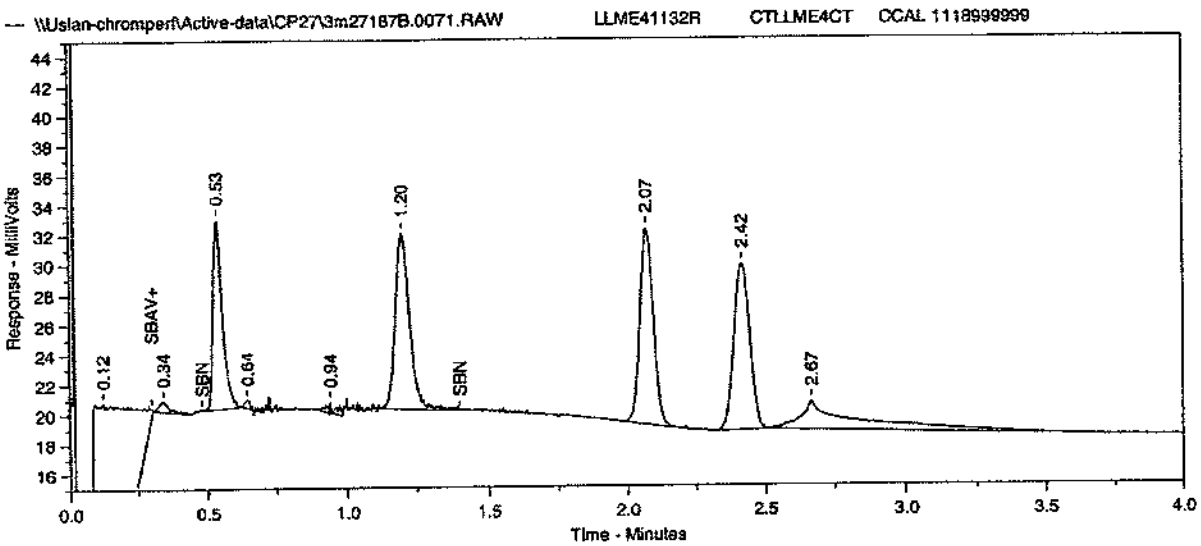
Raw File Name = **\\Uslan-chromperf\Active-data\CP27\3m27187B.0051.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2268

Time injected = 7/9/2011 6:32:11 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	8798.48	23.374	12289	29625
Ethanol	1.21	9531.86	25.323	11699	41934
Acetone	2.08	9628.66	25.580	13332	47434
Isopropanol	2.43	9682.65	25.723	11159	44170

Chrom Perfect Chromatogram Report



Sample Name = **LLME41132R** **CTLLME4CT** **CCAL 1118999999**

Instrument = CP27
Detector = H2739B

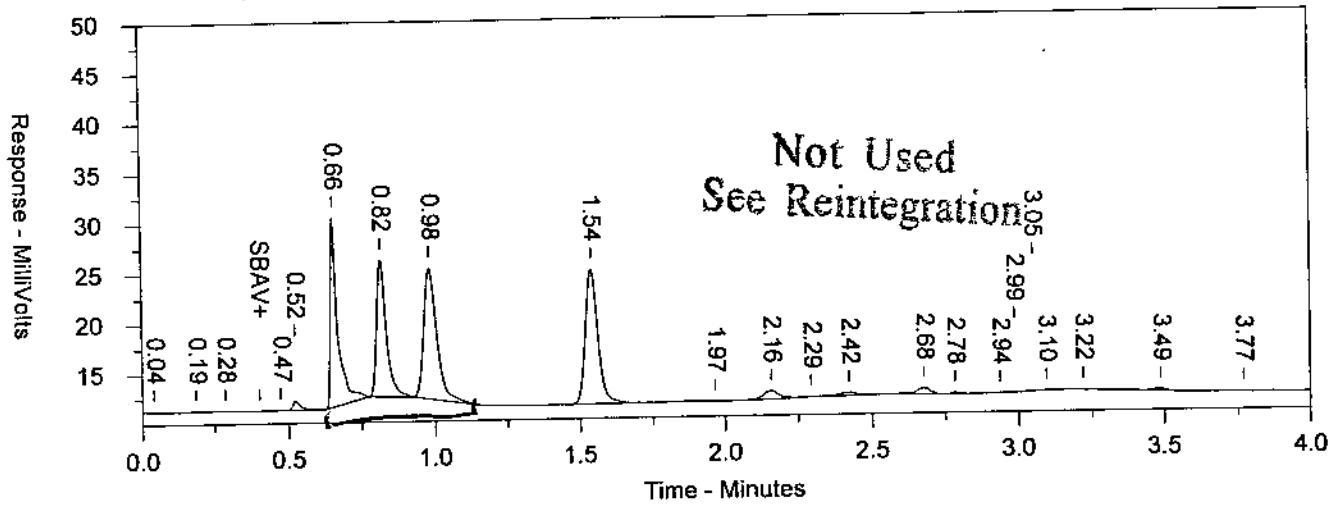
Raw File Name = **\\Uslan-chromperf\Active-data\CP27\3m27187B.0071.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2268

Time injected = 7/9/2011 11:29:19 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.53	9112.38	24.025	12727	29725
Ethanol	1.20	9624.98	25.377	11813	41659
Acetone	2.07	9502.41	25.053	13157	44773
Isopropanol	2.42	9688.94	25.545	11166	44434

\\Uslan-chromperf\Active-data\CP27\2M27188A.0004.RAW LLME31132X WOLLME3WO CCAL 1119199999



Sample Name = LLME31132X WOLLME3WO CCAL 1119199999

Instrument = CP27
Detector = H2739A

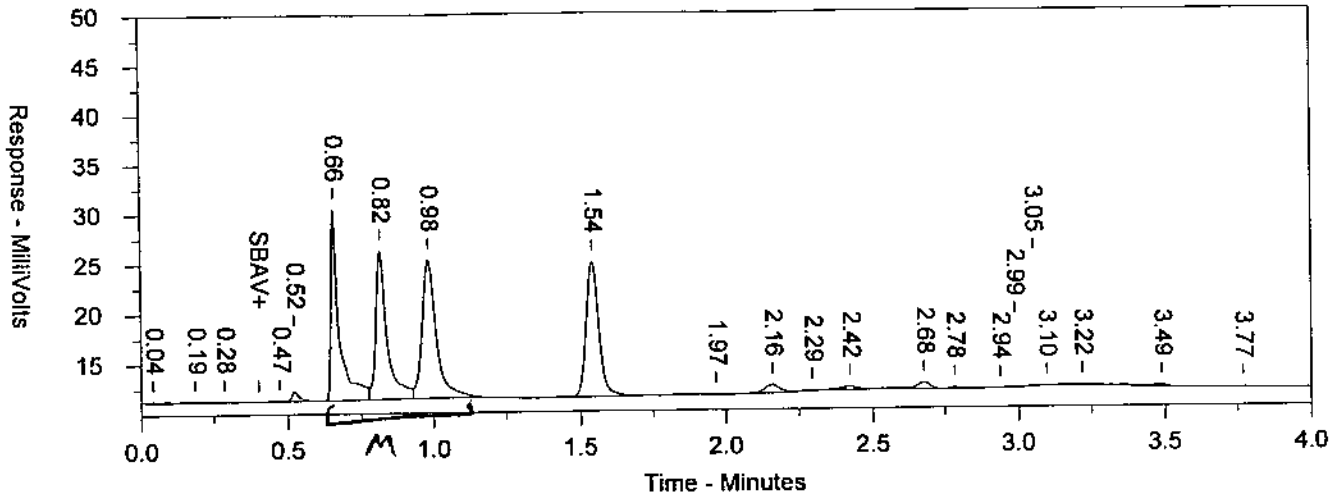
Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0004.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/11/2011 6:01:20 PM
Dilution Factor = 1
Peak Threshold = -10

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	4546.81	25.405	18917	33182
Ethanol	0.82	3967.28	22.167	13741	30325
Isopropanol	0.98	4648.77	25.974	13100	40405
Acetone	1.54	4734.74	26.455	13523	41100

OSF93 2196

\\Uslan-chromperf\Active-data\CP27\2M27188A.0004.RAW LLME31132X WOLLME3WO CCAL 1119199999



Sample Name = LLME31132X WOLLME3WO CCAL 1119199999

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0004.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/11/2011 6:01:20 PM
Dilution Factor = 1
Peak Threshold = -10

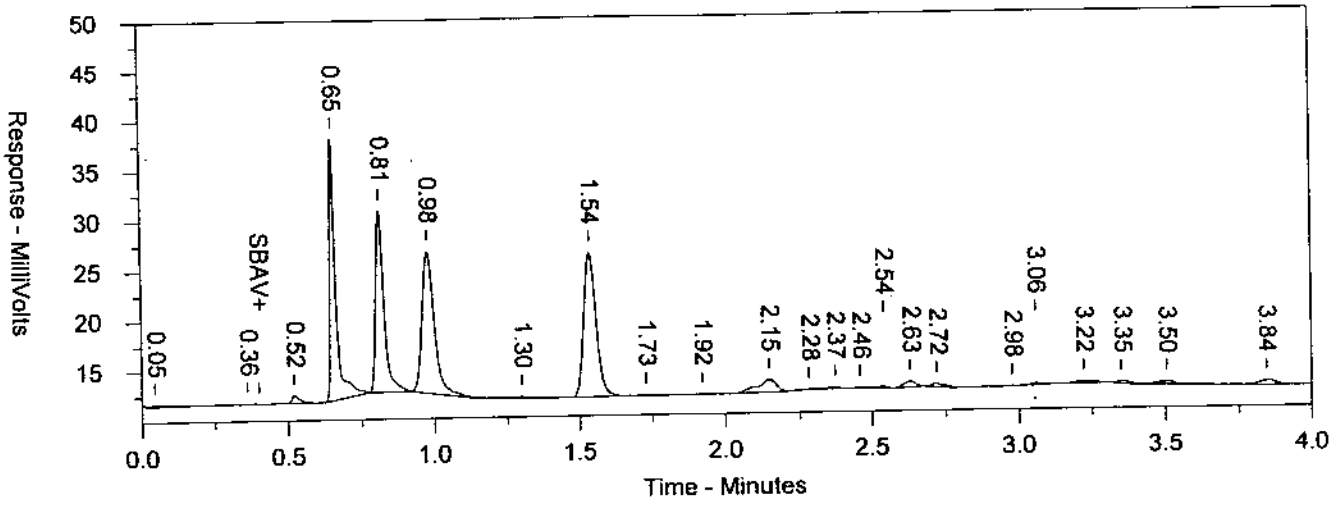
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	5261.05	27.406	19148	38394
Ethanol	0.82	4288.43	22.339	14853	40171
Isopropanol	0.98	4912.79	25.591	13844	46887
Acetone	1.54	4734.74	24.664	13523	41100

M = Manually Integrated
Analyst [signature] 7/11/11
Approved by [signature]
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USE99 2297

\\Uslan-chromperf\Active-data\CP27\2M27188A.0023\LLME31132X WPLLME3WP CCAL 1119199999



Sample Name = **LLME31132X** **WPLLME3WP** **CCAL 1119199999**

Instrument = CP27
Detector = H2739A

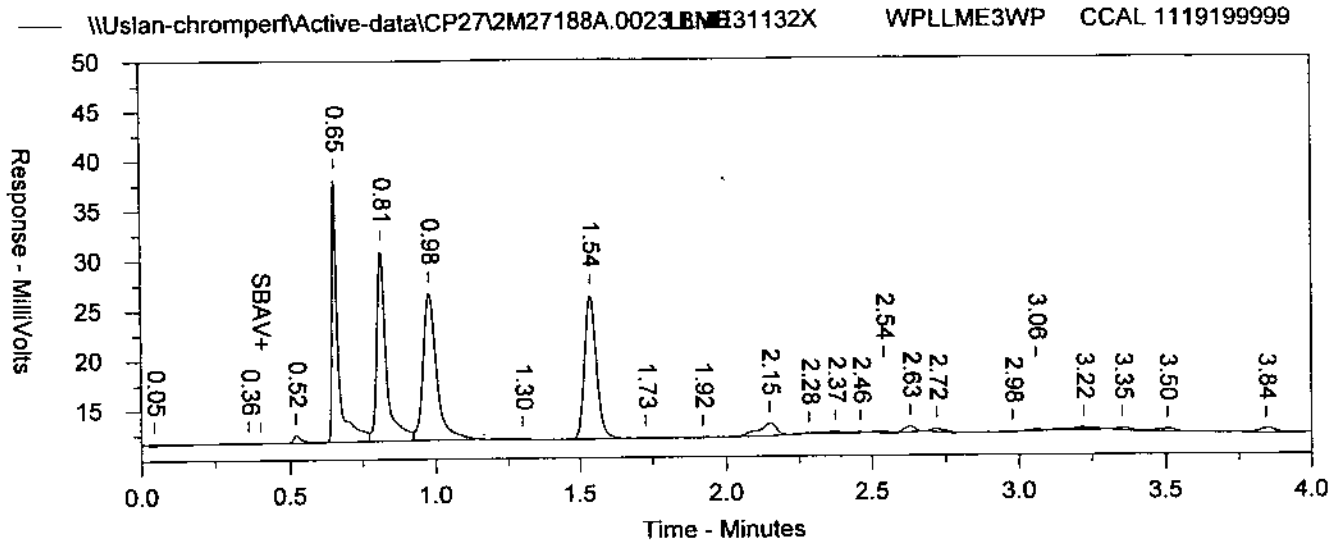
Raw File Name = **\\Uslan-chromperf\Active-data\CP27\2M27188A.0023.RAW**
Method File Name = Y:\CP27\llm.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/11/2011 10:47:56 PM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	4972.10	24.407	26633	36285
Ethanol	0.81	5289.74	25.966	18321	36389
Isopropanol	0.98	5039.25	24.736	14200	41704
Acetone	1.54	5070.77	24.891	14483	42583

Not Used
See Reintegration

USP63 2598



Sample Name = **LLME31132X** **WPLLME3WP** **CCAL 1119199999**

Instrument = CP27
Detector = H2739A

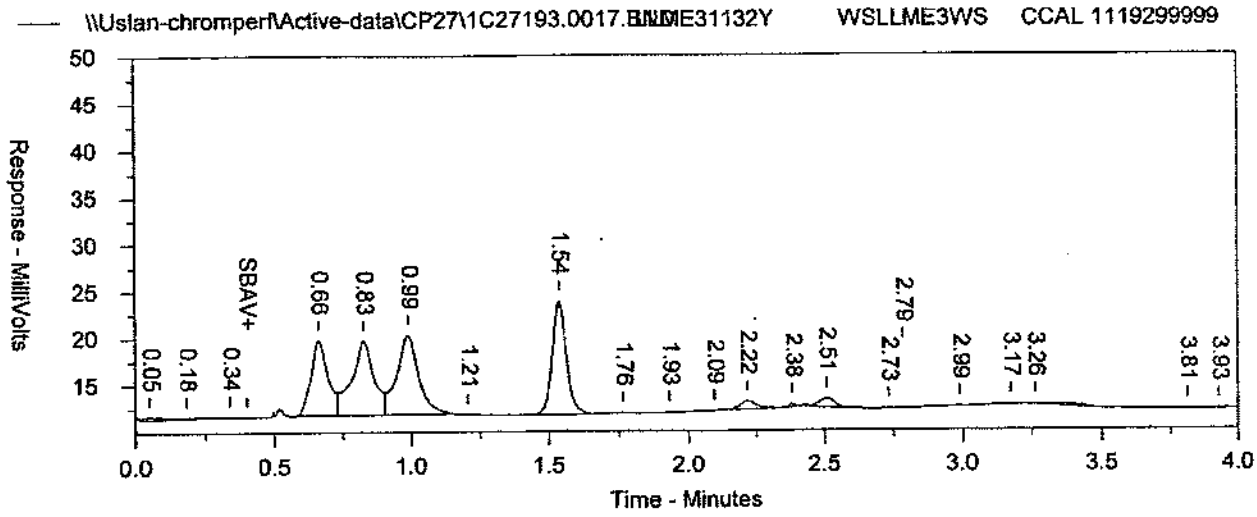
Raw File Name = **\\Uslan-chromperf\Active-data\CP27\2M27188A.0023.RAW**
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/11/2011 10:47:56 PM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	5488.91	25.707	26789	40057 M
Ethanol	0.81	5535.76	25.926	19173	44018
Isopropanol	0.98	5256.43	24.618	14812	46984
Acetone	1.54	5070.77	23.749	14483	42583

M = Manually Integrated
Analyst ED 7/12/11
Approved by
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

BSF99 2199



Sample Name = LLME31132Y WSLLME3WS CCAL 1119299999

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1C27193.0017.RAW
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

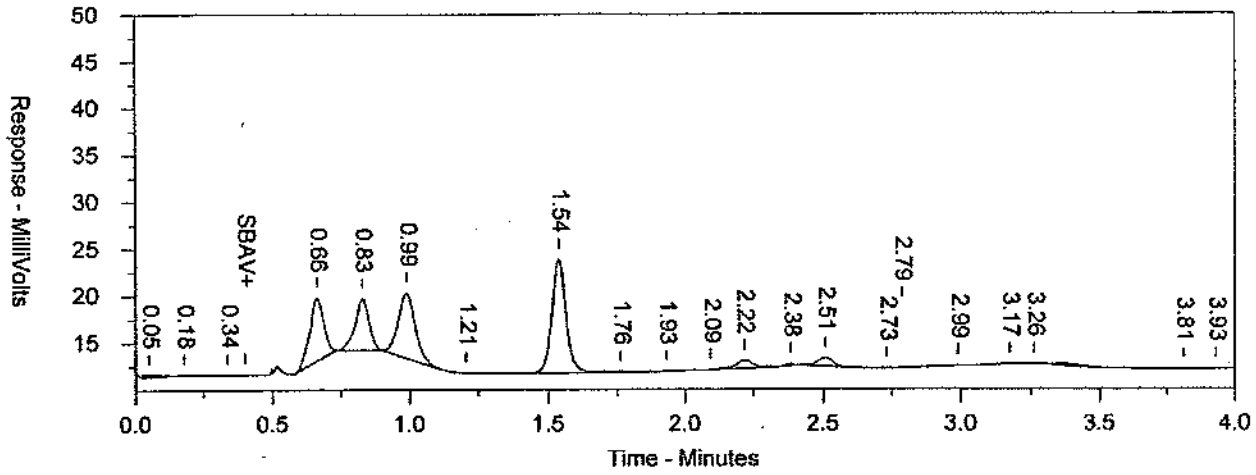
Time Injected = 7/13/2011 1:04:07 AM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	4760.75	33.333	7977	34743
Ethanol	0.83	2278.00	15.950	7890	44581
Isopropanol	0.99	2996.94	20.983	8445	46354
Acetone	1.54	4246.86	29.735	12130	42561

M = Manually Integrated
Analyst EM 7343 7/19/11
Approved by _____
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USF83 2268

\\Uslan-chromperf\Active-data\CP27\1C27193.0017.RAW E31132Y WSLLME3WS CCAL 1119299999



Sample Name = LLME31132Y WSLLME3WS CCAL 1119299999

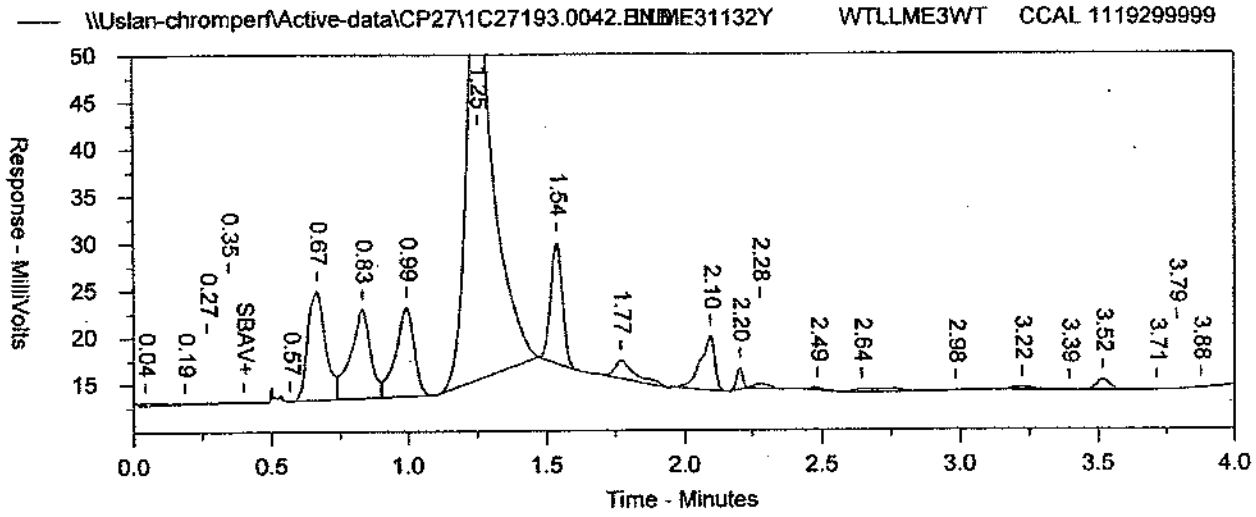
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1C27193.0017.RAW
Method File Name = Y:\CP27\lim.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 1:04:07 AM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	3326.77	28.573	6680	24278
Ethanol	0.83	1598.13	13.726	5535	20067
Isopropanol	0.99	2471.11	21.224	6963	29620
Acetone	1.54	4246.86	36.476	12130	42561

Not Used
See Reintegration

USF93 2281



Sample Name = LLME31132Y WTLLME3WT CCAL 1119299999

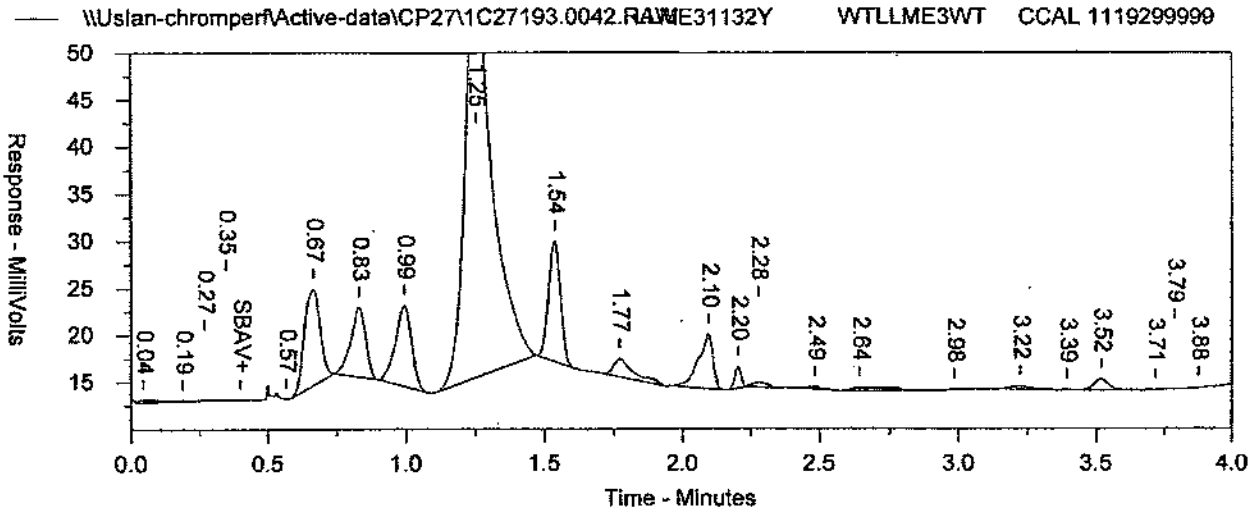
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1C27193.0042.RAW
Method File Name = \\Uslan-chromperf\Active-data\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 7:15:39 AM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.67	7202.50	40.534	11524	52562 M
Ethanol	0.83	2714.82	15.278	9403	47664
Isopropanol	0.99	3353.71	18.874	9450	43151
Acetone	1.54	4498.02	25.314	12847	38084

M = Manually Integrated
Analyst EM 7363 7/19/11
Approved by _____
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USP93 2282



Sample Name = LLME31132Y WTLLME3WT CCAL 1119299999

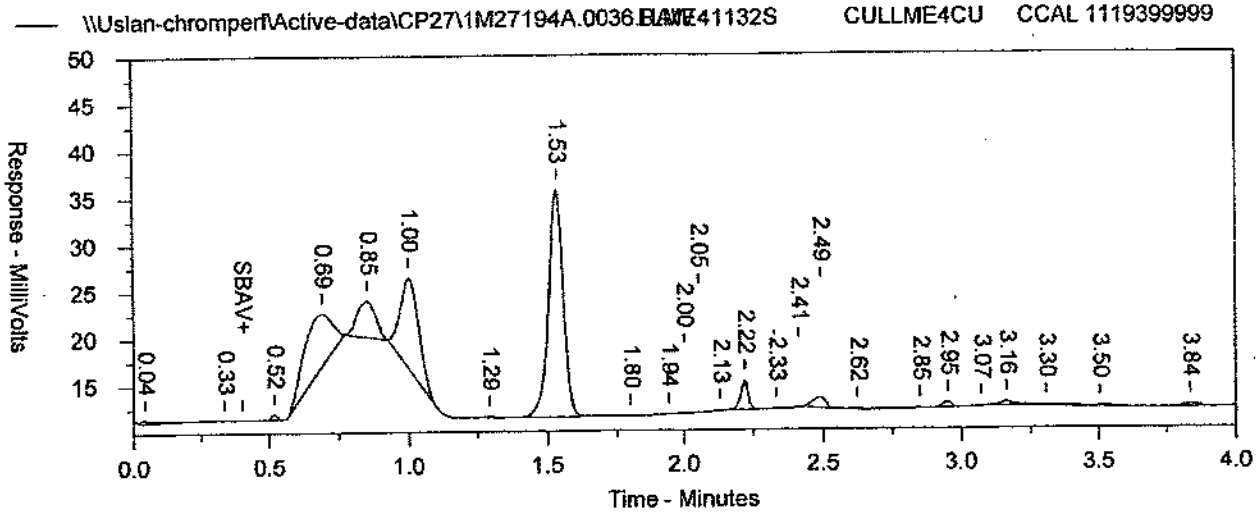
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1C27193.0042.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/13/2011 7:15:39 AM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.67	5691.63	36.958	10273	41536
Ethanol	0.83	2147.87	13.947	7439	27890
Isopropanol	0.99	3062.95	19.889	8631	34302
Acetone	1.54	4498.02	29.207	12847	38084

Not Used
See Reintegration

USF83 2283



Sample Name = LLME41132S CULLME4CU CCAL 1119399999

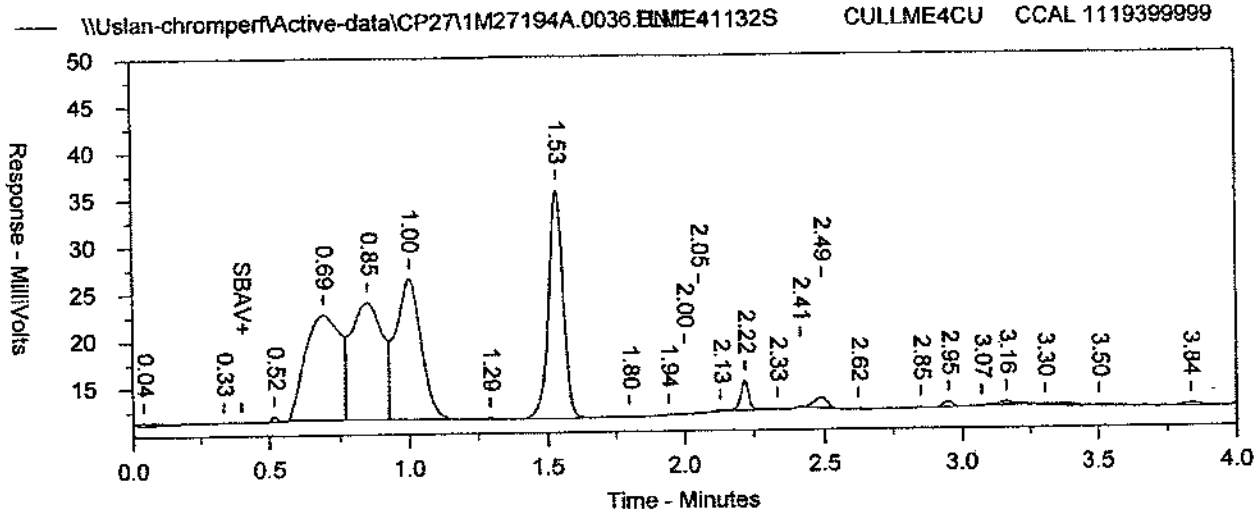
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0036.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/14/2011 3:47:05 AM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column; Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Isopropanol	1.00	4263.60	30.311	9627	44307
Acetone	1.53	9802.56	69.689	24211	87646

Not Used
See Reintegration

USF83 2284



Sample Name = LLME41132S CULLME4CU CCAL 1119399999

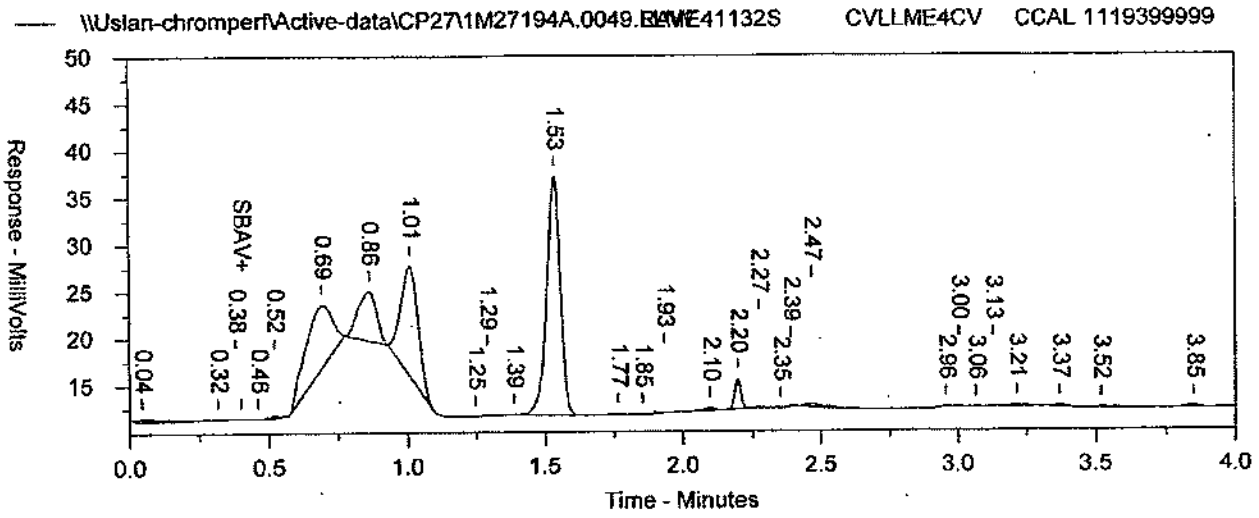
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0036.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/14/2011 3:47:05 AM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.69	11456.07	28.536	11073	96389
Ethanol	0.85	9788.77	24.383	12435	98149
Isopropanol	1.00	9097.99	22.663	14890	94546
Acetone	1.53	9802.56	24.418	24211	87846

M = Manually Integrated
Analyst CMB43 7/14/11
Approved by
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

USF83 2285



Sample Name = LLME41132S CVLLME4CV CCAL 1119399999

Instrument = CP27
Detector = H2739A

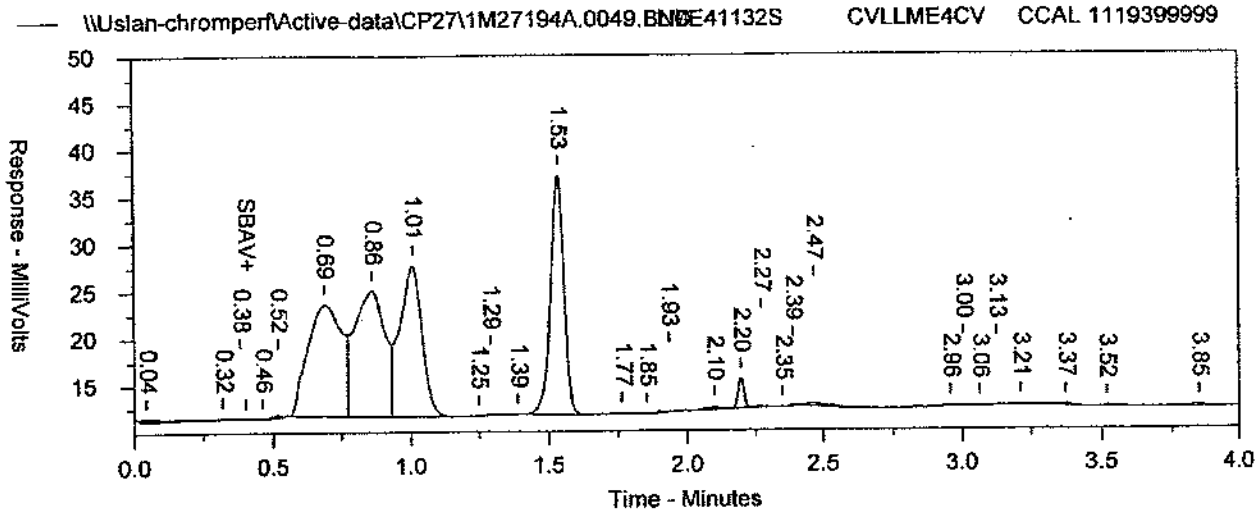
Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0049.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/14/2011 7:00:08 AM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Isopropanol	1.01	4709.55	32.522	11660	48942
Acetone	1.53	9771.59	67.478	25487	87569

Not Used
See Reintegration

USEPA 2286



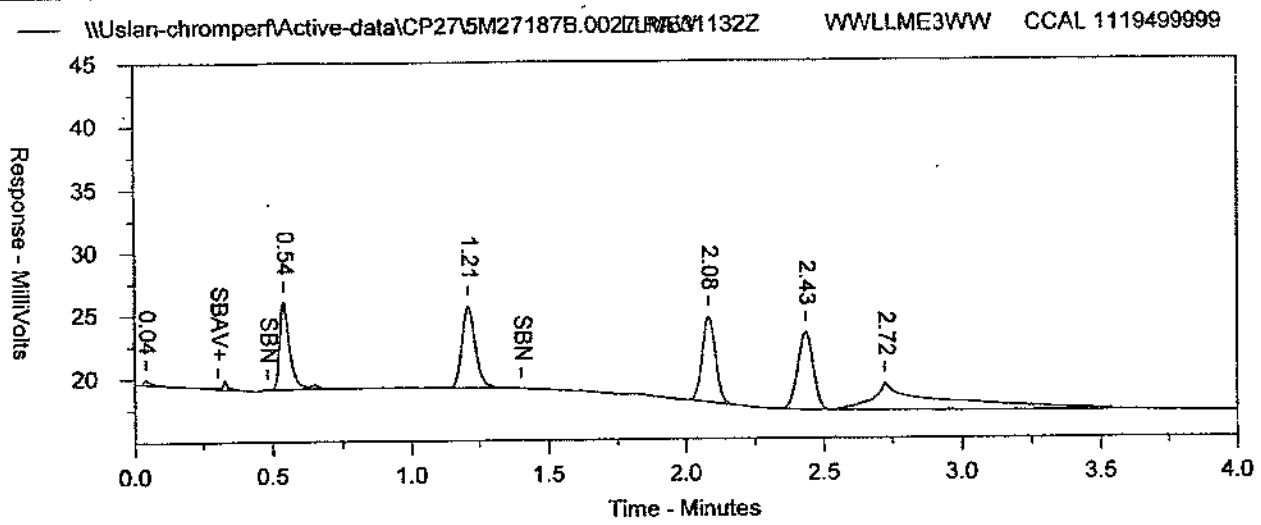
Sample Name = LLME41132S CVLLME4CV CCAL 1119399999

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0049.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/14/2011 7:00:08 AM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.69	12050.86	29.716	11874	101394
Ethanol	0.86	10005.95	24.673	13374	100327
Isopropanol	1.01	8725.58	21.516	16064	90676
Acetone	1.53	9771.59	24.095	25487	87569

M = Manually Integrated
Analyst EM7343 7/14/11
Approved by
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other



Sample Name = LLME31132Z WWLLME3WW CCAL 1119499999

Instrument = CP27
Detector = H2739B

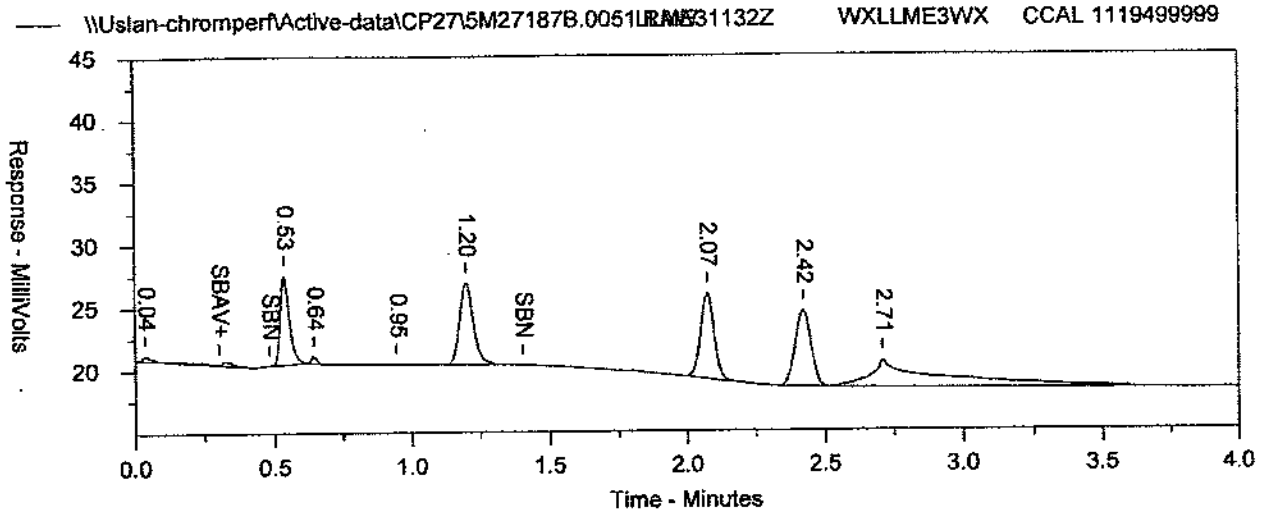
Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0027.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/14/2011 11:54:35 PM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	4988.02	24.341	6967	18039
Ethanol	1.21	5291.73	25.823	6495	23080
Acetone	2.08	4874.46	23.787	6749	23089
Isopropanol	2.43	5338.19	26.050	6152	24369

USF63 2388



Sample Name = LLME31132Z WXLLME3WX CCAL 1119499999

Instrument = CP27
Detector = H2739B

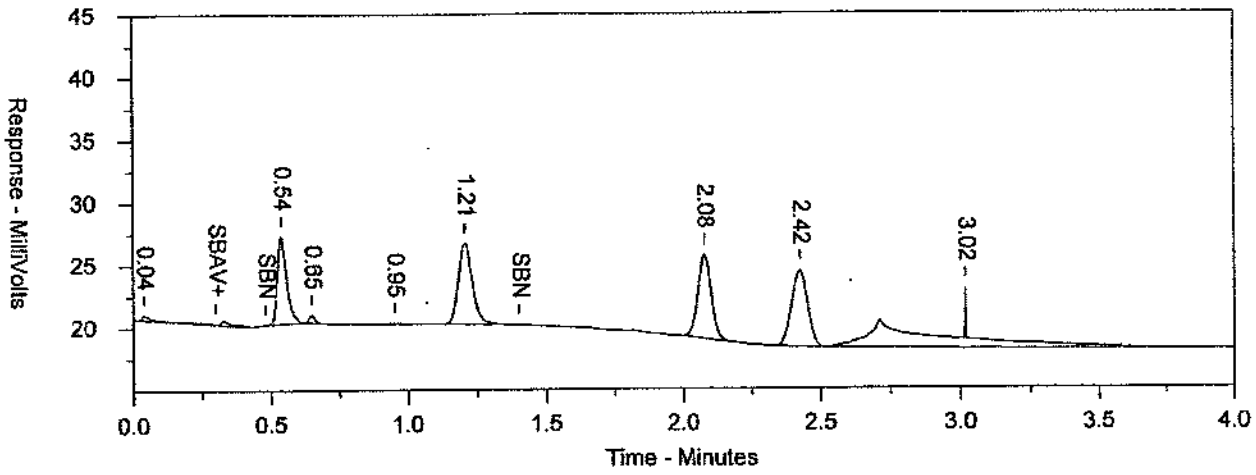
Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0051.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/15/2011 5:51:00 AM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.53	5081.82	24.758	7098	16402
Ethanol	1.20	5277.81	25.713	6477	22739
Acetone	2.07	4923.31	23.986	6817	23383
Isopropanol	2.42	5243.13	25.544	6043	24106

\\Uslan-chromperf\Active-data\CP27\5M27187B.0060\LLME31132Z WXLLME3WX CCAL 1119499999



Sample Name = LLME31132Z WXLLME3WX CCAL 1119499999

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0060.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time Injected = 7/15/2011 8:04:46 AM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	5041.18	24.681	7041	16422
Ethanol	1.21	5262.44	25.764	6459	22958
Acetone	2.08	4860.04	23.794	6729	23230
Isopropanol	2.42	5261.83	25.761	6064	24142

USP63 2219

Raw QC Data

Lancaster Laboratories Single Component Data Summary

Sample Name: **BLANKA** 7/9/11 RI PBLK17190 Sample ID: AA **Batchnumber: 111900017A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: State:
Analyses: 10501

Analysis Report (A)

Injected on : JUL 11, 2011 21:18:22
Instrument : CP27-H2739A
Result file : 2M27188A.0017.RAW
Calibration file : 1m27188a.CAL
Method file : LLM.MET

%SSR(Acetone) : 91% (42-138) Conc.: 2275.72876

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.66	0.68	535	36.683430
Ethanol	0.78	0.83	0.84	248	35.761950
Acetone	1.48	1.54	1.61	13000	2275.728760

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	36.683430	<500	<100			
☑ Ethanol	A	35.761950	<500	<100			
☑ Isopropanol			<500	<100			
☐ Acetone	A	2275.728760					

Tracy A. Cole

Units: ug/kg

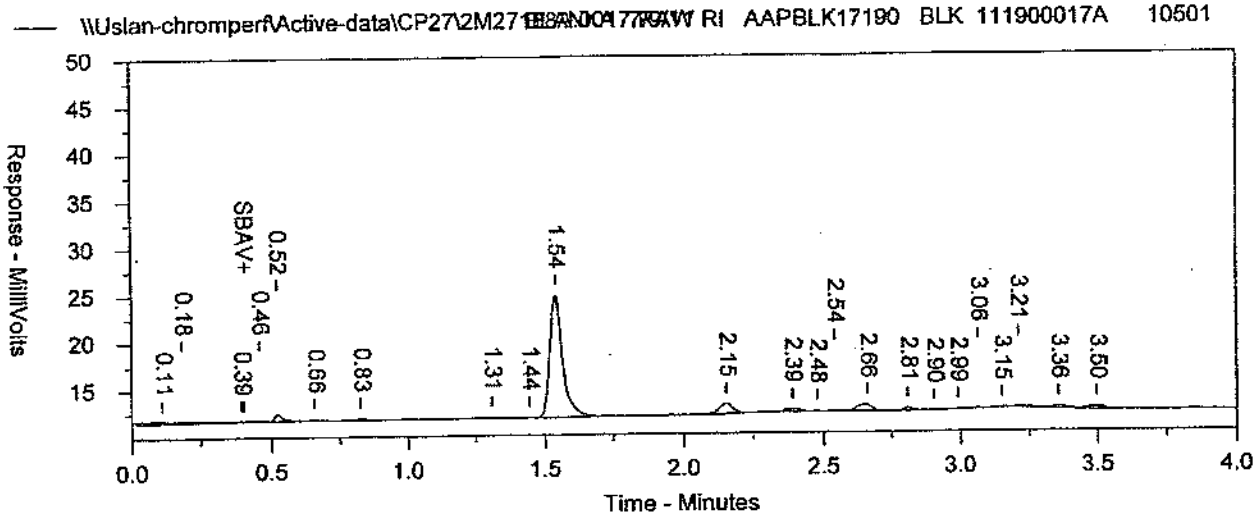
Reviewed by: EIN 7313
Date: 7/12/11

Verified by: JUL 13 2011
Date: Tracy A. Cole
Senior Specialist

USF03 2212

* Recovery outside QC Limits

Printed on: 7/11/2011 21:22:37



Sample Name = BLANKA 7/9/11 RI AAPBLK17190 BLK 111900017A 10501

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0017.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/11/2011 9:18:22 PM
Dilution Factor = 5
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	36.68	1.562	169	535
Ethanol	0.83	35.76	1.523	248	752
Acetone	1.54	2275.73	96.915	13000	44400

USF03 2219

Lancaster Laboratories-Single Component Data Summary

Sample Name: **LCSA** 7/9/11 RI LCS17190 Sample ID: AA **Batchnumber: 111900017A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: State:
Analyses: 10501

Analysis Report (A)

Injected on : JUL 11, 2011 21:33:17
Instrument : CP27--H2739A
Result file : 2M27188A.0018.RAW
Calibration file : 1m27188a.CAL
Method file : LLM.MET
%SSR(Acetone) : 87.9% (42-138) Conc.: 2197.99042

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.65	0.68	35714	2446.929170
Ethanol	0.78	0.82	0.84	13106	1892.061460
Isopropanol	0.91	0.98	1.05	11640	2065.386200
Acetone	1.48	1.54	1.61	12556	2197.990420

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	2446.929170	500	100			
☑ Ethanol	A	1892.061460	500	100			
☑ Isopropanol	A	2065.386200	500	100			
☐ Acetone	A	2197.990420					

Units: ug/kg

Tracy A. Cole

Reviewed by: EM 7/12/11
Date: 7/12/11

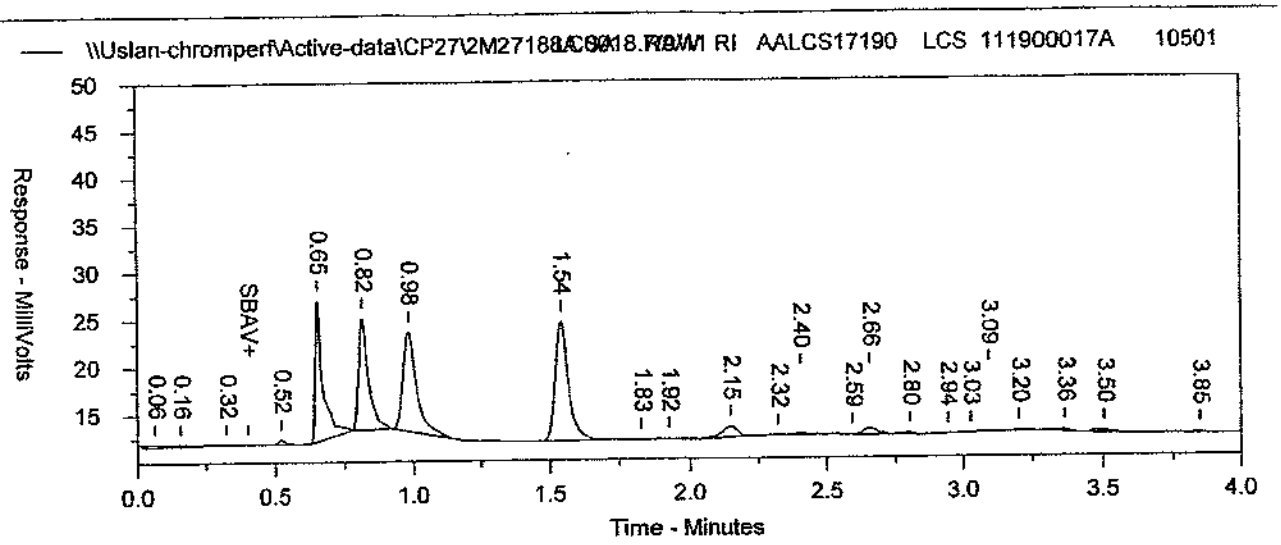
Verified by:
Date: JUL 13 2011

Tracy A. Cole
Senior Specialist

USF03 2214

* Recovery outside QC Limits

Printed on: 7/12/2011 15:07:35



Sample Name = LCSA 7/9/11 RI AALCS17190 LCS 111900017A 10501

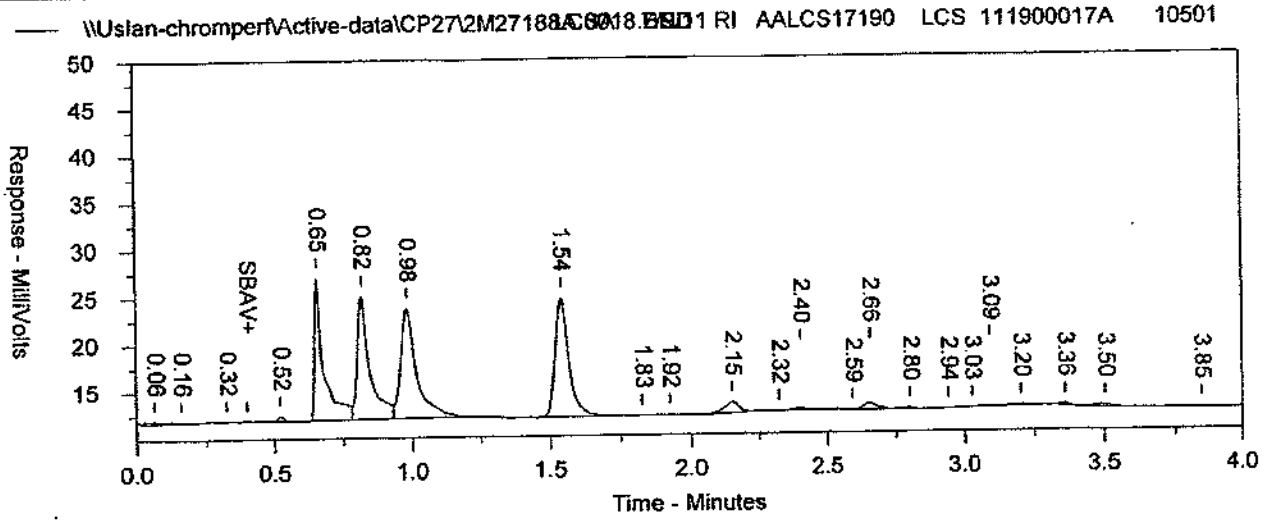
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0018.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/11/2011 9:33:17 PM
Dilution Factor = 5
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	2025.01	26.004	15110	29556
Ethanol	0.82	1693.45	21.746	11731	28795
Isopropanol	0.98	1870.90	24.025	10544	36340
Acetone	1.54	2197.99	28.225	12556	42171

Not Used
See Reintegration

USF03 2215



Sample Name = LCSA 7/9/11 RI AALCS17190 LCS 111900017A 10501

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0018.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/11/2011 9:33:17 PM
Dilution Factor = 5
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.65	2446.93	28.445	15323	35714 M
Ethanol	0.82	1892.06	21.995	13106	41246
Isopropanol	0.98	2065.39	24.010	11640	46688
Acetone	1.54	2197.99	25.551	12556	42171

M = Manually Integrated
Analyst EM 7/12/11
Approved by
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

USP83 2216

Lancaster Laboratories: Single Component Data Summary

Sample Name: **LCSDA** 7/9/11 RI LCSD17190 Sample ID: AA **Batchnumber: 111900017A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: State:
Analyses: 10501

Analysis Report (A)

Injected on : JUL 11, 2011 21:48:06
Instrument : CP27--H2739A
Result file : 2M27188A.0019.RAW
Calibration file : 1m27188a.CAL
Method file : LLM.MET
%SSR(Acetone) : 91.7% (42-138) Conc.: 2292.67548

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.66	0.68	37164	2546.212160
Ethanol	0.78	0.82	0.84	15497	2237.228090
Isopropanol	0.91	0.98	1.05	12968	2300.974580
Acetone	1.48	1.54	1.61	13096	2292.675480

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	2546.212160	500	100			
☑ Ethanol	A	2237.228090	500	100			
☑ Isopropanol	A	2300.974580	500	100			
☐ Acetone	A	2292.675480					

Units: ug/kg

Reviewed by: EM 7/13
Date: 7/12/11

Verified by: Tracy A. Cole
Date: JUL 13 2011

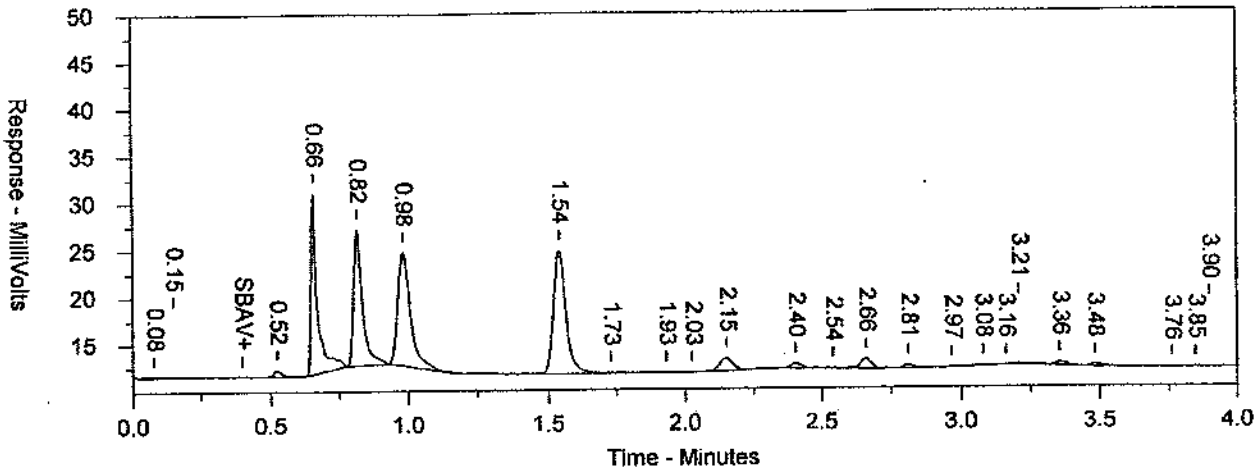
Tracy A. Cole
Senior Specialist

USF83, 2217

* Recovery outside QC Limits

Printed on: 7/12/2011 15:09:24

\\Uslan-chromperf\Active-data\CP27\2M27188A.0019.RAW AALCSD17190 LCSD 111900017A 10501



Sample Name = LCSDA 7/9/11 RI AALCSD17190 LCSD 111900017A 10501

Instrument = CP27
Detector = H2739A

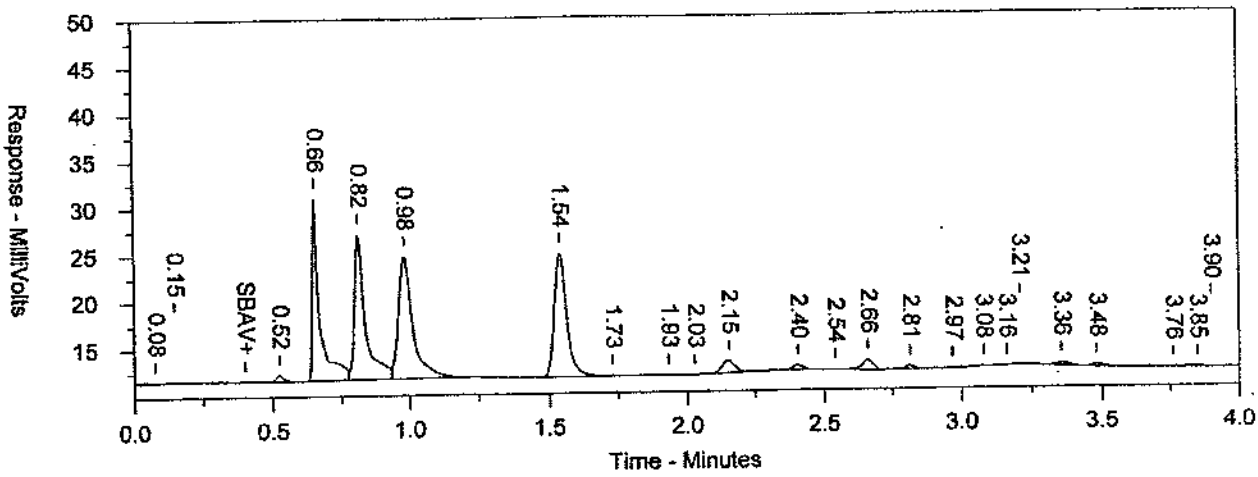
Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0019.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/11/2011 9:48:06 PM
Dilution Factor = 5
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	2246.11	25.616	19372	32783
Ethanol	0.82	2089.92	23.835	14477	32554
Isopropanol	0.98	2139.57	24.401	12058	38149
Acetone	1.54	2292.68	26.147	13096	41094

Not Used
See Reintegration

USF83 2210

\\Uslan-chromperf\Active-data\CP27\2M27188A.0019.RAW 7/9/11 RI AALCSD17190 LCSD 111900017A 10501



Sample Name = LCSDA 7/9/11 RI AALCSD17190 LCSD 111900017A 10501

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\2M27188A.0019.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27188a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/11/2011 9:48:06 PM
Dilution Factor = 5
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	2546.21	27.154	19567	37164 M
Ethanol	0.82	2237.23	23.858	15497	42570
Isopropanol	0.98	2300.98	24.538	12968	46253
Acetone	1.54	2292.68	24.450	13096	41094

M = Manually Integrated
Analyst [illegible] 7/12/11
Approved by [illegible]
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USP<83> 2919

Lancaster Laboratories-Single Component Data Summary

Sample Name: **BLANKA** 7/12/11 RI PBLK18190Sample ID: AA **Batchnumber: 111900018A**
Sample Amount: 1 ml Total Volume: 1 ml Analyst: 2343 SDG: State:
Analyses: 06624

Analysis Report (A)

Injected on : JUL 14, 2011 04:16:44
Instrument : CP27--H2739A
Result file : 1M27194A.0038.RAW
Calibration file : 1m27194a.CAL
Method file : llm.MET
%SSR(Acetone) : 103.4% (54-147) Conc.: 2584.29907:

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.66	0.68	569	67.596886
Ethanol	0.78	0.82	0.84	1547	154.276581
Acetone	1.48	1.53	1.61	23159	2584.299072

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	67.596886	<1000	<200			
☑ Ethanol	A	154.276581	<1000	<200			
☑ Isopropanol			<1000	<200			
☐ Acetone	A	2584.299072					

Units: ug/l

Reviewed by: EM 7313
Date: 7/16/11

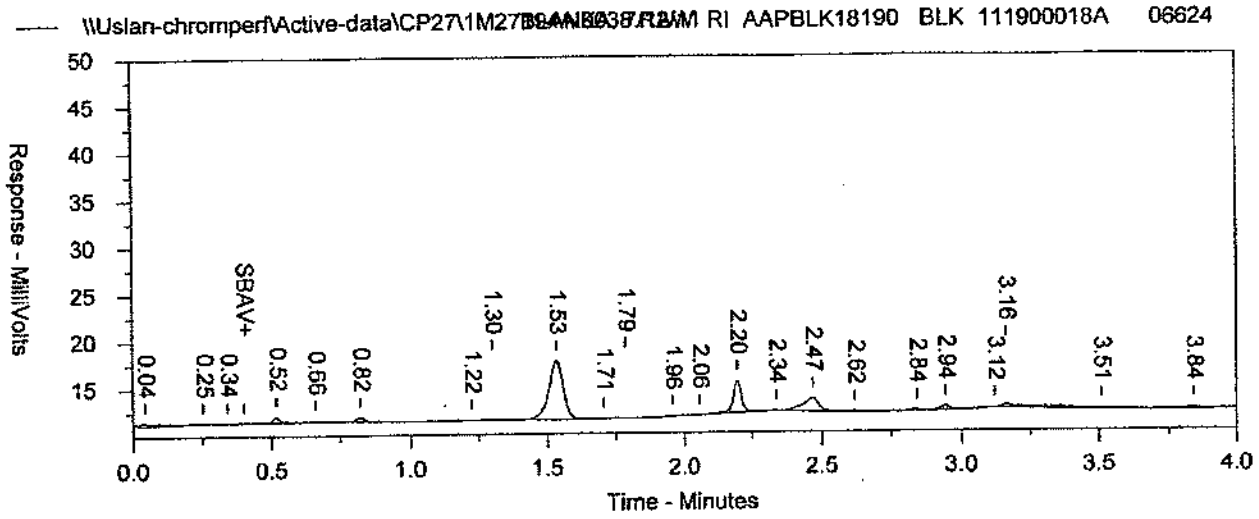
Verified by: Tracy A. Cole
Date: JUL 19 2011

Tracy A. Cole
Senior Specialist

USF83 2220

* Recovery outside QC Limits

Printed on: 7/14/2011 15:01:44



Sample Name = **BLANKA 7/12/11 RI AAPBLK18190 BLK 111900018A 06624**

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0038.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/14/2011 4:16:44 AM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.66	67.60	2.409	110	569
Ethanol	0.82	154.28	5.498	452	1547
Acetone	1.53	2584.30	92.093	6265	23159

USF83 2221

Lancaster Laboratories-Single Component Data Summary

Sample Name: **LCSA** 7/12/11 RI LCS18190 Sample ID: AA **Batchnumber: 111900018A**
Sample Amount: 1 ml Total Volume: 1 ml Analyst: 2343 SDG: State:
Analyses: 06624

Analysis Report (A)

Injected on : JUL 14, 2011 04:31:33
Instrument : CP27--H2739A
Result file : 1M27194A.0039.RAW
Calibration file : 1m27194a.CAL
Method file : LLM.MET

%SSR(Acetone) : 103% (54-147) Conc.: 2574.41894

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.70	0.68	21186	2517.975830
Ethanol	0.78	0.83	0.84	22147	2208.784668
Isopropanol	0.91	1.00	1.05	21319	2051.482422
Acetone	1.48	1.53	1.61	23071	2574.418945

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	2517.975830	1000	200			
☑ Ethanol	A	2208.784668	1000	200			
☑ Isopropanol	A	2051.482422	1000	200			
☐ Acetone	A	2574.418945					

Units: ug/l

Reviewed by: EM BL13
Date: 7/16/11

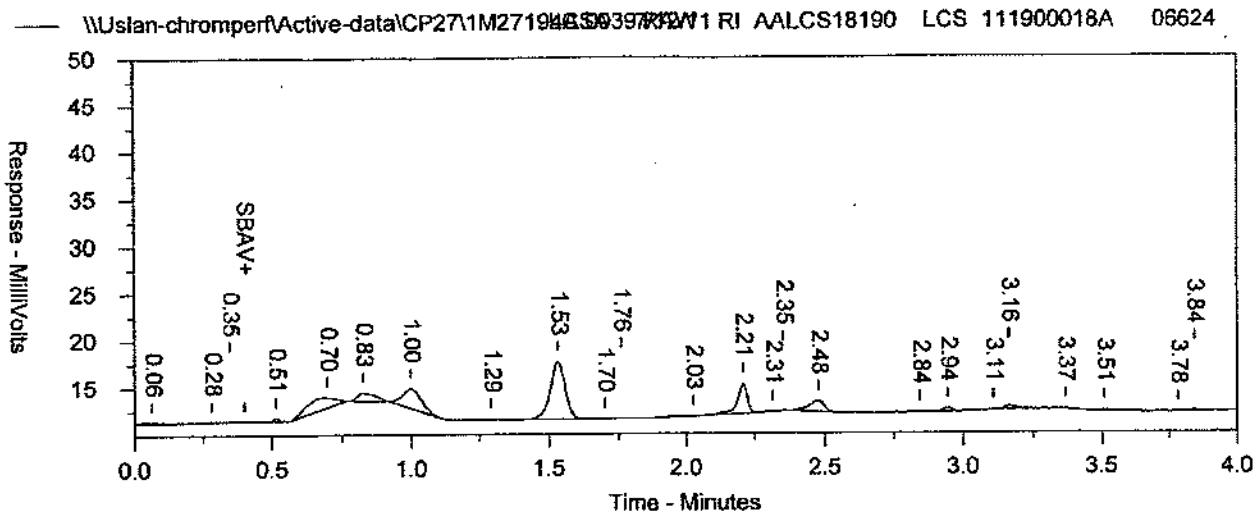
Verified by: Tracy A. Cole
Date: JUL 19 2011

Tracy A. Cole
Senior Specialist

USF83 2222

* Recovery outside QC Limits

Printed on: 7/14/2011 15:31:06



Sample Name = LCSA 7/12/11 RI AALCS18190 LCS 111900018A 06624

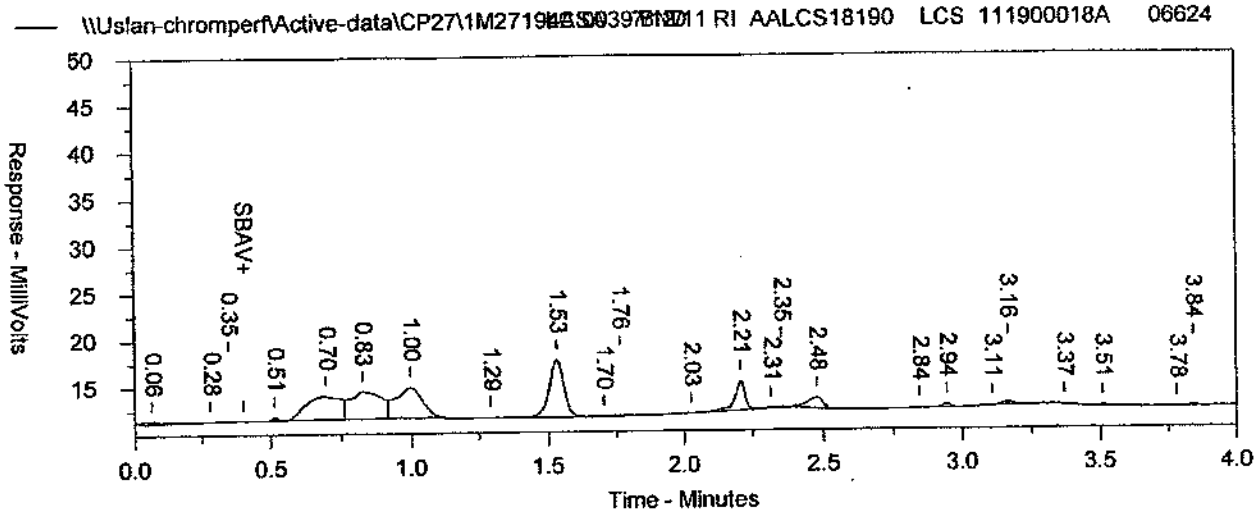
Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0039.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/14/2011 4:31:33 AM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Ethanol	0.83	400.39	10.137	893	4015
Isopropanol	1.00	975.01	24.685	2083	10132
Acetone	1.53	2574.42	65.178	6164	23071

Not Used
See Reintegration

USP03 2223



Sample Name = LCSA 7/12/11 RI AALCS18190 LCS 111900018A 06624

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0039.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
Time Injected = 7/14/2011 4:31:33 AM
Dilution Factor = 1
Peak Threshold = -10
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.70	2517.98	26.923	2449	21186 M
Ethanol	0.83	2208.79	23.617	2872	22147
Isopropanol	1.00	2051.48	21.935	3214	21319
Acetone	1.53	2574.42	27.526	6164	23071

M = Manually Integrated
Analyst [illegible] 7/14/11
Approved by [illegible]
Circle Reason (1) (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USF03 2224

Lancaster Laboratories Single Component Data Summary

Sample Name: **LCSDA** 7/12/11 RI LCSD18190 Sample ID: AA **Batchnumber: 111900018A**
Sample Amount: 1 ml Total Volume: 1 ml Analyst: 2343 SDG: State:
Analyses: 06624

Analysis Report (A)

Injected on : JUL 14, 2011 04:46:24
Instrument : CP27--H2739A
Result file : 1M27194A.0040.RAW
Calibration file : 1m27194a.CAL
Method file : LLM.MET

%SSR(Acetone) : 106.6% (54-147) Conc.: 2664.85131

Peak name	Min	R.T.	Max	Area	Amount
Methanol	0.62	0.69	0.68	24410	2901.184082
Ethanol	0.78	0.82	0.84	21386	2132.866211
Isopropanol	0.91	1.00	1.05	22014	2118.340332
Acetone	1.48	1.53	1.61	23881	2664.851318

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	A	2901.184082	1000	200			
☑ Ethanol	A	2132.866211	1000	200			
☑ Isopropanol	A	2118.340332	1000	200			
☐ Acetone	A	2664.851318					

Units: ug/l

Tracy A. Cole

Reviewed by: EM 7343
Date: 7/16/11

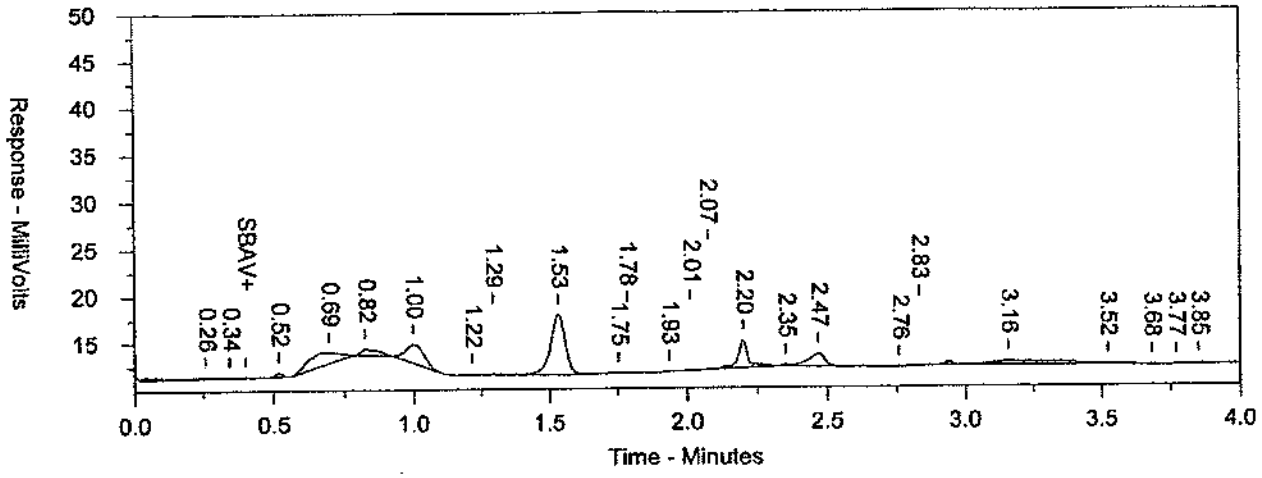
Verified by: JUL 19 2011
Date:
Tracy A. Cole
Senior Specialist

USF03 2225

* Recovery outside QC Limits

Printed on: 7/14/2011 15:32:33

\\Uslan-chromperf\Active-data\CP27\1M27[illegible]RAW RI AALCSD18190 LCSD 111900018A 06624



Sample Name = LCSDA 7/12/11 RI AALCSD18190 LCSD 111900018A 06624

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0040.RAW
Method File Name = Y:\CP27\lm.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

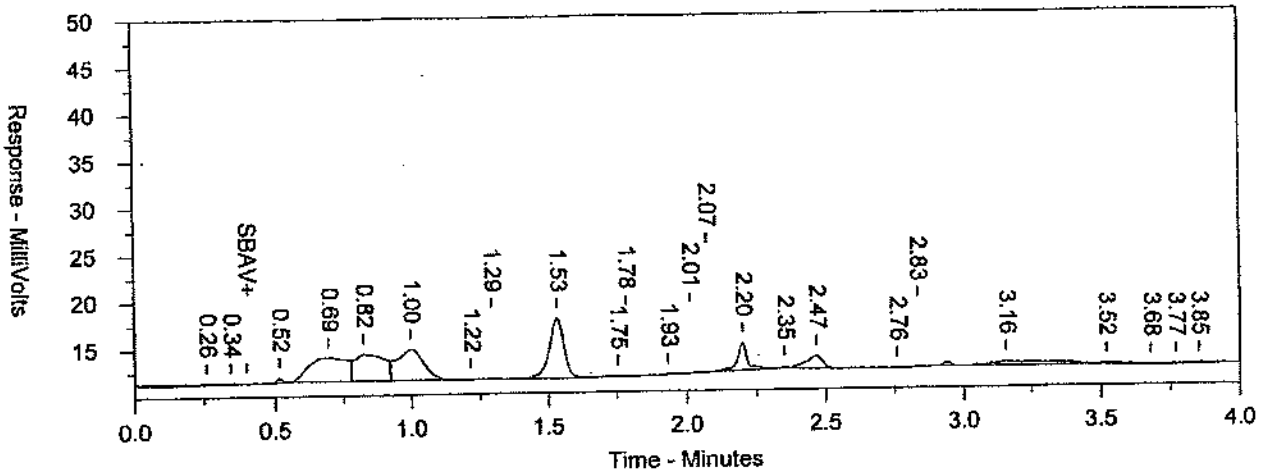
Time Injected = 7/14/2011 4:46:24 AM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Ethanol	0.82	314.53	8.092	686	3154
Isopropanol	1.00	907.60	23.350	1948	9432
Acetone	1.53	2664.85	68.558	6354	23881

Not Used
See Reinjection

USF03 2226

\\Uslan-chromperf\Active-data\CP27\1M27194A.0040.RAW LCSDA 7/12/11 RI AALCSD18190 LCSD 111900018A 06624



Sample Name = LCSDA 7/12/11 RI AALCSD18190 LCSD 111900018A 06624

Instrument = CP27
Detector = H2739A

Raw File Name = \\Uslan-chromperf\Active-data\CP27\1M27194A.0040.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLM.MET
Calibration File Name = Y:\CP27\1m27194a.CAL
Run Time = 4
Amount Injected = 1
Peak Width = #
Operator = 2343
40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; hold 0.5 min
Column: Restek, RTX200 30m x .53mm x 3um

Time Injected = 7/14/2011 4:46:24 AM
Dilution Factor = 1
Peak Threshold = -10

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.69	2901.18	29.552	2491	24410
Ethanol	0.82	2132.87	21.726	2826	21386
Isopropanol	1.00	2118.34	21.578	3265	22014
Acetone	1.53	2664.85	27.145	6354	23881

M = Manually Integrated
Analyst EM2343 7/14/11
Approved by _____
Circle Reason (1) (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

USFS 2227

Lancaster Laboratories Single Component Data Summary

Sample Name: BLANKA 7/14/11 PBLK30194 Sample ID: AA **Batchnumber: 111940030A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: State:
Analyses: 10501

Analysis Report (A)

Injected on : JUL 15, 2011 00:24:19
Instrument : CP27--H2739B
Result file : 5M27187B.0029.RAW
Calibration file : 1M27187.CAL
Method file : LLMB.MET

%SSR(Acetone) : 91.1% (42-138) Conc.: 2277.44904

Peak name	Min	R.T.	Max	Height	Amount
Methanol	0.50	0.54	0.56	188	67.271000
Acetone	2.01	2.08	2.14	6307	2277.449040

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	B	67.271000	<500	<100		0.00	
☑ Ethanol			<500	<100			
☐ Acetone	B	2277.449040				0.00	
☑ Isopropanol			<500	<100			

Units: ug/kg

Tracy A. Cole

Reviewed by: EM 1343
Date: 7/20/11

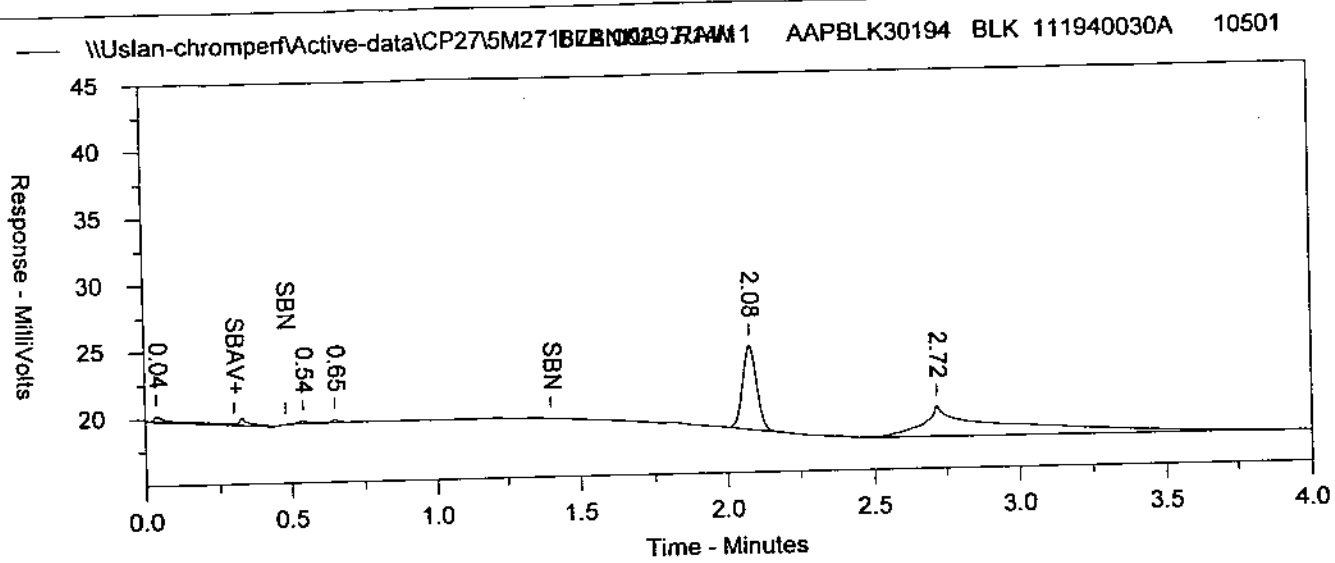
Verified by:
Date: JUL 21 2011

Tracy A. Cole
Senior Specialist

USP89 2229

* Recovery outside QC Limits

Printed on: 7/15/2011 00:28:36



Sample Name = BLANKA 7/14/11 AAPBLK30194 BLK 111940030A 10501

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0029.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/15/2011 12:24:19 AM
Dilution Factor = 5
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	67.27	2.869	188	651
Acetone	2.08	2277.45	97.131	6307	21575

USP83 2229

Lancaster Laboratories-Single Component Data Summary

Sample Name: **LCSA** 7/14/11 LCS30194 Sample ID: AA **Batchnumber: 111940030A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: State:
Analyses: 10501

Analysis Report (A)

Injected on : JUL 15, 2011 00:39:15
Instrument : CP27--H2739B
Result file : 5M27187B.0030.RAW
Calibration file : 1M27187.CAL
Method file : LLMB.MET
%SSR(Acetone) : 98.4% (42-138) Conc.: 2459.20807

Peak name	Min	R.T.	Max	Height	Amount
Methanol	0.50	0.54	0.56	6614	2367.621610
Ethanol	1.16	1.21	1.22	6186	2520.272220
Acetone	2.01	2.08	2.14	6810	2459.208070
Isopropanol	2.34	2.43	2.48	5865	2544.692080

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	B	2367.621610	500	100		0.00	
☑ Ethanol	B	2520.272220	500	100		0.00	
☐ Acetone	B	2459.208070				0.00	
☑ Isopropanol	B	2544.692080	500	100		0.00	

Units: ug/kg

Reviewed by: EM 13-13
Date: 7/20/11

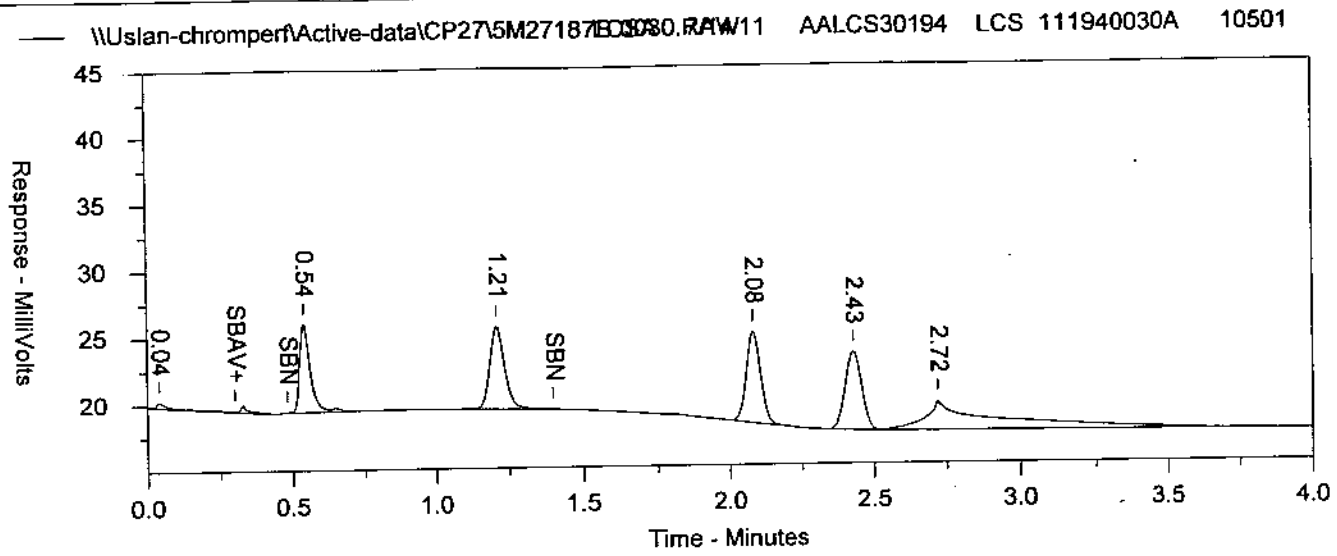
Verified by: Tracy A. Cole
Date: JUL 21 2011

Tracy A. Cole
Senior Specialist

USF93 2238

* Recovery outside QC Limits

Printed on: 7/15/2011 00:43:34



Sample Name = LCSA 7/14/11 AALCS30194 LCS 111940030A 10501

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0030.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/15/2011 12:39:15 AM
Dilution Factor = 5
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	2367.62	23.935	6614	17304
Ethanol	1.21	2520.27	25.478	6186	22044
Acetone	2.08	2459.21	24.861	6810	23429
Isopropanol	2.43	2544.69	25.725	5865	23292

USFS3 2231

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSDA 7/14/11 LCSD30194 Sample ID: AA **Batchnumber: 111940030A**
Sample Amount: 10 g Total Volume: 5 ml Analyst: 2343 SDG: State:
Analyses: 10501

Analysis Report (A)

Injected on : JUL 15, 2011 00:54:08
Instrument : CP27--H2739B
Result file : 5M27187B.0031.RAW
Calibration file : 1M27187.CAL
Method file : LLMB.MET

%SSR(Acetone) : 96.6% (42-138) Conc.: 2414.26102

Peak name	Min	R.T.	Max	Height	Amount
Methanol	0.50	0.53	0.56	6341	2270.121310
Ethanol	1.16	1.20	1.22	5895	2401.631620
Acetone	2.01	2.08	2.14	6686	2414.261020
Isopropanol	2.34	2.43	2.48	5566	2414.960630

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	B	2270.121310	500	100		0.00	
☑ Ethanol	B	2401.631620	500	100		0.00	
☐ Acetone	B	2414.261020				0.00	
☑ Isopropanol	B	2414.960630	500	100		0.00	

Units: ug/kg

Reviewed by: EM 7313
Date: 7/20/11

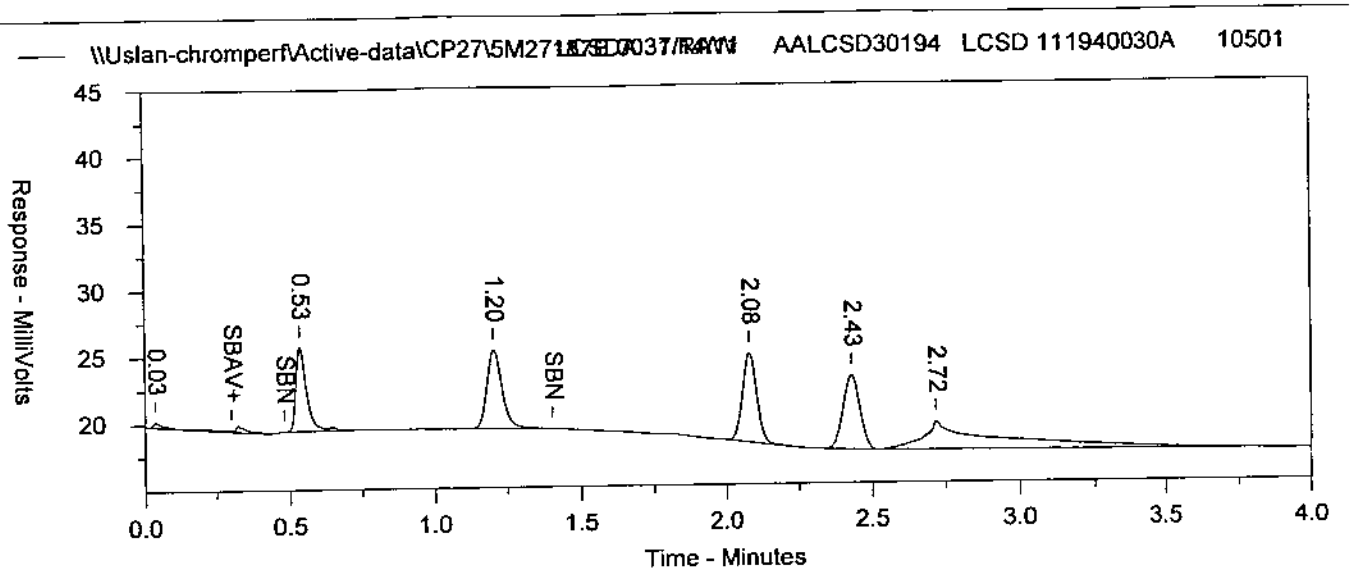
Verified by: Tracy A. Cole
Date: JUL 21 2011

Tracy A. Cole
Senior Specialist

USF03 2232

* Recovery outside QC Limits

Printed on: 7/15/2011 00:58:29



Sample Name = LCSDA 7/14/11 AALCSD30194 LCSD 111940030A 10501

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0031.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/15/2011 12:54:08 AM
Dilution Factor = 5
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min: 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.53	2270.12	23.894	6341	15983
Ethanol	1.20	2401.63	25.278	5895	21079
Acetone	2.08	2414.26	25.411	6686	23147
Isopropanol	2.43	2414.96	25.418	5566	22170

USF03 2233

Lancaster Laboratories Single Component Data Summary

Sample Name: **BLANKA** 7/12/11 RI PBLK18190 **Sample ID:** AA **Batchnumber:** 111900018A
Sample Amount: 1 ml Total Volume: 1 ml Analyst: 2343 SDG: State:
Analyses: 06624

Analysis Report (A)

Injected on : JUL 15, 2011 07:05:18
Instrument : CP27--H2739B
Result file : 5M27187B.0056.RAW
Calibration file : 1M27187.CAL
Method file : LLMB.MET

%SSR(Acetone) : 106.3% (54-147) Conc.: 2656.276367

Peak name	Min	R.T.	Max	Height	Amount
Methanol	0.50	0.54	0.56	408	292.435059
Acetone	2.01	2.08	2.14	3678	2656.276367

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	B	292.435059	<1000	200	J	0.00	<mdl on ICAL 471
☑ Ethanol			<1000	<200			
☐ Acetone	B	2656.276367				0.00	
☑ Isopropanol			<1000	<200			

Units: ug/l

Reviewed by: EM 7/13
Date: 7/16/11

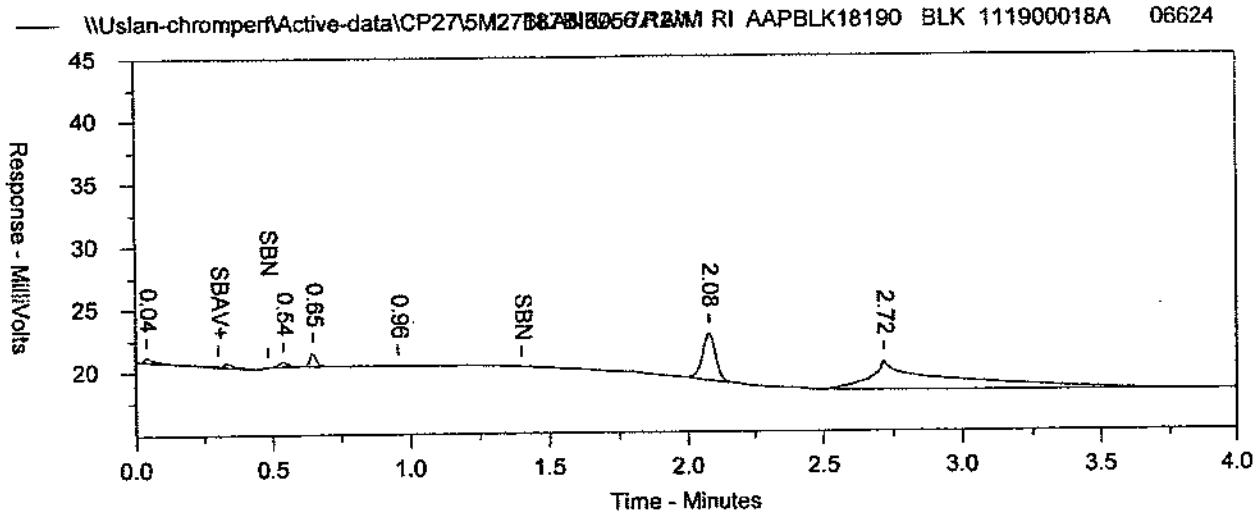
Verified by: Tracy A. Cole
Date: JUL 19 2011

Tracy A. Cole
Senior Specialist

USF93 2234

* Recovery outside QC Limits

Printed on: 7/15/2011 07:09:42



Sample Name = BLANKA 7/12/11 RI AAPBLK18190 BLK 111900018A 06624

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0056.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/15/2011 7:05:18 AM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	292.44	9.917	408	1085
Acetone	2.08	2656.28	90.083	3678	13145

Lancaster Laboratories Single Component Data Summary

Sample Name: LCSA 7/12/11 RI LCS18190 Sample ID: AA **Batchnumber: 111900018A**
Sample Amount: 1 ml Total Volume: 1 ml Analyst: 2343 SDG: State:
Analyses: 06624

See 1M27194A.39

Analysis Report (A)

Injected on : JUL 15, 2011 07:20:08
Instrument : CP27--H2739B
Result file : 5M27187B.0057.RAW
Calibration file : 1M27187.CAL
Method file : LLMB.MET
%SSR(Acetone) : 102.6% (54-147) Conc.: 2563.90185!

Peak name	Min	R.T.	Max	Height	Amount
Methanol	0.50	0.54	0.56	3329	2383.220215
Ethanol	1.16	1.21	1.22	2904	2366.258545
Acetone	2.01	2.08	2.14	3550	2563.901855
Isopropanol	2.34	2.42	2.48	2789	2420.154785

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	B	2383.220215	1000	200		0.00	
☑ Ethanol	B	2366.258545	1000	200		0.00	
☐ Acetone	B	2563.901855				0.00	
☑ Isopropanol	B	2420.154785	1000	200		0.00	

Units: ug/l

Reviewed by: EM 2343
Date: 7/16/11

Verified by: Tracy A. Cole
Date: JUL 19 2011

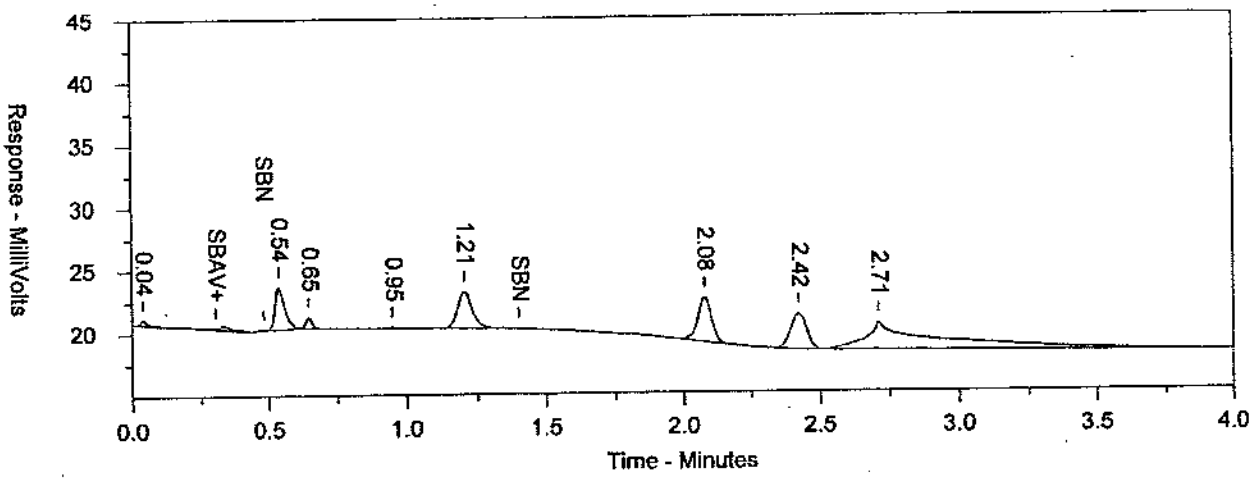
Tracy A. Cole
Senior Specialist

USP83 2236

* Recovery outside QC Limits

Printed on: 7/15/2011 07:24:25

\\Uslan-chromperf\Active-data\CP27\5M27187B.0057.RAW 7/12/11 RI AALCS18190 LCS 111900018A 06624



Sample Name = LCSA 7/12/11 RI AALCS18190 LCS 111900018A 06624

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0057.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time Injected = 7/15/2011 7:20:08 AM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	2383.22	24.485	3329	8236
Ethanol	1.21	2366.26	24.310	2904	10676
Acetone	2.08	2563.90	26.341	3550	12702
Isopropanol	2.42	2420.16	24.864	2789	11120

USEB3 2237

Lancaster Laboratories-Single Component Data Summary

Sample Name: LCSDA 7/12/11 RI LCSD18190 **Sample ID:** AA **Batchnumber:** 111900018A
Sample Amount: 1 ml Total Volume: 1 ml Analyst: 2343 SDG: State:
Analyses: 06624

see 1M27194A.40

Analysis Report (A)

Injected on : JUL 15, 2011 07:35:00
Instrument : CP27--H2739B
Result file : 5M27187B.0058.RAW
Calibration file : 1M27187.CAL
Method file : LLMB.MET
%SSR(Acetone) : 103.3% (54-147) Conc.: 2583.631348

Peak name	Min	R.T.	Max	Height	Amount
Methanol	0.50	0.54	0.56	3332	2385.992432
Ethanol	1.16	1.21	1.22	2903	2365.510010
Acetone	2.01	2.08	2.14	3577	2583.631348
Isopropanol	2.34	2.42	2.48	2775	2408.031982

Summary Report

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%Difference	Comments
☑ Methanol	B	2385.992432	1000	200		0.00	
☑ Ethanol	B	2365.510010	1000	200		0.00	
☐ Acetone	B	2583.631348				0.00	
☑ Isopropanol	B	2408.031982	1000	200		0.00	

Units: ug/l

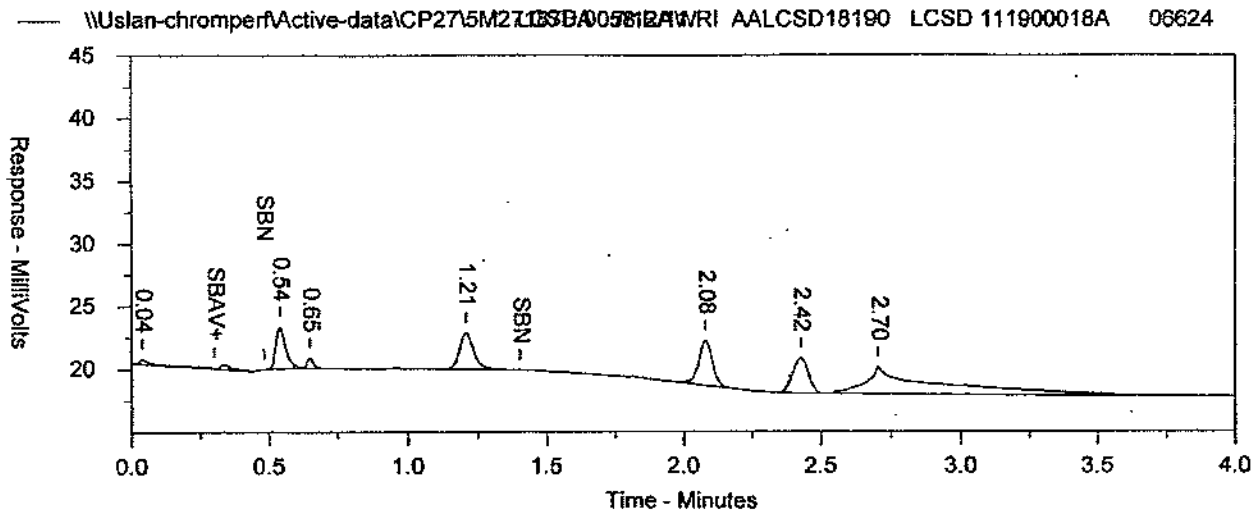
Reviewed by: EM 7213 Verified by: Tracy A. Cole
Date: 7/16/11 Date: JUL 19 2011

Tracy A. Cole
Senior Specialist

USF83 2238

* Recovery outside QC Limits

Printed on: 7/15/2011 07:39:20



Sample Name = LCSDA 7/12/11 RI AALCSD18190 LCSD 111900018A 06624

Instrument = CP27
Detector = H2739B

Raw File Name = \\Uslan-chromperf\Active-data\CP27\5M27187B.0058.RAW
Method File Name = \\USLAN-CHROMPERF\ACTIVE-DATA\CP27\LLMB.MET
Calibration File Name = Y:\CP27\1M27187.CAL
Run Time = 4
Amount Injected = 1
Peak Width = 0.05
Operator = 2343

Time injected = 7/15/2011 7:35:00 AM
Dilution Factor = 1
Peak Threshold = 0

40C for 1 minute; 35C/min to 110C; Hold 2 min; 30C/min to 200C; Hold 0.5 min
Column: Supelco, Custom Packed Column, MTO 26003, 2M x 0.25 in x 2 mm

	Ret. Time	Amount	Amt %	Height	Area
Methanol	0.54	2385.99	24.489	3332	8151
Ethanol	1.21	2365.51	24.279	2903	10728
Acetone	2.08	2583.63	26.517	3577	12684
Isopropanol	2.42	2408.03	24.715	2775	10861

USF93 2239

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog Assigned to: 2343 Elizabeth Marin Reviewed by: [illegible] Start Date: 7/12/11 Start time: 16:30

111900018A

Tech 1: EM 2343 Tech 2:

Dept: 32 Prep Analysis: 00000 Alcohol by Direct Injection

QC	Sample Code	Amt mL	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6338269MSD	EBQ02MSD	1	SS1118732A	0.01	MS1116832B	0.01	1			57A	
6338269MS	EBQ02MS	↓	SS1118732A	↓	MS1116832B	↓	↓			↓	
BLANKA	PBLK18190		SS1118732A								
LCSA	LCS18190		SS1118732A		MS1116832B	0.01					
LCSDA	LCSD18190	↓	SS1118732A	↓	MS1116832B	↓	↓				

Solvent Used	Lot No.
Di water	In house

Spike Solutions: Witness:

MS1116832B LLME Matrix Spike Solution

SS1118732A LLME Working Surrogate

	Sample #	Sample Code	Amt mL	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1	6338266	TBQ01	1	SS1118732A	0.01	1			57A		06624	07/19/2011	S
2	6338267	TBQ02	↓	SS1118732A	↓	↓			↓		08624	07/19/2011	S
3	6338269	EBQ02		SS1118732A							06624	07/19/2011	S
4	6339388	EBQ03		SS1118732A							06624	07/20/2011	S
5	6339389	TBQ05		SS1118732A							06624	07/20/2011	S
6	6339390	TBQ04	↓	SS1118732A	↓	↓			↓		06624	07/20/2011	S

Rack ID:		Work Station	
Internal Standard		Balance #	

DF = Dilution Factor FV = Final Volume

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	111900018A

Documented temps are NIST corrected.

B10111900018A

Organic Extraction Batchlog Assigned to: 2268 Tyler Griffin Reviewed by: MCL Start Date: 7/21/11

111940030A

Tech 1: EM7343 Tech 2: _____ 7/21/11

Solvent Used	Lot No.
Milli Q water	In house

Dept: 32 Prep Analysis: 00380 Solids Extraction for Alcohols Alcohols in Soil

QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
* 6342267MS	WR483	11	SS1118732A	0.1	MS1119432E	0.1	5	Z	Z	78A	
* 6342268MSD	WR483	11	SS1118732A	↓	MS1119432E	↓	↓	Z	Z	↓	
BLANKA	PBLK30194	10	SS1118732A	↓			↓	Z	Z		
LCSA	LCS30194	↓	SS1118732A	↓	MS1119432E	0.1	↓	Z	Z		
LCSDA	LCSD30194	↓	SS1118732A	↓	MS1119432E	↓	↓	Z	Z		

Spike Solutions: Witness: _____

MS1119432E LLME Matrix Spike Solution

SS1118732A LLME Working Surrogate

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1 6339376 R	74S45	10	SS1118732A	0.1	5	Z	Z	78		10501	07/22/2011	S
2 6339385 R	82S40	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/22/2011	S
3 6339387 R	87S40	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/22/2011	S
4 6340961	WR473	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/25/2011	S
5 6342262	WR143	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/26/2011	S
6 6342264	WR28-	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/26/2011	S
* 7 6342266BKG	WR483	11	SS1118732A	↓	↓	Z	Z	↓		10501	07/26/2011	S
* 8 6342273	WR483	10	SS1118732A	↓	↓	Z	Z	↓	BL LCS	10501	07/26/2011	S
9 6342275	WR793	↓	SS1118732A	↓	↓	Z	Z	78A		10501	07/26/2011	S
10 6342277	WR833	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/26/2011	S
* 11 6342279	WR893	12	SS1118732A	↓	↓	Z	Z	↓		10501	07/27/2011	S
12 6343302	WR325	10	SS1118732A	↓	↓	Z	Z	↓		10501	07/27/2011	S
13 6343304	WR763	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/27/2011	S
14 6343325	WR335	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/27/2011	S
15 6343327 -	WR463	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/27/2011	S
16 6343329	WR775	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/27/2011	S
17 6343331 ~	WR843	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/27/2011	S

Rack ID:		Work Station	
Internal Standard		Balance #	

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	111940030A

Documented temps are NIST corrected.

B10111940030A

DF = Dilution Factor FV = Final Volume

Organic Extraction Batchlog Assigned to: 2268 Tyler Griffin

Reviewed by: [illegible] Start Date: 7/9/11 Start time: 18:30

111900017A

Tech 1: EM1210 Tech 2: _____

Dept: 32 Prep Analysis: 00380 Solids Extraction for Alcohols Alcohols in Soil

QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANKA	PBLK17190	10	SS1118732A	0.1			5	Z	Z		
LCSA	LCS17190	↓	SS1118732A	↓	MS1116832B	0.1	↓	Z	Z		
LCSDA	LCSD17190	↓	SS1118732A	↓	MS1116832B	↓	↓	Z	Z		

Solvent Used	Lot No.
Milli Q water	In house

Spike Solutions: Witness: _____

MS1116832B LLME Matrix Spike Solution

SS1118732A LLME Working Surrogate

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1 6339376	74S45	10	SS1118732A	0.1	5	Z	Z	78A		10501	07/20/2011	S
2 6339385	82S40	↓	SS1118732A	↓	↓	Z	Z	↓	water in silver bag	10501	07/20/2011	S
3 6339387	87S40	↓	SS1118732A	↓	↓	Z	Z	↓		10501	07/20/2011	S

Rack ID:		Work Station	
Internal Standard	...	Balance #	

DF = Dilution Factor FV = Final Volume

Page 1 of 1

S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C	111900017A

Documented temps are NIST corrected

B10111900017A

Metals in Liquid Data

USF03 2244

Case Narrative
Conformance/Nonconformance Summary

Lancaster Laboratories

Where quality is a science.

CASE NARRATIVE FOR INORGANICS

Laboratory Name: Lancaster Laboratories

SDG Number: USF03W

Date Received: 07/09/2011

Dilutions:

Refer to the analysis run logs for samples requiring dilutions.

Explanatory Notes:

The instrument detection limits (IDLs) are used for determining the U flags on the initial and continuing calibration blanks. The highest IDL is selected when multiple instruments are used for an analysis. The method detection limits (MDLs) are used for determining all other U flags.

The final concentration (ug/l) is obtained using the following calculation:

$$\text{Instrument reading (ug/l)} \times \frac{\text{final volume}}{\text{initial volume}} \times \text{dilution factor}$$

Data Package Assembly:

This sample delivery group was separated by matrix into two data packages, USF03S and USF03W, due to limitations of the data package generating software.

Case Narrative reviewed and approved by:

Betty L. Umble
Specialist

FOR Date 07-30-11

Dana M. Kauffman, Manager
Data Deliverables

USF03 2246

Sample Data

USF83 2247

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: WATER Level (low/med): LOW

Lab Sample ID: 6339388 % Solids: 0.0
Concentration Units: UG/L Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	80.1	U		P
7440-36-0	Antimony	0.42	U		MS
7440-38-2	Arsenic	0.95	U		MS
7440-39-3	Barium	0.69	U		MS
7440-41-7	Beryllium	0.13	U		MS
7440-42-8	Boron	9.2	B		P
7440-43-9	Cadmium	0.20	U		MS
7440-70-2	Calcium	70.5	U		P
7440-47-3	Chromium	0.60	U		MS
7440-48-4	Cobalt	0.10	U		MS
7440-50-8	Copper	0.38	U		MS
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	0.080	U		MS
7439-93-2	Lithium	7.6	U		P
7439-95-4	Magnesium	6.7	U		P
7439-96-5	Manganese	0.44	U		P
7439-97-6	Mercury	0.026	U		CV
7439-98-7	Molybdenum	0.25	U		MS
7440-02-0	Nickel	0.50	U		MS
7723-14-0	Phosphorus	4.7	U		P
7440-09-7	Potassium	87.4	U		P
7782-49-2	Selenium	0.27	U		MS
7440-22-4	Silver	0.098	U		MS
7440-23-5	Sodium	64.7	U		P
7440-24-6	Strontium	0.43	B		P
7440-28-0	Thallium	0.15	U		MS
7440-31-5	Tin	4.3	U		P
7440-32-6	Titanium	0.46	U		P
7440-62-2	Vanadium	0.18	U		MS
7440-66-6	Zinc	4.0	U		MS
7440-67-7	Zirconium	4.2	U		P

Comments:

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U = Below MDL,
MS = ICP Mass Spectrometry	B = Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	
NR = Not Required	

Quality Control and Calibration Summary Forms

USF03 2249

Lancaster Laboratories

QUALITY CONTROL REFERENCE LIST

SDG No.: USF03
Matrix: WATER

Analyte	Batch ID	Lab Sample ID
Aluminum	P19348B	6339388
Boron		P19348BB
Calcium		P19348BQ
Iron		P19348BY
Lithium		
Magnesium		
Manganese		
Phosphorus		
Potassium		
Sodium		
Strontium		
Tin		
Titanium		
Zirconium		

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

Lancaster Laboratories

QUALITY CONTROL REFERENCE LIST

SDG No.: USF03
Matrix: WATER

Analyte	Batch ID	Lab Sample ID
Antimony	P19350C	6339388
Arsenic		P19350CB
Barium		P19350CQ
Beryllium		P19350CY
Cadmium		
Chromium		
Cobalt		
Copper		
Lead		
Molybdenum		
Nickel		
Selenium		
Silver		
Thallium		
Vanadium		
Zinc		

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

Lancaster Laboratories

QUALITY CONTROL REFERENCE LIST

SDG No.: USF03
Matrix: WATER

Analyte	Batch ID	Lab Sample ID
Mercury	P19313D	6339388
		P19313DB
		P19313DQ
		P19313DY

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: P
Run Name: 1119801T70
Calibration Date(s): 07/17/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Aluminum		30000.0	29744.43	99.1	25000.0	25013.51	100.1	25000.0	25247.04	101.0
Boron		600.0	592.68	98.8	500.0	493.49	98.7	500.0	502.99	100.6
Calcium		30000.0	30129.92	100.4	25000.0	25419.82	101.7	25000.0	25785.61	103.1
Iron		30000.0	30620.47	102.1	25000.0	26092.37	104.4	25000.0	26262.91	105.1
Lithium		600.0	602.79	100.5	500.0	507.55	101.5	500.0	514.23	102.8
Magnesium		30000.0	29722.25	99.1	25000.0	25164.75	100.7	25000.0	25593.81	102.4
Manganese		600.0	590.23	98.4	500.0	503.43	100.7	500.0	509.15	101.8
Phosphorus		600.0	605.59	100.9	500.0	505.27	101.1	500.0	508.04	101.6
Potassium		30000.0	29881.71	99.6	25000.0	24681.15	98.7	25000.0	24267.50	97.1
Sodium		30000.0	29608.78	98.7	25000.0	24944.50	99.8	25000.0	25758.78	103.0
Strontium		600.0	602.42	100.4	500.0	515.39	103.1	500.0	527.16	105.4
Tin		600.0	577.13	96.2	500.0	483.41	96.7	500.0	488.40	97.7
Titanium		600.0	601.86	100.3	500.0	510.82	102.2	500.0	515.20	103.0
Zirconium		600.0	595.30	99.2	500.0	501.35	100.3	500.0	494.86	99.0

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: MS
Run Name: 1119408E03
Calibration Date(s): 07/13/2011
Concentration Units: UG/L

		Initial Calibration			Continuing Calibration					
Analyte	Mass	True	Found	%R(1)	True	Found	%R(2)	True	Found	%R(2)
Antimony	121	50.0	50.63	101.3	25.0	25.10	100.4	25.0	25.71	102.8
Arsenic	75	500.0	488.00	97.6	250.0	251.40	100.6	250.0	245.90	98.4
Barium	137	500.0	502.10	100.4	250.0	253.30	101.3	250.0	252.30	100.9
Beryllium	9	50.0	51.17	102.3	25.0	26.06	104.2	25.0	25.99	104.0
Cadmium	111	50.0	50.45	100.9	25.0	25.42	101.7	25.0	25.96	103.8
Chromium	52	500.0	506.70	101.3	250.0	257.80	103.1	250.0	255.30	102.1
Cobalt	59	500.0	489.60	97.9	250.0	251.40	100.6	250.0	251.70	100.7
Copper	63	500.0	497.00	99.4	250.0	255.40	102.2	250.0	255.60	102.2
Lead	208	50.0	50.18	100.4	25.0	25.34	101.4	25.0	25.02	100.1
Molybdenum	98	50.0	49.03	98.1	25.0	25.50	102.0	25.0	26.12	104.5
Nickel	60	500.0	511.90	102.4	250.0	266.50	106.6	250.0	269.60	107.8
Selenium	78	50.0	50.64	101.3	25.0	25.29	101.2	25.0	25.49	102.0
Silver	107	50.0	50.00	100.0	25.0	25.72	102.9	25.0	26.00	104.0
Thallium	203	50.0	50.08	100.2	25.0	25.79	103.2	25.0	25.21	100.8
Vanadium	51	500.0	505.40	101.1	250.0	256.00	102.4	250.0	251.30	100.5
Zinc	66	500.0	487.90	97.6	250.0	251.40	100.6	250.0	256.40	102.6

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: CV
Run Name: 1119302M06
Calibration Date(s): 07/12/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Mercury		2.5	2.49	99.6	1.0	1.00	100.0	1.0	0.99	99.0

(1) Control Limits: 90 - 110
(2) Control Limits: 80 - 120

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: P
Run Name: 1119801T70
Calibration Date(s): 07/17/2011
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum		200.0	190.34	95.2	189.94	95.0
Boron		50.0	48.06	96.1	49.80	99.6
Calcium		200.0	206.64	103.3	209.24	104.6
Iron		200.0	210.50	105.3	212.92	106.5
Lithium		20.0	17.47	87.4	19.40	97.0
Magnesium		100.0	102.76	102.8	104.92	104.9
Manganese		5.0	5.11	102.2	5.27	105.4
Phosphorus		100.0	100.69	100.7	101.63	101.6
Potassium		500.0	473.29	94.7	463.02	92.6
Sodium		1000.0	958.95	95.9	1003.09	100.3
Strontium		5.0	5.17	103.4	5.26	105.2
Tin		20.0	19.15	95.8	19.88	99.4
Titanium		10.0	10.08	100.8	10.22	102.2
Zirconium		50.0	53.40	106.8	46.73	93.5

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: MS
Run Name: 1119408E03
Calibration Date(s): 07/13/2011
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Antimony	121	1.0	1.04	104.0	0.99	99.0
Arsenic	75	2.0	2.04	102.0	2.05	102.5
Barium	137	2.0	1.88	94.0	2.04	102.0
Beryllium	9	0.5	0.53	106.0	0.52	104.0
Cadmium	111	0.5	0.57	114.0	0.49	98.0
Chromium	52	2.0	2.00	100.0	1.86	93.0
Cobalt	59	0.5	0.50	100.0	0.51	102.0
Copper	63	2.0	2.06	103.0	2.06	103.0
Lead	208	1.0	1.01	101.0	0.99	99.0
Molybdenum	98	0.5	0.51	102.0	0.41	82.0
Nickel	60	2.0	2.07	103.5	1.88	94.0
Selenium	78	2.0	1.94	97.0	1.82	91.0
Silver	107	0.5	0.51	102.0	0.56	112.0
Thallium	203	0.5	0.48	96.0	0.49	98.0
Vanadium	51	0.5	0.49	98.0	0.42	84.0
Zinc	66	15.0	14.60	97.3	15.30	102.0

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: CV
Run Name: 1119302M06
Calibration Date(s): 07/12/2011
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Mercury		0.2	0.18	90.0		

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: P
Run Name: 1119801T70
Calibration Date(s): 07/17/2011
Preparation Blank Matrix: WATER

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Mass	Preparation Blank (UG/L)	C	Lab Sample ID
Aluminum		66.7	U	66.7	U	66.7	U				80.100	U	P19348BB
Boron		15.0	U	15.0	U	15.0	U				6.630	B	P19348BB
Calcium		66.7	U	66.7	U	66.7	U				70.500	U	P19348BB
Iron		66.7	U	66.7	U	66.7	U				14.100	U	P19348BB
Lithium		2.8	U	2.8	U	2.8	U				7.600	U	P19348BB
Magnesium		33.4	U	33.4	U	33.4	U				10.400	B	P19348BB
Manganese		1.0	U	1.0	U	1.0	U				0.440	U	P19348BB
Phosphorus		-1.9	B	-2.9	B	-1.9	B						
Potassium		100	U	100	U	100	U				87.400	U	P19348BB
Sodium		334	U	334	U	334	U				64.700	U	P19348BB
Strontium		0.33	U	0.33	U	0.33	U				0.330	B	P19348BB
Tin		1.3	U	1.3	U	1.3	U				4.300	U	P19348BB
Titanium		0.11	U	0.11	U	0.11	U				0.460	U	P19348BB
Zirconium		6.3	U	6.3	U	6.3	U						

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: MS
Run Name: 1119408E03
Calibration Date(s): 07/13/2011
Preparation Blank Matrix: WATER

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (UG/L) Mass		C	Lab Sample ID
Antimony	121	0.30	U	0.30	U	0.30	U			121	0.420	U	P19350CB
Arsenic	75	0.40	U	0.40	U	0.40	U			75	0.950	U	P19350CB
Barium	137	0.53	U	0.53	U	0.53	U			137	0.690	U	P19350CB
Beryllium	9	0.058	B	0.050	U	0.050	U			9	0.130	U	P19350CB
Cadmium	111	0.20	U	0.20	U	0.20	U			111	0.200	U	P19350CB
Chromium	52	0.60	U	0.60	U	0.60	U			52	0.600	U	P19350CB
Cobalt	59	0.10	U	0.10	U	0.10	U			59	0.100	U	P19350CB
Copper	63	0.20	U	0.20	U	0.20	U			63	0.380	U	P19350CB
Lead	208	0.050	U	0.050	U	0.050	U			208	0.080	U	P19350CB
Molybdenum	98	0.25	U	0.25	U	0.25	U			98	0.250	U	P19350CB
Nickel	60	0.50	U	0.50	U	0.50	U			60	0.500	U	P19350CB
Selenium	78	0.20	U	0.20	U	0.20	U			78	0.270	U	P19350CB
Silver	107	0.060	U	0.060	U	0.060	U			107	0.098	U	P19350CB
Thallium	203	0.090	U	0.090	U	0.090	U			203	0.150	U	P19350CB
Vanadium	51	0.11	U	0.11	U	0.11	U			51	0.180	U	P19350CB
Zinc	66	2.0	U	2.0	U	2.0	U			66	4.000	U	P19350CB

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: CV
Run Name: 1119302M06
Calibration Date(s): 07/12/2011
Preparation Blank Matrix: WATER

		Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (UG/L)			
Analyte	Mass		C	1	C	2	C	3	C	Mass		C	Lab Sample ID
Mercury		0.067	U	0.067	U	0.067	U				-0.029	B	P19313DB

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4A
ICP-AES INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11016
Run Name: 1119801T70
Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500000	500000	550308	110.1	541939.8	108.4	548538	109.7	553806.6	110.8
Boron	0	0	34		37.1		39		42.6	
Calcium	500000	500000	503719	100.7	505121.8	101.0	511039	102.2	514202.3	102.8
Iron	200000	200000	202723	101.4	200255.1	100.1	203927	102.0	205499.1	102.7
Lithium	0	0	0		1.2		2		-1.3	
Magnesium	500000	500000	513326	102.7	512942.6	102.6	521548	104.3	517098.7	103.4
Manganese	0	500	5		478.9	95.8	5		491.6	98.3
Phosphorus	0	0	2		3.0		3		4.3	
Potassium	0	0	-88		-61.7		-47		-31.0	
Sodium	0	0	5		-3.1		-4		7.0	
Strontium	0	0	4		3.5		4		3.5	
Tin	0	0	-1		0.3		0		-0.6	
Titanium	0	0	-4		-3.2		-4		-3.2	
Zirconium	0	0	-14		-12.3		-13		-12.7	

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1119408E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	10160	101.6	10350.0	103.5
Antimony	121	0	0	0		0.1	
Arsenic	75	0	20	0		20.0	100.0
Barium	137	0	0	0		0.0	
Beryllium	9	0	0	0		0.0	
Cadmium	111	0	20	0		20.3	101.5
Calcium	44	10000	10000	9539	95.4	9676.0	96.8
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium	52	0	20	0		20.9	104.5
Cobalt	59	0	20	0		19.7	98.5
Copper	63	0	20	0		19.4	97.0
Iron	57	10000	10000	10230	102.3	10430.0	104.3
Lead	208	0	0	0		0.0	
Magnesium	24	10000	10000	10230	102.3	10390.0	103.9
Molybdenum	98	200	200	205	102.5	201.2	100.6
Nickel	60	0	20	0		20.4	102.0
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	11880	118.8	12100.0	121.0
Selenium	78	0	0	0		0.0	
Silver	107	0	20	0		19.7	98.5
Sodium	23	10000	10000	10450	104.5	10430.0	104.3
Sulfur	34	10000	10000	NA		NA	
Thallium	203	0	0	0		0.0	
Titanium	47	200	200	207	103.5	198.9	99.5
Vanadium	51	0	0	0		0.0	
Zinc	66	0	20	0		19.6	98.0

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1119408E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	10060	100.6	10220.0	102.2
Antimony	121	0	0	0		0.0	
Arsenic	75	0	20	0		20.1	100.5
Barium	137	0	0	0		0.0	
Beryllium	9	0	0	0		0.0	
Cadmium	111	0	20	0		20.7	103.5
Calcium	44	10000	10000	9633	96.3	9702.0	97.0
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium	52	0	20	0		20.8	104.0
Cobalt	59	0	20	0		20.1	100.5
Copper	63	0	20	0		20.7	103.5
Iron	57	10000	10000	10260	102.6	10480.0	104.8
Lead	208	0	0	0		0.0	
Magnesium	24	10000	10000	10100	101.0	10450.0	104.5
Molybdenum	98	200	200	203	101.5	206.7	103.4
Nickel	60	0	20	0		20.5	102.5
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	11740	117.4	11910.0	119.1
Selenium	78	0	0	0		0.0	
Silver	107	0	20	0		20.5	102.5
Sodium	23	10000	10000	10170	101.7	10530.0	105.3
Sulfur	34	10000	10000	NA		NA	
Thallium	203	0	0	0		0.0	
Titanium	47	200	200	213	106.5	201.3	100.7
Vanadium	51	0	0	0		0.0	
Zinc	66	0	20	0		21.1	105.5

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 7 (LCS/LCSD)
LABORATORY CONTROL SAMPLE/SAMPLE DUPLICATE
SDG No.: USF03
Matrix: WATER

Analyte	Mass	Lab Sample ID LCS	Lab Sample ID LCSD	Units	True	LCS Found	LCS C	LCS %R	LCSD Found	LCSD C	LCSD %R	Control Limits (%)	RPD	M	In Spec
Aluminum		P19348BQ	P19348BY	UG/L	2000.0	2095.72		105	2062.92		103	80 - 120	2	P	Yes
Antimony	121	P19350CQ	P19350CY	UG/L	6.0	6.30		105	6.05		101	87 - 110	4	MS	Yes
Arsenic	75	P19350CQ	P19350CY	UG/L	10.0	10.81		108	10.63		106	86 - 111	2	MS	Yes
Barium	137	P19350CQ	P19350CY	UG/L	50.0	49.72		99	49.84		100	88 - 113	0	MS	Yes
Beryllium	9	P19350CQ	P19350CY	UG/L	4.0	4.32		108	4.30		108	90 - 113	0	MS	Yes
Boron		P19348BQ	P19348BY	UG/L	2000.0	1989.70		99	1964.97		98	80 - 120	1	P	Yes
Cadmium	111	P19350CQ	P19350CY	UG/L	5.0	5.54		111	5.13		103	90 - 114	8	MS	Yes
Calcium		P19348BQ	P19348BY	UG/L	4000.0	4091.12		102	4059.27		101	80 - 120	1	P	Yes
Chromium	52	P19350CQ	P19350CY	UG/L	50.0	53.43		107	54.28		109	90 - 118	2	MS	Yes
Cobalt	59	P19350CQ	P19350CY	UG/L	250.0	258.00		103	253.60		101	87 - 113	2	MS	Yes
Copper	63	P19350CQ	P19350CY	UG/L	50.0	52.92		106	52.82		106	90 - 113	0	MS	Yes
Iron		P19348BQ	P19348BY	UG/L	1000.0	1045.53		105	1026.32		103	80 - 120	2	P	Yes
Lead	208	P19350CQ	P19350CY	UG/L	15.0	15.60		104	15.52		103	90 - 115	1	MS	Yes
Lithium		P19348BQ	P19348BY	UG/L	1000.0	999.90		100	994.91		99	80 - 120	1	P	Yes
Magnesium		P19348BQ	P19348BY	UG/L	2000.0	2018.73		101	1999.69		100	80 - 120	1	P	Yes
Manganese		P19348BQ	P19348BY	UG/L	500.0	511.56		102	504.70		101	80 - 120	1	P	Yes
Mercury		P19313DQ	P19313DY	UG/L	1.0	0.96		96	0.95		95	80 - 120	1	CV	Yes
Molybdenum	98	P19350CQ	P19350CY	UG/L	50.0	52.66		105	52.05		104	89 - 115	1	MS	Yes
Nickel	60	P19350CQ	P19350CY	UG/L	50.0	54.42		109	53.05		106	90 - 113	3	MS	Yes
Phosphorus		P19348BQ	P19348BY	UG/L	1000.0	1007.21		101	1004.21		100	80 - 120	0	P	Yes
Potassium		P19348BQ	P19348BY	UG/L	10000.0	9664.54		97	9499.91		95	80 - 120	2	P	Yes
Selenium	78	P19350CQ	P19350CY	UG/L	10.0	10.67		107	10.70		107	85 - 114	0	MS	Yes
Silver	107	P19350CQ	P19350CY	UG/L	50.0	52.61		105	51.72		103	90 - 115	2	MS	Yes
Sodium		P19348BQ	P19348BY	UG/L	10000.0	9798.93		98	9720.71		97	80 - 120	1	P	Yes
Strontium		P19348BQ	P19348BY	UG/L	1000.0	1046.50		105	1027.66		103	80 - 120	2	P	Yes
Thallium	203	P19350CQ	P19350CY	UG/L	2.0	2.01		101	2.15		108	89 - 116	7	MS	Yes
Tin		P19348BQ	P19348BY	UG/L	4000.0	3910.79		98	3901.78		98	80 - 120	0	P	Yes
Titanium		P19348BQ	P19348BY	UG/L	1000.0	1027.70		103	1011.79		101	80 - 120	2	P	Yes
Vanadium	51	P19350CQ	P19350CY	UG/L	50.0	52.56		105	53.60		107	89 - 116	2	MS	Yes
Zinc	66	P19350CQ	P19350CY	UG/L	50.0	51.38		103	52.07		104	90 - 116	1	MS	Yes
Zirconium		P19348BQ	P19348BY	UG/L	1000.0	1001.68		100	980.60		98	80 - 120	2	P	Yes

RPD Control Limit: 20

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

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QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: USF03

Method: P
Instrument ID: 11016
Date: 07/2011

Analyte	Wavelength (nm)	Background	IDL (UG/L)
Aluminum	308.21		66.7
Boron	249.67		15.0
Calcium	317.93		66.7
Iron	261.19		66.7
Lithium	670.78		2.8
Magnesium	285.21		33.4
Manganese	257.61		1.0
Phosphorus	177.49		1.2
Potassium	766.49		100
Sodium	589.59		334
Strontium	421.55		0.33
Tin	189.99		1.3
Titanium	334.94		0.11
Zirconium	339.19		6.3

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: USF03

Method: MS
Instrument ID: 11332
Date: 04/2011

Analyte	MASS (amu)	Background	IDL (UG/L)
Antimony	121		0.30
Arsenic	75		0.40
Barium	137		0.53
Beryllium	9		0.050
Cadmium	111		0.20
Chromium	52		0.60
Cobalt	59		0.10
Copper	63		0.20
Lead	208		0.050
Molybdenum	98		0.25
Nickel	60		0.50
Selenium	78		0.20
Silver	107		0.060
Thallium	203		0.090
Vanadium	51		0.11
Zinc	66		2.0

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: USF03

Method: CV
Instrument ID: 62347
Date: 04/2011

Analyte	Wavelength (nm)	Background	IDL (UG/L)
Mercury	254.00		0.067

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: USF03
Matrix: WATER

Method: P
Date: 06/2011

Analyte	Wavelength (nm)	Background	LOQ (UG/L)	MDL (UG/L)
Aluminum	308.21		200	80.1
Boron	249.67		50.0	2.2
Calcium	317.93		200	70.5
Iron	261.19		200	14.1
Lithium	670.78		20.0	7.6
Magnesium	285.21		100	6.7
Manganese	257.61		5.0	0.44
Phosphorus	177.49		100	4.7
Potassium	766.49		500	87.4
Sodium	589.59		1000	64.7
Strontium	421.55		5.0	0.22
Tin	189.99		20.0	4.3
Titanium	334.94		10.0	0.46
Zirconium	339.19		50.0	4.2

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: USF03
Matrix: WATER

Method: MS
Date: 06/2011

Analyte	Mass	Background	LOQ (UG/L)	MDL (UG/L)
Antimony	121		1.0	0.42
Arsenic	75		2.0	0.95
Barium	137		2.0	0.69
Beryllium	9		0.50	0.13
Cadmium	111		0.50	0.20
Chromium	52		2.0	0.60
Cobalt	59		0.50	0.10
Copper	63		2.0	0.38
Lead	208		1.0	0.080
Molybdenum	98		0.50	0.25
Nickel	60		2.0	0.50
Selenium	78		2.0	0.27
Silver	107		0.50	0.098
Thallium	203		0.50	0.15
Vanadium	51		0.50	0.18
Zinc	66		15.0	4.0

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: USF03
Matrix: WATER

Method: CV
Date: 06/2011

Analyte	Wavelength (nm)	Background	LOQ (UG/L)	MDL (UG/L)
Mercury	254.00		0.20	0.026

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)
SDG No.: USF03

Instrument ID: 11016
Date: 05/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: AL	CA	FE	MG	AG
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.67	0.0000000	0.0000000	0.0010500	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.78	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	177.49	0.0001620	0.0000000	0.0000420	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0045200

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)
SDG No.: USF03

Instrument ID: 11016
Date: 05/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: B	CO	CR	CU	MO
Aluminum	308.21	0.0000000	-0.0003630	-0.0063900	0.0000000	0.0048000
Boron	249.67	0.0000000	-0.0007010	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.78	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	177.49	0.0000000	-0.0000800	0.0000000	0.0008590	-0.0005060
Potassium	766.49	0.0021350	0.0000000	0.0000000	0.0000000	-0.0004100
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.94	0.0000000	0.0000000	0.0002440	0.0000000	0.0000000

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)
SDG No.: USF03

Instrument ID: 11016
Date: 05/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: NI	SI	TI	V	--
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0368000	
Boron	249.67	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Lithium	670.78	0.0000000	0.0000000	0.0000000	0.0000000	
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	
Phosphorus	177.49	0.0002800	0.0004740	0.0000000	0.0000000	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 12
LINEAR RANGES
SDG No.: USF03

Method: P
Instrument ID: 11016
Date: 07/2011

Analyte	Wavelength (nm)	Integration Time (Sec.)	Concentration (ug/L)
Aluminum	308.21	10.00	600000.0
Boron	249.67	10.00	20000.0
Calcium	317.93	10.00	600000.0
Iron	261.19	10.00	300000.0
Lithium	670.78	10.00	20000.0
Magnesium	285.21	10.00	600000.0
Manganese	257.61	10.00	10000.0
Phosphorus	177.49	10.00	20000.0
Potassium	766.49	10.00	100000.0
Sodium	589.59	10.00	100000.0
Strontium	421.55	10.00	5000.0
Tin	189.99	10.00	20000.0
Titanium	334.94	10.00	20000.0
Zirconium	339.19	10.00	20000.0

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: USF03

Method: P
Batch ID: P19348B

Lab Sample ID	Date	Initial Volume(ml)	Final Volume(ml)
6339388	07/12/2011	50.00	50
P19348BB	07/12/2011	50.00	50
P19348BQ	07/12/2011	1.00	1
P19348BY	07/12/2011	1.00	1

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: USF03

Method: MS
Batch ID: P19350C

Lab Sample ID	Date	Initial Volume(ml)	Final Volume(ml)
6339388	07/12/2011	50.00	50
P19350CB	07/12/2011	50.00	50
P19350CQ	07/12/2011	1.00	1
P19350CY	07/12/2011	1.00	1

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

USF03 2297

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QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: USF03

Method: CV
Batch ID: P19313D

Lab Sample ID	Date	Initial Volume(ml)	Final Volume(ml)
6339388	07/12/2011	50.00	50
P19313DB	07/12/2011	50.00	50
P19313DQ	07/12/2011	1.00	1
P19313DY	07/12/2011	1.00	1

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: P
Instrument ID: 11016
Run Name: 1119801T70

Run Start Date: 07/17/2011
Run End Date: 07/17/2011

Lab Sample ID	D/F	Time	Analytes																												
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	20:29	X					X		X				X		X	X	X				X	X			X	X		X	X			X
S	1.00	20:33	X							X				X			X						X			X							
S	1.00	20:37						X								X		X				X					X					
S	1.00	20:41																											X	X			X
ICV	1.00	20:44	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ICB	1.00	20:48	X					X		X				X		X	X	X				X	X			X	X		X	X			X
LLC	1.00	20:52	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ICSA	1.00	20:56	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ICSAB	1.00	21:00	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCV	1.00	21:04	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCB	1.00	21:08	X					X		X				X		X	X	X				X	X			X	X		X	X			X
P19348BB	1.00	21:12	X					X		X				X		X	X	X					X			X	X		X	X			
P19348BQ	1.00	21:16	X					X		X				X		X	X	X				X	X			X	X		X	X			X
P19348BY	1.00	21:20	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ZZZZZZ	1.00	21:24																															
ZZZZZZ	1.00	21:27																															
6339388	1.00	21:31	X					X		X				X		X	X	X				X	X			X	X		X	X			X
LLC	1.00	21:35	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ICSA	1.00	21:39	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ICSAB	1.00	21:43	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCV	1.00	21:47	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCB	1.00	21:51	X					X		X				X		X	X	X				X	X			X	X		X	X			X

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

USF03 2279

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: MS
Instrument ID: 11332
Run Name: 1119408E03

Run Start Date: 07/13/2011
Run End Date: 07/13/2011

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	12:23		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
S	1.00	12:26		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
LRS	1.00	12:29		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
CCS	1.00	12:32		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
ICV	1.00	12:35		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
ICB	1.00	12:39		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
LLC	1.00	12:42		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
ICSA	1.00	12:45		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
ICSAB	1.00	12:48		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
CCV	1.00	12:51		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
CCB	1.00	12:54		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
P19350CB	1.00	12:57		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
P19350CQ	1.00	13:00		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
P19350CY	1.00	13:03		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
ZZZZZZ	1.00	13:06																														
ZZZZZZ	1.00	13:09																														
6339388	1.00	13:12		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
LLC	1.00	13:15		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
ICSA	1.00	13:18		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
ICSAB	1.00	13:21		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
CCV	1.00	13:24		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	
CCB	1.00	13:27		X	X	X	X		X		X	X	X		X					X	X			X	X			X			X	X	

METHODS:	LEGEND:
P = ICP Atomic Emission Spectrometer	BKG = Background
MS = ICP Mass Spectrometry	DUP = Duplicate
CV = Cold Vapor	MS = Matrix Spike
AF = Cold Vapor Atomic Fluorescence	MSD = Matrix Spike Duplicate
	A = Post Digest Spike
	L = Serial Dilution
	B = Blank
	Q = Laboratory Control Sample
	Y = Laboratory Control Sample Duplicate

USF03 2288

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: CV
Instrument ID: 62347
Run Name: 1119302M06

Run Start Date: 07/12/2011
Run End Date: 07/12/2011

Lab Sample ID	D/F	Time	Analytes																												
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	18:20																	X														
S0.2	1.00	18:22																	X														
S0.5	1.00	18:24																	X														
S1.0	1.00	18:25																	X														
S2.5	1.00	18:26																	X														
S5.0	1.00	18:28																	X														
ICV	1.00	18:29																	X														
ICB	1.00	18:31																	X														
CRA	1.00	18:32																	X														
CCV	1.00	18:33																	X														
CCB	1.00	18:35																	X														
P19313DB	1.00	18:36																	X														
P19313DQ	1.00	18:37																	X														
P19313DY	1.00	18:39																	X														
ZZZZZZ	1.00	18:40																															
ZZZZZZ	1.00	18:41																															
6339388	1.00	18:42																	X														
ZZZZZZ	1.00	18:43																															
ZZZZZZ	1.00	18:44																															
ZZZZZZ	1.00	18:46																															
ZZZZZZ	1.00	18:47																															
CCV	1.00	18:48																	X														
CCB	1.00	18:49																	X														

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

USF03 2281

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 15
ICP-MS TUNE
SDG No.: USF03
Matrix: WATER

Instrument ID: 11332
Date: 07/13/2011

Analyte	Mass	Avg. Measured Mass (amu)	Avg. Peak Width at 5% Peak Height (amu)	%RSD
Lithium	6.000	6.10	0.65	1.9
Magnesium	24.000	24.00	0.65	2.5
Rhodium	103.000	102.95	0.60	1.8
Indium	115.000	114.95	0.60	1.7
Cerium	140.000	139.95	0.60	1.2
Lead	208.000	208.00	0.65	1.4
Uranium	238.000	238.05	0.70	1.6

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: USF03

Instrument ID: 11332 Start Date: 07/13/2011
Run Name: 1119408E03 End Date: 07/13/2011

Lab Sample ID	Time	Internal Standards %RI For: Element SC-2-45	Q	Element SC-3-45	Q	Element IN-1-115	Q	Element IN-2-115	Q	Element BI-2-209	Q	Element	Q	Element	Q
S0	12:23	100		100		100		100		100					
S	12:26	96		102		99		92		92					
LRS	12:29	95		100		98		89		92					
CCS	12:32	93		86		99		93		95					
ICV	12:35	95		100		97		94		93					
ICB	12:39	94		96		97		93		94					
LLC	12:42	94		98		99		95		96					
ICSA	12:45	95		99		98		92		93					
ICSAB	12:48	91		96		94		91		91					
CCV	12:51	90		98		98		89		91					
CCB	12:54	93		99		97		92		95					
P19350CB	12:57	93		98		97		93		95					
P19350CQ	13:00	93		99		97		90		93					
P19350CY	13:03	94		102		97		93		95					
ZZZZZZ	13:06														
ZZZZZZ	13:09														
6339388	13:12	94		101		99		93		97					
LLC	13:15	92		98		99		91		94					
ICSA	13:18	95		101		97		91		93					
ICSAB	13:21	92		96		96		91		93					
CCV	13:24	92		97		97		89		92					
CCB	13:27	92		97		95		91		94					

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

FLAG:
- R = Internal Standard Relative Intensity OOS

INTERNAL STANDARD ELEMENTS
- BE = Beryllium
- BI = Bismuth
- GE = Germanium
- HO = Holmium
- IN = Indium
- LI = Lithium
- SC = Scandium
- TB = Terbium
- Y = Yttrium

Raw Data

ICP Data

Lancaster Laboratories

ICP-AES Run Data Report

1119801T70

Reviewed By
Deborah A Krady
Tara L Snyder

Reviewed Date
07/19/2011 1:28PM
07/17/2011 10:02PM

Data File Name 1119801T70.TXT
Run Name: 1119801T70

Verified By:
Deborah A Krady

Verified Date
07/19/2011 1:32PM

Method Reference Name(s):
SW-846 6010B

Analyst Employee: 2106

Instrument Parameters:

Individual Integration Time: 10.00 sec Total Integration Time: 30.00 sec

Element	Analyte Name	Wavelength Value
AG	Silver	328.06
AL	Aluminum	308.21
AS	Arsenic	189.04
AU	Gold	242.80
B	Boron	249.67
BA	Barium	455.40
BE	Beryllium	313.04
CA	Calcium	317.93
CD	Cadmium	226.50
CO	Cobalt	228.62
CR	Chromium	267.72
CU	Copper	327.40
FE	Iron	261.19
K	Potassium	766.49
LI	Lithium	670.78
MG	Magnesium	285.21
MN	Manganese	257.61
MO	Molybdenum	202.03
NA	Sodium	589.59
NI	Nickel	231.60
P	Phosphorus	177.49
PB	Lead	220.35
SB	Antimony	206.83
SE	Selenium	196.09
SI	Silicon	251.60
SN	Tin	189.99
SR	Strontium	421.55
TI	Titanium	334.94
TL	Thallium	190.86
V	Vanadium	292.40
Y1	Yttrium	224.31
Y2	Yttrium	371.03
ZN	Zinc	213.86
ZR	Zirconium	339.19

The TRACE ICP utilizes Yttrium as an internal standard to compensate for fluctuations in nebulization and plasma conditions. All Yttrium readings are expressed in counts.

LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: 1

Date/Time: 07/17/2011 20:29

Sample Number: **S0**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	0.000	0.00095	39.593	0.00073	0.00138	0.00073
AL	0.000	0.00882	5.239	0.00931	0.00877	0.00839
AS	0.000	0.00794	41.270	0.01103	0.00830	0.00450
B	0.000	0.00006	6.106	0.00006	0.00006	0.00006
BA	0.000	0.00029	8.581	0.00027	0.00029	0.00032
BE	0.000	-0.01772	4.478	-0.01838	-0.01684	-0.01793
CA	0.000	0.00338	3.364	0.00332	0.00351	0.00331
CD	0.000	0.00658	83.566	0.01201	0.00101	0.00673
CO	0.000	-0.00287	106.116	0.00052	-0.00374	-0.00538
CR	0.000	-0.00001	60.481	-0.00002	-0.00001	-0.00002
CU	0.000	0.01562	1.925	0.01585	0.01528	0.01573
FE	0.000	-0.00001	44.057	-0.00001	-0.00001	-0.00001
K	0.000	0.35398	9.419	0.32208	0.38860	0.35128
LI	0.000	0.00241	5.653	0.00256	0.00239	0.00229
MG	0.000	0.00007	191.575	0.00023	-0.00001	-0.00001
MN	0.000	0.00070	91.555	0.00084	0.00000	0.00125
MO	0.000	0.00949	12.139	0.00958	0.00830	0.01060
NA	0.000	0.00999	11.378	0.00917	0.01129	0.00951
NI	0.000	0.06340	3.893	0.06074	0.06562	0.06384
P	0.000	-0.00020	12.582	-0.00019	-0.00023	-0.00018
PB	0.000	0.02354	6.189	0.02522	0.02282	0.02259
SB	0.000	0.00023	18.989	0.00018	0.00024	0.00026
SE	0.000	0.01321	16.503	0.01571	0.01176	0.01216
SI	0.000	0.00100	11.256	0.00095	0.00092	0.00113
SN	0.000	0.00265	44.476	0.00257	0.00387	0.00152
SR	0.000	0.00004	34.701	0.00005	0.00002	0.00004
TI	0.000	0.00195	56.172	0.00107	0.00318	0.00160
TL	0.000	-0.01667	4.814	-0.01739	-0.01680	-0.01580
V	0.000	-0.00192	22.641	-0.00163	-0.00171	-0.00242
Y1	0.000	21307.78633	0.372	21386.09291	21309.54523	21227.72085
Y2A	0.000	859234.13234	0.547	856024.95033	864631.35396	857046.09272
Y2R	0.000	28922.25602	0.708	29093.42861	28695.50337	28977.83608
ZN	0.000	0.04990	5.241	0.05087	0.05190	0.04694
ZR	0.000	-0.00039	30.556	-0.00029	-0.00052	-0.00035

USM03 2287

LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: 2

Date/Time: 07/17/2011 20:33

Sample Number: **S1**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AL	50.000	8.95666	0.210	8.93947	8.97674	8.95378
CA	50.000	2.23682	0.511	2.24864	2.23599	2.22581
FE	50.000	0.67713	1.263	0.66764	0.68424	0.67950
K	50.000	36.12435	0.513	36.26644	36.19201	35.91460
MG	50.000	2.86014	0.492	2.87635	2.85319	2.85088
NA	50.000	2.21027	0.586	2.22429	2.19873	2.20778
SI	50.000	0.34327	0.470	0.34509	0.34267	0.34204
Y2A	50.000	832778.92644	1.068	843032.59934	827133.59272	828170.58726
Y2R	50.000	28440.39941	0.817	28535.95351	28175.64087	28609.60385

USP63 2289

LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: 3

Date/Time: 07/17/2011 20:37

Sample Number: **S2**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	1.000	1.93013	1.245	1.90479	1.95260	1.93298
AS	1.000	1.27360	0.085	1.27392	1.27239	1.27450
B	1.000	0.02143	1.083	0.02117	0.02162	0.02151
BA	1.000	0.72465	1.132	0.71784	0.72234	0.73376
BE	1.000	79.41084	1.156	78.37189	80.11149	79.74913
CD	1.000	79.46312	0.092	79.42792	79.41415	79.54728
CO	1.000	13.64450	0.036	13.64298	13.64055	13.64996
CU	1.000	1.41222	1.121	1.39468	1.42546	1.41652
LI	1.000	0.36790	0.243	0.36827	0.36688	0.36855
MN	1.000	10.48866	0.948	10.38300	10.58048	10.50249
NI	1.000	5.69530	0.258	5.68675	5.68690	5.71224
P	1.000	0.04678	0.372	0.04672	0.04664	0.04697
PB	1.000	5.48545	0.067	5.48122	5.48786	5.48726
SE	1.000	1.72276	0.299	1.71722	1.72365	1.72741
SR	1.000	1.11685	0.976	1.10431	1.12209	1.12413
TL	1.000	3.83594	0.213	3.83311	3.82958	3.84514
Y1	1.000	20273.00115	0.321	20315.06792	20305.91811	20198.01743
Y2A	1.000	822866.13822	1.095	832881.78808	815422.91391	820293.71267
Y2R	1.000	27858.15122	0.153	27903.95491	27850.91022	27819.58853
ZN	1.000	67.61947	0.132	67.52365	67.63535	67.69940

USF03 2289

LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: 4

Date/Time: 07/17/2011 20:41

Sample Number: **S3**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
CR	1.000	0.03192	0.511	0.03179	0.03211	0.03187
MO	1.000	15.19914	0.500	15.28434	15.13821	15.17485
SB	1.000	0.05528	0.209	0.05541	0.05521	0.05520
SN	1.000	2.70836	0.341	2.71828	2.69999	2.70681
TI	1.000	8.18705	0.586	8.13936	8.23533	8.18647
V	1.000	1.35497	0.670	1.34532	1.36334	1.35627
Y1	1.000	20676.65099	0.261	20678.24377	20729.85743	20621.85178
Y2A	1.000	856013.06681	0.555	856971.47372	850856.83775	860210.88896
Y2R	1.000	28594.74415	0.682	28813.44287	28439.08547	28531.70412
ZR	1.000	0.04109	0.560	0.04088	0.04105	0.04134

USP03 2298

LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: 5

Date/Time: 07/17/2011 20:44

Sample Number: **ICV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.60124	18,997.82	0.330	0.59926	0.60123	0.60323
AL	29.74443	88,387.02	0.471	29.69406	29.63637	29.90286
AS	0.59716	305.23	0.475	0.60042	0.59524	0.59583
B	0.59268	10,876.49	0.455	0.59086	0.59140	0.59578
BA	0.60720	363,133.10	0.513	0.60978	0.60374	0.60809
BE	0.58836	770,804.54	0.339	0.59066	0.58733	0.58709
CA	30.12992	38,203.51	0.321	30.19486	30.17595	30.01894
CD	0.59629	18,964.97	0.093	0.59688	0.59620	0.59578
CO	0.59481	3,238.74	0.122	0.59549	0.59488	0.59405
CR	0.58954	15,522.37	0.053	0.58931	0.58990	0.58940
CU	0.60529	14,200.40	0.507	0.60466	0.60259	0.60863
FE	30.62047	346,775.70	0.417	30.49402	30.61776	30.74962
K	29.88171	12,280.98	0.632	29.94559	30.03022	29.66933
LI	0.60279	6,294.66	0.591	0.60497	0.59868	0.60473
MG	29.72225	48,232.59	0.271	29.81518	29.67724	29.67432
MN	0.59023	102,160.04	0.089	0.58963	0.59056	0.59051
MO	0.59865	3,627.67	0.067	0.59899	0.59821	0.59874
NA	29.60878	37,097.37	0.712	29.75837	29.36770	29.70027
NI	0.59935	1,371.27	0.071	0.59894	0.59932	0.59979
P	0.60559	563.36	0.425	0.60420	0.60856	0.60401
PB	0.59791	1,319.96	0.290	0.59991	0.59692	0.59690
SB	0.60809	671.37	0.412	0.60992	0.60910	0.60523
SE	0.59674	414.95	0.589	0.59866	0.59887	0.59268
SI	0.65115	154.20	2.714	0.66901	0.65077	0.63367
SN	0.57713	623.37	0.144	0.57695	0.57803	0.57639
SR	0.60242	555,120.53	0.713	0.59827	0.60684	0.60216
TI	0.60186	81,689.16	0.155	0.60172	0.60101	0.60285
TL	0.60238	914.11	0.242	0.60248	0.60378	0.60087
V	0.59927	13,399.10	0.286	0.59729	0.60019	0.60031
Y1	19926.25029	19,926.25	0.345	19973.53988	19957.73352	19847.47746
Y2A	825069.10104	825,069.10	0.354	828439.73510	823293.81221	823473.75581
Y2R	28255.10094	28,255.10	0.079	28277.18531	28232.48503	28255.63249
ZN	0.58209	15,765.47	0.193	0.58329	0.58191	0.58107
ZR	0.59530	686.61	1.691	0.60615	0.58626	0.59350

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LANCASTER LABORATORIES

Run Name: 1119801T70

Tube: 6

Sample Number: **ICB**

Instrument ID: 11016

Date/Time: 07/17/2011 20:48

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00009	12.90	215.780	-0.00017	-0.00024	0.00013
AL	0.00173	153.92	199.154	0.00007	0.00569	-0.00057
AS	-0.00128	2.58	143.922	-0.00167	0.00073	-0.00290
B	-0.00015	48.55	230.132	0.00025	-0.00036	-0.00036
BA	-0.00017	141.80	17.766	-0.00015	-0.00020	-0.00015
BE	0.00015	-247.49	4.872	0.00015	0.00014	0.00015
CA	-0.00015	95.77	1063.137	-0.00058	0.00160	-0.00146
CD	0.00014	2.54	38.337	0.00019	0.00008	0.00014
CO	-0.00008	-2.87	368.480	0.00025	-0.00027	-0.00021
CR	0.00022	-7.40	145.237	-0.00009	0.00020	0.00054
CU	0.00037	271.94	189.422	0.00050	0.00101	-0.00039
FE	0.00304	28.78	23.356	0.00358	0.00330	0.00224
K	0.01435	206.86	62.217	0.00818	0.02459	0.01028
LI	0.00001	68.71	0908.433	0.00163	-0.00144	-0.00014
MG	0.00099	3.65	64.922	0.00070	0.00173	0.00055
MN	-0.00004	4.08	72.865	-0.00001	-0.00004	-0.00008
MO	0.00132	12.05	12.555	0.00150	0.00128	0.00118
NA	-0.01703	262.42	65.063	-0.02216	-0.02461	-0.00431
NI	0.00036	26.69	19.254	0.00043	0.00034	0.00030
P	-0.00187	-4.67	30.645	-0.00130	-0.00185	-0.00245
PB	0.00092	12.59	84.777	0.00176	0.00080	0.00021
SB	-0.00012	4.48	276.075	0.00000	-0.00048	0.00013
SE	-0.00157	4.30	34.196	-0.00205	-0.00166	-0.00099
SI	0.88651	200.72	2.171	0.86430	0.89844	0.89678
SN	-0.00007	1.01	645.601	0.00037	-0.00053	-0.00005
SR	0.00004	69.78	24.709	0.00003	0.00004	0.00005
TI	0.00002	35.67	353.633	0.00003	0.00009	-0.00006
TL	-0.00021	-6.12	184.863	0.00024	-0.00045	-0.00044
V	0.00017	-25.88	321.230	0.00033	0.00064	-0.00044
Y1	20397.81788	20,397.82	0.222	20449.57105	20365.67745	20378.20513
Y2A	842303.68102	842,303.68	0.050	842707.91391	841864.60265	842338.52649
Y2R	28395.81385	28,395.81	0.145	28440.68725	28359.56890	28387.18540
ZN	-0.00022	14.34	31.558	-0.00015	-0.00029	-0.00022
ZR	0.00214	-8.74	113.585	0.00492	0.00109	0.00041

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LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: 7

Date/Time: 07/17/2011 20:52

Sample Number: LLC

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00512	182.36	4.947	0.00484	0.00533	0.00520
AL	0.19034	733.60	0.316	0.19000	0.18998	0.19103
AS	0.02010	13.58	1.651	0.02023	0.02035	0.01972
B	0.04806	926.12	1.462	0.04733	0.04813	0.04873
BA	0.00498	3,304.41	1.474	0.00489	0.00501	0.00503
BE	0.00506	6,363.24	0.459	0.00503	0.00506	0.00507
CA	0.20664	360.14	1.361	0.20508	0.20988	0.20495
CD	0.00535	171.58	0.249	0.00534	0.00537	0.00535
CO	0.00521	26.56	4.768	0.00497	0.00520	0.00546
CR	0.01522	399.10	1.003	0.01512	0.01540	0.01515
CU	0.01108	527.41	2.839	0.01100	0.01082	0.01143
FE	0.21050	2,495.16	0.264	0.21039	0.21000	0.21110
K	0.47329	394.13	11.378	0.42915	0.45742	0.53329
LI	0.01747	250.40	16.230	0.02074	0.01580	0.01586
MG	0.10276	170.92	1.963	0.10465	0.10299	0.10063
MN	0.00511	920.55	0.151	0.00510	0.00511	0.00511
MO	0.01048	68.53	0.277	0.01051	0.01047	0.01046
NA	0.95895	1,484.89	0.367	0.96128	0.96067	0.95491
NI	0.01058	49.99	3.654	0.01058	0.01020	0.01097
P	0.10069	92.91	0.605	0.10134	0.10013	0.10061
PB	0.01671	47.90	3.427	0.01735	0.01623	0.01656
SB	0.02141	28.48	2.721	0.02077	0.02156	0.02191
SE	0.01869	18.37	3.939	0.01938	0.01877	0.01792
SI	1.15228	252.87	0.581	1.14461	1.15700	1.15522
SN	0.01915	22.13	3.317	0.01988	0.01871	0.01885
SR	0.00517	4,928.01	0.895	0.00512	0.00519	0.00520
TI	0.01008	1,436.38	0.714	0.01001	0.01015	0.01009
TL	0.03092	42.52	1.891	0.03041	0.03156	0.03080
V	0.00514	88.44	3.830	0.00534	0.00495	0.00515
Y1	20316.94785	20,316.95	0.105	20337.23395	20318.76469	20294.84491
Y2A	848235.96334	848,235.96	0.493	851895.35691	849135.96026	843676.57285
Y2R	28451.61177	28,451.61	0.562	28591.88295	28277.66633	28485.28604
ZN	0.01985	564.10	0.499	0.01992	0.01974	0.01990
ZR	0.05340	51.76	3.219	0.05527	0.05189	0.05306

USF03 2293

LANCASTER LABORATORIES

Run Name: 1119801T70

Tube: 8

Sample Number: **ICSA**

Instrument ID: 11016

Date/Time: 07/17/2011 20:56

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00131	-26.03	42.266	-0.00147	-0.00069	-0.00175
AL	550.30763	1,326,664.95	0.716	551.37161	545.94640	553.60488
AS	0.00943	11.94	25.477	0.00699	0.01180	0.00949
B	0.03441	2,828.40	7.611	0.03643	0.03534	0.03145
BA	0.00050	486.81	3.300	0.00051	0.00052	0.00048
BE	-0.00017	-595.55	2.371	-0.00017	-0.00017	-0.00017
CA	503.71913	584,860.95	0.913	506.76399	505.96659	498.42680
CD	0.00379	598.87	5.457	0.00377	0.00401	0.00360
CO	0.00294	12.25	15.825	0.00276	0.00260	0.00347
CR	0.00201	35.92	19.656	0.00182	0.00174	0.00246
CU	0.00573	351.17	3.071	0.00556	0.00573	0.00591
FE	202.72330	1,821,822.93	1.050	203.54211	200.30712	204.32066
K	-0.08795	159.09	96.901	-0.00853	-0.07734	-0.17798
LI	0.00041	94.11	331.316	-0.00076	0.00010	0.00189
MG	513.32572	728,429.99	1.749	518.34313	518.67191	502.96212
MN	0.00470	742.86	1.321	0.00476	0.00470	0.00464
MO	-0.00046	0.93	24.132	-0.00033	-0.00048	-0.00055
NA	0.00530	279.23	199.619	0.00264	-0.00370	0.01696
NI	-0.00137	20.00	36.725	-0.00114	-0.00195	-0.00103
P	0.00176	-1.06	108.795	0.00077	0.00397	0.00054
PB	0.02646	255.39	0.670	0.02638	0.02667	0.02634
SB	0.00627	10.29	46.776	0.00335	0.00921	0.00624
SE	-0.00510	20.31	12.387	-0.00558	-0.00438	-0.00533
SI	0.96766	208.22	0.987	0.97381	0.95666	0.97251
SN	-0.00085	0.12	110.110	0.00015	-0.00172	-0.00099
SR	0.00350	2,933.24	0.486	0.00349	0.00352	0.00350
TI	-0.00378	-430.86	2.800	-0.00388	-0.00379	-0.00366
TL	0.02221	-2.41	4.200	0.02291	0.02115	0.02255
V	-0.00074	29.81	29.438	-0.00069	-0.00098	-0.00055
Y1	17969.91873	17,969.92	0.127	17992.67607	17969.95173	17947.12837
Y2A	743055.00442	743,055.00	0.329	742067.41871	745838.96815	741258.62641
Y2R	27308.67225	27,308.67	1.047	27591.68122	27019.88057	27314.45498
ZN	0.00224	561.38	9.965	0.00230	0.00243	0.00200
ZR	-0.01398	-26.67	9.908	-0.01332	-0.01558	-0.01306

USF03 2294

Version 1.1.11

LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: 9

Date/Time: 07/17/2011 21:00

Sample Number: **ICSAB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.21488	6,053.11	1.194	0.21670	0.21600	0.21194
AL	541.93978	1,309,093.72	1.759	552.24961	540.11994	533.44981
AS	0.10713	56.42	2.056	0.10496	0.10937	0.10705
B	0.03707	2,838.91	3.336	0.03846	0.03661	0.03612
BA	0.51243	276,089.59	1.331	0.51996	0.51064	0.50667
BE	0.48896	576,988.53	0.788	0.49135	0.49101	0.48451
CA	505.12181	572,006.58	1.176	511.00920	505.22704	499.12920
CD	0.92802	26,945.58	0.168	0.92804	0.92957	0.92646
CO	0.47121	2,305.81	0.216	0.47005	0.47164	0.47194
CR	0.48488	11,498.40	1.215	0.49015	0.48596	0.47852
CU	0.54505	11,546.94	1.236	0.55198	0.54464	0.53853
FE	200.25513	1,803,645.70	0.979	202.19241	200.30110	198.27188
K	-0.06171	165.10	43.470	-0.08672	-0.03338	-0.06502
LI	0.00117	99.31	91.915	-0.00007	0.00183	0.00174
MG	512.94262	710,138.98	0.330	512.09245	514.89011	511.84530
MN	0.47885	74,663.73	1.212	0.48480	0.47855	0.47320
MO	-0.00022	2.22	334.839	-0.00009	0.00044	-0.00100
NA	-0.00308	262.46	366.586	0.00277	0.00409	-0.01612
NI	0.90656	1,854.91	0.326	0.90520	0.90995	0.90453
P	0.00295	0.99	27.726	0.00378	0.00290	0.00215
PB	0.07427	346.69	0.601	0.07379	0.07467	0.07435
SB	0.60973	611.52	0.497	0.60907	0.60708	0.61303
SE	0.04396	50.27	6.621	0.04374	0.04697	0.04117
SI	0.77569	168.11	0.993	0.77045	0.77208	0.78453
SN	0.00030	1.24	105.005	-0.00006	0.00044	0.00052
SR	0.00346	2,895.51	2.518	0.00353	0.00347	0.00336
TI	-0.00318	-225.82	2.367	-0.00327	-0.00312	-0.00317
TL	0.11234	123.92	0.393	0.11212	0.11285	0.11206
V	0.50897	10,308.04	1.202	0.51417	0.51050	0.50223
Y1	17939.89392	17,939.89	0.090	17954.08059	17922.28053	17943.32063
Y2A	743289.06768	743,289.07	0.856	737551.89117	742181.32050	750133.99137
Y2R	26640.22107	26,640.22	0.940	26511.12217	26480.57496	26928.96608
ZN	0.99197	24,523.51	0.176	0.99182	0.99378	0.99031
ZR	-0.01230	-24.15	31.277	-0.01674	-0.00991	-0.01025

USP83 2295

LANCASTER LABORATORIES

Run Name: 1119801T70

Tube: 10

Sample Number: **CCV**

Instrument ID: 11016

Date/Time: 07/17/2011 21:04

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.50895	15,630.26	0.626	0.50535	0.51139	0.51012
AL	25.01351	72,325.94	0.709	24.81047	25.09144	25.13861
AS	0.49823	252.30	0.340	0.49915	0.49927	0.49627
B	0.49349	8,816.91	0.558	0.49036	0.49459	0.49553
BA	0.50940	296,129.83	0.703	0.51345	0.50664	0.50812
BE	0.49599	631,427.80	1.427	0.48864	0.50277	0.49656
CA	25.41982	31,718.22	0.890	25.46582	25.17423	25.61939
CD	0.50044	15,737.16	0.149	0.50066	0.50105	0.49960
CO	0.49893	2,685.63	0.122	0.49914	0.49940	0.49824
CR	0.50540	12,931.16	0.506	0.50271	0.50780	0.50569
CU	0.51527	11,785.72	0.694	0.51114	0.51741	0.51727
FE	26.09237	288,086.40	0.514	25.96249	26.23040	26.08422
K	24.68115	10,006.92	0.508	24.77874	24.53970	24.72501
LI	0.50755	5,221.42	0.772	0.51133	0.50351	0.50782
MG	25.16475	40,184.57	0.757	25.24865	24.94682	25.29878
MN	0.50343	84,688.47	0.486	0.50118	0.50603	0.50309
MO	0.49885	2,989.37	0.204	0.49863	0.49996	0.49796
NA	24.94450	30,770.11	1.094	25.10788	24.62957	25.09606
NI	0.50186	1,139.30	0.529	0.49909	0.50438	0.50212
P	0.50527	464.27	0.439	0.50595	0.50706	0.50279
PB	0.50367	1,127.37	0.173	0.50317	0.50468	0.50317
SB	0.50378	550.89	0.196	0.50400	0.50464	0.50269
SE	0.49706	342.66	0.574	0.49888	0.49853	0.49377
SI	26.66339	5,097.90	1.022	26.71795	26.36768	26.90453
SN	0.48341	516.41	0.182	0.48443	0.48290	0.48291
SR	0.51539	461,576.97	0.490	0.51249	0.51713	0.51654
TI	0.51082	67,387.12	0.622	0.50762	0.51397	0.51087
TL	0.50524	757.08	0.332	0.50546	0.50681	0.50347
V	0.51424	11,170.68	0.626	0.51053	0.51629	0.51590
Y1	19700.89806	19,700.90	0.049	19707.45548	19705.45008	19689.78861
Y2A	801887.60568	801,887.61	0.624	807194.90066	797248.93829	801218.97810
Y2R	27779.01233	27,779.01	0.381	27852.88653	27826.22849	27657.92196
ZN	0.48708	13,047.64	0.200	0.48734	0.48789	0.48600
ZR	0.50135	566.75	0.553	0.49946	0.50005	0.50453

USF03 2296

LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: **11**

Date/Time: 07/17/2011 21:08

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00018	10.01	229.447	-0.00065	0.00018	-0.00009
AL	0.01827	202.25	23.269	0.02243	0.01846	0.01393
AS	-0.00306	1.63	69.952	-0.00516	-0.00088	-0.00314
B	0.00001	51.19	2727.613	0.00019	0.00031	-0.00045
BA	-0.00019	125.12	12.539	-0.00018	-0.00018	-0.00022
BE	0.00016	-226.95	3.672	0.00016	0.00017	0.00016
CA	0.02047	120.59	13.013	0.02342	0.01977	0.01823
CD	0.00016	3.20	13.563	0.00018	0.00016	0.00014
CO	0.00000	-2.40	1616.016	-0.00009	-0.00019	0.00029
CR	0.00003	-12.30	970.792	-0.00028	0.00026	0.00011
CU	0.00027	266.95	219.984	0.00086	-0.00034	0.00030
FE	0.00966	105.96	6.116	0.00980	0.01017	0.00902
K	-0.06679	171.77	70.758	-0.12074	-0.03268	-0.04696
LI	-0.00105	57.05	206.215	0.00036	-0.00353	0.00003
MG	0.02159	36.99	13.854	0.02345	0.02318	0.01814
MN	0.00008	25.87	55.053	0.00013	0.00006	0.00005
MO	0.00069	8.01	1.622	0.00069	0.00070	0.00068
NA	-0.02671	247.29	29.009	-0.03552	-0.02095	-0.02365
NI	0.00078	27.21	76.262	0.00104	0.00010	0.00120
P	-0.00286	-5.53	14.746	-0.00333	-0.00251	-0.00274
PB	0.00089	12.07	129.567	0.00001	0.00220	0.00047
SB	-0.00017	4.36	364.513	0.00052	-0.00065	-0.00036
SE	-0.00226	3.76	101.536	0.00000	-0.00218	-0.00459
SI	0.64073	151.10	2.742	0.65614	0.64446	0.62160
SN	-0.00023	0.81	192.613	0.00013	-0.00073	-0.00010
SR	0.00003	56.40	14.251	0.00003	0.00002	0.00003
TI	0.00002	35.89	369.816	-0.00005	0.00012	0.00000
TL	0.00041	-5.06	91.398	0.00060	-0.00002	0.00065
V	-0.00029	-36.00	40.874	-0.00022	-0.00022	-0.00042
Y1	20063.86962	20,063.87	0.230	20115.83219	20027.34162	20048.43506
Y2A	834350.39694	834,350.40	0.780	828124.33643	841108.37757	833818.47682
Y2R	28052.70420	28,052.70	0.350	28112.19497	27939.24557	28106.67207
ZN	-0.00033	11.30	16.105	-0.00037	-0.00027	-0.00034
ZR	-0.00152	-12.90	169.130	-0.00122	0.00089	-0.00422

USPB3 2297

LANCASTER LABORATORIES

Run Name: 1119801T70 Instrument ID: 11016

Tube: 12 Date/Time: 07/17/2011 21:12

Sample Number: **PBW** Class: **** Batch: 111931848002

Initial Vol: 50.00 Final Vol: 50.00 DF: 1.00 Protocol Symbol: B

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00007	17.62	182.128	0.00014	0.00014	-0.00007
AL	0.03016	234.13	9.949	0.03215	0.02671	0.03162
AS	-0.00263	1.84	20.159	-0.00228	-0.00324	-0.00237
B	0.00663	166.33	5.598	0.00683	0.00620	0.00687
BA	-0.00016	141.18	19.856	-0.00018	-0.00018	-0.00013
BE	0.00013	-266.72	9.019	0.00012	0.00012	0.00014
CA	0.05333	159.75	9.141	0.05239	0.05860	0.04899
CD	0.00012	1.91	9.396	0.00013	0.00012	0.00011
CO	0.00007	-2.02	503.503	0.00023	-0.00032	0.00030
CR	-0.00027	-19.92	139.505	0.00015	-0.00058	-0.00037
CU	0.00065	271.10	135.893	0.00145	-0.00030	0.00080
FE	0.00470	47.08	9.224	0.00502	0.00486	0.00421
K	-0.06812	168.93	98.597	-0.10443	0.00938	-0.10930
LI	-0.00154	51.25	211.129	-0.00003	0.00068	-0.00529
MG	0.01040	18.59	8.682	0.01108	0.01074	0.00937
MN	0.00008	24.96	16.584	0.00007	0.00009	0.00007
MO	0.00011	4.45	185.038	0.00019	0.00026	-0.00012
NA	-0.03012	239.69	50.123	-0.02418	-0.04728	-0.01889
NI	0.00046	26.33	69.437	0.00012	0.00075	0.00051
P	-0.00139	-4.13	51.898	-0.00114	-0.00082	-0.00220
PB	0.00091	12.04	53.005	0.00035	0.00120	0.00119
SB	-0.00099	3.44	147.098	-0.00083	0.00038	-0.00252
SE	-0.00218	3.79	49.380	-0.00168	-0.00341	-0.00144
SI	0.61825	144.75	3.391	0.64061	0.59904	0.61509
SN	-0.00132	-0.36	32.463	-0.00092	-0.00177	-0.00126
SR	0.00033	337.00	5.291	0.00032	0.00033	0.00036
TI	0.00001	33.60	136.431	0.00003	0.00000	0.00001
TL	-0.00077	-6.85	123.297	-0.00169	0.00021	-0.00085
V	0.00031	-22.26	155.640	0.00074	-0.00020	0.00038
Y1	19953.69217	19,953.69	0.121	19948.64736	19932.54246	19979.88671
Y2A	820327.16528	820,327.17	0.631	820277.98013	825530.32515	815173.19057
Y2R	27663.93261	27,663.93	0.347	27718.96530	27719.89758	27552.93495
ZN	0.00005	21.27	85.036	0.00007	0.00000	0.00006
ZR	-0.00140	-12.58	132.036	0.00072	-0.00271	-0.00221

USF03 2298

LANCASTER LABORATORIES

Run Name: 1119801T70 Instrument ID: 11016

Tube: 13 Date/Time: 07/17/2011 21:16

Sample Number: **LCSW** Class: **** Batch: 111931848002

Initial Vol: 1.00 Final Vol: 1.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05615	1,618.80	0.492	0.05583	0.05631	0.05630
AL	2.09572	6,272.56	0.640	2.08062	2.10622	2.10032
AS	0.14858	79.27	1.950	0.14881	0.14557	0.15135
B	1.98970	34,072.12	0.593	1.97613	1.99552	1.99745
BA	2.01938	1,169,501.99	0.926	2.00627	2.04078	2.01108
BE	0.05008	63,173.68	0.485	0.04980	0.05024	0.05019
CA	4.09112	5,091.34	0.297	4.09644	4.07720	4.09971
CD	0.05144	1,606.74	0.267	0.05132	0.05159	0.05143
CO	0.50949	2,740.17	0.295	0.50829	0.51118	0.50901
CR	0.20642	5,257.51	0.507	0.20524	0.20724	0.20677
CU	0.26012	6,048.70	0.423	0.25896	0.26115	0.26026
FE	1.04553	11,699.87	0.323	1.04162	1.04746	1.04751
K	9.66454	3,958.61	1.364	9.54622	9.64070	9.80669
LI	0.99990	10,014.94	0.088	1.00089	0.99961	0.99921
MG	2.01873	3,175.41	0.052	2.01856	2.01987	2.01777
MN	0.51156	85,787.84	0.529	0.50850	0.51365	0.51253
MO	1.98741	11,881.25	0.267	1.98495	1.99351	1.98378
NA	9.79893	12,011.14	0.696	9.87045	9.79162	9.73472
NI	0.52121	1,182.17	0.332	0.52000	0.52319	0.52043
P	1.00721	925.28	0.325	1.00477	1.01092	1.00593
PB	0.15450	340.95	0.526	0.15373	0.15443	0.15535
SB	0.53223	528.71	0.461	0.53191	0.53483	0.52995
SE	0.14738	104.56	1.491	0.14544	0.14977	0.14695
SI	0.66468	151.09	2.248	0.66474	0.64971	0.67959
SN	3.91079	4,164.32	0.065	3.90793	3.91175	3.91270
SR	1.04650	934,297.75	0.586	1.04422	1.05345	1.04184
TI	1.02770	134,522.42	0.463	1.02228	1.03119	1.02962
TL	0.15514	230.56	0.242	0.15527	0.15543	0.15471
V	0.51898	11,222.78	0.470	0.51620	0.52000	0.52074
Y1	19672.49202	19,672.49	0.046	19669.39468	19682.78496	19665.29643
Y2A	799391.77889	799,391.78	0.596	804327.40066	794814.57503	799033.36098
Y2R	27223.91232	27,223.91	0.147	27217.34986	27266.91818	27187.46891
ZN	0.49239	13,083.41	0.178	0.49190	0.49341	0.49187
ZR	1.00168	1,120.52	0.573	0.99803	1.00829	0.99871

USPB3 2299

LANCASTER LABORATORIES

Run Name: 1119801T70 Instrument ID: 11016

Tube: 14 Date/Time: 07/17/2011 21:20

Sample Number: **LCSWD** Class: **** Batch: 111931848002

Initial Vol: 1.00 Final Vol: 1.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05492	1,599.00	0.282	0.05486	0.05510	0.05480
AL	2.06292	6,239.61	1.004	2.05098	2.08685	2.05095
AS	0.14621	77.78	0.995	0.14495	0.14780	0.14589
B	1.96497	33,990.21	0.837	1.95779	1.98378	1.95335
BA	1.97875	1,157,570.83	1.284	1.95345	2.00428	1.97852
BE	0.04931	62,829.19	0.653	0.04922	0.04966	0.04904
CA	4.05927	5,127.94	0.143	4.06524	4.05890	4.05367
CD	0.05129	1,595.51	0.041	0.05131	0.05127	0.05128
CO	0.50720	2,717.05	0.095	0.50716	0.50675	0.50770
CR	0.20368	5,240.39	0.750	0.20377	0.20517	0.20212
CU	0.25550	6,005.88	0.796	0.25393	0.25780	0.25478
FE	1.02632	11,601.20	0.808	1.02214	1.03587	1.02095
K	9.49991	3,952.70	0.198	9.49851	9.48182	9.51940
LI	0.99491	10,114.07	0.156	0.99559	0.99600	0.99313
MG	1.99969	3,192.48	0.391	2.00808	1.99837	1.99261
MN	0.50470	85,495.71	0.512	0.50383	0.50760	0.50265
MO	1.98114	11,797.55	0.022	1.98151	1.98066	1.98126
NA	9.72071	12,095.47	0.527	9.77777	9.70589	9.67849
NI	0.51864	1,171.87	0.282	0.51959	0.51695	0.51936
P	1.00421	918.91	0.240	1.00215	1.00686	1.00362
PB	0.15394	338.34	0.408	0.15342	0.15464	0.15377
SB	0.52943	523.72	0.130	0.52902	0.52905	0.53023
SE	0.14827	104.74	0.418	0.14833	0.14886	0.14762
SI	0.61427	143.81	2.913	0.61903	0.62930	0.59447
SN	3.90178	4,138.51	0.085	3.89811	3.90273	3.90450
SR	1.02766	926,811.27	0.766	1.03391	1.03026	1.01882
TI	1.01179	133,783.85	0.535	1.00919	1.01801	1.00817
TL	0.15502	229.49	0.311	0.15485	0.15556	0.15464
V	0.51149	11,172.19	1.005	0.50861	0.51742	0.50844
Y1	19595.73112	19,595.73	0.239	19645.37112	19589.68596	19552.13627
Y2A	807502.98699	807,502.99	0.748	813581.93709	801498.05906	807428.96483
Y2R	27630.67752	27,630.68	0.254	27646.57671	27553.87016	27691.58570
ZN	0.49184	13,017.74	0.109	0.49148	0.49246	0.49159
ZR	0.98060	1,113.10	0.968	0.99135	0.97338	0.97706

USP03 2388

LANCASTER LABORATORIES

Run Name: 1119801T70 Instrument ID: 11016

Tube: 15 Date/Time: 07/17/2011 21:24

Sample Number: 6337222 Class: **** Batch: 111931848002

Initial Vol: 50.00 Final Vol: 50.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00013	19.51	193.601	-0.00016	0.00029	0.00027
AL	0.02222	208.51	11.647	0.01928	0.02318	0.02418
AS	-0.00152	2.38	53.913	-0.00075	-0.00239	-0.00143
B	0.01024	227.59	2.297	0.01032	0.01043	0.00998
BA	0.00007	280.27	21.452	0.00006	0.00009	0.00008
BE	0.00012	-281.00	3.889	0.00011	0.00011	0.00012
CA	0.07192	179.51	2.901	0.07427	0.07029	0.07120
CD	0.00018	3.77	13.526	0.00016	0.00020	0.00017
CO	-0.00004	-2.62	459.313	-0.00027	0.00012	0.00001
CR	0.00004	-11.57	1013.610	0.00052	-0.00034	-0.00005
CU	0.00053	265.76	111.064	-0.00013	0.00100	0.00073
FE	0.01446	157.70	4.507	0.01486	0.01480	0.01370
K	-0.03894	177.16	116.792	-0.09077	-0.00571	-0.02034
LI	-0.00209	44.90	48.916	-0.00099	-0.00226	-0.00301
MG	0.00411	8.38	24.233	0.00480	0.00297	0.00455
MN	0.00027	57.76	7.232	0.00027	0.00025	0.00029
MO	0.00416	28.74	2.832	0.00415	0.00428	0.00405
NA	-0.00205	268.98	836.761	0.01216	0.00277	-0.02107
NI	0.00114	27.63	42.153	0.00090	0.00169	0.00082
P	-0.00137	-4.07	94.989	-0.00285	-0.00045	-0.00080
PB	0.00071	11.39	108.983	0.00145	-0.00009	0.00076
SB	-0.00045	3.98	67.088	-0.00078	-0.00020	-0.00036
SE	-0.00109	4.49	120.992	-0.00058	-0.00010	-0.00258
SI	0.53507	126.65	2.696	0.55171	0.52597	0.52753
SN	0.00007	1.13	731.698	0.00070	-0.00029	-0.00019
SR	0.00052	498.57	1.851	0.00051	0.00052	0.00052
TI	0.00033	76.10	44.436	0.00035	0.00047	0.00018
TL	0.00020	-5.30	161.352	0.00053	-0.00011	0.00018
V	-0.00003	-29.42	496.578	-0.00007	0.00013	-0.00014
Y1	19780.50864	19,780.51	0.326	19804.45888	19829.50792	19707.55911
Y2A	812234.76828	812,234.77	1.079	821461.33046	804013.76908	811229.20530
Y2R	27161.51338	27,161.51	0.510	27206.65710	27271.95853	27005.92450
ZN	0.00015	24.05	19.357	0.00019	0.00013	0.00015
ZR	0.00271	-7.71	83.134	0.00243	0.00509	0.00061

USP83 2381

LANCASTER LABORATORIES

Run Name: 1119801T70 Instrument ID: 11016

Tube: 16 Date/Time: 07/17/2011 21:27

Sample Number: **6338269** Class: **** Batch: 111931848002

Initial Vol: 50.00 Final Vol: 50.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00028	6.73	129.458	0.00014	-0.00044	-0.00053
AL	0.02563	222.08	8.659	0.02739	0.02314	0.02637
AS	-0.00207	2.11	153.477	0.00120	-0.00514	-0.00227
B	0.00824	195.85	2.003	0.00841	0.00808	0.00823
BA	-0.00004	214.30	39.603	-0.00005	-0.00006	-0.00002
BE	0.00012	-285.59	6.855	0.00011	0.00012	0.00012
CA	0.09117	207.83	3.452	0.08777	0.09177	0.09398
CD	0.00013	2.22	31.656	0.00013	0.00009	0.00017
CO	-0.00019	-3.41	134.809	0.00007	-0.00020	-0.00044
CR	0.00004	-11.90	207.475	0.00002	0.00013	-0.00003
CU	0.00043	267.80	65.443	0.00036	0.00074	0.00019
FE	0.00732	77.74	4.175	0.00766	0.00724	0.00706
K	-0.10871	153.57	36.464	-0.12010	-0.06462	-0.14141
LI	-0.00101	56.96	190.803	0.00006	-0.00323	0.00014
MG	0.00490	9.86	18.584	0.00423	0.00594	0.00453
MN	0.00010	28.82	9.480	0.00010	0.00009	0.00011
MO	0.00095	9.46	22.674	0.00097	0.00115	0.00072
NA	0.25699	592.32	4.290	0.26964	0.24942	0.25191
NI	0.00081	26.94	118.319	-0.00022	0.00166	0.00098
P	-0.00177	-4.45	34.863	-0.00247	-0.00155	-0.00129
PB	0.00041	10.78	300.250	0.00169	-0.00076	0.00030
SB	-0.00049	3.95	246.438	0.00051	-0.00015	-0.00185
SE	-0.00245	3.58	18.934	-0.00201	-0.00241	-0.00294
SI	0.53522	129.69	2.192	0.52580	0.54836	0.53149
SN	-0.00053	0.49	115.390	-0.00040	0.00001	-0.00119
SR	0.00055	538.03	2.092	0.00055	0.00054	0.00056
TI	0.00016	53.84	13.020	0.00014	0.00017	0.00018
TL	-0.00080	-6.84	113.512	-0.00164	-0.00092	0.00016
V	-0.00006	-30.63	292.185	-0.00027	0.00002	0.00007
Y1	19825.39714	19,825.40	0.267	19875.67320	19769.99043	19830.52781
Y2A	825435.62671	825,435.63	0.444	825873.20836	828860.54636	821573.12541
Y2R	27808.20024	27,808.20	0.517	27841.84348	27650.50461	27932.25262
ZN	0.00028	27.39	3.278	0.00029	0.00029	0.00027
ZR	0.00018	-10.81	1590.308	-0.00243	-0.00038	0.00336

USF03 2382

LANCASTER LABORATORIES

Run Name: 1119801T70 Instrument ID: 11016

Tube: 17 Date/Time: 07/17/2011 21:31

Sample Number: **6339388** Class: **** Batch: 111931848002

Initial Vol: 50.00 Final Vol: 50.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00008	12.93	404.259	-0.00044	0.00021	-0.00001
AL	0.02249	211.42	16.208	0.02396	0.02516	0.01834
AS	-0.00106	2.60	88.530	-0.00031	-0.00211	-0.00076
B	0.00924	212.12	5.394	0.00879	0.00977	0.00916
BA	-0.00017	135.61	6.420	-0.00016	-0.00017	-0.00019
BE	0.00012	-272.41	2.543	0.00012	0.00012	0.00013
CA	0.06425	172.35	5.168	0.06708	0.06509	0.06059
CD	0.00010	1.37	23.725	0.00008	0.00013	0.00009
CO	-0.00016	-3.23	53.230	-0.00018	-0.00024	-0.00007
CR	-0.00002	-13.37	697.595	0.00011	-0.00003	-0.00014
CU	0.00068	271.94	47.138	0.00071	0.00034	0.00098
FE	0.00215	17.83	15.009	0.00249	0.00212	0.00185
K	-0.03249	182.05	117.585	-0.00512	-0.01621	-0.07613
LI	0.00010	67.38	2784.983	0.00020	-0.00280	0.00290
MG	0.00116	3.81	68.226	0.00075	0.00207	0.00066
MN	0.00005	20.88	7.147	0.00005	0.00005	0.00006
MO	0.00047	6.56	28.772	0.00040	0.00063	0.00038
NA	-0.03310	234.75	59.138	-0.04093	-0.01082	-0.04755
NI	0.00089	26.97	68.318	0.00020	0.00110	0.00136
P	-0.00151	-4.19	27.476	-0.00158	-0.00107	-0.00189
PB	0.00019	10.20	116.141	-0.00001	0.00015	0.00043
SB	-0.00026	4.18	31.043	-0.00022	-0.00035	-0.00020
SE	-0.00197	3.89	109.281	0.00048	-0.00356	-0.00281
SI	0.48534	118.90	1.087	0.48292	0.48172	0.49140
SN	-0.00027	0.76	203.787	0.00028	-0.00027	-0.00080
SR	0.00043	426.12	3.136	0.00042	0.00042	0.00045
TI	-0.00001	30.30	1058.066	0.00010	0.00002	-0.00016
TL	0.00027	-5.18	171.767	0.00075	-0.00017	0.00023
V	-0.00013	-31.95	487.096	-0.00039	-0.00061	0.00060
Y1	19718.05466	19,718.05	0.552	19787.59937	19774.05556	19592.50906
Y2A	820668.95305	820,668.95	1.122	826039.63576	810036.59589	825930.62749
Y2R	27507.17161	27,507.17	0.971	27798.02796	27450.48089	27273.00598
ZN	-0.00021	14.37	15.395	-0.00018	-0.00019	-0.00024
ZR	0.00351	-6.90	67.621	0.00388	0.00567	0.00097

USF03 2393

LANCASTER LABORATORIES

Run Name: 1119801T70

Tube: 18

Sample Number: **LLC**

Instrument ID: 11016

Date/Time: 07/17/2011 21:35

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00505	171.88	9.620	0.00464	0.00559	0.00492
AL	0.18994	699.12	1.498	0.18665	0.19156	0.19161
AS	0.02018	13.20	8.560	0.01882	0.02212	0.01959
B	0.04980	914.23	1.242	0.04941	0.04948	0.05051
BA	0.00487	3,094.80	1.102	0.00484	0.00485	0.00494
BE	0.00515	6,191.79	1.047	0.00512	0.00511	0.00521
CA	0.20924	343.68	0.550	0.20832	0.21053	0.20889
CD	0.00544	168.88	1.039	0.00537	0.00548	0.00546
CO	0.00518	25.57	1.239	0.00516	0.00512	0.00525
CR	0.01585	397.26	1.207	0.01603	0.01565	0.01587
CU	0.01102	501.93	5.748	0.01063	0.01067	0.01175
FE	0.21292	2,409.31	1.106	0.21290	0.21057	0.21528
K	0.46302	368.76	6.259	0.43020	0.48509	0.47377
LI	0.01940	255.74	4.425	0.01860	0.02031	0.01929
MG	0.10492	164.95	2.155	0.10734	0.10454	0.10287
MN	0.00527	905.76	1.120	0.00526	0.00521	0.00533
MO	0.01013	64.36	0.961	0.01002	0.01021	0.01017
NA	1.00309	1,456.25	1.966	1.00981	1.01857	0.98089
NI	0.01139	50.26	2.275	0.01119	0.01131	0.01168
P	0.10163	90.91	1.618	0.10273	0.09974	0.10243
PB	0.01573	43.62	5.257	0.01658	0.01568	0.01493
SB	0.01950	25.54	5.836	0.01966	0.01829	0.02055
SE	0.01992	18.63	4.803	0.02067	0.02024	0.01884
SI	0.46513	112.54	3.738	0.47545	0.44505	0.47488
SN	0.01988	22.23	1.473	0.01979	0.01964	0.02021
SR	0.00526	4,784.15	1.492	0.00522	0.00521	0.00535
TI	0.01022	1,389.06	1.532	0.01007	0.01019	0.01038
TL	0.03181	42.55	1.002	0.03196	0.03144	0.03203
V	0.00502	81.81	3.273	0.00497	0.00521	0.00489
Y1	19690.19274	19,690.19	0.145	19712.25582	19657.84185	19700.48056
Y2A	809772.79414	809,772.79	1.138	816127.05843	813991.09157	799200.23240
Y2R	26901.02769	26,901.03	0.783	26694.73914	27115.91931	26892.42462
ZN	0.01991	548.38	0.628	0.01978	0.01992	0.02003
ZR	0.04673	41.48	6.240	0.04382	0.04670	0.04965

LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: 19

Date/Time: 07/17/2011 21:39

Sample Number: **ICSA**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00100	-16.73	19.009	-0.00106	-0.00078	-0.00115
AL	548.53825	1,293,934.71	1.056	544.65716	545.76371	555.19387
AS	0.00806	11.02	7.458	0.00837	0.00844	0.00737
B	0.03940	2,857.14	3.725	0.03866	0.03845	0.04109
BA	0.00049	470.23	5.122	0.00047	0.00049	0.00052
BE	-0.00018	-594.64	6.497	-0.00019	-0.00019	-0.00017
CA	511.03947	566,481.35	0.809	511.79683	506.57970	514.74187
CD	0.00337	576.45	4.127	0.00348	0.00321	0.00341
CO	0.00275	11.06	7.338	0.00252	0.00282	0.00291
CR	0.00212	37.83	17.344	0.00247	0.00174	0.00215
CU	0.00580	344.95	8.974	0.00606	0.00615	0.00521
FE	203.92713	1,790,970.46	0.273	203.87368	204.50907	203.39864
K	-0.04681	167.28	23.821	-0.05244	-0.05402	-0.03397
LI	0.00150	100.71	158.950	0.00073	0.00418	-0.00040
MG	521.54848	705,911.57	0.771	519.22025	526.18945	519.23573
MN	0.00475	734.56	0.867	0.00476	0.00471	0.00479
MO	-0.00011	2.76	97.390	-0.00019	0.00001	-0.00014
NA	-0.00392	256.17	317.734	-0.01767	-0.00062	0.00654
NI	-0.00201	18.29	35.582	-0.00232	-0.00253	-0.00120
P	0.00303	0.01	72.050	0.00529	0.00094	0.00285
PB	0.02917	253.54	8.820	0.03090	0.03039	0.02621
SB	0.00741	11.16	45.390	0.01123	0.00492	0.00607
SE	-0.00479	20.14	45.975	-0.00245	-0.00510	-0.00682
SI	0.41514	100.26	8.153	0.41836	0.44727	0.37981
SN	-0.00048	0.48	230.909	0.00004	-0.00176	0.00027
SR	0.00350	2,866.10	0.440	0.00348	0.00351	0.00350
TI	-0.00370	-412.21	3.061	-0.00381	-0.00370	-0.00359
TL	0.02265	-1.92	8.286	0.02080	0.02455	0.02261
V	-0.00135	17.52	31.891	-0.00103	-0.00184	-0.00119
Y1	17568.60993	17,568.61	0.169	17596.64710	17537.50989	17571.67281
Y2A	726816.40296	726,816.40	0.653	728391.42336	730575.69721	721482.08831
Y2R	26093.29566	26,093.30	0.330	26176.39960	26099.07708	26004.41030
ZN	0.00183	541.89	2.128	0.00182	0.00187	0.00180
ZR	-0.01253	-23.91	21.419	-0.01020	-0.01192	-0.01546

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LANCASTER LABORATORIES

Run Name: 1119801T70

Tube: 20

Sample Number: **ICSAB**

Instrument ID: 11016

Date/Time: 07/17/2011 21:43

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.21674	5,876.71	1.716	0.21992	0.21265	0.21765
AL	553.80656	1,284,882.53	2.111	564.55400	541.36087	555.50480
AS	0.10801	55.66	0.978	0.10922	0.10732	0.10748
B	0.04258	2,873.79	2.002	0.04207	0.04357	0.04211
BA	0.50924	264,190.29	1.452	0.51685	0.50208	0.50880
BE	0.50140	569,656.97	2.034	0.51137	0.49099	0.50182
CA	514.20233	565,511.73	2.194	511.65060	526.54081	504.41557
CD	0.93092	26,446.97	0.183	0.93247	0.93121	0.92909
CO	0.47037	2,251.12	0.141	0.47112	0.47008	0.46989
CR	0.49851	11,382.83	1.600	0.50550	0.48983	0.50019
CU	0.55557	11,328.39	1.531	0.56304	0.54631	0.55736
FE	205.49906	1,774,670.76	2.115	209.49123	200.86832	206.13762
K	-0.03099	171.73	163.937	-0.06838	0.02685	-0.05143
LI	-0.00131	73.27	144.157	-0.00314	0.00064	-0.00144
MG	517.09867	695,382.48	1.022	512.60798	522.92522	515.76282
MN	0.49163	73,809.23	1.451	0.49779	0.48381	0.49328
MO	-0.00092	-1.60	58.365	-0.00030	-0.00122	-0.00125
NA	0.00704	266.84	43.753	0.01058	0.00493	0.00561
NI	0.89356	1,788.47	0.094	0.89415	0.89260	0.89394
P	0.00425	2.06	30.528	0.00385	0.00321	0.00570
PB	0.07261	339.56	2.249	0.07229	0.07438	0.07116
SB	0.61098	599.51	0.535	0.61360	0.60732	0.61202
SE	0.04340	49.30	5.509	0.04414	0.04534	0.04073
SI	0.41054	98.70	3.694	0.42149	0.41690	0.39323
SN	-0.00060	0.36	66.359	-0.00105	-0.00029	-0.00045
SR	0.00354	2,854.84	1.498	0.00360	0.00351	0.00351
TI	-0.00320	-217.98	3.264	-0.00331	-0.00318	-0.00311
TL	0.11531	124.52	1.122	0.11575	0.11386	0.11634
V	0.52129	10,166.39	1.440	0.52811	0.51325	0.52251
Y1	17545.76855	17,545.77	0.090	17560.48389	17547.66575	17529.15600
Y2A	715757.19420	715,757.19	1.670	704737.22628	728467.86662	714066.48971
Y2R	25902.87444	25,902.87	1.659	26241.27588	25419.43128	26047.91615
ZN	0.98993	23,947.90	0.273	0.99248	0.99020	0.98710
ZR	-0.01266	-23.82	42.501	-0.00699	-0.01770	-0.01329

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LANCASTER LABORATORIES

Run Name: 1119801T70

Tube: 21

Sample Number: **CCV**

Instrument ID: 11016

Date/Time: 07/17/2011 21:47

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.51100	15,412.85	2.002	0.51841	0.49933	0.51527
AL	25.24704	71,700.08	2.121	25.67333	24.64602	25.42178
AS	0.49809	247.08	0.093	0.49785	0.49863	0.49781
B	0.50299	8,822.33	1.822	0.50993	0.49260	0.50643
BA	0.50200	286,655.63	1.314	0.50352	0.49478	0.50770
BE	0.49800	622,774.67	1.691	0.50511	0.48870	0.50019
CA	25.78561	30,986.53	0.107	25.79550	25.75450	25.80683
CD	0.50386	15,521.02	0.113	0.50444	0.50383	0.50330
CO	0.50122	2,642.91	0.182	0.50220	0.50105	0.50041
CR	0.51491	12,941.10	1.757	0.52315	0.50522	0.51635
CU	0.51857	11,649.07	1.955	0.52675	0.50722	0.52173
FE	26.26291	284,790.37	1.852	26.63489	25.71254	26.44129
K	24.26750	9,479.67	0.370	24.20576	24.22629	24.37044
LI	0.51423	5,094.24	0.275	0.51549	0.51270	0.51451
MG	25.59381	39,360.09	0.164	25.56774	25.57141	25.64227
MN	0.50915	84,130.42	1.902	0.51737	0.49847	0.51161
MO	0.49671	2,915.72	0.187	0.49598	0.49638	0.49776
NA	25.75878	30,594.82	0.255	25.82096	25.69002	25.76536
NI	0.50068	1,113.45	0.210	0.50189	0.50004	0.50011
P	0.50804	457.30	0.253	0.50817	0.50926	0.50670
PB	0.50531	1,108.53	0.441	0.50275	0.50680	0.50638
SB	0.50854	544.77	0.340	0.50786	0.50725	0.51050
SE	0.49870	336.76	0.605	0.49984	0.49528	0.50098
SI	27.32518	5,031.27	0.364	27.43119	27.31008	27.23426
SN	0.48840	511.07	0.215	0.48943	0.48845	0.48733
SR	0.52716	463,736.60	1.964	0.53478	0.51537	0.53132
TI	0.51520	66,757.41	1.882	0.52324	0.50443	0.51792
TL	0.50796	745.62	0.526	0.50940	0.50961	0.50488
V	0.52224	11,143.54	1.881	0.53038	0.51132	0.52501
Y1	19298.39442	19,298.39	0.021	19299.86474	19301.46330	19293.85521
Y2A	787794.45919	787,794.46	1.591	780222.46184	802266.47313	780894.44260
Y2R	26754.97842	26,754.98	0.150	26784.69515	26770.92980	26709.31030
ZN	0.48903	12,831.89	0.051	0.48874	0.48917	0.48917
ZR	0.49486	538.66	1.170	0.48870	0.49568	0.50019

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LANCASTER LABORATORIES

Run Name: 1119801T70

Instrument ID: 11016

Tube: 22

Date/Time: 07/17/2011 21:51

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00008	13.01	140.170	-0.00018	-0.00009	0.00004
AL	0.01521	187.52	14.889	0.01738	0.01541	0.01286
AS	-0.00149	2.38	44.621	-0.00119	-0.00103	-0.00226
B	-0.00001	49.29	5633.018	-0.00018	-0.00043	0.00058
BA	-0.00018	128.79	3.253	-0.00018	-0.00019	-0.00018
BE	0.00015	-242.16	5.489	0.00014	0.00015	0.00014
CA	0.02395	120.79	7.060	0.02265	0.02586	0.02334
CD	0.00018	3.82	22.148	0.00022	0.00018	0.00014
CO	-0.00001	-2.43	2873.857	-0.00040	0.00036	0.00000
CR	0.00004	-11.77	818.820	0.00039	-0.00002	-0.00025
CU	0.00102	276.26	90.017	0.00050	0.00048	0.00207
FE	0.00896	94.93	8.252	0.00982	0.00860	0.00848
K	-0.01182	187.51	602.662	0.06513	-0.02511	-0.07548
LI	0.00104	75.87	138.183	0.00236	0.00127	-0.00050
MG	0.02032	33.77	6.323	0.01902	0.02159	0.02037
MN	0.00008	25.05	46.985	0.00011	0.00004	0.00009
MO	0.00073	8.07	11.498	0.00073	0.00081	0.00064
NA	-0.01836	248.97	163.809	-0.04119	0.01572	-0.02960
NI	0.00094	27.03	24.085	0.00107	0.00068	0.00106
P	-0.00189	-4.53	70.211	-0.00321	-0.00188	-0.00057
PB	0.00052	10.76	216.816	0.00111	0.00124	-0.00078
SB	-0.00089	3.49	194.777	0.00108	-0.00156	-0.00218
SE	-0.00096	4.55	160.287	-0.00269	0.00021	-0.00039
SI	0.36528	94.92	1.144	0.36964	0.36489	0.36130
SN	0.00020	1.26	152.399	0.00020	0.00050	-0.00011
SR	0.00002	46.76	76.601	0.00003	0.00000	0.00003
TI	0.00007	40.85	125.000	0.00017	0.00001	0.00003
TL	0.00047	-4.88	50.239	0.00020	0.00058	0.00062
V	-0.00037	-36.83	68.120	-0.00008	-0.00049	-0.00054
Y1	19677.10766	19,677.11	0.163	19692.46265	19640.13903	19698.72131
Y2A	810609.45485	810,609.45	1.292	799376.82482	820101.14238	812350.39735
Y2R	27114.69241	27,114.69	0.739	27310.27833	27123.82881	26909.97009
ZN	-0.00027	12.57	19.259	-0.00022	-0.00032	-0.00029
ZR	0.00143	-9.14	107.527	0.00306	0.00120	0.00002

USP63 2360

ICP-MS Data

Lancaster Laboratories

ICP-MS Run Data Report

1119408E03

Date File Name: 11G13K00.E03

Run Name: 1119408E03

Analyst: 1242

Method Reference Name(s):
SW-846 6020

Reviewed By:
Choon Y Tian

Reviewed Date
07/13/2011 13:37

Verified By:
Max E Snavely

Verified Date
07/13/2011 16:57

Instrument Parameters:

Rinse Time (sec): 25.00

INTERNAL STD.	ELEMENT	MASS
SC-2		45
	NA	23
	MG	24
	AL	27
	K	39
	CA	44
	TI	47
	V	51
	CR	52
	MN	55
	FE	57
SC-3		45
	BE	9
	B	11
IN-1		115
	SE	78
IN-2		115
	CO	59
	NI	60
	CU	63
	ZN	66
	AS	75
	SR	88
	MO	98
	AG	107
	CD	111
	SN	120
	SB	121
	BA	137
BI-2		209
	TL	203
	PB	208

USPB3 2316

Run Name: 1119408E03 Date/Time: 07/13/2011 12:23:00
Tube Number: 1
Sample Number: **S0**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
BE	9	0.00000	1060780000	0.00000	0.00000	0.00000
B	11	0.00000	-47299700	0.00000	0.00000	0.00000
NA	23	0.00000	-434791000	0.00000	0.00000	0.00000
MG	24	0.00000	3185750000	0.00000	0.00000	0.00000
AL	27	0.00000	9021900000	0.00000	0.00000	0.00000
K	39	0.00000	-362350000	0.00000	0.00000	0.00000
CA	44	0.00000	-2108310000	0.00000	0.00000	0.00000
SC-1	45	382188.00000	1.103	386429.00000	382133.00000	378001.00000
SC-2	45	48250.20000	0.804	47828.30000	48591.30000	48331.20000
SC-3	45	2148090	0.868	2126550	2158600	2159110
TI	47	0.00000	0.000	0.00000	0.00000	0.00000
V	51	0.00000	1621140000	0.00000	0.00000	0.00000
CR	52	0.00000	-431659000	0.00000	0.00000	0.00000
MN	55	0.00000	2204030000	0.00000	0.00000	0.00000
FE	57	0.00000	1810160000	0.00000	0.00000	0.00000
CO	59	0.00000	-1281060000	0.00000	0.00000	0.00000
NI	60	0.00000	-4013430000	0.00000	0.00000	0.00000
CU	63	0.00000	345529000	0.00000	0.00000	0.00000
ZN	66	0.00000	2132790000	0.00000	0.00000	0.00000
GE-1	72	45581.70000	1.142	45511.50000	46133.70000	45100.00000
GE-2	72	12716.80000	1.976	12426.70000	12866.90000	12856.90000
GE-3	72	188280.00000	0.683	187685.00000	187400.00000	189756.00000
AS	75	0.00000	1241090000	0.00000	0.00000	0.00000
SE	78	0.00000	-4064680000	0.00000	0.00000	0.00000
SR	88	0.00000	1862730000	0.00000	0.00000	0.00000
MO	98	0.00000	5919480000	0.00000	0.00000	0.00000
AG	107	0.00000	10632300000	0.00000	0.00000	0.00000
CD	111	0.00000	2476440000	0.00000	0.00000	0.00000
IN-1	115	356368.00000	1.858	359710.00000	360652.00000	348742.00000
IN-2	115	60851.40000	1.701	61219.30000	59682.50000	61652.40000
SN	120	0.00000	3510320000	0.00000	0.00000	0.00000
SB	121	0.00000	-11081400000	0.00000	0.00000	0.00000
BA	137	0.00000	2994070000	0.00000	0.00000	0.00000
TB-2	159	254360.00000	1.325	251495.00000	253512.00000	258073.00000
TL	203	0.00000	17523500000	0.00000	0.00000	0.00000
PB	208	0.00000	-677966000	0.00000	0.00000	0.00000
BI-2	209	198443.00000	1.237	195612.00000	199719.00000	199997.00000

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Run Name: 1119408E03
Tube Number: 2
Sample Number: **S1**

Date/Time: 07/13/2011 12:26:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45292.90000	0.607	46614.00000	46172.10000	46092.60000
SC-3	45	2193330	1.761	2151040	2226750	2202190
AL	27	10000.00000	0.566	10021.90000	9958.64000	10019.40000
B	11	1000.00000	1.882	996.92700	1019.32000	983.75300
BE	9	100.00000	2.606	100.94300	100.77600	98.28120
CA	44	10000.00000	1.442	9920.48000	10109.80000	9969.67000
CR	52	1000.00000	0.587	1001.27000	996.99800	1001.74000
FE	57	10000.00000	1.115	9942.28000	10057.50000	10000.20000
K	39	10000.00000	0.689	9992.50000	10028.00000	9979.53000
MG	24	10000.00000	1.370	9927.78000	9983.06000	10089.20000
MN	55	1000.00000	0.230	1007.44000	999.38200	993.17400
NA	23	10000.00000	0.385	10025.50000	10000.60000	9973.97000
TI	47	1000.00000	2.102	1016.35000	973.36200	1010.29000
V	51	1000.00000	0.912	999.20900	995.06900	1005.72000
IN-1	115	351892.00000	1.522	353293.00000	345975.00000	356409.00000
IN-2	115	56094.60000	1.165	55361.30000	56614.50000	56307.90000
AG	107	100.00000	1.417	100.04100	99.45180	100.50700
AS	75	1000.00000	0.851	996.49600	1002.74000	1000.76000
BA	137	1000.00000	1.013	998.54000	1003.87000	997.59300
CD	111	100.00000	2.957	102.02900	98.72110	99.25000
CO	59	1000.00000	1.368	985.81000	996.09600	1018.09000
CU	63	1000.00000	1.240	1001.03000	1000.65000	998.31800
MO	98	100.00000	1.738	100.64800	99.60300	99.74920
NI	60	1000.00000	2.127	1011.02000	1000.53000	988.44900
SB	121	100.00000	0.787	97.79080	101.38100	100.82900
SE	78	100.00000	1.964	99.18750	100.56400	100.24800
SN	120	100.00000	1.071	98.65540	99.86880	101.47600
SR	88	100.00000	1.433	100.30200	100.41400	99.28440
ZN	66	1000.00000	1.444	1002.93000	997.46500	999.60200
BI-2	209	182611.00000	0.661	182892.00000	183652.00000	181288.00000
PB	208	100.00000	0.525	100.67900	100.04200	99.27850
TL	203	100.00000	0.650	100.66500	100.78700	98.54740
SC-1	45	383715.00000	1.192	380253.00000	381994.00000	388899.00000
GE-1	72	44906.40000	2.888	45401.10000	45883.40000	43434.60000
GE-2	72	11836.00000	1.193	11986.10000	11816.00000	11705.80000
GE-3	72	184180.00000	2.759	180463.00000	189970.00000	182107.00000
TB-2	159	240121.00000	1.072	240366.00000	242562.00000	237434.00000

USP83 2312

Run Name: 1119408E03 Date/Time: 07/13/2011 12:29:00
Tube Number: 3
Sample Number: **LRS**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45905.40000	2.289	46674.60000	44708.40000	46333.30000
SC-3	45	2138610	2.119	2106380	2190440	2119010
AL	27	9996.00000	2.702	9911.54000	10017.30000	10059.10000
B	11	508.50000	2.431	510.75900	507.07700	507.66400
BE	9	517.50000	2.839	514.42300	513.39100	524.68600
CA	44	11250.00000	3.186	11127.50000	11338.00000	11284.50000
CR	52	507.30000	2.224	503.40400	503.75000	514.74600
FE	57	9969.00000	2.517	9857.25000	9769.20000	10280.50000
K	39	9906.00000	1.472	9903.99000	9726.61000	10087.40000
MG	24	10020.00000	3.651	9795.06000	10088.90000	10176.00000
MN	55	504.00000	2.528	500.34300	503.99900	507.65700
NA	23	10200.00000	3.299	10031.40000	10259.30000	10309.30000
TI	47	519.30000	3.210	513.93200	501.16500	542.80300
V	51	504.00000	2.740	497.25200	502.66900	512.08000
IN-1	115	347860.00000	2.600	357203.00000	347226.00000	339150.00000
IN-2	115	54433.50000	4.732	55179.90000	51566.20000	56554.40000
AG	107	514.70000	4.131	515.57900	510.81900	517.70200
AS	75	510.30000	3.486	508.34800	503.39100	519.16100
BA	137	516.30000	3.847	514.77400	511.29700	522.82800
CD	111	511.70000	4.200	509.10200	508.79400	517.20500
CO	59	498.00000	3.211	496.64900	489.72800	507.62300
CU	63	504.20000	4.597	498.36100	503.67200	510.56700
MO	98	519.80000	4.159	514.40400	516.71200	528.28400
NI	60	524.80000	4.322	516.74500	522.44700	535.20800
SB	121	516.40000	5.000	512.65100	518.01400	518.53500
SE	78	503.00000	1.086	512.47200	499.96900	496.55900
SN	120	511.70000	4.602	509.08400	510.99800	515.01800
SR	88	505.40000	4.458	500.18800	504.10500	511.90700
ZN	66	503.50000	4.397	505.81000	500.67400	504.01600
BI-2	209	181646.00000	0.944	181838.00000	179844.00000	183256.00000
PB	208	513.70000	0.621	512.52000	512.26900	516.31200
TL	203	506.50000	0.781	503.21200	505.51900	510.77000
SC-1	45	376426.00000	1.813	381829.00000	378691.00000	368757.00000
GE-1	72	44230.40000	3.758	45923.10000	44166.40000	42601.70000
GE-2	72	11589.00000	1.073	11655.70000	11445.50000	11665.70000
GE-3	72	179669.00000	1.450	177186.00000	182380.00000	179440.00000
TB-2	159	236306.00000	1.441	238627.00000	232397.00000	237893.00000

USP83 2313

Run Name: 1119408E03
Tube Number: 4
Sample Number: **CCS**

Date/Time: 07/13/2011 12:32:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	44848.10000	0.858	44497.10000	45259.50000	44787.70000
SC-3	45	1856930	15.601	2188470	1729600	1652720
AL	27	0.45600	53.421	0.39086	0.39086	0.58629
B	11	29.08000	27.744	31.17700	23.33370	32.72930
BE	9	0.27540	30.624	0.23214	0.27252	0.32154
CA	44	-57.67000	-28.559	-74.14710	-49.43170	-49.43120
CR	52	-0.12260	-43.801	-0.07572	-0.17308	-0.11899
FE	57	1.46400	64.474	2.19600	0.87840	1.31760
K	39	-1.92300	-308.996	-2.02795	-1.84803	-1.89302
MG	24	1.13000	58.257	0.70137	0.93517	1.75345
MN	55	0.08516	69.058	0.11613	0.02323	0.11613
NA	23	-0.68850	-225.708	-0.69192	-0.67845	-0.69513
TI	47	0.18960	173.154	0.00000	0.00000	0.56880
V	51	0.01592	288.003	0.00796	0.02388	0.01592
IN-1	115	352266.00000	0.848	354084.00000	348820.00000	353893.00000
IN-2	115	56600.60000	1.762	55639.00000	57630.30000	56532.40000
AG	107	0.13190	15.368	0.12662	0.11607	0.15301
AS	75	0.19220	35.572	0.12535	0.25070	0.20056
BA	137	0.13480	135.089	0.31453	0.08987	0.00000
CD	111	0.02709	187.781	0.03793	0.03251	0.01084
CO	59	0.04807	31.101	0.05547	0.05546	0.03328
CU	63	0.00862	463.519	0.00903	0.00852	0.00831
MO	98	0.76310	14.913	0.62720	0.85719	0.80492
NI	60	0.09129	69.526	0.14747	0.08427	0.04213
SB	121	2.22000	7.671	2.25828	2.06689	2.33483
SE	78	0.21050	19.886	0.18334	0.19352	0.25464
SN	120	0.73490	6.054	0.67837	0.78273	0.74360
SR	88	0.02384	90.310	0.01192	0.03576	0.02384
ZN	66	0.26620	55.973	0.15972	0.37268	0.26620
BI-2	209	188350.00000	0.474	189080.00000	188617.00000	187354.00000
PB	208	0.05041	22.238	0.06026	0.04490	0.04608
TL	203	0.08761	37.324	0.12398	0.07439	0.06447
SC-1	45	369912.00000	0.924	373525.00000	366731.00000	369479.00000
GE-1	72	43902.40000	2.310	44668.40000	42751.90000	44286.80000
GE-2	72	12012.70000	0.592	12026.00000	12076.20000	11935.90000
GE-3	72	157534.00000	16.365	186915.00000	146964.00000	138725.00000
TB-2	159	240784.00000	0.594	239280.00000	240943.00000	242129.00000

USP83 2314

Run Name: 1119408E03 Date/Time: 07/13/2011 12:35:00
Tube Number: 5
Sample Number: **ICV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45938.40000	1.165	46553.80000	45580.60000	45680.80000
SC-3	45	2147970	1.372	2181990	2131290	2130610
AL	27	5014.00000	0.698	5045.05000	5009.00000	4987.96000
B	11	484.30000	1.341	490.86200	474.82700	487.21100
BE	9	51.17000	1.532	51.29650	50.60060	51.61290
CA	44	4806.00000	4.320	5081.98000	4750.76000	4585.25000
CR	52	506.70000	1.051	507.40700	506.76700	505.92600
FE	57	5027.00000	0.576	5093.52000	4959.49000	5027.99000
K	39	4904.00000	1.270	4904.76000	4922.41000	4884.83000
MG	24	5022.00000	1.306	5031.78000	5054.39000	4979.84000
MN	55	509.10000	1.163	510.99700	503.48300	512.82000
NA	23	5087.00000	0.804	5108.43000	5073.70000	5078.87000
TI	47	496.60000	0.938	504.73500	487.54000	497.52500
V	51	505.40000	1.006	506.29400	503.86100	506.04500
IN-1	115	346764.00000	1.109	345099.00000	344030.00000	351163.00000
IN-2	115	56903.20000	1.406	57729.10000	56131.90000	56848.70000
AG	107	50.00000	1.195	50.14260	49.28740	50.57010
AS	75	488.00000	2.015	487.00100	492.26200	484.71700
BA	137	502.10000	2.215	499.72100	507.40700	499.17300
CD	111	50.45000	0.609	51.15340	50.08410	50.11250
CO	59	489.60000	0.554	495.14200	486.07100	487.58700
CU	63	497.00000	1.532	498.38000	498.81900	493.80100
MO	98	49.03000	1.461	48.98270	48.44810	49.65920
NI	60	511.90000	1.100	517.47200	511.23700	506.99000
SB	121	50.63000	2.244	50.16410	50.06710	51.65880
SE	78	50.64000	2.674	51.41850	50.76590	49.73560
SN	120	48.82000	3.755	47.71010	48.11160	50.63830
SR	88	48.03000	2.122	47.60020	47.62220	48.86760
ZN	66	487.90000	1.117	488.65800	484.75600	490.28600
BI-2	209	185403.00000	0.984	185909.00000	186922.00000	183379.00000
PB	208	50.18000	1.519	50.64190	49.71820	50.17980
TL	203	50.08000	2.228	51.30150	49.33490	49.60370
SC-1	45	370247.00000	2.443	366582.00000	363612.00000	380548.00000
GE-1	72	44197.10000	1.298	44538.20000	43534.80000	44518.20000
GE-2	72	11915.90000	5.334	11675.80000	11435.40000	12636.60000
GE-3	72	177412.00000	1.953	181060.00000	174168.00000	177008.00000
TB-2	159	241570.00000	1.597	240860.00000	245732.00000	238117.00000

USPB3 2315

Run Name: 1119408E03
Tube Number: 6
Sample Number: **ICB**

Date/Time: 07/13/2011 12:39:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45436.50000	2.011	44516.60000	45449.60000	46343.40000
SC-3	45	2068190	1.266	2098260	2055970	2050350
AL	27	1.00400	104.482	1.09527	1.64291	0.27382
B	11	21.42000	0.570	21.80810	21.19600	21.25600
BE	9	0.05784	9.978	0.06348	0.05713	0.05290
CA	44	-48.19000	-35.028	-40.58090	-60.87200	-43.11700
CR	52	-0.12760	-35.047	-0.13920	-0.16240	-0.08120
FE	57	0.24770	377.311	0.55733	0.18578	0.00000
K	39	-6.62100	-14.857	-6.41258	-6.65974	-6.79068
MG	24	0.83550	32.089	0.76285	0.65386	1.08979
MN	55	0.11730	44.109	0.16422	0.07038	0.11730
NA	23	-1.57900	-138.632	-1.58537	-1.59273	-1.55889
TI	47	0.37360	173.207	0.00000	1.12080	0.00000
V	51	0.00946	318.187	0.00668	0.00835	0.01336
IN-1	115	346126.00000	0.976	349543.00000	346045.00000	342791.00000
IN-2	115	56808.60000	0.260	56939.20000	56647.90000	56838.90000
AG	107	0.01460	42.336	0.01752	0.00876	0.01752
AS	75	0.14480	52.459	0.09653	0.21720	0.12067
BA	137	0.01777	160.495	0.00000	0.02666	0.02666
CD	111	-0.01766	-171.857	-0.02980	-0.00993	-0.01325
CO	59	0.04997	55.934	0.07773	0.03331	0.03887
CU	63	0.04753	245.319	0.05501	0.04753	0.04005
MO	98	0.16210	13.257	0.16210	0.14409	0.18011
NI	60	0.07418	19.089	0.08092	0.08092	0.06069
SB	121	0.17120	22.500	0.17120	0.14007	0.20233
SE	78	0.04278	41.725	0.03020	0.05285	0.04530
SN	120	0.06725	63.762	0.08743	0.06725	0.04707
SR	88	-0.00573	-223.579	-0.00860	0.00000	-0.00860
ZN	66	-0.07009	-63.875	-0.10514	0.00000	-0.10514
BI-2	209	186796.00000	0.443	187749.00000	186254.00000	186384.00000
PB	208	0.00583	85.033	0.00447	0.00610	0.00691
TL	203	0.02791	18.610	0.02791	0.02326	0.03256
SC-1	45	363791.00000	0.294	364955.00000	363563.00000	362854.00000
GE-1	72	43267.00000	1.324	43715.10000	42621.60000	43464.30000
GE-2	72	11986.00000	1.379	11825.80000	11976.00000	12156.10000
GE-3	72	178440.00000	1.603	180343.00000	179826.00000	175150.00000
TB-2	159	240060.00000	0.604	239420.00000	239040.00000	241721.00000

USP83 2316

Run Name: 1119408E03
Tube Number: 7
Sample Number: LLC

Date/Time: 07/13/2011 12:42:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45229.30000	1.825	44728.00000	44777.80000	46182.30000
SC-3	45	2113540	1.545	2092720	2096720	2151180
AL	27	101.20000	4.428	98.57620	105.20400	99.81950
B	11	57.58000	2.390	56.66850	58.46530	57.60620
BE	9	0.52850	4.511	0.54321	0.49909	0.54320
CA	44	178.60000	25.207	195.68400	188.69400	151.42200
CR	52	1.99900	1.285	1.99900	1.95624	2.04176
FE	57	99.61000	13.362	108.17600	83.67180	106.98200
K	39	191.10000	3.905	186.18100	194.69300	192.42600
MG	24	105.30000	4.869	98.82870	104.61100	112.46000
MN	55	1.12100	18.528	1.02135	1.34520	0.99644
NA	23	209.80000	2.485	204.05700	211.77100	213.57200
TI	47	4.49400	32.043	2.80871	5.05573	5.61756
V	51	0.48920	18.753	0.57370	0.45362	0.44028
IN-1	115	351608.00000	1.417	346805.00000	356749.00000	351269.00000
IN-2	115	57674.90000	1.726	56526.40000	58202.70000	58295.60000
AG	107	0.50560	15.010	0.48980	0.43713	0.58987
AS	75	2.04400	10.284	2.16424	2.13649	1.83127
BA	137	1.87900	14.811	1.66628	2.21625	1.73447
CD	111	0.56700	9.074	0.55866	0.61703	0.52531
CO	59	0.50150	11.452	0.43075	0.55561	0.51815
CU	63	2.06000	3.660	1.99832	2.03533	2.14635
MO	98	0.50620	18.988	0.49279	0.60342	0.42239
NI	60	2.06700	12.695	2.27452	2.10689	1.81959
SB	121	1.04000	15.404	0.93600	0.95434	1.22965
SE	78	1.93900	4.983	2.02088	1.89806	1.89806
SN	120	2.03500	8.177	1.98957	1.89420	2.22123
SR	88	0.49640	27.216	0.35657	0.50339	0.62925
ZN	66	14.60000	7.315	15.48560	13.89160	14.42280
BI-2	209	190234.00000	0.838	189824.00000	191994.00000	188885.00000
PB	208	1.01000	4.292	1.04388	1.03002	0.95611
TL	203	0.48480	22.174	0.57264	0.36993	0.51183
SC-1	45	366790.00000	1.633	365064.00000	373453.00000	361853.00000
GE-1	72	44621.70000	2.824	43735.10000	46063.60000	44066.40000
GE-2	72	12069.40000	1.381	12016.10000	12256.20000	11935.90000
GE-3	72	181570.00000	2.014	180232.00000	178771.00000	185706.00000
TB-2	159	242913.00000	1.779	245186.00000	245623.00000	237931.00000

USF03 2317

Run Name: 1119408E03
Tube Number: 8
Sample Number: **ICSA**

Date/Time: 07/13/2011 12:45:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45721.10000	4.374	44497.10000	44636.80000	48029.40000
SC-3	45	2127450	1.472	2151260	2139100	2091970
AL	27	10160.00000	3.844	10177.40000	10085.70000	10216.90000
B	11	9.65700	1.342	9.80048	9.75544	9.41508
BE	9	0.02292	28.263	0.01976	0.02213	0.02687
CA	44	9539.00000	3.349	9340.71000	9601.71000	9674.58000
CR	52	0.01397	139.227	0.01276	0.01336	0.01579
FE	57	10230.00000	4.246	10312.40000	10128.10000	10249.50000
K	39	11880.00000	4.214	11871.40000	11876.10000	11892.50000
MG	24	10230.00000	4.115	10276.90000	10156.20000	10256.90000
MN	55	0.71720	17.080	0.75795	0.56235	0.83130
NA	23	10450.00000	3.854	10384.30000	10460.40000	10505.30000
TI	47	206.90000	7.506	193.51200	219.73000	207.45700
V	51	-0.00558	-600.896	-0.00837	-0.00359	-0.00478
IN-1	115	348468.00000	0.348	349635.00000	348554.00000	347215.00000
IN-2	115	55864.50000	2.232	57241.00000	54809.40000	55543.00000
AG	107	0.02038	30.697	0.02352	0.02352	0.01411
AS	75	0.10820	52.763	0.16230	0.09274	0.06956
BA	137	0.00189	1560.250	0.00000	0.00568	0.00000
CD	111	0.02201	255.702	0.01415	0.01415	0.03773
CO	59	0.02029	46.343	0.02809	0.01873	0.01405
CU	63	-0.12830	-46.750	-0.14553	-0.11298	-0.12639
MO	98	205.40000	1.262	207.43200	202.95100	205.81700
NI	60	0.04971	148.884	0.11185	0.00000	0.03728
SB	121	0.04929	90.424	0.06337	0.02112	0.06337
SE	78	0.04597	85.534	0.06129	0.06129	0.01532
SN	120	0.03195	258.529	0.00871	0.05664	0.03050
SR	88	0.39540	30.248	0.28037	0.40978	0.49604
ZN	66	-0.01824	-644.189	-0.04104	0.00000	-0.01368
BI-2	209	184608.00000	1.463	182546.00000	183612.00000	187666.00000
PB	208	0.00118	542.760	0.00083	0.00104	0.00167
TL	203	0.00718	143.952	0.00000	0.00718	0.01435
SC-1	45	366496.00000	0.733	369562.00000	365370.00000	364554.00000
GE-1	72	43939.60000	1.866	44839.00000	43233.40000	43746.20000
GE-2	72	12249.60000	3.318	12056.10000	11976.00000	12716.70000
GE-3	72	180519.00000	1.479	183597.00000	178819.00000	179142.00000
TB-2	159	240356.00000	2.037	245911.00000	238489.00000	236668.00000

USP83 2310

Run Name: 1119408E03
Tube Number: 9
Sample Number: **ICSAB**

Date/Time: 07/13/2011 12:48:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	44122.10000	1.785	43734.10000	43603.90000	45028.20000
SC-3	45	2063260	0.276	2058040	2062410	2069340
AL	27	10350.00000	1.409	10329.30000	10327.40000	10393.30000
B	11	6.08500	2.624	6.10629	6.00296	6.14575
BE	9	0.01031	7.375	0.01049	0.00994	0.01049
CA	44	9676.00000	3.599	9485.23000	9946.30000	9596.47000
CR	52	20.93000	4.778	20.68070	19.72600	22.38330
FE	57	10430.00000	2.341	10391.90000	10522.30000	10375.80000
K	39	12100.00000	2.394	11924.90000	12273.30000	12101.70000
MG	24	10390.00000	1.469	10279.90000	10429.40000	10460.70000
MN	55	22.00000	2.468	22.21420	21.95720	21.82860
NA	23	10430.00000	1.665	10481.20000	10358.30000	10450.40000
TI	47	198.90000	5.767	191.77500	209.68400	195.24200
V	51	-0.02939	-95.100	-0.03919	-0.03919	-0.00980
IN-1	115	336648.00000	2.633	345746.00000	336162.00000	328037.00000
IN-2	115	55426.70000	1.907	55352.80000	54409.00000	56518.40000
AG	107	19.70000	2.726	19.56520	19.91960	19.61520
AS	75	19.97000	4.976	21.06920	18.88050	19.96030
BA	137	0.03542	2.717	0.03542	0.03542	0.03542
CD	111	20.33000	2.843	20.07470	20.60790	20.30740
CO	59	19.67000	2.012	19.60810	19.72070	19.68120
CU	63	19.44000	0.293	19.40110	19.03540	19.88350
MO	98	201.20000	2.109	200.98200	201.72500	200.89300
NI	60	20.37000	2.463	19.95210	20.55390	20.60400
SB	121	0.09008	32.471	0.10810	0.06756	0.09458
SE	78	0.04011	69.609	0.06016	0.03760	0.02256
SN	120	-0.01759	-77.260	-0.01759	-0.01319	-0.02199
SR	88	0.44860	39.300	0.32559	0.36901	0.65120
ZN	66	19.61000	8.251	20.34900	20.34910	18.13190
BI-2	209	179954.00000	0.844	178352.00000	180138.00000	181372.00000
PB	208	0.01111	45.401	0.01111	0.01307	0.00915
TL	203	0.00034	900.000	0.00000	0.00052	0.00052
SC-1	45	361149.00000	1.410	366869.00000	359469.00000	357109.00000
GE-1	72	42678.60000	1.617	42250.40000	42310.50000	43474.70000
GE-2	72	11415.60000	2.293	11235.30000	11715.90000	11295.50000
GE-3	72	176442.00000	1.318	178304.00000	173836.00000	177187.00000
TB-2	159	236684.00000	1.436	232760.00000	238689.00000	238604.00000

USF03 2319

Run Name: 1119408E03 Date/Time: 07/13/2011 12:51:00
Tube Number: 10
Sample Number: **CCV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	43580.40000	1.767	43814.80000	42720.40000	44206.00000
SC-3	45	2097440	1.660	2059660	2128230	2104430
AL	27	2539.00000	3.095	2481.31000	2571.97000	2563.73000
B	11	240.50000	1.465	239.98300	242.81900	238.69800
BE	9	26.06000	2.616	26.34480	25.88690	25.94830
CA	44	2439.00000	7.228	2573.15000	2201.64000	2542.21000
CR	52	257.80000	2.050	253.27800	256.91700	263.20500
FE	57	2626.00000	3.175	2558.18000	2657.74000	2662.08000
K	39	2517.00000	3.245	2456.33000	2548.15000	2546.52000
MG	24	2551.00000	1.627	2545.57000	2547.85000	2559.58000
MN	55	258.40000	1.885	257.07100	258.86800	259.26100
NA	23	2591.00000	1.022	2575.66000	2558.67000	2638.67000
TI	47	239.20000	3.110	236.08200	230.23600	251.28200
V	51	256.00000	1.134	254.14700	253.31100	260.54300
IN-1	115	349175.00000	0.843	351396.00000	345836.00000	350293.00000
IN-2	115	53877.10000	1.118	54311.80000	53189.90000	54129.50000
AG	107	25.72000	2.362	25.27740	25.94380	25.93870
AS	75	251.40000	3.302	244.03600	251.01900	259.14600
BA	137	253.30000	2.463	251.07000	257.18500	251.64500
CD	111	25.42000	1.083	25.31030	25.21050	25.73920
CO	59	251.40000	2.249	247.45200	253.44100	253.30600
CU	63	255.40000	1.489	253.41000	252.66800	260.12200
MO	98	25.50000	5.502	24.30800	26.57320	25.61890
NI	60	266.50000	3.703	259.52300	273.51500	266.46300
SB	121	25.10000	2.455	24.72470	24.70450	25.87080
SE	78	25.29000	2.243	26.04340	24.99840	24.82810
SN	120	24.94000	2.834	24.40110	24.68820	25.73070
SR	88	25.71000	3.610	24.87340	26.11650	26.14020
ZN	66	251.40000	2.601	248.22700	246.01400	259.96000
BI-2	209	180805.00000	1.154	180609.00000	178823.00000	182983.00000
PB	208	25.34000	0.477	25.36920	24.92410	25.72660
TL	203	25.79000	2.781	25.07760	25.43830	26.85410
SC-1	45	367281.00000	0.934	367892.00000	363584.00000	370365.00000
GE-1	72	43818.90000	0.370	43845.90000	43645.00000	43965.80000
GE-2	72	11632.40000	1.945	11395.40000	11655.70000	11846.00000
GE-3	72	177958.00000	0.772	177734.00000	179430.00000	176711.00000
TB-2	159	235164.00000	1.060	232314.00000	236942.00000	236234.00000

USEPA 2328

Run Name: 1119408E03 Date/Time: 07/13/2011 12:54:00
Tube Number: 11
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	44818.00000	1.731	45630.90000	44737.60000	44085.60000
SC-3	45	2128540	1.021	2153560	2114190	2117890
AL	27	0.31600	230.063	0.47401	0.00000	0.47399
B	11	10.32000	3.140	10.23210	10.32600	10.40200
BE	9	0.01734	68.397	0.01125	0.02390	0.01687
CA	44	-48.74000	-49.282	-67.88860	-41.77650	-36.55490
CR	52	-0.14660	-3.593	-0.15707	-0.14136	-0.14136
FE	57	1.45000	61.262	2.17498	1.30502	0.86999
K	39	-5.83800	-30.987	-5.99708	-5.89387	-5.62305
MG	24	0.33730	120.901	0.59028	0.33730	0.08432
MN	55	0.04188	205.349	0.12564	0.00000	0.00000
NA	23	-4.66400	-26.115	-4.83851	-4.62727	-4.52622
TI	47	0.00000	0.000	0.00000	0.00000	0.00000
V	51	-0.02543	-68.423	-0.03052	-0.03052	-0.01526
IN-1	115	346542.00000	0.432	347142.00000	344838.00000	347646.00000
IN-2	115	55938.50000	3.223	54127.20000	57733.00000	55955.30000
AG	107	0.00232	421.810	0.00696	0.00000	0.00000
AS	75	0.09943	93.664	0.06884	0.04589	0.18356
BA	137	0.00154	1874.270	0.00000	0.00000	0.00463
CD	111	-0.01450	-299.310	-0.00512	-0.02815	-0.01024
CO	59	0.03757	42.454	0.03220	0.05367	0.02684
CU	63	0.02944	333.560	0.02967	0.02587	0.03278
MO	98	0.12070	25.998	0.09483	0.12070	0.14656
NI	60	0.02617	58.426	0.03140	0.01570	0.03140
SB	121	0.02298	123.107	0.02068	0.03447	0.01379
SE	78	0.06546	43.645	0.08538	0.04269	0.06831
SN	120	0.02492	188.363	0.01780	0.03916	0.01780
SR	88	-0.00523	-253.440	-0.00785	0.00000	-0.00785
ZN	66	-0.12170	0.000	0.00000	0.00000	0.00000
BI-2	209	188860.00000	0.795	187377.00000	190382.00000	188819.00000
PB	208	0.00084	717.722	0.00103	0.00096	0.00052
TL	203	0.02067	87.083	0.00443	0.02215	0.03543
SC-1	45	360947.00000	0.283	361979.00000	360921.00000	359939.00000
GE-1	72	42568.00000	1.247	43032.80000	42681.80000	41989.40000
GE-2	72	12039.30000	1.854	12126.10000	11785.70000	12206.20000
GE-3	72	181089.00000	0.646	182330.00000	180006.00000	180930.00000
TB-2	159	240788.00000	1.444	236986.00000	243808.00000	241571.00000

USP03 2321

Run Name: 1119408E03 Date/Time: 07/13/2011 12:57:00
Tube Number: 12 Batch: 111936050003A
Sample Number: **PBW** Class: **********

Initial Vol: 50.00 Final Vol: 50.00 DF: 1.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

				INTEGRATIONS		
Element	MASS	CONC. MEAN (ppb)	%RSD	#1	#2	#3
SC-2	45	44727.60000	1.478	45119.20000	43964.50000	45099.20000
SC-3	45	2101100	0.562	2111490	2103550	2088260
AL	27	5.78800	14.478	6.55964	5.78797	5.01639
B	11	8.94600	1.569	9.06439	8.95615	8.81744
BE	9	0.01114	70.278	0.01416	0.01190	0.00736
CA	44	-12.31000	-304.224	-9.78863	-16.90790	-10.23350
CR	52	-0.12210	-48.444	-0.08619	-0.09696	-0.18315
FE	57	1.27200	127.752	1.69600	2.12000	0.00000
K	39	-9.20500	-67.235	-9.92891	-8.91684	-8.76925
MG	24	1.04400	37.404	0.92800	1.39201	0.81200
MN	55	0.03430	41.166	0.04116	0.02058	0.04116
NA	23	-2.86900	-111.293	-2.84229	-2.96109	-2.80362
TI	47	0.00000	0.000	0.00000	0.00000	0.00000
V	51	-0.02507	-39.326	-0.02256	-0.03008	-0.02256
IN-1	115	344352.00000	1.116	343928.00000	348389.00000	340740.00000
IN-2	115	56337.10000	0.381	56578.10000	56166.40000	56266.90000
AG	107	0.00750	124.494	0.01501	0.00375	0.00375
AS	75	0.06940	23.357	0.08328	0.06246	0.06246
BA	137	0.01799	159.533	0.02699	0.02699	0.00000
CD	111	-0.00451	-1084.020	-0.00744	-0.00541	-0.00068
CO	59	0.01153	169.384	0.00000	0.01153	0.02306
CU	63	0.14670	48.105	0.16137	0.14083	0.13790
MO	98	0.02835	157.284	0.02501	0.05003	0.01001
NI	60	0.01739	82.519	0.01304	0.02608	0.01304
SB	121	0.00982	114.617	0.01105	0.01105	0.00737
SE	78	0.03130	90.895	0.03354	0.04695	0.01341
SN	120	-0.03769	-58.636	-0.04240	-0.01413	-0.05654
SR	88	0.09161	73.693	0.09161	0.14658	0.03664
ZN	66	0.19170	108.346	0.09585	0.14377	0.33548
BI-2	209	187889.00000	1.178	185343.00000	188974.00000	189350.00000
PB	208	0.00417	227.057	0.00625	0.00313	0.00313
TL	203	0.00534	110.036	0.00320	0.00320	0.00961
SC-1	45	359462.00000	0.069	359431.00000	359722.00000	359232.00000
GE-1	72	42173.70000	0.122	42230.60000	42130.20000	42160.20000
GE-2	72	11829.20000	1.401	11655.80000	11846.00000	11985.90000
GE-3	72	181702.00000	1.184	181130.00000	184082.00000	179893.00000
TB-2	159	238354.00000	0.717	237224.00000	237517.00000	240322.00000

USP03 2322

Run Name: 1119408E03
Tube Number: 13
Sample Number: **LCSW**

Date/Time: 07/13/2011 13:00:00
Batch: 111936050003A
Class: **********

Initial Vol: 1.00 Final Vol: 1.00 DF: 1.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	44737.60000	0.603	44958.40000	44436.80000	44817.60000
SC-3	45	2120900	1.052	2143400	2120530	2098760
AL	27	2084.00000	2.275	2087.10000	2120.42000	2044.49000
B	11	251.20000	1.237	251.39100	254.52100	247.68800
BE	9	4.31500	1.963	4.40979	4.21679	4.31843
CA	44	3967.00000	3.348	3965.71000	3823.48000	4111.81000
CR	52	53.43000	0.603	53.41380	52.99900	53.87710
FE	57	1047.00000	1.739	1072.95000	1026.73000	1041.32000
K	39	10230.00000	0.561	10278.00000	10105.80000	10306.20000
MG	24	2108.00000	1.778	2079.75000	2129.96000	2114.29000
MN	55	52.37000	4.012	51.51610	54.43280	51.16100
NA	23	10360.00000	1.015	10295.70000	10378.50000	10405.90000
TI	47	254.90000	1.899	252.24100	251.67500	260.78500
V	51	52.56000	0.434	52.55980	52.29480	52.82530
IN-1	115	346215.00000	1.645	348682.00000	350261.00000	339702.00000
IN-2	115	54664.90000	0.521	54825.50000	54833.20000	54336.00000
AG	107	52.61000	0.874	52.75650	52.31690	52.75660
AS	75	10.81000	5.914	11.44070	10.16950	10.81990
BA	137	49.72000	3.001	48.81340	49.22460	51.12200
CD	111	5.54300	3.698	5.50081	5.39371	5.73448
CO	59	258.00000	0.262	259.16900	258.01400	256.81800
CU	63	52.92000	0.681	53.45560	52.75580	52.54870
MO	98	52.66000	1.858	52.18320	52.33060	53.46620
NI	60	54.42000	2.725	55.52340	52.87540	54.86110
SB	121	6.29900	9.629	6.43261	6.85348	5.61091
SE	78	10.67000	6.852	9.94950	11.44770	10.61280
SN	120	52.20000	1.649	51.36330	52.78280	52.45390
SR	88	41.52000	1.094	41.53560	41.25760	41.76680
ZN	66	51.38000	4.268	49.93030	54.03770	50.17190
BI-2	209	184445.00000	1.427	185701.00000	186213.00000	181420.00000
PB	208	15.60000	0.393	15.63920	15.80390	15.35700
TL	203	2.01200	2.755	1.97352	2.02600	2.03648
SC-1	45	368817.00000	1.798	365881.00000	376408.00000	364163.00000
GE-1	72	43083.20000	2.741	43153.30000	44227.10000	41869.20000
GE-2	72	12042.70000	2.685	12316.20000	12126.10000	11685.80000
GE-3	72	179116.00000	2.968	181713.00000	182635.00000	173001.00000
TB-2	159	236119.00000	0.395	237194.00000	235514.00000	235649.00000

USF83 2323

Run Name: 1119408E03
Tube Number: 14
Sample Number: **LCSWD**

Date/Time: 07/13/2011 13:03:00
Batch: 111936050003A
Class: **********

Initial Vol: 1.00 Final Vol: 1.00 DF: 1.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45419.90000	0.914	45078.50000	45299.20000	45881.90000
SC-3	45	2198800	1.918	2240820	2199090	2156480
AL	27	2118.00000	0.590	2087.93000	2121.58000	2144.49000
B	11	260.20000	1.233	264.50200	257.54700	258.55000
BE	9	4.30000	2.526	4.33682	4.42371	4.13947
CA	44	4113.00000	0.453	4096.57000	4107.95000	4134.48000
CR	52	54.28000	1.368	54.06420	53.31860	55.45710
FE	57	1087.00000	1.967	1103.37000	1071.02000	1086.60000
K	39	10350.00000	0.259	10302.70000	10306.40000	10440.90000
MG	24	2133.00000	0.873	2111.61000	2148.09000	2139.31000
MN	55	53.81000	1.594	52.46090	53.88490	55.08420
NA	23	10600.00000	0.768	10515.70000	10655.20000	10629.10000
TI	47	267.60000	6.659	275.45800	277.69900	249.64300
V	51	53.60000	2.021	54.38960	52.55930	53.85100
IN-1	115	346204.00000	1.707	339586.00000	350957.00000	348068.00000
IN-2	115	56711.40000	0.700	56281.70000	56787.60000	57065.10000
AG	107	51.72000	0.465	51.59850	51.60430	51.95720
AS	75	10.63000	2.767	10.80100	10.71550	10.37350
BA	137	49.84000	1.276	49.72550	49.18020	50.61430
CD	111	5.13400	6.671	4.88401	5.53085	4.98714
CO	59	253.60000	0.100	251.39100	254.03500	255.37500
CU	63	52.82000	1.735	51.75350	53.91990	52.78670
MO	98	52.05000	2.448	53.03500	51.86440	51.25060
NI	60	53.05000	2.181	51.92140	52.51000	54.71860
SB	121	6.04800	9.967	6.68577	5.64217	5.81606
SE	78	10.70000	5.662	10.99000	11.02440	10.08560
SN	120	51.16000	2.651	52.32630	50.36800	50.78570
SR	88	41.27000	3.259	42.44460	40.21440	41.15090
ZN	66	52.07000	8.191	46.86940	55.33020	54.01040
BI-2	209	188533.00000	0.951	190124.00000	186591.00000	188884.00000
PB	208	15.52000	1.472	15.45040	15.31110	15.79860
TL	203	2.15400	2.459	2.11120	2.16772	2.18308
SC-1	45	367605.00000	0.769	366157.00000	370863.00000	365796.00000
GE-1	72	43611.60000	0.711	43354.50000	43524.70000	43955.70000
GE-2	72	12112.90000	0.741	12056.10000	12066.20000	12216.30000
GE-3	72	183673.00000	2.920	184578.00000	188525.00000	177915.00000
TB-2	159	242295.00000	0.934	240291.00000	241845.00000	244748.00000

USF83 2324

Run Name: 1119408E03
Tube Number: 15
Sample Number: **6337222**

Date/Time: 07/13/2011 13:06:00
Batch: 111936050003A
Class: **********

Initial Vol: 50.00 Final Vol: 50.00 DF: 1.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	42721.00000	3.214	43493.60000	41136.20000	43533.20000
SC-3	45	2179520	1.421	2166780	2156940	2214820
AL	27	7.64900	37.900	10.65400	4.91721	7.37582
B	11	15.43000	3.572	15.60640	15.42050	15.26310
BE	9	0.01522	35.979	0.01415	0.01286	0.01865
CA	44	6.06800	185.069	6.65518	5.28507	6.26375
CR	52	-0.13700	-25.292	-0.11338	-0.11338	-0.18424
FE	57	16.17000	9.035	16.57940	14.12310	17.80750
K	39	5.29600	32.062	5.46186	5.11911	5.30703
MG	24	3.69200	24.632	4.15351	4.15350	2.76899
MN	55	0.47140	18.432	0.44521	0.54997	0.41902
NA	23	13.45000	11.338	13.77920	13.12440	13.44640
TI	47	0.99790	90.390	0.00000	1.19746	1.79624
V	51	-0.01147	-254.752	-0.01434	-0.01434	-0.00573
IN-1	115	350918.00000	1.251	355967.00000	347997.00000	348791.00000
IN-2	115	53986.80000	5.592	54116.90000	50904.50000	56938.90000
AG	107	0.00423	76.974	0.00635	0.00317	0.00317
AS	75	0.10950	103.196	0.09386	0.02346	0.21118
BA	137	0.05219	111.841	0.07829	0.00000	0.07829
CD	111	-0.01728	-165.625	-0.02074	-0.02419	-0.00691
CO	59	0.05537	49.305	0.08306	0.04153	0.04153
CU	63	0.17760	44.600	0.18478	0.17939	0.16863
MO	98	0.08571	98.798	0.04821	0.04821	0.16071
NI	60	0.14970	41.202	0.16546	0.18910	0.09455
SB	121	0.03229	26.674	0.03523	0.02642	0.03523
SE	78	0.03044	131.110	0.03261	0.00652	0.05218
SN	120	0.17130	52.347	0.24122	0.14683	0.12585
SR	88	0.17300	38.474	0.22836	0.10380	0.18684
ZN	66	0.80400	31.990	1.06412	0.63847	0.70941
BI-2	209	180308.00000	5.227	186760.00000	169493.00000	184670.00000
PB	208	0.01114	27.442	0.01114	0.01180	0.01048
TL	203	0.00737	66.898	0.01105	0.00368	0.00737
SC-1	45	366853.00000	0.677	363992.00000	368120.00000	368445.00000
GE-1	72	42902.50000	0.854	43313.70000	42782.10000	42611.60000
GE-2	72	11161.90000	9.828	11435.50000	9954.32000	12096.00000
GE-3	72	182040.00000	0.800	182630.00000	180380.00000	183110.00000
TB-2	159	228376.00000	6.222	237697.00000	212022.00000	235408.00000

USP83 2325

Run Name: 1119408E03
Tube Number: 16
Sample Number: **6338269**

Date/Time: 07/13/2011 13:09:00
Batch: 111936050003A
Class: **********

Initial Vol: 50.00 Final Vol: 50.00 DF: 1.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45748.00000	0.762	46072.50000	45792.00000	45379.50000
SC-3	45	2171810	0.754	2155820	2171050	2188560
AL	27	6.74100	8.773	6.86818	7.24982	6.10500
B	11	8.88000	1.082	8.76549	8.87422	9.00030
BE	9	0.00613	12.209	0.00601	0.00638	0.00601
CA	44	-11.21000	-146.922	-11.73140	-9.38508	-12.51350
CR	52	-0.11320	-25.583	-0.13768	-0.11014	-0.09178
FE	57	4.59600	46.018	4.77279	2.65151	6.36370
K	39	-3.73200	-119.962	-3.91669	-3.56844	-3.71087
MG	24	4.23900	17.391	4.93107	3.50369	4.28224
MN	55	0.13230	56.485	0.21012	0.07004	0.11674
NA	23	291.90000	1.026	296.59800	290.15600	288.94600
TI	47	0.00000	0.000	0.00000	0.00000	0.00000
V	51	-0.01115	-154.439	-0.01287	-0.01287	-0.00772
IN-1	115	351479.00000	0.909	355097.00000	350294.00000	349046.00000
IN-2	115	56996.60000	1.629	58035.10000	56708.30000	56246.30000
AG	107	0.00379	77.986	0.00569	0.00284	0.00284
AS	75	0.15300	52.673	0.19326	0.19326	0.07247
BA	137	0.13290	38.646	0.08860	0.13290	0.17720
CD	111	-0.02716	-81.222	-0.01880	-0.04387	-0.01880
CO	59	0.00925	147.599	0.00347	0.00694	0.01734
CU	63	0.14380	83.519	0.12856	0.13856	0.16428
MO	98	0.02430	131.605	0.00911	0.03189	0.03189
NI	60	0.02476	148.223	0.04457	0.02971	0.00000
SB	121	-0.00341	-1002.350	-0.00171	-0.00171	-0.00682
SE	78	0.02282	47.721	0.02853	0.02282	0.01712
SN	120	0.00962	397.213	0.00801	0.01443	0.00641
SR	88	0.20800	29.745	0.24155	0.24155	0.14090
ZN	66	0.42030	19.227	0.42030	0.36026	0.48034
BI-2	209	190870.00000	1.284	193363.00000	190782.00000	188464.00000
PB	208	0.00219	97.621	0.00248	0.00213	0.00195
TL	203	0.00358	219.704	0.00269	0.00000	0.00806
SC-1	45	366180.00000	0.572	368095.00000	363945.00000	366500.00000
GE-1	72	43213.20000	0.996	43584.10000	43313.90000	42741.50000
GE-2	72	12116.20000	1.083	12256.20000	12096.10000	11996.10000
GE-3	72	185185.00000	2.040	184506.00000	181792.00000	189256.00000
TB-2	159	242807.00000	0.783	244996.00000	241861.00000	241564.00000

USF03 2326

Run Name: 1119408E03
Tube Number: 17
Sample Number: **6339388**

Date/Time: 07/13/2011 13:12:00
Batch: 111936050003A
Class: **********

Initial Vol: 50.00 Final Vol: 50.00 DF: 1.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45563.70000	0.275	45620.80000	45419.70000	45650.40000
SC-3	45	2159120	1.114	2170940	2131450	2174970
AL	27	5.39500	17.481	4.89314	4.89314	6.39872
B	11	6.48000	2.059	6.49149	6.46450	6.48402
BE	9	0.00292	212.993	0.00213	0.00406	0.00256
CA	44	-4.30200	-501.162	-4.82202	-4.68025	-3.40373
CR	52	-0.16040	-18.710	-0.21173	-0.11549	-0.15398
FE	57	1.82500	65.260	0.91250	1.82500	2.73750
K	39	-10.02000	-43.683	-9.52000	-10.33820	-10.20180
MG	24	1.51900	51.073	0.95936	1.31914	2.27850
MN	55	0.09996	14.236	0.11534	0.09227	0.09227
NA	23	-2.09200	-79.541	-2.04961	-2.13375	-2.09265
TI	47	0.00000	0.000	0.00000	0.00000	0.00000
V	51	-0.02609	-122.192	-0.03914	-0.03131	-0.00783
IN-1	115	351089.00000	1.255	356074.00000	347722.00000	349471.00000
IN-2	115	56420.80000	2.122	55182.50000	56507.30000	57572.70000
AG	107	0.00206	258.212	0.00206	0.00000	0.00412
AS	75	0.09762	31.930	0.06758	0.11264	0.11264
BA	137	0.05006	148.342	0.00000	0.03755	0.11264
CD	111	-0.02036	-50.393	-0.02443	-0.01629	-0.02036
CO	59	0.01800	37.100	0.01800	0.02250	0.01350
CU	63	0.08021	58.496	0.07384	0.07992	0.08687
MO	98	0.00627	201.149	0.00513	0.00855	0.00513
NI	60	0.02536	53.628	0.01522	0.03043	0.03043
SB	121	-0.00977	-116.251	-0.01173	-0.00586	-0.01173
SE	78	0.02291	130.904	0.02864	0.03437	0.00573
SN	120	0.00085	1983.100	0.00096	0.00064	0.00096
SR	88	0.18740	77.268	0.06023	0.32126	0.18071
ZN	66	0.35190	91.816	0.58650	0.35190	0.11730
BI-2	209	192512.00000	1.831	192718.00000	188890.00000	195929.00000
PB	208	0.02219	13.916	0.02190	0.02365	0.02102
TL	203	0.00519	201.504	0.01245	0.00311	0.00000
SC-1	45	364077.00000	1.751	365976.00000	356967.00000	369288.00000
GE-1	72	43156.90000	1.203	43394.60000	42561.50000	43514.50000
GE-2	72	11652.40000	3.474	11195.40000	11795.70000	11966.00000
GE-3	72	184520.00000	1.529	187644.00000	183759.00000	182157.00000
TB-2	159	243710.00000	0.299	244151.00000	244112.00000	242869.00000

USF03 2327

Run Name: 1119408E03 Date/Time: 07/13/2011 13:15:00
Tube Number: 18
Sample Number: **LLC**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	44362.90000	1.092	43804.50000	44617.30000	44667.00000
SC-3	45	2103180	0.749	2091330	2121040	2097160
AL	27	101.50000	5.728	106.85000	98.40250	99.24710
B	11	50.17000	2.153	50.92540	49.83570	49.74880
BE	9	0.52350	4.602	0.52814	0.50155	0.54081
CA	44	137.90000	64.938	186.69700	131.53400	95.46850
CR	52	1.85800	12.024	1.74996	1.72836	2.09567
FE	57	95.09000	5.190	95.08910	90.21340	99.96740
K	39	190.20000	3.503	188.70900	195.06000	186.83000
MG	24	102.90000	2.858	99.34490	102.43100	106.92400
MN	55	1.10900	20.352	1.34605	0.93968	1.04127
NA	23	205.70000	1.235	204.86500	207.05500	205.18000
TI	47	3.63900	18.780	4.02206	4.02206	2.87287
V	51	0.42140	20.088	0.49238	0.41253	0.35930
IN-1	115	353389.00000	0.814	356182.00000	353551.00000	350435.00000
IN-2	115	55373.50000	2.566	55781.10000	56545.80000	53793.70000
AG	107	0.56390	2.321	0.55474	0.57672	0.56024
AS	75	2.05100	5.748	2.16655	1.96434	2.02211
BA	137	2.04400	3.298	2.01048	2.06077	2.06075
CD	111	0.49140	27.269	0.38569	0.48854	0.59997
CO	59	0.51310	9.793	0.52832	0.46962	0.54137
CU	63	2.05700	2.222	2.10625	2.09979	1.96496
MO	98	0.40640	9.761	0.40296	0.38229	0.43395
NI	60	1.87900	13.486	1.84574	1.69609	2.09517
SB	121	0.99450	8.757	1.05188	0.91799	1.01363
SE	78	1.82300	1.843	1.87477	1.79712	1.79712
SN	120	1.94200	5.242	1.84277	2.04123	1.94200
SR	88	0.44340	16.317	0.52337	0.39252	0.41432
ZN	66	15.30000	12.908	16.93570	13.37420	15.59020
BI-2	209	187374.00000	0.996	185848.00000	186820.00000	189455.00000
PB	208	0.99030	2.455	0.95487	0.99864	1.01739
TL	203	0.48680	7.071	0.50394	0.50395	0.45252
SC-1	45	369458.00000	1.566	374627.00000	370539.00000	363207.00000
GE-1	72	44070.00000	1.106	43574.30000	44086.90000	44548.80000
GE-2	72	11979.40000	0.920	11866.00000	12086.10000	11986.20000
GE-3	72	181748.00000	1.416	181071.00000	184592.00000	179581.00000
TB-2	159	238950.00000	0.601	239128.00000	240290.00000	237432.00000

USP83 2328

Run Name: 1119408E03 Date/Time: 07/13/2011 13:18:00
Tube Number: 19
Sample Number: **ICSA**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	45861.90000	1.604	45219.80000	45701.30000	46664.50000
SC-3	45	2165140	2.014	2213580	2129000	2152840
AL	27	10060.00000	1.980	10135.80000	9982.00000	10062.20000
B	11	3.47200	7.477	3.56083	3.48558	3.36958
BE	9	0.00543	116.845	0.00416	0.00727	0.00485
CA	44	9633.00000	1.797	9329.82000	9593.48000	9975.70000
CR	52	0.06123	33.872	0.06123	0.05669	0.06577
FE	57	10260.00000	0.998	10014.90000	10325.70000	10439.40000
K	39	11740.00000	0.806	11628.30000	11755.50000	11836.20000
MG	24	10100.00000	1.527	10118.10000	10053.80000	10128.10000
MN	55	0.60050	17.319	0.53558	0.53558	0.73034
NA	23	10170.00000	1.103	10101.70000	10189.40000	10218.90000
TI	47	212.70000	0.304	209.36800	212.70100	216.03200
V	51	-0.05701	-30.609	0.00000	-0.08552	-0.08552
IN-1	115	343999.00000	1.610	342933.00000	339069.00000	349994.00000
IN-2	115	55627.80000	0.465	55504.80000	55925.20000	55453.40000
AG	107	0.01865	28.949	0.01865	0.02331	0.01399
AS	75	0.12880	33.921	0.12075	0.16905	0.09660
BA	137	0.00169	1722.550	0.00000	0.00000	0.00508
CD	111	0.03826	65.551	0.03130	0.04869	0.03478
CO	59	0.00515	128.028	0.00773	0.00515	0.00258
CU	63	-0.07913	-133.072	-0.09408	-0.06892	-0.07439
MO	98	202.80000	2.499	201.41100	199.35300	207.63600
NI	60	0.05128	122.972	0.05769	0.00000	0.09615
SB	121	0.00385	592.775	0.00495	0.00495	0.00165
SE	78	0.03156	20.913	0.02705	0.03381	0.03381
SN	120	0.01674	333.274	0.02115	0.00529	0.02379
SR	88	0.41810	32.672	0.30276	0.56227	0.38926
ZN	66	0.14260	140.323	0.25668	0.12834	0.04278
BI-2	209	185233.00000	1.460	184008.00000	183357.00000	188335.00000
PB	208	0.00396	252.666	0.00517	0.00487	0.00183
TL	203	0.00204	257.856	0.00409	0.00204	0.00000
SC-1	45	364551.00000	1.567	361844.00000	360694.00000	371116.00000
GE-1	72	43437.40000	1.301	43002.50000	43233.30000	44076.30000
GE-2	72	11692.50000	3.584	11445.50000	11455.70000	12176.20000
GE-3	72	185423.00000	1.164	187562.00000	185461.00000	183247.00000
TB-2	159	239759.00000	1.253	237102.00000	239156.00000	243018.00000

USF03 2329

Run Name: 1119408E03 Date/Time: 07/13/2011 13:21:00
Tube Number: 20
Sample Number: **ICSAB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	44530.00000	1.252	45068.40000	44566.80000	43954.80000
SC-3	45	2054920	1.093	2080690	2039600	2044480
AL	27	10220.00000	1.818	10130.20000	10364.10000	10165.80000
B	11	2.00400	5.509	2.05165	1.96728	1.99307
BE	9	0.00555	147.846	0.00444	0.00407	0.00814
CA	44	9702.00000	0.847	9746.59000	9695.47000	9663.95000
CR	52	20.84000	4.235	20.52440	20.42730	21.56830
FE	57	10480.00000	1.652	10606.50000	10316.80000	10516.70000
K	39	11910.00000	1.636	11841.90000	11964.70000	11923.40000
MG	24	10450.00000	1.507	10428.00000	10442.20000	10479.80000
MN	55	21.25000	0.885	21.72510	21.16520	20.85980
NA	23	10530.00000	1.647	10519.00000	10485.30000	10585.70000
TI	47	201.30000	8.087	184.89100	209.50200	209.50700
V	51	-0.03015	-1.955	-0.03015	-0.03015	-0.03015
IN-1	115	343007.00000	0.762	340967.00000	342099.00000	345955.00000
IN-2	115	55081.10000	0.995	55703.20000	54870.60000	54669.60000
AG	107	20.49000	1.026	20.49570	20.44540	20.52890
AS	75	20.06000	3.967	19.79560	19.56070	20.82370
BA	137	0.00194	1529.720	0.00000	0.00000	0.00581
CD	111	20.66000	2.182	20.77370	21.07600	20.13030
CO	59	20.08000	0.645	20.45290	19.96020	19.82690
CU	63	20.65000	4.930	19.91790	20.52990	21.50220
MO	98	206.70000	0.800	208.09300	204.94900	207.05800
NI	60	20.54000	1.581	20.55680	20.30450	20.75870
SB	121	0.00405	1123.640	0.00868	0.00174	0.00174
SE	78	0.04740	107.110	0.07110	0.06320	0.00790
SN	120	-0.03657	-94.039	0.00000	-0.05486	-0.05486
SR	88	0.43810	5.172	0.43810	0.46001	0.41619
ZN	66	21.06000	11.766	19.12110	23.66290	20.39600
BI-2	209	184871.00000	0.350	184129.00000	185327.00000	185155.00000
PB	208	0.00443	115.572	0.00366	0.00565	0.00399
TL	203	0.00026	2333.980	0.00000	0.00000	0.00078
SC-1	45	365878.00000	1.927	360270.00000	363571.00000	373793.00000
GE-1	72	44076.40000	3.433	42511.30000	44186.80000	45531.10000
GE-2	72	11729.10000	2.050	11465.50000	11936.10000	11785.90000
GE-3	72	173974.00000	0.050	174067.00000	173898.00000	173957.00000
TB-2	159	238880.00000	0.962	236838.00000	241370.00000	238431.00000

USF03 2338

Run Name: 1119408E03
Tube Number: 21
Sample Number: CCV

Date/Time: 07/13/2011 13:24:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	44272.90000	0.794	44286.20000	44617.60000	43914.80000
SC-3	45	2081290	2.990	2151800	2034050	2058030
AL	27	2470.00000	0.639	2488.94000	2479.11000	2441.95000
B	11	240.30000	2.772	240.98700	239.63600	240.27800
BE	9	25.99000	1.708	26.35130	25.62210	25.99650
CA	44	2432.00000	5.070	2351.93000	2397.67000	2546.40000
CR	52	255.30000	1.591	257.62300	252.58400	255.69300
FE	57	2572.00000	2.419	2633.82000	2593.76000	2488.42000
K	39	2463.00000	1.633	2464.30000	2443.35000	2481.35000
MG	24	2497.00000	0.578	2487.55000	2533.05000	2470.40000
MN	55	255.30000	1.624	258.90000	252.69000	254.31000
NA	23	2521.00000	0.755	2508.16000	2533.30000	2521.53000
TI	47	250.90000	1.457	247.44700	256.65600	248.59700
V	51	251.30000	1.163	253.16900	249.87200	250.85900
IN-1	115	344381.00000	0.413	342891.00000	345726.00000	344527.00000
IN-2	115	53913.80000	0.474	53647.20000	54157.00000	53937.30000
AG	107	26.00000	1.459	25.79700	25.77990	26.42300
AS	75	245.90000	2.962	250.84400	238.96000	247.89600
BA	137	252.30000	0.169	251.51700	253.34300	252.03900
CD	111	25.96000	1.184	25.96000	26.29900	25.62100
CO	59	251.70000	1.271	252.02400	254.94800	248.12700
CU	63	255.60000	0.603	256.09500	255.68700	255.01800
MO	98	26.12000	4.935	26.79340	26.92040	24.64620
NI	60	269.60000	1.493	272.06100	271.22600	265.51300
SB	121	25.71000	2.730	25.39650	26.60280	25.13070
SE	78	25.49000	2.173	25.39020	26.13870	24.94110
SN	120	25.95000	1.818	25.29550	26.44340	26.11110
SR	88	23.64000	3.161	23.23380	23.18700	24.49920
ZN	66	256.40000	0.261	255.88100	257.02900	256.29000
BI-2	209	182816.00000	0.429	182995.00000	181957.00000	183495.00000
PB	208	25.02000	0.486	25.15740	24.77440	25.12820
TL	203	25.21000	0.755	25.44780	25.03260	25.14960
SC-1	45	363131.00000	0.355	362098.00000	362718.00000	364577.00000
GE-1	72	42551.30000	0.780	42892.50000	42531.20000	42230.10000
GE-2	72	11692.40000	4.417	11505.50000	11295.40000	12276.20000
GE-3	72	176753.00000	2.523	181894.00000	174441.00000	173925.00000
TB-2	159	231941.00000	1.748	235874.00000	227774.00000	232174.00000

USP83 2331

Run Name: 1119408E03 Date/Time: 07/13/2011 13:27:00
Tube Number: 22
Sample Number: CCB

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	44242.70000	1.987	43232.70000	44657.70000	44837.70000
SC-3	45	2092070	1.456	2114280	2104600	2057340
AL	27	1.02900	61.011	0.56126	1.40315	1.12259
B	11	8.60100	0.728	8.65916	8.68474	8.45909
BE	9	0.01208	56.904	0.01426	0.01366	0.00832
CA	44	-18.28000	-87.691	-16.17070	-16.87360	-21.79560
CR	52	-0.16600	-22.024	-0.10826	-0.23817	-0.15156
FE	57	1.08600	88.877	1.62902	0.40725	1.22174
K	39	-5.76800	-71.515	-5.76799	-5.54857	-5.98744
MG	24	0.16050	180.436	0.12037	0.30094	0.06019
MN	55	0.02689	149.200	0.06050	0.02017	0.00000
NA	23	-5.44900	-20.554	-5.38488	-5.53875	-5.42337
TI	47	0.00000	0.000	0.00000	0.00000	0.00000
V	51	-0.02480	-94.516	-0.01488	-0.03720	-0.02232
IN-1	115	337647.00000	1.005	336397.00000	341487.00000	335057.00000
IN-2	115	55500.30000	1.512	54538.80000	55874.90000	56087.10000
AG	107	0.01496	116.711	0.00898	0.00449	0.03142
AS	75	0.08125	77.317	0.13296	0.06648	0.04432
BA	137	0.05160	112.035	0.00000	0.07740	0.07740
CD	111	-0.00038	-11648.900	-0.00032	-0.00016	-0.00064
CO	59	0.02305	118.351	0.04445	0.01976	0.00494
CU	63	0.02492	103.531	0.02364	0.02600	0.02512
MO	98	0.11890	39.908	0.15660	0.08700	0.11310
NI	60	0.02651	112.410	0.04772	0.01591	0.01591
SB	121	0.00396	282.356	0.00339	0.00509	0.00339
SE	78	0.01292	88.622	0.00861	0.01723	0.01292
SN	120	0.04607	101.020	0.03870	0.06634	0.03317
SR	88	-0.01281	-104.372	-0.03843	0.00000	0.00000
ZN	66	0.06472	258.653	0.11095	0.00000	0.08321
BI-2	209	187501.00000	0.980	185738.00000	189404.00000	187361.00000
PB	208	-0.00699	-68.669	-0.00773	-0.00994	-0.00331
TL	203	0.01065	185.728	0.02796	0.00399	0.00000
SC-1	45	357814.00000	1.323	359594.00000	361401.00000	352449.00000
GE-1	72	43123.30000	2.739	44387.50000	42932.90000	42049.50000
GE-2	72	11846.00000	2.353	12146.30000	11796.00000	11595.60000
GE-3	72	178824.00000	1.564	181822.00000	178364.00000	176286.00000
TB-2	159	238994.00000	1.428	242091.00000	239557.00000	235333.00000

USPW 2332

Lancaster Laboratories

Instrument Tuning Report (ICPMS #11332)

File Name: default.tun

File Path: C:\elandata\Tuning

Sample Date/Time: 7/13/2011 5:58:00AM

Number of Replicates: 6

Method File: c:\elandata\Method\dailytune.mth

Measured Mass must be within +/- 0.1 amu of the Exact Mass.

Measured Peak Width must be > or = to 0.640 AND < or = to 0.660.

Analyte	EXACT MASS	MEAS. MASS	Mass DAC	RES. DAC	MEAS. PK. WIDTH
Ce	140.000	139.950	0	0	0.600
In	115.000	114.950	0	0	0.600
Li	6.000	6.100	0	0	0.650
Mg	24.000	24.000	0	0	0.650
Pb	208.000	208.000	0	0	0.650
Rh	103.000	102.950	0	0	0.600
U	238.000	238.050	0	0	0.700

Summary: Verify that the RSD is less than 5 for the following masses.

Mass	Meas. Intens. Mean	Meas. Intens. RSD
140.000	106641.000	1.210
115.000	103268.000	1.710
6.000	37177.000	1.850
24.000	42818.000	2.510
208.000	51741.000	1.360
103.000	95270.000	1.780
238.000	105934.000	1.630

USPB3 2333

Mercury Data

1119302M06

Lancaster Laboratories

Mercury Run Data Report

Data File Name: 1119302.M06

Run Name: 1119302M06

Instrument No.: 62347

Element: Hg

Analyst Employee ID: 0823

Reviewed By
Nelli S Markaryan

Reviewed Date
07/12/2011 7:55PM

Method Reference Name(s):
SW-846 7470A

Verified By:
Max E Snavely

Verified Date
07/13/2011 8:35PM

USF03 2335

LANCASTER LABORATORIES

Run Name: 1119302M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

1 Burn Date/Time: 07/12/2011 18:20

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0		1	1	1.00

AVG (ppb)	Intensity
0.0000	11350.0

2 Burn Date/Time: 07/12/2011 18:22

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0.2		1	1	1.00

AVG (ppb)	Intensity
0.2000	38698.0

3 Burn Date/Time: 07/12/2011 18:24

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0.5		1	1	1.00

AVG (ppb)	Intensity
0.5000	82065.0

4 Burn Date/Time: 07/12/2011 18:25

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S1.0		1	1	1.00

AVG (ppb)	Intensity
1.0000	151944.0

5 Burn Date/Time: 07/12/2011 18:26

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S2.5		1	1	1.00

AVG (ppb)	Intensity
2.5000	354498.0

6 Burn Date/Time: 07/12/2011 18:28

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S5.0		1	1	1.00

AVG (ppb)	Intensity
5.0000	688368.0

CorrelationCoefficient = 0.99996

USFW3 2336

LANCASTER LABORATORIES

Run Name: 1119302M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

7 Burn Date/Time: 07/12/2011 18:29

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
ICV		1	1	1.00

AVG (ppb)	Intensity	
2.4900	350842.0	% Recovery = 99.6%

8 Burn Date/Time: 07/12/2011 18:31

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
ICB		1	1	1.00

AVG (ppb)	Intensity
-0.0460	7440.0

9 Burn Date/Time: 07/12/2011 18:32

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CRA		1	1	1.00

AVG (ppb)	Intensity
0.1780	37771.0

10 Burn Date/Time: 07/12/2011 18:33

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 1		1	1	1.00

AVG (ppb)	Intensity	
0.9970	148552.0	% Recovery = 99.7%

11 Burn Date/Time: 07/12/2011 18:35

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 1		1	1	1.00

AVG (ppb)	Intensity
-0.0460	7386.0

12 Burn Date/Time: 07/12/2011 18:36

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBW	**********	50	50	1.00	111935713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0290	9693.0		

USF03 2337

LANCASTER LABORATORIES

Run Name: 1119302M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

13 Burn Date/Time: 07/12/2011 18:37

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1	1	1.00	111935713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9560	143084.0		

14 Burn Date/Time: 07/12/2011 18:39

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSWD	**********	1	1	1.00	111935713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9530	142648.0		

15 Burn Date/Time: 07/12/2011 18:40

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6337222	**********	50	50	1.00	111935713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0770	3247.0		

16 Burn Date/Time: 07/12/2011 18:41

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6338269	**********	50	50	1.00	111935713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0320	9302.0		

17 Burn Date/Time: 07/12/2011 18:42

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339388	**********	50	50	1.00	111935713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0190	11102.0		

18 Burn Date/Time: 07/12/2011 18:43

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBW	**********	50	50	1.00	111935713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0280	9807.0		

USP63 2339

LANCASTER LABORATORIES

Run Name: 1119302M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

19 Burn Date/Time: 07/12/2011 18:44

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1	1	1.00	111935713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0300	153153.0		

20 Burn Date/Time: 07/12/2011 18:46

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6303338	**********	50	50	1.00	111935713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0640	5027.0		

21 Burn Date/Time: 07/12/2011 18:47

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6338690	**********	50	50	1.00	111935713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0350	8948.0		

22 Burn Date/Time: 07/12/2011 18:48

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 2		1	1	1.00

AVG (ppb)	Intensity	
0.9930	148012.0	% Recovery = 99.3%

23 Burn Date/Time: 07/12/2011 18:49

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 2		1	1	1.00

AVG (ppb)	Intensity
-0.0550	6184.0

24 Burn Date/Time: 07/12/2011 18:50

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6338691	**********	50	50	1.00	111935713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.1030	-258.0		

USP03 2339

Extraction/Distillation/Digestion Logs

LLENS Worksheet for 1848 SW846 Water

Batch# 11 193 1848 002

Balance ID#: CLEAR **Start Time:** 7/12/11 13:16 **End Time:** 7/12/11 16:57 **Hot Block:** 15

Pipette ID: 10072846

Spike/Reagent	Lot#	Volume Added(mL)
1:1 HCL	P11166C	5.00
1:1 HNO3	P11131C	2.00
ICP Spike 1A	1106116#15	1.00
ICP Spike 1B	1106117#15	1.00

Method Ref: SW-846 3005A

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBW	.							1012120	
2)	LCSW	.							1012120	
3)	LCSWD	.							1012120	
4)	6337222EB	07/20/11 00:00		WW	S9				1012120	
5)	6338269EB	07/21/11 08:18		WW	S9				1012120	
6)	6339388EB	07/22/11 09:05		WW	S9			008a	1012120	

USF83 2341

Prep Employee: JLM01184

7/13/2011

Batch# 11 193 1848 002

LLENS Batch Chronology and Change Log - SW846 Water

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/12/11 10:07	JLM01
2)	Sample Vol		7/12/11 13:58	01184
3)	Final Vol	CLEAR	7/12/11 13:58	01184
4)	Trial		7/12/11 13:58	01184
5)	Upload Prep	USLANENV1-76	7/12/11 16:57	01184
6)	Upload Prep	USLANENV1-70	7/12/11 18:59	01496
7)	Upload Prep	USLANENV1-76	7/12/11 19:02	01184
8)	Upload Prep	USLANENV1-34	7/13/11 12:22	01184

Sample ID	Analysis	D	Operation	Measurement	Original Entry				Data Changed		
					Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason

Analysis: 1848 SW846 Water

Batch# 11 193 1848 002

Sample ID	Due Date	P	EPA#	SDG#	Initial Volume	Final Volume	Trial
PBW					50.0000	50.0000	1
LCSW					1.0000	1.0000	1
LCSWD					1.0000	1.0000	1
6337222EB	07/20/11	S9	WREBW	USF01-13EB*	50.0000	50.0000	1
6338269EB	07/21/11	S9	EBQ02	USF02-14EB*	50.0000	50.0000	1
6339388EB	07/22/11	S9	EBQ03	USF03-14EB	50.0000	50.0000	1

EPA 6850

LLENS Worksheet for 6050 ICP/MS SW846 Water

Batch# 11 193 6050 003

Balance ID#: CLEAR **Start Time:** 7/12/11 13:15 **End Time:** 7/12/11 17:37 **Hot Block:** 15

Pipette ID: 10072846

Spike/Reagent	Lot#	Volume Added(mL)
HNO3	1110040	3.00
ICP/MS Spike	1115111#1	0.50

Method Ref: SW-846 3010A modified

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBW	.							1012120	
2)	LCSW	.							1012120	
3)	LCSWD	.							1012120	
4)	6337222EB	07/20/11 00:00		WW	S9				1012120	
5)	6338269EB	07/21/11 08:18		WW	S9				1012120	
6)	6339388EB	07/22/11 09:05		WW	S9				1012120	

USPB3 2344

Prep Employee: JLM01184

7/12/2011

Batch# 11 193 6050 003

LLENS Batch Chronology and Change Log - ICP/MS SW846 Water

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/12/11 10:08	JLM01
2)	Sample Vol		7/12/11 13:56	01184
3)	Final Vol	CLEAR	7/12/11 13:56	01184
4)	Trial		7/12/11 13:56	01184
5)	Upload Prep	USLANENV1-76	7/12/11 17:41	01184

Sample ID	Analysis	D	Operation	Measurement	Original Entry				Data Changed		
					Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason

Analysis: 6050 ICP/MS SW846 Water

Batch# 11 193 6050 003

Sample ID	Due Date	P	EPA#	SDG#	Initial Volume	Final Volume	Trial
PBW					50.0000	50.0000	1
LCSW					1.0000	1.0000	1
LCSWD					1.0000	1.0000	1
6337222EB	07/20/11	S9	WREBW	USF01-13EB*	50.0000	50.0000	1
6338269EB	07/21/11	S9	EBQ02	USF02-14EB*	50.0000	50.0000	1
6339388EB	07/22/11	S9	EBQ03	USF03-14EB	50.0000	50.0000	1

9462 2946

LLENS Worksheet for 5713 Hg SW846 Digest Water

Batch# 11 193 5713 004

Balance ID#: CLEAR **Start Time:** 7/12/11 14:40 **End Time:** 7/12/11 17:00 **Hot Block:** #7

Pipette ID: 10135887

Spike/Reagent	Lot#	Volume Added(mL)
5%K2S2O8	H11-180 X	4.00
5%KMnO4	H11-179 Z	7.50
H2SO4	110957	2.50
HNO3	1110040	1.25
Spike 1ppm Hg	H11-193 C	0.05

Method Ref: SW-846 7470A

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBW	.							1012120	
2)	LCSW	.							1012120	
3)	LCSWD	.							1012120	
4)	6337222EB	07/20/11 00:00		WW	S9				1012120	
5)	6338269EB	07/21/11 08:18		WW	S9				1012120	
6)	6339388EB	07/22/11 09:05		WW	S9			008a	1012120	

USF03 2347

Prep Employee: NSM00823

7/12/2011

Batch# 11 193 5713 004

LLENS Batch Chronology and Change Log - Hg SW846 Digest Water

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/12/11 10:52	NSM00
2)	Sample Vol		7/12/11 18:25	00823
3)	Final Vol	CLEAR	7/12/11 18:25	00823
4)	Trial		7/12/11 18:25	00823
5)	Upload Prep	USLANENV1-2	7/12/11 18:26	00823

Sample ID	Analysis	D	Operation	Measurement	Original Entry				Data Changed		
					Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason

Analysis: 5713 Hg SW846 Digest Water

Batch# 11 193 5713 004

Sample ID	Due Date	P	EPA#	SDG#	Initial Volume	Dilution	Final Volume	Trial
PBW					50.0000	1.0000	50.0000	1
LCSW					1.0000	1.0000	1.0000	1
LCSWD					1.0000	1.0000	1.0000	1
6337222EB	07/20/11	S9	WREBW	USF01-13EB*	50.0000	1.0000	50.0000	1
6338269EB	07/21/11	S9	EBQ02	USF02-14EB*	50.0000	1.0000	50.0000	1
6339388EB	07/22/11	S9	EBQ03	USF03-14EB	50.0000	1.0000	50.0000	1

Metals in Solid Data

USP03 2350

Case Narrative
Conformance/Nonconformance Summary

Lancaster Laboratories

Where quality is a science.

CASE NARRATIVE FOR INORGANICS

Laboratory Name: Lancaster Laboratories

SDG Number: USF03S

Date Received: 07/09/2011

Dilutions:

Refer to the analysis run logs for samples requiring dilutions.

Quality Assurance/Quality Control:

Method defined actions are taken for any failed matrix QC. The post digest spike performed on sample 6337213 recovered as follows:

Analyte	% Recovery
Antimony	85%
Chromium	-28%
Phosphorus	92%

Explanatory Notes:

The instrument detection limits (IDLs) are used for determining the U flags on the initial and continuing calibration blanks. The highest IDL is selected when multiple instruments are used for an analysis. The method detection limits (MDLs) are used for determining all other U flags.

The final concentration (mg/Kg) is obtained using the following calculation:

$$\text{Instrument reading (mg/l)} \times \text{dilution factor} \times \frac{\text{final volume}}{\text{initial weight}} \div \frac{\%\ \text{solids}}{100}$$

Data Package Assembly:

This sample delivery group was separated by matrix into two data packages, USF03S and USF03W, due to limitations of the data package generating software.

Case Narrative reviewed and approved by:

Betty L. Umble
Specialist

For Date 11-15-11

Dana M. Kauffman, Manager
Data Deliverables

Lancaster Laboratories, Inc • 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681

Sample Data

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339368 % Solids: 95.6
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24000			P
7440-36-0	Antimony	0.10	B		MS
7440-38-2	Arsenic	7.1			MS
7440-39-3	Barium	89.2			MS
7440-41-7	Beryllium	0.58			MS
7440-42-8	Boron	11.0			P
7440-43-9	Cadmium	0.22			MS
7440-70-2	Calcium	4440			P
7440-47-3	Chromium	32.1			MS
7440-48-4	Cobalt	9.1			MS
7440-50-8	Copper	10.4			MS
7439-89-6	Iron	34400			P
7439-92-1	Lead	11.4			MS
7439-93-2	Lithium	46.0			P
7439-95-4	Magnesium	11100			P
7439-96-5	Manganese	308			P
7439-97-6	Mercury	0.0089	B		CV
7439-98-7	Molybdenum	0.44			MS
7440-02-0	Nickel	16.3			MS
7723-14-0	Phosphorus	792			P
7440-09-7	Potassium	5340			P
7782-49-2	Selenium	0.26	B		MS
7440-22-4	Silver	0.027	B		MS
7440-23-5	Sodium	166			P
7440-24-6	Strontium	38.6			P
7440-28-0	Thallium	0.33			MS
7440-31-5	Tin	2.6	B		P
7440-32-6	Titanium	1460			P
7440-62-2	Vanadium	63.9			MS
7440-66-6	Zinc	82.2			MS
7440-67-7	Zirconium	6.8			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339369 % Solids: 97.0
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19000			P
7440-36-0	Antimony	0.13	B		MS
7440-38-2	Arsenic	5.6			MS
7440-39-3	Barium	77.4			MS
7440-41-7	Beryllium	0.48			MS
7440-42-8	Boron	9.7			P
7440-43-9	Cadmium	0.22			MS
7440-70-2	Calcium	4810			P
7440-47-3	Chromium	32.6			MS
7440-48-4	Cobalt	7.7			MS
7440-50-8	Copper	8.8			MS
7439-89-6	Iron	30900			P
7439-92-1	Lead	14.3			MS
7439-93-2	Lithium	36.7			P
7439-95-4	Magnesium	10400			P
7439-96-5	Manganese	335			P
7439-97-6	Mercury	0.016	B		CV
7439-98-7	Molybdenum	0.32			MS
7440-02-0	Nickel	13.2			MS
7723-14-0	Phosphorus	888			P
7440-09-7	Potassium	4690			P
7782-49-2	Selenium	0.18	B		MS
7440-22-4	Silver	0.031	B		MS
7440-23-5	Sodium	130			P
7440-24-6	Strontium	33.1			P
7440-28-0	Thallium	0.25			MS
7440-31-5	Tin	2.4	B		P
7440-32-6	Titanium	1230			P
7440-62-2	Vanadium	59.5			MS
7440-66-6	Zinc	79.5			MS
7440-67-7	Zirconium	8.4			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339370 % Solids: 93.5
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30300			P
7440-36-0	Antimony	0.14	B		MS
7440-38-2	Arsenic	7.3			MS
7440-39-3	Barium	116			MS
7440-41-7	Beryllium	0.73			MS
7440-42-8	Boron	12.2			P
7440-43-9	Cadmium	0.22			MS
7440-70-2	Calcium	4690			P
7440-47-3	Chromium	32.5			MS
7440-48-4	Cobalt	10.4			MS
7440-50-8	Copper	17.4			MS
7439-89-6	Iron	39200			P
7439-92-1	Lead	10.6			MS
7439-93-2	Lithium	51.3			P
7439-95-4	Magnesium	10000			P
7439-96-5	Manganese	389			P
7439-97-6	Mercury	0.011	B		CV
7439-98-7	Molybdenum	0.50			MS
7440-02-0	Nickel	20.2			MS
7723-14-0	Phosphorus	555			P
7440-09-7	Potassium	6740			P
7782-49-2	Selenium	0.29	B		MS
7440-22-4	Silver	0.027	B		MS
7440-23-5	Sodium	136			P
7440-24-6	Strontium	47.1			P
7440-28-0	Thallium	0.39			MS
7440-31-5	Tin	2.5	B		P
7440-32-6	Titanium	1650			P
7440-62-2	Vanadium	66.1			MS
7440-66-6	Zinc	111			MS
7440-67-7	Zirconium	6.1			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339371 % Solids: 92.4
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	32100			P
7440-36-0	Antimony	0.14	B		MS
7440-38-2	Arsenic	7.6			MS
7440-39-3	Barium	122			MS
7440-41-7	Beryllium	0.75			MS
7440-42-8	Boron	12.5			P
7440-43-9	Cadmium	0.24			MS
7440-70-2	Calcium	4930			P
7440-47-3	Chromium	33.3			MS
7440-48-4	Cobalt	10.7			MS
7440-50-8	Copper	16.6			MS
7439-89-6	Iron	38200			P
7439-92-1	Lead	13.2			MS
7439-93-2	Lithium	45.2			P
7439-95-4	Magnesium	9960			P
7439-96-5	Manganese	394			P
7439-97-6	Mercury	0.017	B		CV
7439-98-7	Molybdenum	0.56			MS
7440-02-0	Nickel	21.5			MS
7723-14-0	Phosphorus	576			P
7440-09-7	Potassium	7100			P
7782-49-2	Selenium	0.31	B		MS
7440-22-4	Silver	0.040	B		MS
7440-23-5	Sodium	155			P
7440-24-6	Strontium	52.4			P
7440-28-0	Thallium	0.42			MS
7440-31-5	Tin	2.6	B		P
7440-32-6	Titanium	1670			P
7440-62-2	Vanadium	67.4			MS
7440-66-6	Zinc	101			MS
7440-67-7	Zirconium	6.0			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

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QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339372 % Solids: 93.8
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29700			P
7440-36-0	Antimony	0.10	B		MS
7440-38-2	Arsenic	8.6			MS
7440-39-3	Barium	108			MS
7440-41-7	Beryllium	0.70			MS
7440-42-8	Boron	12.3			P
7440-43-9	Cadmium	0.23			MS
7440-70-2	Calcium	4950			P
7440-47-3	Chromium	35.7			MS
7440-48-4	Cobalt	10.2			MS
7440-50-8	Copper	13.7			MS
7439-89-6	Iron	38400			P
7439-92-1	Lead	8.8			MS
7439-93-2	Lithium	47.6			P
7439-95-4	Magnesium	10000			P
7439-96-5	Manganese	408			P
7439-97-6	Mercury	0.0075	U		CV
7439-98-7	Molybdenum	0.60			MS
7440-02-0	Nickel	19.5			MS
7723-14-0	Phosphorus	620			P
7440-09-7	Potassium	6210			P
7782-49-2	Selenium	0.45			MS
7440-22-4	Silver	0.026	B		MS
7440-23-5	Sodium	143			P
7440-24-6	Strontium	54.1			P
7440-28-0	Thallium	0.40			MS
7440-31-5	Tin	2.5	B		P
7440-32-6	Titanium	1560			P
7440-62-2	Vanadium	70.9			MS
7440-66-6	Zinc	90.1			MS
7440-67-7	Zirconium	6.0			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

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QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339373 % Solids: 96.9
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20700			P
7440-36-0	Antimony	0.084	B		MS
7440-38-2	Arsenic	6.2			MS
7440-39-3	Barium	94.7			MS
7440-41-7	Beryllium	0.52			MS
7440-42-8	Boron	7.5			P
7440-43-9	Cadmium	0.13			MS
7440-70-2	Calcium	5510			P
7440-47-3	Chromium	29.7			MS
7440-48-4	Cobalt	8.4			MS
7440-50-8	Copper	7.4			MS
7439-89-6	Iron	33800			P
7439-92-1	Lead	6.4			MS
7439-93-2	Lithium	40.5			P
7439-95-4	Magnesium	12100			P
7439-96-5	Manganese	275			P
7439-97-6	Mercury	0.0071	U		CV
7439-98-7	Molybdenum	0.29			MS
7440-02-0	Nickel	13.5			MS
7723-14-0	Phosphorus	1120			P
7440-09-7	Potassium	2820			P
7782-49-2	Selenium	0.26	B		MS
7440-22-4	Silver	0.028	B		MS
7440-23-5	Sodium	155			P
7440-24-6	Strontium	60.4			P
7440-28-0	Thallium	0.26			MS
7440-31-5	Tin	2.2	B		P
7440-32-6	Titanium	1310			P
7440-62-2	Vanadium	63.7			MS
7440-66-6	Zinc	71.1			MS
7440-67-7	Zirconium	11.7			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

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QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339374 % Solids: 94.2
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29100			P
7440-36-0	Antimony	0.16	B		MS
7440-38-2	Arsenic	9.3			MS
7440-39-3	Barium	127			MS
7440-41-7	Beryllium	0.76			MS
7440-42-8	Boron	10.3			P
7440-43-9	Cadmium	0.20			MS
7440-70-2	Calcium	4900			P
7440-47-3	Chromium	36.0			MS
7440-48-4	Cobalt	9.5			MS
7440-50-8	Copper	15.9			MS
7439-89-6	Iron	37500			P
7439-92-1	Lead	12.4			MS
7439-93-2	Lithium	44.9			P
7439-95-4	Magnesium	10200			P
7439-96-5	Manganese	364			P
7439-97-6	Mercury	0.020	B		CV
7439-98-7	Molybdenum	0.57			MS
7440-02-0	Nickel	19.3			MS
7723-14-0	Phosphorus	493			P
7440-09-7	Potassium	4450			P
7782-49-2	Selenium	0.30	B		MS
7440-22-4	Silver	0.039	B		MS
7440-23-5	Sodium	123			P
7440-24-6	Strontium	53.8			P
7440-28-0	Thallium	0.35			MS
7440-31-5	Tin	2.6	B		P
7440-32-6	Titanium	1380			P
7440-62-2	Vanadium	73.9			MS
7440-66-6	Zinc	95.4			MS
7440-67-7	Zirconium	7.5			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339375 % Solids: 95.9
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26400			P
7440-36-0	Antimony	0.12	B		MS
7440-38-2	Arsenic	7.0			MS
7440-39-3	Barium	98.1			MS
7440-41-7	Beryllium	0.64			MS
7440-42-8	Boron	10.6			P
7440-43-9	Cadmium	0.21			MS
7440-70-2	Calcium	4750			P
7440-47-3	Chromium	32.3			MS
7440-48-4	Cobalt	9.1			MS
7440-50-8	Copper	14.8			MS
7439-89-6	Iron	35900			P
7439-92-1	Lead	8.9			MS
7439-93-2	Lithium	38.2			P
7439-95-4	Magnesium	9370			P
7439-96-5	Manganese	347			P
7439-97-6	Mercury	0.011	B		CV
7439-98-7	Molybdenum	0.45			MS
7440-02-0	Nickel	17.5			MS
7723-14-0	Phosphorus	648			P
7440-09-7	Potassium	5110			P
7782-49-2	Selenium	0.25	B		MS
7440-22-4	Silver	0.024	B		MS
7440-23-5	Sodium	128			P
7440-24-6	Strontium	33.7			P
7440-28-0	Thallium	0.34			MS
7440-31-5	Tin	2.7	B		P
7440-32-6	Titanium	1450			P
7440-62-2	Vanadium	65.3			MS
7440-66-6	Zinc	95.0			MS
7440-67-7	Zirconium	6.7			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339376 % Solids: 91.0
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	31800			P
7440-36-0	Antimony	0.15	B		MS
7440-38-2	Arsenic	6.7			MS
7440-39-3	Barium	93.6			MS
7440-41-7	Beryllium	0.71			MS
7440-42-8	Boron	14.5			P
7440-43-9	Cadmium	0.12			MS
7440-70-2	Calcium	4600			P
7440-47-3	Chromium	34.0			MS
7440-48-4	Cobalt	12.2			MS
7440-50-8	Copper	17.8			MS
7439-89-6	Iron	42800			P
7439-92-1	Lead	9.7			MS
7439-93-2	Lithium	48.1			P
7439-95-4	Magnesium	11700			P
7439-96-5	Manganese	318			P
7439-97-6	Mercury	0.027	B		CV
7439-98-7	Molybdenum	0.47			MS
7440-02-0	Nickel	21.5			MS
7723-14-0	Phosphorus	545			P
7440-09-7	Potassium	5530			P
7782-49-2	Selenium	0.18	B		MS
7440-22-4	Silver	0.020	B		MS
7440-23-5	Sodium	187			P
7440-24-6	Strontium	34.3			P
7440-28-0	Thallium	0.41			MS
7440-31-5	Tin	2.7	B		P
7440-32-6	Titanium	1680			P
7440-62-2	Vanadium	61.8			MS
7440-66-6	Zinc	102			MS
7440-67-7	Zirconium	5.7			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339377BKG % Solids: 92.7
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	39700			P
7440-36-0	Antimony	0.17	B		MS
7440-38-2	Arsenic	7.9			MS
7440-39-3	Barium	141			MS
7440-41-7	Beryllium	0.99			MS
7440-42-8	Boron	14.0			P
7440-43-9	Cadmium	0.19			MS
7440-70-2	Calcium	5370			P
7440-47-3	Chromium	36.6			MS
7440-48-4	Cobalt	12.3			MS
7440-50-8	Copper	19.1			MS
7439-89-6	Iron	44100			P
7439-92-1	Lead	14.3			MS
7439-93-2	Lithium	64.7			P
7439-95-4	Magnesium	11400			P
7439-96-5	Manganese	415			P
7439-97-6	Mercury	0.018	B		CV
7439-98-7	Molybdenum	0.47			MS
7440-02-0	Nickel	26.9			MS
7723-14-0	Phosphorus	405			P
7440-09-7	Potassium	7660			P
7782-49-2	Selenium	0.34	B		MS
7440-22-4	Silver	0.036	B		MS
7440-23-5	Sodium	162			P
7440-24-6	Strontium	70.0			P
7440-28-0	Thallium	0.53			MS
7440-31-5	Tin	2.7	B		P
7440-32-6	Titanium	1900			P
7440-62-2	Vanadium	77.5			MS
7440-66-6	Zinc	102			MS
7440-67-7	Zirconium	5.5			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339378MS
Concentration Units: MG/KG

% Solids: 92.7
Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	49500			P
7440-36-0	Antimony	0.51			MS
7440-38-2	Arsenic	10.3			MS
7440-39-3	Barium	152			MS
7440-41-7	Beryllium	1.7			MS
7440-42-8	Boron	227			P
7440-43-9	Cadmium	1.3			MS
7440-70-2	Calcium	6030			P
7440-47-3	Chromium	44.2			MS
7440-48-4	Cobalt	60.4			MS
7440-50-8	Copper	28.7			MS
7439-89-6	Iron	46100			P
7439-92-1	Lead	17.1			MS
7439-93-2	Lithium	179			P
7439-95-4	Magnesium	12000			P
7439-96-5	Manganese	483			P
7439-97-6	Mercury	0.19			CV
7439-98-7	Molybdenum	9.0			MS
7440-02-0	Nickel	36.7			MS
7723-14-0	Phosphorus	557			P
7440-09-7	Potassium	9470			P
7782-49-2	Selenium	2.2			MS
7440-22-4	Silver	10.2			MS
7440-23-5	Sodium	1240			P
7440-24-6	Strontium	176			P
7440-28-0	Thallium	0.90			MS
7440-31-5	Tin	346			P
7440-32-6	Titanium	2530			P
7440-62-2	Vanadium	86.9			MS
7440-66-6	Zinc	111			MS
7440-67-7	Zirconium	101			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339379MSD % Solids: 92.7
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	51000			P
7440-36-0	Antimony	0.48			MS
7440-38-2	Arsenic	10.2			MS
7440-39-3	Barium	153			MS
7440-41-7	Beryllium	1.7			MS
7440-42-8	Boron	229			P
7440-43-9	Cadmium	1.3			MS
7440-70-2	Calcium	6170			P
7440-47-3	Chromium	45.0			MS
7440-48-4	Cobalt	59.7			MS
7440-50-8	Copper	32.0			MS
7439-89-6	Iron	47700			P
7439-92-1	Lead	18.5			MS
7439-93-2	Lithium	185			P
7439-95-4	Magnesium	12400			P
7439-96-5	Manganese	494			P
7439-97-6	Mercury	0.17			CV
7439-98-7	Molybdenum	9.2			MS
7440-02-0	Nickel	36.7			MS
7723-14-0	Phosphorus	527			P
7440-09-7	Potassium	9510			P
7782-49-2	Selenium	2.1			MS
7440-22-4	Silver	10.3			MS
7440-23-5	Sodium	1270			P
7440-24-6	Strontium	177			P
7440-28-0	Thallium	0.86			MS
7440-31-5	Tin	353			P
7440-32-6	Titanium	2630			P
7440-62-2	Vanadium	86.5			MS
7440-66-6	Zinc	124			MS
7440-67-7	Zirconium	104			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339380DUP % Solids: 92.7
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	40200			P
7440-36-0	Antimony	0.19	B		MS
7440-38-2	Arsenic	8.2			MS
7440-39-3	Barium	145			MS
7440-41-7	Beryllium	1.0			MS
7440-42-8	Boron	14.5			P
7440-43-9	Cadmium	0.20			MS
7440-70-2	Calcium	5430			P
7440-47-3	Chromium	35.7			MS
7440-48-4	Cobalt	13.0			MS
7440-50-8	Copper	24.4			MS
7439-89-6	Iron	43200			P
7439-92-1	Lead	14.4			MS
7439-93-2	Lithium	66.2			P
7439-95-4	Magnesium	11600			P
7439-96-5	Manganese	415			P
7439-97-6	Mercury	0.0099	B		CV
7439-98-7	Molybdenum	0.44			MS
7440-02-0	Nickel	28.0			MS
7723-14-0	Phosphorus	391			P
7440-09-7	Potassium	7640			P
7782-49-2	Selenium	0.33	B		MS
7440-22-4	Silver	0.052	B		MS
7440-23-5	Sodium	166			P
7440-24-6	Strontium	69.6			P
7440-28-0	Thallium	0.53			MS
7440-31-5	Tin	2.8	B		P
7440-32-6	Titanium	2040			P
7440-62-2	Vanadium	75.4			MS
7440-66-6	Zinc	128			MS
7440-67-7	Zirconium	5.4			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339384
Concentration Units: MG/KG

% Solids: 92.7
Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	0.23			P
7440-36-0	Antimony	0.0021	B		MS
7440-38-2	Arsenic	0.0039	B		MS
7440-39-3	Barium	0.0046			MS
7440-41-7	Beryllium	0.0010	B		MS
7440-42-8	Boron	0.049	B		P
7440-43-9	Cadmium	0.0011			MS
7440-70-2	Calcium	0.23			P
7440-47-3	Chromium	0.0040	B		MS
7440-48-4	Cobalt	0.00087	B		MS
7440-50-8	Copper	0.0062			MS
7439-89-6	Iron	0.27			P
7439-92-1	Lead	0.0022			MS
7439-93-2	Lithium	0.020	B		P
7439-95-4	Magnesium	0.11			P
7439-96-5	Manganese	0.0061			P
7439-97-6	Mercury	0.00060	B		CV
7439-98-7	Molybdenum	0.0011			MS
7440-02-0	Nickel	0.0045			MS
7723-14-0	Phosphorus	0.12			P
7440-09-7	Potassium	0.49	B		P
7782-49-2	Selenium	0.0039	B		MS
7440-22-4	Silver	0.0010	B		MS
7440-23-5	Sodium	1.0	B		P
7440-24-6	Strontium	0.0055			P
7440-28-0	Thallium	0.0011			MS
7440-31-5	Tin	0.039	B		P
7440-32-6	Titanium	0.011			P
7440-62-2	Vanadium	0.0011			MS
7440-66-6	Zinc	0.056			MS
7440-67-7	Zirconium	0.054			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339385 % Solids: 91.2
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	41500			P
7440-36-0	Antimony	0.14	B		MS
7440-38-2	Arsenic	7.7			MS
7440-39-3	Barium	135			MS
7440-41-7	Beryllium	0.91			MS
7440-42-8	Boron	17.1			P
7440-43-9	Cadmium	0.21			MS
7440-70-2	Calcium	5640			P
7440-47-3	Chromium	35.4			MS
7440-48-4	Cobalt	11.9			MS
7440-50-8	Copper	23.6			MS
7439-89-6	Iron	45800			P
7439-92-1	Lead	13.0			MS
7439-93-2	Lithium	72.0			P
7439-95-4	Magnesium	12100			P
7439-96-5	Manganese	400			P
7439-97-6	Mercury	0.0091	B		CV
7439-98-7	Molybdenum	0.33			MS
7440-02-0	Nickel	25.3			MS
7723-14-0	Phosphorus	369			P
7440-09-7	Potassium	6870			P
7782-49-2	Selenium	0.29	B		MS
7440-22-4	Silver	0.035	B		MS
7440-23-5	Sodium	294			P
7440-24-6	Strontium	79.1			P
7440-28-0	Thallium	0.49			MS
7440-31-5	Tin	2.8	B		P
7440-32-6	Titanium	2160			P
7440-62-2	Vanadium	74.7			MS
7440-66-6	Zinc	128			MS
7440-67-7	Zirconium	4.7	B		P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339386 % Solids: 96.2
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25300			P
7440-36-0	Antimony	0.12	B		MS
7440-38-2	Arsenic	7.7			MS
7440-39-3	Barium	101			MS
7440-41-7	Beryllium	0.60			MS
7440-42-8	Boron	10.4			P
7440-43-9	Cadmium	0.25			MS
7440-70-2	Calcium	4690			P
7440-47-3	Chromium	32.1			MS
7440-48-4	Cobalt	9.8			MS
7440-50-8	Copper	15.6			MS
7439-89-6	Iron	36000			P
7439-92-1	Lead	8.7			MS
7439-93-2	Lithium	46.6			P
7439-95-4	Magnesium	10300			P
7439-96-5	Manganese	351			P
7439-97-6	Mercury	0.0091	B		CV
7439-98-7	Molybdenum	0.46			MS
7440-02-0	Nickel	17.3			MS
7723-14-0	Phosphorus	807			P
7440-09-7	Potassium	5860			P
7782-49-2	Selenium	0.18	B		MS
7440-22-4	Silver	0.026	B		MS
7440-23-5	Sodium	136			P
7440-24-6	Strontium	30.7			P
7440-28-0	Thallium	0.36			MS
7440-31-5	Tin	2.7	B		P
7440-32-6	Titanium	1500			P
7440-62-2	Vanadium	65.4			MS
7440-66-6	Zinc	121			MS
7440-67-7	Zirconium	6.7			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6339387 % Solids: 94.1
Concentration Units: MG/KG Date Received: 07/09/2011

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26100			P
7440-36-0	Antimony	0.12	B		MS
7440-38-2	Arsenic	8.0			MS
7440-39-3	Barium	99.0			MS
7440-41-7	Beryllium	0.64			MS
7440-42-8	Boron	11.3			P
7440-43-9	Cadmium	0.16			MS
7440-70-2	Calcium	4860			P
7440-47-3	Chromium	32.8			MS
7440-48-4	Cobalt	10.0			MS
7440-50-8	Copper	20.3			MS
7439-89-6	Iron	37300			P
7439-92-1	Lead	8.2			MS
7439-93-2	Lithium	51.1			P
7439-95-4	Magnesium	11500			P
7439-96-5	Manganese	344			P
7439-97-6	Mercury	0.0074	U		CV
7439-98-7	Molybdenum	0.41			MS
7440-02-0	Nickel	18.0			MS
7723-14-0	Phosphorus	640			P
7440-09-7	Potassium	4600			P
7782-49-2	Selenium	0.17	B		MS
7440-22-4	Silver	0.035	B		MS
7440-23-5	Sodium	164			P
7440-24-6	Strontium	33.5			P
7440-28-0	Thallium	0.42			MS
7440-31-5	Tin	2.2	B		P
7440-32-6	Titanium	1540			P
7440-62-2	Vanadium	65.1			MS
7440-66-6	Zinc	140			MS
7440-67-7	Zirconium	5.8			P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Quality Control and Calibration Summary Forms

USF03 2371

Lancaster Laboratories

QUALITY CONTROL REFERENCE LIST

SDG No.: USF03
Matrix: SOIL

Analyte	Batch ID	Lab Sample ID
Aluminum	P19308E	6339368
Boron		6339369
Calcium		6339370
Iron		6339371
Lithium		6339372
Magnesium		6339373
Manganese		6339374
Phosphorus		6339375
Potassium		6339376
Sodium		6339377BKG
Strontium		6339378MS
Tin		6339379MSD
Titanium		6339380DUP
Zirconium		6339384
		6339385
		6339386
		6339387
		P19308EB
		P19308EQ
		P19308EQ
		P19308EY
		P19308EY

USF03 2372

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

Lancaster Laboratories

QUALITY CONTROL REFERENCE LIST

SDG No.: USF03
Matrix: SOIL

Analyte	Batch ID	Lab Sample ID
Antimony	P19326C	6339368
Arsenic		6339369
Barium		6339370
Beryllium		6339371
Cadmium		6339372
Chromium		6339373
Cobalt		6339374
Lead		6339375
Molybdenum		6339376
Nickel		6339377BKG
Selenium		6339378MS
Silver		6339379MSD
Thallium		6339380DUP
Vanadium		6339384
		6339385
		6339386
		6339387
		P19326CB
		P19326CQ
		P19326CY

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

Lancaster Laboratories

QUALITY CONTROL REFERENCE LIST

SDG No.: USF03
Matrix: SOIL

Analyte	Batch ID	Lab Sample ID
Copper	P20426B	6339368
Zinc		6339369
		6339370
		6339371
		6339372
		6339373
		6339374
		6339375
		6339376
		6339377BKG
		6339378MS
		6339379MSD
		6339380DUP
		6339384
		6339385
		6339386
		6339387
		P20426BB
		P20426BQ
		P20426BY

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

Lancaster Laboratories

QUALITY CONTROL REFERENCE LIST

SDG No.: USF03
Matrix: SOIL

Analyte	Batch ID	Lab Sample ID
Mercury	P19311D	6339368
		6339369
		6339370
		6339371
		6339372
		6339373
		6339374
		6339375
		6339376
		6339377BKG
		6339378MS
		6339379MSD
		6339380DUP
		6339384
		6339385
		6339386
		6339387
		P19311DB
		P19311DQ
		P19311DY

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: P
Run Name: 1120205T70
Calibration Date(s): 07/21/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration			Continuing Calibration					
		True	Found	%R(1)	True	Found	%R(2)	True	Found	%R(2)
Aluminum		30000.0	29546.17	98.5	25000.0	24326.13	97.3	25000.0	24683.17	98.7
Boron		600.0	582.61	97.1	500.0	469.31	93.9	500.0	484.07	96.8
Calcium		30000.0	30631.64	102.1	25000.0	25268.56	101.1	25000.0	24958.94	99.8
Iron		30000.0	30748.35	102.5	25000.0	25434.27	101.7	25000.0	25584.28	102.3
Lithium		600.0	595.48	99.2	500.0	498.06	99.6	500.0	507.03	101.4
Magnesium		30000.0	29834.68	99.4	25000.0	24899.33	99.6	25000.0	25394.48	101.6
Manganese		600.0	597.30	99.6	500.0	493.04	98.6	500.0	486.51	97.3
Phosphorus		600.0	602.75	100.5	500.0	498.50	99.7	500.0	503.19	100.6
Potassium		30000.0	30102.91	100.3	25000.0	24970.65	99.9	25000.0	24990.12	100.0
Sodium		30000.0	29513.19	98.4	25000.0	24597.36	98.4	25000.0	25444.98	101.8
Strontium		600.0	594.80	99.1	500.0	496.89	99.4	500.0	505.00	101.0
Tin		600.0	587.78	98.0	500.0	485.52	97.1	500.0	474.00	94.8
Titanium		600.0	602.40	100.4	500.0	496.73	99.3	500.0	492.15	98.4
Zirconium		600.0	600.51	100.1	500.0	501.38	100.3	500.0	495.03	99.0

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: P
Run Name: 1120205T70
Calibration Date(s): 07/21/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Aluminum					25000.0	24886.47	99.5	25000.0	25047.80	100.2
Boron					500.0	488.00	97.6	500.0	491.61	98.3
Calcium					25000.0	24574.87	98.3	25000.0	25112.13	100.4
Iron					25000.0	25741.81	103.0	25000.0	26095.27	104.4
Lithium					500.0	505.91	101.2	500.0	507.80	101.6
Magnesium					25000.0	25133.99	100.5	25000.0	25445.84	101.8
Manganese					500.0	487.80	97.6	500.0	497.18	99.4
Phosphorus					500.0	500.46	100.1	500.0	500.42	100.1
Potassium					25000.0	24323.15	97.3	25000.0	24929.61	99.7
Sodium					25000.0	25324.83	101.3	25000.0	25425.09	101.7
Strontium					500.0	508.86	101.8	500.0	514.94	103.0
Tin					500.0	472.57	94.5	500.0	473.55	94.7
Titanium					500.0	493.35	98.7	500.0	500.35	100.1
Zirconium					500.0	490.27	98.1	500.0	497.95	99.6

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: P
Run Name: 1120304T70
Calibration Date(s): 07/22/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Aluminum										
Boron										
Calcium										
Iron		30000.0	30257.96	100.9	25000.0	25607.43	102.4	25000.0	25882.75	103.5
Lithium		600.0	599.70	100.0	500.0	497.10	99.4	500.0	501.31	100.3
Magnesium										
Manganese										
Phosphorus		600.0	604.75	100.8	500.0	501.03	100.2	500.0	505.99	101.2
Potassium										
Sodium										
Strontium										
Tin										
Titanium		600.0	599.25	99.9	500.0	500.99	100.2	500.0	499.98	100.0
Zirconium		600.0	611.71	102.0	500.0	505.21	101.0	500.0	500.20	100.0

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: P
Run Name: 1120304T70
Calibration Date(s): 07/22/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Aluminum										
Boron										
Calcium										
Iron					25000.0	26367.30	105.5	25000.0	25853.17	103.4
Lithium					500.0	507.70	101.5	500.0	508.29	101.7
Magnesium										
Manganese										
Phosphorus					500.0	506.37	101.3	500.0	512.58	102.5
Potassium										
Sodium										
Strontium										
Tin										
Titanium					500.0	507.21	101.4	500.0	495.58	99.1
Zirconium					500.0	509.97	102.0	500.0	510.30	102.1

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: MS
Run Name: 1119505E03
Calibration Date(s): 07/14/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium	111	50.0	52.29	104.6	25.0	25.90	103.6	25.0	26.22	104.9
Chromium										
Cobalt										
Copper										
Lead										
Molybdenum										
Nickel										
Selenium										
Silver										
Thallium										
Vanadium										
Zinc										

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: MS
Run Name: 1119505E03
Calibration Date(s): 07/14/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium	111				25.0	25.15	100.6	25.0	24.68	98.7
Chromium										
Cobalt										
Copper										
Lead										
Molybdenum										
Nickel										
Selenium										
Silver										
Thallium										
Vanadium										
Zinc										

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: MS
Run Name: 1120308E03
Calibration Date(s): 7/22/2011 - 07/23/2011
Concentration Units: UG/L

		Initial Calibration			Continuing Calibration					
Analyte	Mass	True	Found	%R(1)	True	Found	%R(2)	True	Found	%R(2)
Antimony	121	50.0	50.25	100.5	25.0	24.87	99.5	25.0	25.34	101.4
Arsenic	75	500.0	485.60	97.1	250.0	239.90	96.0	250.0	250.10	100.0
Barium	137	500.0	502.00	100.4	250.0	246.50	98.6	250.0	250.80	100.3
Beryllium	9	50.0	51.73	103.5	25.0	24.81	99.2	25.0	25.19	100.8
Cadmium	111	50.0	49.00	98.0	25.0	24.53	98.1	25.0	25.32	101.3
Chromium	52	500.0	470.20	94.0	250.0	233.70	93.5	250.0	237.50	95.0
Cobalt	59	500.0	465.80	93.2	250.0	230.70	92.3	250.0	238.80	95.5
Copper										
Lead	208	50.0	51.49	103.0	25.0	25.77	103.1	25.0	25.44	101.8
Molybdenum	98	50.0	49.94	99.9	25.0	24.36	97.4	25.0	25.53	102.1
Nickel	60	500.0	495.80	99.2	250.0	247.10	98.8	250.0	259.30	103.7
Selenium	78	50.0	49.90	99.8	25.0	24.66	98.6	25.0	25.43	101.7
Silver	107	50.0	49.43	98.9	25.0	24.16	96.6	25.0	25.39	101.6
Thallium	203	50.0	51.52	103.0	25.0	25.88	103.5	25.0	25.97	103.9
Vanadium	51	500.0	500.80	100.2	250.0	245.30	98.1	250.0	250.20	100.1
Zinc										

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: MS
Run Name: 1120308E03
Calibration Date(s): 7/22/2011 - 07/23/2011
Concentration Units: UG/L

		Initial Calibration			Continuing Calibration					
Analyte	Mass	True	Found	%R(1)	True	Found	%R(2)	True	Found	%R(2)
Antimony	121				25.0	25.27	101.1	25.0	25.68	102.7
Arsenic	75				250.0	249.10	99.6	250.0	245.90	98.4
Barium	137				250.0	252.10	100.8	250.0	253.50	101.4
Beryllium	9				25.0	24.83	99.3	25.0	23.91	95.6
Cadmium	111				25.0	25.06	100.2	25.0	25.47	101.9
Chromium	52				250.0	231.00	92.4	250.0	234.60	93.8
Cobalt	59				250.0	235.30	94.1	250.0	235.00	94.0
Copper										
Lead	208				25.0	26.16	104.6	25.0	25.44	101.8
Molybdenum	98				25.0	24.83	99.3	25.0	25.56	102.2
Nickel	60				250.0	255.20	102.1	250.0	253.60	101.4
Selenium	78				25.0	25.06	100.2	25.0	24.90	99.6
Silver	107				25.0	25.10	100.4	25.0	25.90	103.6
Thallium	203				25.0	26.10	104.4	25.0	25.28	101.1
Vanadium	51				250.0	247.00	98.8	250.0	248.60	99.4
Zinc										

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: MS
Run Name: 1120703E03
Calibration Date(s): 07/26/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Chromium										
Cobalt										
Copper	63	500.0	490.80	98.2	250.0	241.10	96.4	250.0	255.50	102.2
Lead										
Molybdenum										
Nickel										
Selenium										
Silver										
Thallium										
Vanadium										
Zinc	66	500.0	501.30	100.3	250.0	247.10	98.8	250.0	259.40	103.8

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: MS
Run Name: 1120703E03
Calibration Date(s): 07/26/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Chromium										
Cobalt										
Copper	63				250.0	239.00	95.6	250.0	243.30	97.3
Lead										
Molybdenum										
Nickel										
Selenium										
Silver										
Thallium										
Vanadium										
Zinc	66				250.0	245.90	98.4	250.0	250.80	100.3

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: MS
Run Name: 1120805E03
Calibration Date(s): 07/27/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Chromium										
Cobalt										
Copper	63	500.0	500.00	100.0	250.0	246.30	98.5	250.0	242.70	97.1
Lead										
Molybdenum										
Nickel										
Selenium										
Silver										
Thallium										
Vanadium										
Zinc	66	500.0	503.80	100.8	250.0	247.40	99.0	250.0	243.70	97.5

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: MS
Run Name: 1120805E03
Calibration Date(s): 07/27/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Chromium										
Cobalt										
Copper	63				250.0	245.30	98.1	250.0	242.80	97.1
Lead										
Molybdenum										
Nickel										
Selenium										
Silver										
Thallium										
Vanadium										
Zinc	66				250.0	250.60	100.2	250.0	249.50	99.8

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: CV
Run Name: 1119403M06
Calibration Date(s): 07/13/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration			Continuing Calibration					
		True	Found	%R(1)	True	Found	%R(2)	True	Found	%R(2)
Mercury		2.5	2.53	101.2	1.0	1.02	102.0	1.0	1.04	104.0

(1) Control Limits: 90 - 110
(2) Control Limits: 80 - 120

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: USF03

Method: CV
Run Name: 1119403M06
Calibration Date(s): 07/13/2011
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(2)	True	Found	%R(2)
Mercury					1.0	1.04	104.0	1.0	1.00	100.0

(1) Control Limits: 90 - 110
(2) Control Limits: 80 - 120

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: P
Run Name: 1120205T70
Calibration Date(s): 07/21/2011
Concentration Units: UG/L

Analyte	Mass	Initial			Final	
		True	Found	%R	Found	%R
Aluminum		200.0	177.03	88.5	186.58	93.3
Boron		50.0	43.41	86.8	46.18	92.4
Calcium		200.0	203.87	101.9	204.08	102.0
Iron		200.0	206.23	103.1	219.26	109.6
Lithium		20.0	19.52	97.6	20.96	104.8
Magnesium		100.0	101.40	101.4	106.11	106.1
Manganese		5.0	5.08	101.6	5.11	102.2
Phosphorus		100.0	96.14	96.1	97.43	97.4
Potassium		500.0	493.70	98.7	457.80	91.6
Sodium		1000.0	947.51	94.8	996.41	99.6
Strontium		5.0	4.87	97.4	5.03	100.6
Tin		20.0	19.27	96.4	18.93	94.7
Titanium		10.0	9.77	97.7	10.88	108.8
Zirconium		50.0	51.02	102.0	50.79	101.6

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: P
Run Name: 1120304T70
Calibration Date(s): 07/22/2011
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum						
Boron						
Calcium						
Iron		200.0	208.50	104.3	213.71	106.9
Lithium		20.0	18.12	90.6	19.84	99.2
Magnesium						
Manganese						
Phosphorus		100.0	97.29	97.3	98.36	98.4
Potassium						
Sodium						
Strontium						
Tin						
Titanium		10.0	10.04	100.4	10.38	103.8
Zirconium		50.0	51.84	103.7	52.50	105.0

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: MS
Run Name: 1119505E03
Calibration Date(s): 07/14/2011
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium	111	0.5	0.57	114.0	0.49	98.0
Chromium						
Cobalt						
Copper						
Lead						
Molybdenum						
Nickel						
Selenium						
Silver						
Thallium						
Vanadium						
Zinc						

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: MS
Run Name: 1120308E03
Calibration Date(s): 7/22/2011 - 07/23/2011
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Antimony	121	1.0	1.07	107.0	0.97	97.0
Arsenic	75	2.0	1.89	94.5	2.33	116.5
Barium	137	2.0	2.12	106.0	2.15	107.5
Beryllium	9	0.5	0.50	100.0	0.48	96.0
Cadmium	111	0.5	0.58	116.0	0.57	114.0
Chromium	52	2.0	1.68	84.0	1.84	92.0
Cobalt	59	0.5	0.45	90.0	0.47	94.0
Copper						
Lead	208	1.0	0.98	98.0	1.02	102.0
Molybdenum	98	0.5	0.45	90.0	0.53	106.0
Nickel	60	2.0	1.86	93.0	1.93	96.5
Selenium	78	2.0	1.86	93.0	1.96	98.0
Silver	107	0.5	0.48	96.0	0.52	104.0
Thallium	203	0.5	0.52	104.0	0.58	116.0
Vanadium	51	0.5	0.54	108.0	0.37	74.0
Zinc						

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: MS
Run Name: 1120703E03
Calibration Date(s): 07/26/2011
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Chromium						
Cobalt						
Copper	63	2.0	1.95	97.5	2.10	105.0
Lead						
Molybdenum						
Nickel						
Selenium						
Silver						
Thallium						
Vanadium						
Zinc	66	15.0	14.94	99.6	16.47	109.8

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: MS
Run Name: 1120805E03
Calibration Date(s): 07/27/2011
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Chromium						
Cobalt						
Copper	63	2.0	2.16	108.0	2.11	105.5
Lead						
Molybdenum						
Nickel						
Selenium						
Silver						
Thallium						
Vanadium						
Zinc	66	15.0	15.65	104.3	15.74	104.9

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: USF03

Method: CV
Run Name: 1119403M06
Calibration Date(s): 07/13/2011
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Mercury		0.2	0.19	95.0		

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: P
Run Name: 1120205T70
Calibration Date(s): 07/21/2011
Preparation Blank Matrix: SOIL

		Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)							Preparation Blank (MG/KG)			
Analyte	Mass		C	1	C	2	C	3	C	Mass		C	Lab Sample ID
Aluminum		66.7	U	66.7	U	66.7	U	66.7	U		5.900	U	P19308EB
Boron		15.0	U	15.0	U	15.0	U	15.0	U		0.350	U	P19308EB
Calcium		66.7	U	66.7	U	66.7	U	66.7	U		3.523	B	P19308EB
Iron		66.7	U	66.7	U	66.7	U	66.7	U		4.948	B	P19308EB
Lithium		2.8	U	2.8	U	2.8	U	2.8	U		0.610	U	P19308EB
Magnesium		33.4	U	33.4	U	33.4	U	33.4	U		0.516	B	P19308EB
Manganese		1.0	U	1.0	U	1.0	U	1.0	U		0.066	B	P19308EB
Phosphorus		-2.0	B	-1.2	B	1.2	U	-1.4	B		1.272	B	P19308EB
Potassium		100	U	100	U	100	U	100	U		11.100	U	P19308EB
Sodium		334	U	334	U	334	U	334	U		5.800	U	P19308EB
Strontium		0.33	U	0.33	U	0.33	U	0.33	U		0.025	U	P19308EB
Tin		1.3	U	1.3	U	1.3	U	1.3	U		1.583	B	P19308EB
Titanium		0.11	U	0.11	U	0.23	B	0.11	U		0.070	U	P19308EB
Zirconium		6.3	U	6.3	U	6.3	U	6.3	U		0.515	B	P19308EB

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: P
Run Name: 1120205T70
Calibration Date(s): 07/21/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Aluminum				66.7	U								
Boron				15.0	U								
Calcium				66.7	U								
Iron				66.7	U								
Lithium				2.8	U								
Magnesium				33.4	U								
Manganese				1.0	U								
Phosphorus				-1.3	B								
Potassium				100	U								
Sodium				334	U								
Strontium				0.33	U								
Tin				1.3	U								
Titanium				0.11	U								
Zirconium				6.3	U								

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: P
Run Name: 1120304T70
Calibration Date(s): 07/22/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Aluminum													
Boron													
Calcium													
Iron		66.7	U	66.7	U	66.7	U	66.7	U				
Lithium		2.8	U	2.8	U	2.8	U	2.8	U				
Magnesium													
Manganese													
Phosphorus		-1.4	B	-2.3	B	-1.4	B	-1.8	B				
Potassium													
Sodium													
Strontium													
Tin													
Titanium		0.11	U	0.11	U	0.11	U	0.11	U				
Zirconium		6.3	U	6.3	U	6.3	U	6.3	U				

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

USV83 2399

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: P
Run Name: 1120304T70
Calibration Date(s): 07/22/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Aluminum													
Boron													
Calcium													
Iron				66.7	U								
Lithium				2.8	U								
Magnesium													
Manganese													
Phosphorus				-2.3	B								
Potassium													
Sodium													
Strontium													
Tin													
Titanium				0.11	U								
Zirconium				6.3	U								

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: MS
Run Name: 1119505E03
Calibration Date(s): 07/14/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Antimony													
Arsenic													
Barium													
Beryllium													
Cadmium	111	0.20	U	0.20	U	0.20	U	0.20	U				
Chromium													
Cobalt													
Copper													
Lead													
Molybdenum													
Nickel													
Selenium													
Silver													
Thallium													
Vanadium													
Zinc													

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

USF03 2451

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: MS
Run Name: 1119505E03
Calibration Date(s): 07/14/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Antimony													
Arsenic													
Barium													
Beryllium													
Cadmium	111			0.20	U								
Chromium													
Cobalt													
Copper													
Lead													
Molybdenum													
Nickel													
Selenium													
Silver													
Thallium													
Vanadium													
Zinc													

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: MS
Run Name: 1120308E03
Calibration Date(s): 07/22/2011 - 07/23/2011
Preparation Blank Matrix: SOIL

		Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (MG/KG)			
Analyte	Mass		C	1	C	2	C	3	C	Mass		C	Lab Sample ID
Antimony	121	0.30	U	0.30	U	0.30	U	0.30	U	121	0.073	U	P19326CB
Arsenic	75	0.40	U	0.40	U	0.40	U	0.40	U	75	0.078	U	P19326CB
Barium	137	0.53	U	0.53	U	0.53	U	0.53	U	137	0.100	U	P19326CB
Beryllium	9	0.050	U	0.050	U	0.050	U	0.050	U	9	0.016	U	P19326CB
Cadmium	111	0.20	U	0.20	U	0.20	U	0.20	U	111	0.043	U	P19326CB
Chromium	52	0.60	U	0.60	U	0.60	U	0.60	U	52	0.120	U	P19326CB
Cobalt	59	0.10	U	0.10	U	0.10	U	0.10	U	59	0.020	U	P19326CB
Copper													
Lead	208	0.050	U	0.050	U	0.050	U	0.050	U	208	0.016	B	P19326CB
Molybdenum	98	0.25	U	0.25	U	0.25	U	0.25	U	98	0.049	U	P19326CB
Nickel	60	0.50	U	0.50	U	0.50	U	0.50	U	60	0.098	U	P19326CB
Selenium	78	0.20	U	0.20	U	0.20	U	0.20	U	78	0.057	U	P19326CB
Silver	107	0.060	U	0.060	U	0.060	U	0.060	U	107	0.014	U	P19326CB
Thallium	203	0.090	U	0.090	U	0.090	U	0.090	U	203	0.029	U	P19326CB
Vanadium	51	-0.13	B	-0.16	B	0.11	U	0.11	U	51	0.022	U	P19326CB
Zinc													

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: MS
Run Name: 1120308E03
Calibration Date(s): 07/22/2011 - 07/23/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Antimony	121			0.30	U								
Arsenic	75			0.40	U								
Barium	137			0.53	U								
Beryllium	9			0.050	U								
Cadmium	111			0.20	U								
Chromium	52			0.60	U								
Cobalt	59			0.10	U								
Copper													
Lead	208			0.050	U								
Molybdenum	98			0.25	U								
Nickel	60			0.50	U								
Selenium	78			0.20	U								
Silver	107			0.060	U								
Thallium	203			0.090	U								
Vanadium	51			0.11	U								
Zinc													

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: MS
Run Name: 1120703E03
Calibration Date(s): 07/26/2011
Preparation Blank Matrix: SOIL

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Antimony													
Arsenic													
Barium													
Beryllium													
Cadmium													
Chromium													
Cobalt													
Copper	63	0.20	U	0.20	U	0.20	U	0.20	U	63	0.118	B	P20426BB
Lead													
Molybdenum													
Nickel													
Selenium													
Silver													
Thallium													
Vanadium													
Zinc	66	2.0	U	2.0	U	2.0	U	2.0	U	66	0.560	U	P20426BB

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: MS
Run Name: 1120703E03
Calibration Date(s): 07/26/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Antimony													
Arsenic													
Barium													
Beryllium													
Cadmium													
Chromium													
Cobalt													
Copper	63			0.20	U								
Lead													
Molybdenum													
Nickel													
Selenium													
Silver													
Thallium													
Vanadium													
Zinc	66			2.0	U								

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

USF03 2496

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: MS
Run Name: 1120805E03
Calibration Date(s): 07/27/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Antimony													
Arsenic													
Barium													
Beryllium													
Cadmium													
Chromium													
Cobalt													
Copper	63	0.20	U	0.20	U	0.20	U	0.20	U				
Lead													
Molybdenum													
Nickel													
Selenium													
Silver													
Thallium													
Vanadium													
Zinc	66	2.0	U	2.0	U	2.0	U	2.0	U				

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

USF03 2487

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: MS
Run Name: 1120805E03
Calibration Date(s): 07/27/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Antimony													
Arsenic													
Barium													
Beryllium													
Cadmium													
Chromium													
Cobalt													
Copper	63			0.20	U								
Lead													
Molybdenum													
Nickel													
Selenium													
Silver													
Thallium													
Vanadium													
Zinc	66			2.0	U								

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: CV
Run Name: 1119403M06
Calibration Date(s): 07/13/2011
Preparation Blank Matrix: SOIL

		Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (MG/KG)			
Analyte	Mass		C	1	C	2	C	3	C	Mass		C	Lab Sample ID
Mercury		0.067	U	0.067	U	0.067	U	0.067	U		0.007	U	P19311DB

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: USF03

Method: CV
Run Name: 1119403M06
Calibration Date(s): 07/13/2011

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (MG/KG) Mass		C	Lab Sample ID
Mercury				0.067	U								

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4A
ICP-AES INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11016
Run Name: 1120205T70
Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500000	500000	561595	112.3	557052.9	111.4	571813	114.4	576715.1	115.3
Boron	0	0	5		5.0		11		10.7	
Calcium	500000	500000	510239	102.0	506583.9	101.3	493559	98.7	493650.4	98.7
Iron	200000	200000	202562	101.3	202207.8	101.1	204638	102.3	203001.6	101.5
Lithium	0	0	0		1.0		2		1.6	
Magnesium	500000	500000	502382	100.5	494299.9	98.9	509936	102.0	505633.7	101.1
Manganese	0	500	4		477.2	95.4	4		472.1	94.4
Phosphorus	0	0	5		5.4		4		4.0	
Potassium	0	0	-53		4.2		-55		-3.8	
Sodium	0	0	67		43.6		12		31.4	
Strontium	0	0	3		3.3		3		3.4	
Tin	0	0	0		-0.7		-1		-1.5	
Titanium	0	0	-1		-0.1		0		-0.1	
Zirconium	0	0	-8		-6.2		-7		-8.8	

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4A
ICP-AES INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11016
Run Name: 1120304T70
Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500000	500000	548079	109.6	551627.1	110.3	556229	111.2	554217.6	110.8
Boron										
Calcium	500000	500000	501232	100.2	505041.8	101.0	510909	102.2	512940.0	102.6
Iron	200000	200000	196951	98.5	200735.9	100.4	200838	100.4	201699.9	100.8
Lithium	0	0	1		0.9		1		0.7	
Magnesium	500000	500000	491638	98.3	492337.0	98.5	502241	100.4	496896.2	99.4
Manganese										
Phosphorus	0	0	4		2.8		3		2.4	
Potassium										
Sodium										
Strontium										
Tin										
Titanium	0	0	0		-0.1		-1		-0.4	
Zirconium	0	0	-9		-6.2		-9		-9.1	

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1119505E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	9683	96.8	9699.0	97.0
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium	111	0	20	0		20.3	101.5
Calcium	44	10000	10000	9699	97.0	9842.0	98.4
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium							
Cobalt							
Copper							
Iron	57	10000	10000	10150	101.5	9938.0	99.4
Lead							
Magnesium	24	10000	10000	9913	99.1	9902.0	99.0
Molybdenum	98	200	200	204	102.0	203.9	102.0
Nickel							
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	11680	116.8	11710.0	117.1
Selenium							
Silver							
Sodium	23	10000	10000	10040	100.4	9967.0	99.7
Sulfur	34	10000	10000	NA		NA	
Thallium							
Titanium	47	200	200	198	99.0	199.1	99.6
Vanadium							
Zinc							

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1119505E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	9526	95.3	9650.0	96.5
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium	111	0	20	0		20.4	102.0
Calcium	44	10000	10000	10000	100.0	10180.0	101.8
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium							
Cobalt							
Copper							
Iron	57	10000	10000	10050	100.5	9886.0	98.9
Lead							
Magnesium	24	10000	10000	9621	96.2	9835.0	98.4
Molybdenum	98	200	200	205	102.5	201.0	100.5
Nickel							
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	11700	117.0	11760.0	117.6
Selenium							
Silver							
Sodium	23	10000	10000	9828	98.3	9855.0	98.6
Sulfur	34	10000	10000	NA		NA	
Thallium							
Titanium	47	200	200	197	98.5	195.7	97.9
Vanadium							
Zinc							

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1120308E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	9983	99.8	9899.0	99.0
Antimony	121	0	0	0		0.0	
Arsenic	75	0	20	0		19.5	97.5
Barium	137	0	0	0		0.1	
Beryllium	9	0	0	0		0.0	
Cadmium	111	0	20	0		19.2	96.0
Calcium	44	10000	10000	9530	95.3	9449.0	94.5
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium	52	0	20	0		19.4	97.0
Cobalt	59	0	20	0		18.7	93.5
Copper							
Iron	57	10000	10000	10370	103.7	10180.0	101.8
Lead	208	0	0	0		0.0	
Magnesium	24	10000	10000	10010	100.1	10010.0	100.1
Molybdenum	98	200	200	204	102.0	203.9	102.0
Nickel	60	0	20	0		19.7	98.5
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	11910	119.1	11980.0	119.8
Selenium	78	0	0	0		0.0	
Silver	107	0	20	0		19.7	98.5
Sodium	23	10000	10000	10090	100.9	10030.0	100.3
Sulfur	34	10000	10000	NA		NA	
Thallium	203	0	0	0		0.0	
Titanium	47	200	200	203	101.5	203.5	101.8
Vanadium	51	0	0	0		-0.1	
Zinc							

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1120308E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	9762	97.6	9931.0	99.3
Antimony	121	0	0	0		0.0	
Arsenic	75	0	20	0		21.0	105.0
Barium	137	0	0	0		0.2	
Beryllium	9	0	0	0		0.0	
Cadmium	111	0	20	0		20.2	101.0
Calcium	44	10000	10000	9682	96.8	9655.0	96.6
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium	52	0	20	0		19.5	97.5
Cobalt	59	0	20	0		18.7	93.5
Copper							
Iron	57	10000	10000	10400	104.0	10400.0	104.0
Lead	208	0	0	0		0.0	
Magnesium	24	10000	10000	9828	98.3	9620.0	96.2
Molybdenum	98	200	200	206	103.0	205.9	103.0
Nickel	60	0	20	0		20.7	103.5
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	12050	120.5	12120.0	121.2
Selenium	78	0	0	0		0.0	
Silver	107	0	20	0		20.1	100.5
Sodium	23	10000	10000	9876	98.8	9974.0	99.7
Sulfur	34	10000	10000	NA		NA	
Thallium	203	0	0	0		0.0	
Titanium	47	200	200	210	105.0	210.4	105.2
Vanadium	51	0	0	0		0.0	
Zinc							

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1120703E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	10100	101.0	10040.0	100.4
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium	44	10000	10000	9625	96.3	9581.0	95.8
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium							
Cobalt							
Copper	63	0	20	0		18.9	94.5
Iron	57	10000	10000	10300	103.0	10160.0	101.6
Lead							
Magnesium	24	10000	10000	10180	101.8	10070.0	100.7
Molybdenum	98	200	200	200	100.0	200.4	100.2
Nickel							
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	12100	121.0	12000.0	120.0
Selenium							
Silver							
Sodium	23	10000	10000	10170	101.7	10110.0	101.1
Sulfur	34	10000	10000	NA		NA	
Thallium							
Titanium	47	200	200	204	102.0	197.1	98.6
Vanadium							
Zinc	66	0	20	0		20.1	100.5

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1120703E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	9960	99.6	10210.0	102.1
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium	44	10000	10000	9645	96.5	9692.0	96.9
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium							
Cobalt							
Copper	63	0	20	0		19.2	96.0
Iron	57	10000	10000	10240	102.4	10380.0	103.8
Lead							
Magnesium	24	10000	10000	9969	99.7	10130.0	101.3
Molybdenum	98	200	200	200	100.0	201.6	100.8
Nickel							
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	12160	121.6	12340.0	123.4
Selenium							
Silver							
Sodium	23	10000	10000	9999	100.0	10230.0	102.3
Sulfur	34	10000	10000	NA		NA	
Thallium							
Titanium	47	200	200	200	100.0	213.8	106.9
Vanadium							
Zinc	66	0	20	0		19.3	96.5

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1120805E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	10150	101.5	9979.0	99.8
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium	44	10000	10000	9826	98.3	9720.0	97.2
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium							
Cobalt							
Copper	63	0	20	0		19.6	98.0
Iron	57	10000	10000	10350	103.5	10230.0	102.3
Lead							
Magnesium	24	10000	10000	9914	99.1	10080.0	100.8
Molybdenum	98	200	200	200	100.0	202.9	101.5
Nickel							
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	11950	119.5	11950.0	119.5
Selenium							
Silver							
Sodium	23	10000	10000	10240	102.4	10090.0	100.9
Sulfur	34	10000	10000	NA		NA	
Thallium							
Titanium	47	200	200	203	101.5	198.6	99.3
Vanadium							
Zinc	66	0	20	0		20.4	102.0

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: USF03

Instrument ID: 11332
Run Name: 1120805E03
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	10000	10000	10100	101.0	10110.0	101.1
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium	44	10000	10000	9933	99.3	9798.0	98.0
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium							
Cobalt							
Copper	63	0	20	0		19.5	97.5
Iron	57	10000	10000	10530	105.3	10300.0	103.0
Lead							
Magnesium	24	10000	10000	9968	99.7	10130.0	101.3
Molybdenum	98	200	200	197	98.5	198.2	99.1
Nickel							
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	10000	10000	12000	120.0	11980.0	119.8
Selenium							
Silver							
Sodium	23	10000	10000	10070	100.7	9931.0	99.3
Sulfur	34	10000	10000	NA		NA	
Thallium							
Titanium	47	200	200	202	101.0	208.1	104.1
Vanadium							
Zinc	66	0	20	0		20.3	101.5

Control Limits: All Metals 80%-120%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339377BKG Matrix Spike Lab Sample ID: 6339378MS Matrix Spike Duplicate Lab Sample ID: 6339379MSD
% Solids for Sample: 92.7
Batch Id(s): P19308E, P19326C, P20426B, P19311D

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		39702.3139		49483.3603		51008.3463		215.7497	215.7497	MG/KG	4534		5240		3			20	P
Antimony	121	0.1703	B	0.5142		0.4803		1.2817	1.2568	MG/KG	27	N	25	N	7		75 - 125	20	MS
Arsenic	75	7.8781		10.2919		10.2240		2.1361	2.0947	MG/KG	113		112		1		75 - 125	20	MS
Barium	137	140.8354		151.5375		153.4756		10.6807	10.4733	MG/KG	100		121		1			20	MS
Beryllium	9	0.9929		1.7343		1.7105		0.8545	0.8379	MG/KG	87		86		1		75 - 125	20	MS
Boron		13.9655		227.0787		228.9536		215.7497	215.7497	MG/KG	99		100		1		84 - 115	20	P
Cadmium	111	0.1930		1.2597		1.2516		1.0681	1.0473	MG/KG	100		101		1		75 - 125	20	MS
Calcium		5368.4401		6027.3150		6165.1402		431.4995	431.4995	MG/KG	153		185		2			20	P
Chromium	52	36.5920		44.1753		45.0351		10.6807	10.4733	MG/KG	71	N	81		2		75 - 125	20	MS
Cobalt	59	12.3383		60.4313		59.7396		53.4034	52.3664	MG/KG	90		91		1		75 - 125	20	MS
Copper	63	19.1120		28.7050		31.9854		10.2738	10.4733	MG/KG	93		123		11		75 - 125	20	MS
Iron		44112.0119		46123.3010		47726.7314		107.8749	107.8749	MG/KG	1864		3351		3			20	P
Lead	208	14.2950		17.0506		18.4874		3.2042	3.1420	MG/KG	86		133		8			20	MS
Lithium		64.6969		179.1424		184.7519		107.8749	107.8749	MG/KG	106		111		3		82 - 114	20	P
Magnesium		11442.3333		12020.7411		12423.5707		215.7497	215.7497	MG/KG	268		455		3			20	P
Manganese		414.7584		482.7519		494.2147		53.9374	53.9374	MG/KG	126		147		2			20	P
Mercury		0.0185	B	0.1925		0.1694		0.1782	0.1661	MG/KG	98		91		13		80 - 120	20	CV
Molybdenum	98	0.4695		9.0252		9.1578		10.6807	10.4733	MG/KG	80		83		1		75 - 125	20	MS
Nickel	60	26.8940		36.7415		36.6775		10.6807	10.4733	MG/KG	92		93		0		75 - 125	20	MS
Phosphorus		404.8274		557.0734		527.2923		107.8749	107.8749	MG/KG	141	N	114		5		75 - 125	20	P
Potassium		7660.8824		9466.6138		9514.9407		1078.7487	1078.7487	MG/KG	167		172		1			20	P
Selenium	78	0.3369	B	2.2280		2.0988		2.1361	2.0947	MG/KG	89		84		6		75 - 125	20	MS
Silver	107	0.0360	B	10.2065		10.2533		10.6807	10.4733	MG/KG	95		98		0		75 - 125	20	MS
Sodium		161.6386		1238.3182		1272.5512		1078.7487	1078.7487	MG/KG	100		103		3		75 - 125	20	P
Strontium		70.0140		175.6721		176.9989		107.8749	107.8749	MG/KG	98		99		1		75 - 115	20	P
Thallium	203	0.5263		0.9014		0.8605		0.4272	0.4189	MG/KG	88		80		5		75 - 125	20	MS
Tin		2.7184	B	346.4844		352.8673		431.4995	431.4995	MG/KG	80		81		2		80 - 110	20	P
Titanium		1904.6796		2531.0302		2633.9428		107.8749	107.8749	MG/KG	581		676		4			20	P
Vanadium	51	77.5204		86.8766		86.4675		10.6807	10.4733	MG/KG	88		85		0			20	MS
Zinc	66	101.5733		110.7104		124.2760		10.2738	10.4733	MG/KG	89		217		12			20	MS
Zirconium		5.5156		101.2157		104.1953		107.8749	107.8749	MG/KG	89		91		3		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5B
POST DIGEST SPIKE SAMPLE RECOVERY
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339377BKG
Post Digest Spike Lab Sample ID: 6339377A
Batch ID(s): P19326C, P19308E
Concentration Units: UG/L

Analyte	Mass	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	121		2.5010		0.7970	B	2.0000	85		MS
Chromium	52		170.2000		171.3000		4.0000	-28		MS
Phosphorus			4673.5200		3752.7500		1000.0000	92		P

Comments:

USF03 2422

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339377BKG
% Solids for Duplicate: 92.7
Batch ID(s): P19308E, P19326C, P20426B, P19311D
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6339380DUP
% Solids for Sample: 92.7

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			39702.3139		40194.1716		1		P
Antimony	121		0.1703	B	0.1898	B	11		MS
Arsenic	75		7.8781		8.1515		3		MS
Barium	137		140.8354		144.7232		3		MS
Beryllium	9		0.9929		1.0147		2		MS
Boron		5.4	13.9655		14.5377		4		P
Cadmium	111	0.1	0.1930		0.2018		4		MS
Calcium			5368.4401		5425.7578		1		P
Chromium	52		36.5920		35.6521		3		MS
Cobalt	59		12.3383		12.9663		5		MS
Copper	63		19.1120		24.3818		24	*	MS
Iron			44112.0119		43181.0923		2		P
Lead	208		14.2950		14.4189		1		MS
Lithium			64.6969		66.2362		2		P
Magnesium			11442.3333		11599.4268		1		P
Manganese			414.7584		415.0020		0		P
Mercury			0.0185	B	0.0099	B	61		CV
Molybdenum	98	0.1	0.4695		0.4364		7		MS
Nickel	60		26.8940		27.9620		4		MS
Phosphorus			404.8274		390.8962		4		P
Potassium			7660.8824		7636.2713		0		P
Selenium	78		0.3369	B	0.3285	B	3		MS
Silver	107		0.0360	B	0.0515	B	35		MS
Sodium		107.9	161.6386		166.1929		3		P
Strontium			70.0140		69.5835		1		P
Thallium	203	0.1	0.5263		0.5304		1		MS
Tin			2.7184	B	2.8238	B	4		P
Titanium			1904.6796		2036.2809		7		P
Vanadium	51		77.5204		75.4483		3		MS
Zinc	66		101.5733		127.7951		23	*	MS
Zirconium		5.4	5.5156		5.4128		2		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 7(LCS/LCSD)
LABORATORY CONTROL SAMPLE/SAMPLE DUPLICATE
SDG No.: USF03
Matrix: WATER

Analyte	Mass	Lab Sample ID LCS	Lab Sample ID LCSD	Units	True	LCS Found	LCS C	LCS %R	LCSD Found	LCSD C	LCSD %R	Control Limits (%)	RPD	M	In Spec
Aluminum		P19308EQ	P19308EY	MG/KG	14544.0	15472.7		106	15431.1		106	70 - 130	0	P	Yes
Antimony	121	P19326CQ	P19326CY	MG/KG	120.0	72.9		61	70.5		59	10 - 224	3	MS	Yes
Arsenic	75	P19326CQ	P19326CY	MG/KG	124.0	125.4		101	121.8		98	78 - 122	3	MS	Yes
Barium	137	P19326CQ	P19326CY	MG/KG	316.0	328.1		104	314.0		99	80 - 120	4	MS	Yes
Beryllium	9	P19326CQ	P19326CY	MG/KG	95.0	97.2		102	92.3		97	80 - 120	5	MS	Yes
Boron		P19308EQ	P19308EY	MG/KG	148.0	152.6		103	153.3		104	66 - 134	0	P	Yes
Cadmium	111	P19326CQ	P19326CY	MG/KG	116.0	121.7		105	112.9		97	81 - 119	8	MS	Yes
Calcium		P19308EQ	P19308EY	MG/KG	10900.0	10986.3		101	10787.8		99	79 - 121	2	P	Yes
Chromium	52	P19326CQ	P19326CY	MG/KG	95.9	96.6		101	90.6		94	77 - 123	6	MS	Yes
Cobalt	59	P19326CQ	P19326CY	MG/KG	138.0	133.1		96	132.0		96	80 - 119	1	MS	Yes
Copper	63	P20426BQ	P20426BY	MG/KG	82.8	85.3		103	92.1		111	78 - 122	8	MS	Yes
Iron		P19308EQ	P19308EY	MG/KG	22869.0	21674.9		95	21899.7		96	71 - 129	1	P	Yes
Lead	208	P19326CQ	P19326CY	MG/KG	137.0	140.8		103	134.9		98	77 - 123	4	MS	Yes
Lithium		P19308EQ	P19308EY	UG/L	1000.0	971.50		97	985.29		99	80 - 120	1	P	Yes
Magnesium		P19308EQ	P19308EY	MG/KG	3040.0	3655.3		120	3667.7		121	64 - 136	0	P	Yes
Manganese		P19308EQ	P19308EY	MG/KG	578.0	564.2		98	545.4		94	78 - 122	3	P	Yes
Mercury		P19311DQ	P19311DY	MG/KG	15.2	15.8		104	15.8		104	72 - 128	0	CV	Yes
Molybdenum	98	P19326CQ	P19326CY	MG/KG	88.6	94.4		107	91.2		103	76 - 123	3	MS	Yes
Nickel	60	P19326CQ	P19326CY	MG/KG	121.0	127.1		105	124.9		103	80 - 120	2	MS	Yes
Phosphorus		P19308EQ	P19308EY	UG/L	1000.0	1009.44		101	1023.43		102	80 - 120	1	P	Yes
Potassium		P19308EQ	P19308EY	MG/KG	1870.0	2162.8		116	2174.6		116	69 - 131	1	P	Yes
Selenium	78	P19326CQ	P19326CY	MG/KG	202.0	209.6		104	204.9		101	77 - 123	2	MS	Yes
Silver	107	P19326CQ	P19326CY	MG/KG	53.5	54.7		102	52.5		98	66 - 134	4	MS	Yes
Sodium		P19308EQ	P19308EY	MG/KG	726.0	801.3		110	793.1		109	71 - 129	1	P	Yes
Strontium		P19308EQ	P19308EY	MG/KG	73.2	74.3		102	75.4		103	81 - 119	1	P	Yes
Thallium	203	P19326CQ	P19326CY	MG/KG	231.0	237.9		103	232.4		101	75 - 124	2	MS	Yes
Tin		P19308EQ	P19308EY	MG/KG	132.0	121.5		92	120.0		91	74 - 126	1	P	Yes
Titanium		P19308EQ	P19308EY	MG/KG	556.0	602.8		108	586.6		106	48 - 150	3	P	Yes
Vanadium	51	P19326CQ	P19326CY	MG/KG	104.0	111.0		107	109.0		105	76 - 124	2	MS	Yes
Zinc	66	P20426BQ	P20426BY	MG/KG	275.0	293.1		107	312.7		114	79 - 121	6	MS	Yes
Zirconium		P19308EQ	P19308EY	UG/L	1000.0	987.68		99	997.74		100	80 - 120	1	P	Yes

RPD Control Limit: 20

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: USF03
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339377BKG Serial Dilution Lab Sample ID: 6339377L
Batch ID(s): P19308E, P19326C, P20426B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		368040.4500		355818.6000		3		P
Antimony	121	0.7970	B	1.8500	U	100		MS
Arsenic	75	36.8800		41.8750		14		MS
Barium	137	659.3000		741.0000		12	E	MS
Beryllium	9	4.6480		5.6250		21		MS
Boron		129.4600		178.5000	B	38		P
Cadmium	111	0.9037		1.4095	B	56		MS
Calcium		49765.4400		52820.3000		6		P
Chromium	52	171.3000		202.6500		18	E	MS
Cobalt	59	57.7600		65.5500		13	E	MS
Copper	63	89.4700		108.1000		21	E	MS
Iron		81783.6700		81207.1500		1		P
Lead	208	66.9200		73.2000		9		MS
Lithium		599.7400		599.8500		0		P
Magnesium		106070.4300		109486.1500		3		P
Manganese		3844.8100		4166.0500		8		P
Molybdenum	98	2.1980		2.8985		32		MS
Nickel	60	125.9000		142.0000		13	E	MS
Phosphorus		3752.7500		3876.6000		3		P
Potassium		71016.3800		72595.8500		2		P
Selenium	78	1.5770	B	1.6080	B	2		MS
Silver	107	0.1684	B	0.3550	U	100		MS
Sodium		1498.3900		1513.8500	B	1		P
Strontium		649.0300		681.8500		5		P
Thallium	203	2.4640		2.2980	B	7		MS
Tin		25.2000	B	28.1000	B	12		P
Titanium		17656.3800		19193.0000		9		P
Vanadium	51	362.9000		428.9000		18	E	MS
Zinc	66	475.5000		557.5000		17	E	MS
Zirconium		51.1300		69.2000	B	35		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: USF03

Method: P
Instrument ID: 11016
Date: 07/2011

Analyte	Wavelength (nm)	Background	IDL (UG/L)
Aluminum	308.21		66.7
Boron	249.67		15.0
Calcium	317.93		66.7
Iron	261.19		66.7
Lithium	670.78		2.8
Magnesium	285.21		33.4
Manganese	257.61		1.0
Phosphorus	177.49		1.2
Potassium	766.49		100
Sodium	589.59		334
Strontium	421.55		0.33
Tin	189.99		1.3
Titanium	334.94		0.11
Zirconium	339.19		6.3

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: USF03

Method: MS
Instrument ID: 11332
Date: 07/2011

Analyte	MASS (amu)	Background	IDL (UG/L)
Antimony	121		0.30
Arsenic	75		0.40
Barium	137		0.53
Beryllium	9		0.050
Cadmium	111		0.20
Chromium	52		0.60
Cobalt	59		0.10
Copper	63		0.20
Lead	208		0.050
Molybdenum	98		0.25
Nickel	60		0.50
Selenium	78		0.20
Silver	107		0.060
Thallium	203		0.090
Vanadium	51		0.11
Zinc	66		2.0

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: USF03

Method: CV
Instrument ID: 62347
Date: 04/2011

Analyte	Wavelength (nm)	Background	IDL (UG/L)
Mercury	254.00		0.067

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: USF03
Matrix: SOIL

Method: P
Date: 06/2011

Analyte	Wavelength (nm)	Background	LOQ (UG/L)	MDL (UG/L)
Aluminum	308.21		200	60.5
Boron	249.67		50.0	3.6
Calcium	317.93		200	25.0
Iron	261.19		200	26.1
Lithium	670.78		20.0	6.2
Magnesium	285.21		100	4.4
Manganese	257.61		5.0	0.36
Phosphorus	177.49		100	3.5
Potassium	766.49		500	113
Sodium	589.59		1000	59.5
Strontium	421.55		5.0	0.25
Tin	189.99		100	3.2
Titanium	334.94		10.0	0.71
Zirconium	339.19		50.0	4.6

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: USF03
Matrix: SOIL

Method: MS
Date: 06/2011

Analyte	Mass	Background	LOQ (UG/L)	MDL (UG/L)
Antimony	121		1.0	0.37
Arsenic	75		2.0	0.40
Barium	137		2.0	0.53
Beryllium	9		0.50	0.080
Cadmium	111		0.50	0.22
Chromium	52		2.0	0.60
Cobalt	59		0.50	0.10
Copper	63		2.0	0.40
Lead	208		1.0	0.051
Molybdenum	98		0.50	0.25
Nickel	60		2.0	0.50
Selenium	78		2.0	0.29
Silver	107		0.50	0.071
Thallium	203		0.50	0.15
Vanadium	51		0.50	0.11
Zinc	66		15.0	2.8

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: USF03
Matrix: SOIL

Method: CV
Date: 06/2011

Analyte	Wavelength (nm)	Background	LOQ (UG/L)	MDL (UG/L)
Mercury	254.00		0.60	0.043

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)
SDG No.: USF03

Instrument ID: 11016
Date: 05/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: AL	CA	FE	MG	AG
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.67	0.0000000	0.0000000	0.0010500	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.78	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	177.49	0.0001620	0.0000000	0.0000420	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0045200

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)
SDG No.: USF03

Instrument ID: 11016
Date: 05/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: B	CO	CR	CU	MO
Aluminum	308.21	0.0000000	-0.0003630	-0.0063900	0.0000000	0.0048000
Boron	249.67	0.0000000	-0.0007010	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.78	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	177.49	0.0000000	-0.0000800	0.0000000	0.0008590	-0.0005060
Potassium	766.49	0.0021350	0.0000000	0.0000000	0.0000000	-0.0004100
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.94	0.0000000	0.0000000	0.0002440	0.0000000	0.0000000

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)
SDG No.: USF03

Instrument ID: 11016
Date: 05/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: NI	SI	TI	V	--
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0368000	
Boron	249.67	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Lithium	670.78	0.0000000	0.0000000	0.0000000	0.0000000	
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	
Phosphorus	177.49	0.0002800	0.0004740	0.0000000	0.0000000	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 12
LINEAR RANGES
SDG No.: USF03

Method: P
Instrument ID: 11016
Date: 07/2011

Analyte	Wavelength (nm)	Integration Time (Sec.)	Concentration (ug/L)
Aluminum	308.21	10.00	600000.0
Boron	249.67	10.00	20000.0
Calcium	317.93	10.00	600000.0
Iron	261.19	10.00	300000.0
Lithium	670.78	10.00	20000.0
Magnesium	285.21	10.00	600000.0
Manganese	257.61	10.00	10000.0
Phosphorus	177.49	10.00	20000.0
Potassium	766.49	10.00	100000.0
Sodium	589.59	10.00	100000.0
Strontium	421.55	10.00	5000.0
Tin	189.99	10.00	20000.0
Titanium	334.94	10.00	20000.0
Zirconium	339.19	10.00	20000.0

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: USF03

Method: P
Batch ID: P19308E

Lab Sample ID	Date	Sample Weight(gram)	Final Volume(ml)
6339368	07/13/2011	1.02	100
6339369	07/13/2011	1.01	100
6339370	07/13/2011	1.01	100
6339371	07/13/2011	1.02	100
6339372	07/13/2011	1.05	100
6339373	07/13/2011	1.03	100
6339374	07/13/2011	1.01	100
6339375	07/13/2011	1.01	100
6339376	07/13/2011	1.02	100
6339384	07/13/2011	1.00	1
6339385	07/13/2011	1.02	100
6339386	07/13/2011	1.00	100
6339387	07/13/2011	1.00	100
6339377BKG	07/13/2011	1.00	100
6339380DUP	07/13/2011	1.02	100
6339379MSD	07/13/2011	1.00	100
6339378MS	07/13/2011	1.00	100
P19308EB	07/13/2011	1.02	100
P19308EQ	07/13/2011	1.00	1
P19308EQ	07/13/2011	1.04	100
P19308EY	07/13/2011	1.00	1
P19308EY	07/13/2011	1.04	100

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: USF03

Method: MS
Batch ID: P19326C

Lab Sample ID	Date	Sample Weight(gram)	Final Volume(ml)
6339368	07/13/2011	1.01	100
6339369	07/13/2011	1.02	100
6339370	07/13/2011	1.00	100
6339371	07/13/2011	1.03	100
6339372	07/13/2011	1.01	100
6339373	07/13/2011	1.04	100
6339374	07/13/2011	1.01	100
6339375	07/13/2011	1.02	100
6339376	07/13/2011	1.04	100
6339384	07/13/2011	1.00	1
6339385	07/13/2011	1.04	100
6339386	07/13/2011	1.04	100
6339387	07/13/2011	1.03	100
6339377BKG	07/13/2011	1.01	100
6339380DUP	07/13/2011	1.01	100
6339379MSD	07/13/2011	1.03	100
6339378MS	07/13/2011	1.01	100
P19326CB	07/13/2011	1.02	100
P19326CQ	07/13/2011	1.05	100
P19326CY	07/13/2011	1.05	100

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: USF03

Method: MS
Batch ID: P20426B

Lab Sample ID	Date	Sample Weight(gram)	Final Volume(ml)
6339368	07/24/2011	1.01	100
6339369	07/24/2011	1.03	100
6339370	07/24/2011	1.05	100
6339371	07/24/2011	1.00	100
6339372	07/24/2011	1.01	100
6339373	07/24/2011	1.00	100
6339374	07/24/2011	1.05	100
6339375	07/24/2011	1.04	100
6339376	07/24/2011	1.05	100
6339384	07/24/2011	1.00	1
6339385	07/24/2011	1.00	100
6339386	07/24/2011	1.02	100
6339387	07/24/2011	1.05	100
6339377BKG	07/24/2011	1.01	100
6339380DUP	07/24/2011	1.03	100
6339379MSD	07/24/2011	1.03	100
6339378MS	07/24/2011	1.05	100
P20426BB	07/24/2011	1.00	100
P20426BQ	07/24/2011	1.02	100
P20426BY	07/24/2011	1.02	100

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: USF03

Method: CV
Batch ID: P19311D

Lab Sample ID	Date	Sample Weight(gram)	Final Volume(ml)
6339368	07/13/2011	0.61	100
6339369	07/13/2011	0.60	100
6339370	07/13/2011	0.62	100
6339371	07/13/2011	0.60	100
6339372	07/13/2011	0.61	100
6339373	07/13/2011	0.62	100
6339374	07/13/2011	0.63	100
6339375	07/13/2011	0.60	100
6339376	07/13/2011	0.64	100
6339384	07/13/2011	1.00	1
6339385	07/13/2011	0.62	100
6339386	07/13/2011	0.61	100
6339387	07/13/2011	0.62	100
6339377BKG	07/13/2011	0.63	100
6339380DUP	07/13/2011	0.62	100
6339379MSD	07/13/2011	0.65	100
6339378MS	07/13/2011	0.61	100
P19311DB	07/13/2011	0.64	100
P19311DQ	07/13/2011	0.61	100
P19311DY	07/13/2011	0.61	100

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: P
Instrument ID: 11016
Run Name: 1120205T70

Run Start Date: 07/21/2011
Run End Date: 07/21/2011

Lab Sample ID	D/F	Time	Analytes																												
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	19:42	X					X		X				X		X	X	X				X	X			X	X		X	X			X
S	1.00	19:46	X							X				X			X						X			X							
S	1.00	19:49						X								X		X				X					X					
S	1.00	19:53																											X	X			X
ICV	1.00	19:57	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ICB	1.00	20:01	X					X		X				X		X	X	X				X	X			X	X		X	X			X
LLC	1.00	20:05	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ICSA	1.00	20:09	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ICSAB	1.00	20:13	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCV	1.00	20:17	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCB	1.00	20:21	X					X		X				X		X	X	X				X	X			X	X		X	X			X
P19308EB	1.00	20:25	X					X		X				X		X	X	X				X	X			X	X		X	X			X
6339384	1.00	20:29	X					X		X				X		X	X	X				X	X			X	X		X	X			X
P19308EQ	1.00	20:33	X					X		X				X			X	X					X			X	X		X	X			
P19308EY	1.00	20:37	X					X		X				X			X	X					X			X	X		X	X			
6339377BKG	1.00	20:42	X					X		X						X	X	X				X	X			X	X		X	X			X
6339377A	1.00	20:46																				X											
6339380DUP	1.00	20:51	X					X		X						X	X	X				X	X			X	X		X				X
6339378MS	1.00	20:55	X					X		X						X	X	X				X	X			X	X		X				X
6339379MSD	1.00	20:59	X					X		X						X	X	X				X	X			X	X		X				X
6339377L	5.00	21:04	X					X		X						X	X	X				X	X			X	X		X	X			X
CCV	1.00	21:08	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCB	1.00	21:12	X					X		X				X		X	X	X				X	X			X	X		X	X			X
6339368	1.00	21:16	X					X		X						X	X	X				X	X			X	X		X	X			X
6339369	1.00	21:20	X					X		X						X	X	X				X	X			X	X		X	X			X
6339370	1.00	21:24	X					X		X						X	X	X				X	X			X	X		X	X			X
6339371	1.00	21:29	X					X		X						X	X	X				X	X			X	X		X	X			X
6339372	1.00	21:33	X					X		X						X	X	X				X	X			X	X		X	X			X
6339373	1.00	21:38	X					X		X						X	X	X				X	X			X	X		X	X			X
6339374	1.00	21:42	X					X		X						X	X	X				X	X			X	X		X	X			X
6339375	1.00	21:46	X					X		X						X	X	X				X	X			X	X		X	X			X
6339376	1.00	21:51	X					X		X						X	X	X				X	X			X	X		X	X			X
6339385	1.00	21:55	X					X		X						X	X	X				X	X			X	X		X				X
CCV	1.00	21:59	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCB	1.00	22:03	X					X		X				X		X	X	X				X	X			X	X		X	X			X
6339386	1.00	22:07	X					X		X						X	X	X				X	X			X	X		X	X			X
6339387	1.00	22:12	X					X		X						X	X	X				X	X			X	X		X	X			X
LLC	1.00	22:16	X					X		X				X		X	X	X				X	X			X	X		X	X			X

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

USF03 2448

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: P
Instrument ID: 11016
Run Name: 1120205T70

Run Start Date: 07/21/2011
Run End Date: 07/21/2011

Lab Sample ID	D/F	Time	Analytes																												
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
ICSA	1.00	22:20	X					X		X				X		X	X	X				X	X			X	X		X	X			X
ICSAB	1.00	22:24	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCV	1.00	22:28	X					X		X				X		X	X	X				X	X			X	X		X	X			X
CCB	1.00	22:32	X					X		X				X		X	X	X				X	X			X	X		X	X			X

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

USF03 2441

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: P
Instrument ID: 11016
Run Name: 1120304T70

Run Start Date: 07/22/2011
Run End Date: 07/22/2011

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	09:44												X		X						X								X			X
S	1.00	09:48												X																			
S	1.00	09:52														X						X											
S	1.00	09:56																												X			X
ICV	1.00	10:00												X		X						X								X			X
ICB	1.00	10:04												X		X						X								X			X
LLC	1.00	10:08												X		X						X								X			X
ICSA	1.00	10:11												X		X						X								X			X
ICSAB	1.00	10:16												X		X						X								X			X
CCV	1.00	10:20												X		X						X								X			X
CCB	1.00	10:24												X		X						X								X			X
P19308EQ	1.00	10:28														X						X											X
P19308EY	1.00	10:32														X						X											X
6339377BKG	5.00	10:35												X																			
6339377A	5.00	10:39																															
6339380DUP	5.00	10:43												X																X			
6339378MS	5.00	10:47												X																X			
6339379MSD	5.00	10:51												X																X			
6339377L	25.00	10:55												X																			
6339368	5.00	10:59												X																			
6339369	5.00	11:03												X																			
CCV	1.00	11:07												X		X						X								X			X
CCB	1.00	11:11												X		X						X								X			X
6339370	5.00	11:14												X																			
6339371	5.00	11:18												X																			
6339372	5.00	11:22												X																			
6339373	5.00	11:26												X																			
6339374	5.00	11:30												X																			
6339375	5.00	11:34												X																			
6339376	5.00	11:38												X																			
6339385	5.00	11:42												X																X			
6339386	5.00	11:46												X																			
6339387	5.00	11:50												X																			
CCV	1.00	11:53												X		X						X								X			X
CCB	1.00	11:57												X		X						X								X			X
ZZZZZZ	1.00	12:01																															
ZZZZZZ	1.00	12:06																															
LLC	1.00	12:10												X		X						X								X			X

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
A = Post Digest Spike
L = Serial Dilution
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

USF03 2442

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: P
Instrument ID: 11016
Run Name: 1120304T70

Run Start Date: 07/22/2011
Run End Date: 07/22/2011

Lab Sample ID	D/F	Time	Analytes																												
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
ICSA	1.00	12:14												X		X						X								X			X
ICSAB	1.00	12:18												X		X						X								X			X
CCV	1.00	12:23												X		X						X								X			X
CCB	1.00	12:27												X		X						X								X			X

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
A = Post Digest Spike
L = Serial Dilution
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: MS
Instrument ID: 11332
Run Name: 1119505E03

Run Start Date: 07/14/2011
Run End Date: 07/14/2011

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	16:05							X																								
S	1.00	16:08							X																								
CCS	1.00	16:11							X																								
CCS	1.00	16:14							X																								
ICV	1.00	16:17							X																								
ICB	1.00	16:20							X																								
LLC	1.00	16:23							X																								
ICSA	1.00	16:26							X																								
ICSAB	1.00	16:29							X																								
CCV	1.00	16:32							X																								
CCB	1.00	16:35							X																								
P19326CB	2.00	16:38																															
P19326CQ	25.00	16:41																															
P19326CY	25.00	16:44																															
P19326CY	25.00	16:47																															
ZZZZZZ	2.00	16:50																															
ZZZZZZ	2.00	16:53																															
ZZZZZZ	2.00	16:56																															
ZZZZZZ	2.00	17:00																															
ZZZZZZ	2.00	17:03																															
ZZZZZZ	10.00	17:07																															
CCV	1.00	17:10							X																								
CCB	1.00	17:13							X																								
ZZZZZZ	2.00	17:16																															
ZZZZZZ	2.00	17:19																															
ZZZZZZ	2.00	17:22																															
6339371	2.00	17:25							X																								
ZZZZZZ	2.00	17:28																															
ZZZZZZ	2.00	17:31																															
ZZZZZZ	2.00	17:34																															
ZZZZZZ	2.00	17:37																															
ZZZZZZ	2.00	17:40																															
ZZZZZZ	2.00	17:43																															
CCV	1.00	17:46							X																								
CCB	1.00	17:49							X																								
6339386	2.00	17:52							X																								
ZZZZZZ	2.00	17:55																															
ZZZZZZ	2.00	17:58																															

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

USF03 2444

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: MS
Instrument ID: 11332
Run Name: 1119505E03

Run Start Date: 07/14/2011
Run End Date: 07/14/2011

Lab Sample ID	D/F	Time	Analytes																												
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
LLC	1.00	18:01							X																							
ICSA	1.00	18:04							X																							
ICSAB	1.00	18:07							X																							
CCV	1.00	18:10							X																							
CCB	1.00	18:13							X																							

METHODS:	LEGEND:
P = ICP Atomic Emission Spectrometer	BKG = Background
MS = ICP Mass Spectrometry	DUP = Duplicate
CV = Cold Vapor	MS = Matrix Spike
AF = Cold Vapor Atomic Fluorescence	MSD = Matrix Spike Duplicate
	A = Post Digest Spike
	L = Serial Dilution
	B = Blank
	Q = Laboratory Control Sample
	Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: MS
Instrument ID: 11332
Run Name: 1120308E03

Run Start Date: 07/22/2011
Run End Date: 07/23/2011

Lab Sample ID	D/F	Time	Analytes																														
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	MG	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	22:03		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
S	1.00	22:06		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
CCS	1.00	22:09		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
CCS	1.00	22:12		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
ICV	1.00	22:15		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
ICB	1.00	22:19		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
LLC	1.00	22:22		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
ICSA	1.00	22:25		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
ICSAB	1.00	22:29		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
CCV	1.00	22:32		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
CCB	1.00	22:35		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
P19326CB	2.00	22:38		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339384	2.00	22:41		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
P19326CQ	25.00	22:44		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
P19326CY	25.00	22:47		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339377BKG	2.00	22:51		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339377A	2.00	22:54		X							X																							
6339380DUP	2.00	22:57		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339378MS	2.00	23:00		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339379MSD	2.00	23:03		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339377L	10.00	23:06		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
CCV	1.00	23:09		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
CCB	1.00	23:12		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339368	2.00	23:15		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339369	2.00	23:18		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339370	2.00	23:21		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339371	2.00	23:25		X	X	X	X				X	X			X						X	X			X	X			X			X		
6339372	2.00	23:28		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339373	2.00	23:31		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339374	2.00	23:34		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339375	2.00	23:37		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339376	2.00	23:40		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339385	2.00	23:43		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
CCV	1.00	23:46		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
CCB	1.00	23:49		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
6339386	2.00	23:52		X	X	X	X				X	X			X						X	X			X	X			X			X		
6339387	2.00	23:55		X	X	X	X		X		X	X			X						X	X			X	X			X			X		
LLC	1.00	23:59		X	X	X	X		X		X	X			X						X	X			X	X			X			X		

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: MS
Instrument ID: 11332
Run Name: 1120308E03

Run Start Date: 07/22/2011
Run End Date: 07/23/2011

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
ICSA	1.00	00:02		X	X	X	X		X		X	X			X					X	X			X	X			X			X		
ICSAB	1.00	00:05		X	X	X	X		X		X	X			X					X	X			X	X			X			X		
CCV	1.00	00:08		X	X	X	X		X		X	X			X					X	X			X	X			X			X		
CCB	1.00	00:11		X	X	X	X		X		X	X			X					X	X			X	X			X			X		

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: MS
Instrument ID: 11332
Run Name: 1120703E03

Run Start Date: 07/26/2011
Run End Date: 07/26/2011

Lab Sample ID	D/F	Time	Analytes																														
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	NG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	06:22											X																			X	
S	1.00	06:24											X																			X	
LRS	1.00	06:26											X																			X	
CCS	1.00	06:27											X																			X	
ICV	1.00	06:29											X																			X	
ICB	1.00	06:31											X																			X	
LLC	1.00	06:33											X																			X	
ICSA	1.00	06:35											X																			X	
ICSAB	1.00	06:37											X																			X	
CCV	1.00	06:38											X																			X	
CCB	1.00	06:40											X																			X	
P20426BB	2.00	06:42											X																			X	
6339384	2.00	06:44											X																			X	
P20426BQ	25.00	06:46											X																			X	
P20426BY	25.00	06:48											X																			X	
ZZZZZZ	1.00	06:50																															
6339377A	2.00	06:51																															
6339380DUP	2.00	06:53											X																			X	
6339378MS	2.00	06:55											X																			X	
6339379MSD	2.00	06:57											X																			X	
ZZZZZZ	10.00	06:59																															
CCV	1.00	07:01											X																			X	
CCB	1.00	07:03											X																			X	
6339368	2.00	07:05											X																			X	
6339369	2.00	07:07											X																			X	
6339370	2.00	07:08											X																			X	
6339371	2.00	07:10											X																			X	
6339372	2.00	07:12											X																			X	
ZZZZZZ	1.00	07:14																															
6339374	2.00	07:16											X																			X	
6339375	2.00	07:18											X																			X	
6339376	2.00	07:20											X																			X	
6339385	2.00	07:22											X																			X	
CCV	1.00	07:23											X																			X	
CCB	1.00	07:25											X																			X	
6339386	2.00	07:27											X																			X	
6339387	2.00	07:29											X																			X	
6339377BKG	2.00	07:31											X																			X	

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
A = Post Digest Spike
L = Serial Dilution
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

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Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: MS
Instrument ID: 11332
Run Name: 1120703E03

Run Start Date: 07/26/2011
Run End Date: 07/26/2011

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
6339373	2.00	07:33											X																			X	
LLC	1.00	07:35											X																			X	
ICSA	1.00	07:36											X																			X	
ICSAB	1.00	07:38											X																			X	
CCV	1.00	07:40											X																			X	
CCB	1.00	07:42											X																			X	

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
A = Post Digest Spike
L = Serial Dilution
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: MS
Instrument ID: 11332
Run Name: 1120805E03

Run Start Date: 07/27/2011
Run End Date: 07/27/2011

Lab Sample ID	D/F	Time	Analytes																														
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	07:33											X																			X	
S	1.00	07:35											X																			X	
LRS	1.00	07:36											X																			X	
CCS	1.00	07:38											X																			X	
ICV	1.00	07:40											X																			X	
ICB	1.00	07:42											X																			X	
LLC	1.00	07:44											X																			X	
ICSA	1.00	07:46											X																			X	
ICSAB	1.00	07:48											X																			X	
CCV	1.00	07:49											X																			X	
CCB	1.00	07:51											X																			X	
ZZZZZZ	2.00	07:53																															
ZZZZZZ	25.00	07:56																															
ZZZZZZ	2.00	07:58																															
ZZZZZZ	2.00	08:00																															
ZZZZZZ	2.00	08:01																															
ZZZZZZ	2.00	08:03																															
ZZZZZZ	2.00	08:05																															
ZZZZZZ	10.00	08:07																															
CCV	1.00	08:09											X																			X	
CCB	1.00	08:11											X																			X	
ZZZZZZ	2.00	08:12																															
ZZZZZZ	2.00	08:14																															
ZZZZZZ	2.00	08:16																															
ZZZZZZ	2.00	08:18																															
ZZZZZZ	2.00	08:20																															
ZZZZZZ	2.00	08:22																															
ZZZZZZ	2.00	08:23																															
ZZZZZZ	2.00	08:25																															
ZZZZZZ	2.00	08:27																															
ZZZZZZ	5.00	08:29																															
CCV	1.00	08:31											X																			X	
CCB	1.00	08:33											X																			X	
ZZZZZZ	2.00	08:35																															
ZZZZZZ	2.00	08:36																															
ZZZZZZ	2.00	08:38																															
6339377L	10.00	08:40											X																			X	
LLC	1.00	08:42											X																			X	

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

USF03 2458

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: MS
Instrument ID: 11332
Run Name: 1120805E03

Run Start Date: 07/27/2011
Run End Date: 07/27/2011

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
ICSA	1.00	08:44											X																			X	
ICSAB	1.00	08:46											X																			X	
CCV	1.00	08:48											X																			X	
CCB	1.00	08:49											X																			X	

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
A = Post Digest Spike
L = Serial Dilution
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: USF03

Method: CV
Instrument ID: 62347
Run Name: 1119403M06

Run Start Date: 07/13/2011
Run End Date: 07/13/2011

Lab Sample ID	D/F	Time	Analytes																												
			AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	LI	MG	MN	HG	MO	NI	P	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	ZR
S0	1.00	17:39																	X														
S0.2	1.00	17:40																	X														
S0.5	1.00	17:42																	X														
S1.0	1.00	17:43																	X														
S2.5	1.00	17:44																	X														
S5.0	1.00	17:45																	X														
ICV	1.00	17:47																	X														
ICB	1.00	17:48																	X														
CRA	1.00	17:49																	X														
CCV	1.00	17:51																	X														
CCB	1.00	17:52																	X														
P19311DB	1.00	17:53																	X														
P19311DQ	40.00	17:54																	X														
P19311DY	40.00	17:55																	X														
6339368	1.00	17:57																	X														
6339369	1.00	17:58																	X														
6339370	1.00	17:59																	X														
6339371	1.00	18:01																	X														
6339372	1.00	18:02																	X														
6339373	1.00	18:03																	X														
6339374	1.00	18:04																	X														
CCV	1.00	18:05																	X														
CCB	1.00	18:06																	X														
6339375	1.00	18:08																	X														
6339376	1.00	18:09																	X														
6339377BKG	1.00	18:10																	X														
6339380DUP	1.00	18:11																	X														
6339378MS	1.00	18:12																	X														
6339379MSD	1.00	18:14																	X														
6339384	1.00	18:15																	X														
6339385	1.00	18:16																	X														
6339386	1.00	18:17																	X														
6339387	1.00	18:18																	X														
CCV	1.00	18:19																	X														
CCB	1.00	18:20																	X														
6339377A	1.00	18:21																															
CCV	1.00	18:23																	X														
CCB	1.00	18:24																	X														

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 15
ICP-MS TUNE
SDG No.: USF03
Matrix: SOIL

Instrument ID: 11332
Date: 07/14/2011

Analyte	Mass	Avg. Measured Mass (amu)	Avg. Peak Width at 5% Peak Height (amu)	%RSD
Lithium	6.000	6.10	0.65	1.7
Lithium	6.000	6.10	0.65	1.7
Magnesium	24.000	24.05	0.65	1.7
Magnesium	24.000	24.05	0.65	1.7
Rhodium	103.000	102.95	0.60	1.8
Rhodium	103.000	102.95	0.60	1.8
Indium	115.000	114.95	0.60	1.0
Indium	115.000	114.95	0.60	1.0
Cerium	140.000	139.95	0.60	2.3
Cerium	140.000	139.95	0.60	2.3
Lead	208.000	208.00	0.65	1.2
Lead	208.000	208.00	0.65	1.2
Uranium	238.000	238.05	0.70	0.6
Uranium	238.000	238.05	0.70	0.6

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 15
ICP-MS TUNE
SDG No.: USF03
Matrix: SOIL

Instrument ID: 11332
Date: 07/22/2011

Analyte	Mass	Avg. Measured Mass (amu)	Avg. Peak Width at 5% Peak Height (amu)	%RSD
Lithium	6.000	6.10	0.65	3.1
Magnesium	24.000	24.05	0.65	2.2
Rhodium	103.000	103.05	0.65	1.4
Indium	115.000	115.05	0.65	1.9
Cerium	140.000	140.05	0.65	1.4
Lead	208.000	208.00	0.65	2.3
Uranium	238.000	237.95	0.60	1.9

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 15
ICP-MS TUNE
SDG No.: USF03
Matrix: SOIL

Instrument ID: 11332
Date: 07/26/2011

Analyte	Mass	Avg. Measured Mass (amu)	Avg. Peak Width at 5% Peak Height (amu)	%RSD
Lithium	6.000	6.10	0.65	1.7
Magnesium	24.000	24.05	0.65	2.4
Rhodium	103.000	103.05	0.65	2.0
Indium	115.000	115.05	0.65	1.8
Cerium	140.000	140.05	0.65	1.7
Lead	208.000	208.00	0.65	2.2
Uranium	238.000	237.95	0.60	2.1

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 15
ICP-MS TUNE
SDG No.: USF03
Matrix: SOIL

Instrument ID: 11332
Date: 07/27/2011

Analyte	Mass	Avg. Measured Mass (amu)	Avg. Peak Width at 5% Peak Height (amu)	%RSD
Lithium	6.000	6.10	0.65	1.7
Magnesium	24.000	24.00	0.65	1.9
Rhodium	103.000	103.05	0.65	1.2
Indium	115.000	115.05	0.65	0.9
Cerium	140.000	140.05	0.65	1.5
Lead	208.000	208.00	0.60	1.6
Uranium	238.000	237.95	0.60	0.6

Comments:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: USF03

Instrument ID: 11332 Start Date: 07/14/2011
Run Name: 1119505E03 End Date: 07/14/2011

Lab Sample ID	Time	Internal Standards %RI For: Element IN-2-115	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	16:05	100													
S	16:08	93													
CCS	16:11	99													
CCS	16:14	97													
ICV	16:17	93													
ICB	16:20	97													
LLC	16:23	98													
ICSA	16:26	96													
ICSAB	16:29	96													
CCV	16:32	99													
CCB	16:35	99													
P19326CB	16:38	97													
P19326CQ	16:41	86													
P19326CY	16:44	97													
P19326CY	16:47	96													
ZZZZZZ	16:50														
ZZZZZZ	16:53														
ZZZZZZ	16:56														
ZZZZZZ	17:00														
ZZZZZZ	17:03														
ZZZZZZ	17:07														
CCV	17:10	92													
CCB	17:13	90													
ZZZZZZ	17:16														
ZZZZZZ	17:19														
ZZZZZZ	17:22														
6339371	17:25	87													
ZZZZZZ	17:28														
ZZZZZZ	17:31														
ZZZZZZ	17:34														
ZZZZZZ	17:37														
ZZZZZZ	17:40														
ZZZZZZ	17:43														
CCV	17:46	89													
CCB	17:49	92													
6339386	17:52	92													
ZZZZZZ	17:55														
ZZZZZZ	17:58														

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

FLAG:
- R = Internal Standard Relative Intensity OOS

INTERNAL STANDARD ELEMENTS
- BE = Beryllium
- BI = Bismuth
- GE = Germanium
- HO = Holmium
- IN = Indium
- LI = Lithium
- SC = Scandium
- TB = Terbium
- Y = Yttrium

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: USF03

Instrument ID: 11332 Start Date: 07/14/2011
Run Name: 1119505E03 End Date: 07/14/2011

Lab Sample ID	Time	Internal Standards %RI For: Element IN-2-115	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
LLC	18:01	91													
ICSA	18:04	89													
ICSAB	18:07	92													
CCV	18:10	95													
CCB	18:13	97													

LEGEND:
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QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: USF03

Instrument ID: 11332 Start Date: 07/22/2011
Run Name: 1120308E03 End Date: 07/23/2011

Lab Sample ID	Time	Internal Standards %RI For: Element SC-2-45	Q	Element SC-3-45	Q	Element IN-1-115	Q	Element IN-2-115	Q	Element BI-2-209	Q	Element	Q	Element	Q
S0	22:03	100		100		100		100		100					
S	22:06	96		99		98		96		101					
CCS	22:09	98		100		98		98		101					
CCS	22:12	98		99		99		98		99					
ICV	22:15	96		100		102		98		99					
ICB	22:19	98		101		99		98		100					
LLC	22:22	103		102		103		102		103					
ICSA	22:25	99		99		101		100		100					
ICSAB	22:29	97		99		100		98		100					
CCV	22:32	98		101		100		100		99					
CCB	22:35	97		96		100		99		99					
P19326CB	22:38	95		94		97		96		102					
6339384	22:41	93		94		98		95		100					
P19326CQ	22:44	99		98		102		97		101					
P19326CY	22:47	99		100		100		98		102					
6339377BKG	22:51	103		106		93		90		96					
6339377A	22:54	102		106		93		88		95					
6339380DUP	22:57	102		106		91		87		92					
6339378MS	23:00	104		104		92		90		94					
6339379MSD	23:03	102		106		91		87		93					
6339377L	23:06	96		97		94		91		94					
CCV	23:09	94		97		98		94		96					
CCB	23:12	94		95		96		94		95					
6339368	23:15	107		109		92		88		92					
6339369	23:18	104		107		90		87		93					
6339370	23:21	101		104		91		86		92					
6339371	23:25	102		105		90		86		91					
6339372	23:28	103		105		90		87		92					
6339373	23:31	109		110		92		89		91					
6339374	23:34	104		107		89		88		92					
6339375	23:37	101		104		90		87		92					
6339376	23:40	101		103		90		86		90					
6339385	23:43	100		104		91		88		93					
CCV	23:46	94		93		96		94		93					
CCB	23:49	94		94		97		94		95					
6339386	23:52	103		107		89		87		93					
6339387	23:55	103		105		89		88		92					
LLC	23:59	93		93		97		94		92					

LEGEND:
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Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: USF03

Instrument ID: 11332 Start Date: 07/22/2011
Run Name: 1120308E03 End Date: 07/23/2011

Lab Sample ID	Time	Internal Standards %RI For: Element SC-2-45	Q	Element SC-3-45	Q	Element IN-1-115	Q	Element IN-2-115	Q	Element BI-2-209	Q	Element	Q	Element	Q
ICSA	00:02	92		95		95		94		96					
ICSAB	00:05	91		94		97		94		95					
CCV	00:08	93		95		99		94		96					
CCB	00:11	91		92		96		95		95					

LEGEND:
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Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: USF03

Instrument ID: 11332 Start Date: 07/26/2011
Run Name: 1120703E03 End Date: 07/26/2011

Lab Sample ID	Time	Internal Standards %RI For: Element IN-1-115	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	06:22	100													
S	06:24	98													
LRS	06:26	89													
CCS	06:27	97													
ICV	06:29	96													
ICB	06:31	96													
LLC	06:33	97													
ICSA	06:35	96													
ICSAB	06:37	97													
CCV	06:38	94													
CCB	06:40	96													
P20426BB	06:42	102													
6339384	06:44	93													
P20426BQ	06:46	94													
P20426BY	06:48	96													
ZZZZZZ	06:50														
6339377A	06:51	95													
6339380DUP	06:53	84													
6339378MS	06:55	109													
6339379MSD	06:57	105													
ZZZZZZ	06:59														
CCV	07:01	94													
CCB	07:03	101													
6339368	07:05	91													
6339369	07:07	105													
6339370	07:08	77													
6339371	07:10	94													
6339372	07:12	95													
ZZZZZZ	07:14														
6339374	07:16	92													
6339375	07:18	85													
6339376	07:20	86													
6339385	07:22	85													
CCV	07:23	97													
CCB	07:25	100													
6339386	07:27	86													
6339387	07:29	83													
6339377BKG	07:31	88													

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
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USF03 1461

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QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: USF03

Instrument ID: 11332 Start Date: 07/26/2011
Run Name: 1120703E03 End Date: 07/26/2011

Lab Sample ID	Time	Internal Standards %RI For: Element IN-1-115	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
6339373	07:33	89													
LLC	07:35	95													
ICSA	07:36	95													
ICSAB	07:38	97													
CCV	07:40	95													
CCB	07:42	97													

LEGEND:	INTERNAL STANDARD ELEMENTS
BKG = Background	BE = Beryllium
DUP = Duplicate	BI = Bismuth
MS = Matrix Spike	GE = Germanium
MSD = Matrix Spike Duplicate	HO = Holmium
A = Post Digest Spike	IN = Indium
L = Serial Dilution	LI = Lithium
B = Blank	SC = Scandium
Q = Laboratory Control Sample	TB = Terbium
Y = Laboratory Control Sample Duplicate	Y = Yttrium
FLAG:	
R = Internal Standard Relative Intensity OOS	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: USF03

Instrument ID: 11332 Start Date: 07/27/2011
Run Name: 1120805E03 End Date: 07/27/2011

Lab Sample ID	Time	Internal Standards %RI For: Element IN-1-115	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	07:33	100													
S	07:35	95													
LRS	07:36	90													
CCS	07:38	99													
ICV	07:40	94													
ICB	07:42	98													
LLC	07:44	100													
ICSA	07:46	98													
ICSAB	07:48	95													
CCV	07:49	97													
CCB	07:51	99													
ZZZZZZ	07:53														
ZZZZZZ	07:56														
ZZZZZZ	07:58														
ZZZZZZ	08:00														
ZZZZZZ	08:01														
ZZZZZZ	08:03														
ZZZZZZ	08:05														
ZZZZZZ	08:07														
CCV	08:09	98													
CCB	08:11	100													
ZZZZZZ	08:12														
ZZZZZZ	08:14														
ZZZZZZ	08:16														
ZZZZZZ	08:18														
ZZZZZZ	08:20														
ZZZZZZ	08:22														
ZZZZZZ	08:23														
ZZZZZZ	08:25														
ZZZZZZ	08:27														
ZZZZZZ	08:29														
CCV	08:31	97													
CCB	08:33	101													
ZZZZZZ	08:35														
ZZZZZZ	08:36														
ZZZZZZ	08:38														
6339377L	08:40	97													
LLC	08:42	99													

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Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: USF03

Instrument ID: 11332 Start Date: 07/27/2011
Run Name: 1120805E03 End Date: 07/27/2011

Lab Sample ID	Time	Internal Standards %RI For: Element IN-1-115	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
ICSA	08:44	97													
ICSAB	08:46	98													
CCV	08:48	97													
CCB	08:49	99													

LEGEND:
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- Y = Yttrium

Raw Data

ICP Data

Lancaster Laboratories

ICP-AES Run Data Report

1120205T70

Reviewed By
John W Yanzuk

Reviewed Date
07/21/2011 10:50PM

Data File Name 1120205T70.TXT
Run Name: 1120205T70

Verified By:
Deborah A Krady

Verified Date
07/22/2011 12:50PM

Method Reference Name(s):
SW-846 6010B

Analyst Employee: 2340

Instrument Parameters:

Individual Integration Time: 10.00 sec Total Integration Time: 30.00 sec

Element	Analyte Name	Wavelength Value
AG	Silver	328.06
AL	Aluminum	308.21
AS	Arsenic	189.04
AU	Gold	242.80
B	Boron	249.67
BA	Barium	455.40
BE	Beryllium	313.04
CA	Calcium	317.93
CD	Cadmium	226.50
CO	Cobalt	228.62
CR	Chromium	267.72
CU	Copper	327.40
FE	Iron	261.19
K	Potassium	766.49
LI	Lithium	670.78
MG	Magnesium	285.21
MN	Manganese	257.61
MO	Molybdenum	202.03
NA	Sodium	589.59
NI	Nickel	231.60
P	Phosphorus	177.49
PB	Lead	220.35
SB	Antimony	206.83
SE	Selenium	196.09
SI	Silicon	251.60
SN	Tin	189.99
SR	Strontium	421.55
TI	Titanium	334.94
TL	Thallium	190.86
V	Vanadium	292.40
Y1	Yttrium	224.31
Y2	Yttrium	371.03
ZN	Zinc	213.86
ZR	Zirconium	339.19

The TRACE ICP utilizes Yttrium as an internal standard to compensate for fluctuations in nebulization and plasma conditions. All Yttrium readings are expressed in counts.

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 1

Date/Time: 07/21/2011 19:42

Sample Number: **S0**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	0.000	0.00057	57.915	0.00042	0.00034	0.00095
AL	0.000	0.01073	2.710	0.01060	0.01054	0.01107
AS	0.000	0.00328	26.070	0.00295	0.00265	0.00426
B	0.000	0.00008	2.884	0.00008	0.00008	0.00009
BA	0.000	0.00017	10.728	0.00015	0.00016	0.00019
BE	0.000	-0.02399	1.958	-0.02345	-0.02419	-0.02432
CA	0.000	0.00704	4.582	0.00740	0.00695	0.00678
CD	0.000	0.00319	51.880	0.00487	0.00314	0.00156
CO	0.000	-0.00873	12.673	-0.00975	-0.00889	-0.00755
CR	0.000	0.00000	615.811	0.00000	0.00000	0.00000
CU	0.000	0.00668	9.658	0.00673	0.00601	0.00729
FE	0.000	0.00000	581.383	0.00001	0.00000	-0.00001
K	0.000	0.19298	9.915	0.21364	0.18942	0.17588
LI	0.000	0.00065	123.166	0.00087	0.00132	-0.00024
MG	0.000	0.00001	2451.780	0.00008	-0.00014	0.00008
MN	0.000	0.00072	26.227	0.00060	0.00094	0.00062
MO	0.000	0.01501	11.981	0.01461	0.01345	0.01698
NA	0.000	0.00805	7.647	0.00854	0.00736	0.00825
NI	0.000	0.06727	3.054	0.06597	0.06621	0.06964
P	0.000	-0.00020	14.398	-0.00024	-0.00020	-0.00018
PB	0.000	0.02538	15.890	0.02121	0.02567	0.02926
SB	0.000	0.00021	19.329	0.00018	0.00021	0.00026
SE	0.000	0.00587	38.916	0.00615	0.00346	0.00800
SI	0.000	0.00048	6.519	0.00051	0.00049	0.00045
SN	0.000	0.00479	14.387	0.00501	0.00535	0.00402
SR	0.000	0.00004	52.373	0.00007	0.00002	0.00004
TI	0.000	0.00341	10.936	0.00312	0.00327	0.00383
TL	0.000	-0.02325	21.405	-0.02088	-0.02897	-0.01991
V	0.000	-0.00087	24.085	-0.00068	-0.00109	-0.00082
Y1	0.000	14620.12295	0.118	14629.02507	14631.17313	14600.17066
Y2A	0.000	704310.84551	0.196	703215.23904	705860.59097	703856.70651
Y2R	0.000	22170.69550	0.637	22186.42075	22303.35366	22022.31210
ZN	0.000	0.05784	7.883	0.06053	0.06042	0.05258
ZR	0.000	-0.00018	39.201	-0.00013	-0.00015	-0.00026

USTB3 2450

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 2

Date/Time: 07/21/2011 19:46

Sample Number: **S1**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AL	50.000	8.36889	0.499	8.36910	8.41057	8.32699
CA	50.000	1.40733	0.360	1.40247	1.41258	1.40694
FE	50.000	0.61564	0.336	0.61785	0.61375	0.61532
K	50.000	42.36784	0.190	42.28510	42.37298	42.44545
MG	50.000	2.53459	0.064	2.53604	2.53284	2.53491
NA	50.000	2.22317	0.205	2.22823	2.21940	2.22187
SI	50.000	0.27281	0.453	0.27418	0.27179	0.27246
Y2A	50.000	678221.55348	0.258	676521.38354	678131.97211	680011.30478
Y2R	50.000	21917.95142	0.163	21947.72557	21878.19890	21927.92979

USP83 2469

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 3

Date/Time: 07/21/2011 19:49

Sample Number: **S2**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	1.000	1.87698	0.773	1.89372	1.86892	1.86829
AS	1.000	1.26520	0.262	1.26168	1.26566	1.26827
B	1.000	0.01743	0.812	0.01759	0.01737	0.01733
BA	1.000	0.83355	0.872	0.84193	0.82897	0.82975
BE	1.000	66.68055	0.804	67.24815	66.18317	66.61032
CD	1.000	78.87763	0.031	78.90356	78.87502	78.85431
CO	1.000	14.85126	0.130	14.85274	14.86976	14.83127
CU	1.000	1.22176	0.872	1.23374	1.21816	1.21337
LI	1.000	0.38757	0.346	0.38860	0.38805	0.38605
MN	1.000	7.87181	0.725	7.93584	7.82641	7.85319
NI	1.000	6.44095	0.231	6.44486	6.45349	6.42451
P	1.000	0.04400	0.116	0.04406	0.04398	0.04397
PB	1.000	5.53344	0.152	5.53744	5.53910	5.52379
SE	1.000	1.25983	0.392	1.26359	1.25424	1.26165
SR	1.000	1.13416	0.888	1.14463	1.12455	1.13330
TL	1.000	2.91657	0.152	2.91494	2.92159	2.91319
Y1	1.000	14055.06914	0.202	14075.70516	14022.64626	14066.85601
Y2A	1.000	685025.60611	0.484	681337.75713	687765.20584	685973.85534
Y2R	1.000	22010.31514	0.436	21899.63153	22060.46396	22070.84993
ZN	1.000	70.12601	0.113	70.20613	70.12481	70.04707

U3F53 2478

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 4

Date/Time: 07/21/2011 19:53

Sample Number: **S3**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
CR	1.000	0.02701	0.017	0.02701	0.02701	0.02702
MO	1.000	17.84752	0.039	17.84021	17.85398	17.84837
SB	1.000	0.05650	0.111	0.05652	0.05655	0.05643
SN	1.000	2.24731	0.222	2.24924	2.24164	2.25104
TI	1.000	6.48803	0.577	6.52701	6.48468	6.45240
V	1.000	1.23677	0.318	1.24091	1.23635	1.23306
Y1	1.000	14388.58405	0.068	14399.94384	14383.06274	14382.74556
Y2A	1.000	701720.13884	0.340	701157.51992	699665.15604	704337.74054
Y2R	1.000	21842.86558	0.182	21859.94637	21797.43031	21871.22006
ZR	1.000	0.04264	0.652	0.04292	0.04264	0.04237

USP83 2471

LANCASTER LABORATORIES

Run Name: 1120205T70

Tube: 5

Sample Number: **ICV**

Instrument ID: 11016

Date/Time: 07/21/2011 19:57

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.60651	15,308.87	1.327	0.61224	0.59731	0.60997
AL	29.54617	67,406.14	1.631	29.94167	29.00933	29.68751
AS	0.59600	211.66	0.676	0.60021	0.59562	0.59218
B	0.58261	7,158.06	1.509	0.58943	0.57268	0.58570
BA	0.60890	344,038.07	1.996	0.62069	0.59641	0.60962
BE	0.59271	535,590.31	1.525	0.59517	0.58270	0.60027
CA	30.63164	18,793.81	0.337	30.53172	30.62532	30.73789
CD	0.59661	13,206.20	0.094	0.59644	0.59723	0.59614
CO	0.59468	2,471.13	0.082	0.59465	0.59518	0.59421
CR	0.58938	10,785.64	1.426	0.59448	0.57968	0.59397
CU	0.60262	10,011.35	1.434	0.61088	0.59363	0.60334
FE	30.74835	260,054.42	1.413	30.97323	30.24739	31.02443
K	30.10291	11,096.39	0.501	29.92885	30.18948	30.19038
LI	0.59548	5,011.62	0.469	0.59239	0.59625	0.59781
MG	29.83468	32,926.47	0.436	29.69034	29.94234	29.87135
MN	0.59730	63,738.27	1.348	0.60236	0.58801	0.60151
MO	0.59659	2,976.87	0.151	0.59653	0.59573	0.59753
NA	29.51319	28,527.53	0.576	29.32509	29.65541	29.55907
NI	0.60379	1,094.74	0.213	0.60238	0.60412	0.60489
P	0.60275	369.75	0.061	0.60243	0.60268	0.60315
PB	0.59566	931.57	0.086	0.59511	0.59573	0.59613
SB	0.62109	491.11	0.329	0.62344	0.62007	0.61976
SE	0.59938	214.02	0.318	0.60156	0.59803	0.59854
SI	-0.04931	4.68	11.790	-0.05576	-0.04770	-0.04447
SN	0.58778	369.64	0.057	0.58761	0.58757	0.58816
SR	0.59480	457,209.98	1.671	0.60035	0.58332	0.60072
TI	0.60240	53,239.14	1.285	0.60811	0.59359	0.60550
TL	0.60052	485.43	0.229	0.60143	0.59893	0.60119
V	0.59782	10,020.40	1.453	0.60279	0.58779	0.60289
Y1	13970.90097	13,970.90	0.095	13962.75122	13963.70241	13986.24930
Y2A	677857.60005	677,857.60	1.587	674124.80040	689987.35899	669460.64077
Y2R	21685.10039	21,685.10	0.346	21769.67899	21659.33134	21626.29085
ZN	0.58084	11,440.40	0.071	0.58074	0.58130	0.58050
ZR	0.60051	552.18	0.431	0.59783	0.60070	0.60299

USF03 2472

LANCASTER LABORATORIES

Run Name: 1120205T70

Tube: 6

Sample Number: **ICB**

Instrument ID: 11016

Date/Time: 07/21/2011 20:01

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00013	11.34	193.016	0.00032	0.00025	-0.00016
AL	-0.00031	150.45	862.150	-0.00311	0.00010	0.00210
AS	0.00071	1.20	86.660	0.00029	0.00042	0.00141
B	-0.00224	31.48	8.200	-0.00224	-0.00243	-0.00206
BA	0.00000	119.61	3564.800	0.00001	0.00000	-0.00001
BE	0.00005	-298.83	15.637	0.00004	0.00006	0.00006
CA	-0.00287	151.62	227.002	-0.01038	0.00087	0.00091
CD	0.00010	0.98	81.436	0.00017	0.00001	0.00011
CO	-0.00003	-1.88	535.466	-0.00009	-0.00016	0.00016
CR	0.00034	-5.22	43.141	0.00018	0.00039	0.00046
CU	-0.00065	82.85	53.302	-0.00096	-0.00028	-0.00071
FE	0.00221	11.91	10.426	0.00217	0.00245	0.00200
K	0.01792	90.64	229.239	0.03673	0.04620	-0.02919
LI	0.00179	29.20	41.619	0.00093	0.00228	0.00215
MG	0.00066	0.85	385.525	0.00347	0.00001	-0.00150
MN	0.00005	15.69	21.815	0.00004	0.00006	0.00006
MO	0.00047	6.72	30.963	0.00059	0.00051	0.00031
NA	-0.01215	163.49	56.025	-0.01931	-0.01138	-0.00576
NI	-0.00071	18.03	40.474	-0.00099	-0.00042	-0.00073
P	-0.00195	-3.32	22.326	-0.00152	-0.00194	-0.00239
PB	-0.00067	6.19	44.416	-0.00071	-0.00035	-0.00094
SB	0.00069	3.65	47.387	0.00101	0.00035	0.00071
SE	0.00148	2.22	165.333	0.00316	-0.00132	0.00259
SI	-0.06306	3.07	51.403	-0.07060	-0.02754	-0.09105
SN	-0.00100	0.74	67.104	-0.00051	-0.00176	-0.00072
SR	0.00001	38.53	136.843	0.00000	0.00003	0.00001
TI	-0.00006	42.90	70.749	-0.00003	-0.00010	-0.00004
TL	-0.00303	-6.51	7.392	-0.00285	-0.00328	-0.00297
V	0.00107	-9.37	41.579	0.00156	0.00070	0.00094
Y1	14368.22883	14,368.23	0.333	14398.71523	14392.85104	14313.12021
Y2A	703782.07171	703,782.07	0.710	707349.46879	705929.63147	698067.11487
Y2R	21774.93925	21,774.94	0.302	21843.63931	21768.49801	21712.68044
ZN	-0.00022	12.08	16.750	-0.00020	-0.00021	-0.00027
ZR	0.00552	-2.66	3.401	0.00530	0.00563	0.00563

USF63 2473

LANCASTER LABORATORIES

Run Name: 1120205T70

Tube: 7

Sample Number: LLC

Instrument ID: 11016

Date/Time: 07/21/2011 20:05

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00497	136.72	6.137	0.00517	0.00462	0.00513
AL	0.17703	566.10	2.032	0.17561	0.18112	0.17436
AS	0.01941	7.98	0.902	0.01920	0.01951	0.01951
B	0.04341	584.69	2.641	0.04337	0.04457	0.04228
BA	0.00504	3,044.25	1.366	0.00501	0.00512	0.00499
BE	0.00479	4,105.71	0.680	0.00478	0.00482	0.00476
CA	0.20387	278.05	3.591	0.20796	0.19542	0.20823
CD	0.00513	115.08	0.885	0.00517	0.00512	0.00508
CO	0.00496	19.46	5.748	0.00510	0.00515	0.00463
CR	0.01495	269.80	1.395	0.01481	0.01519	0.01484
CU	0.00916	247.92	1.337	0.00905	0.00913	0.00929
FE	0.20623	1,822.31	0.955	0.20542	0.20847	0.20479
K	0.49370	265.21	7.970	0.45523	0.53387	0.49198
LI	0.01952	178.44	6.781	0.02007	0.02047	0.01801
MG	0.10140	113.01	2.057	0.10139	0.09932	0.10349
MN	0.00508	566.63	0.804	0.00512	0.00508	0.00504
MO	0.00992	55.05	0.431	0.00997	0.00991	0.00989
NA	0.94751	1,088.13	1.810	0.96352	0.94962	0.92941
NI	0.01006	37.69	4.806	0.01013	0.00955	0.01051
P	0.09614	58.65	1.108	0.09678	0.09491	0.09673
PB	0.01449	30.15	2.045	0.01442	0.01423	0.01481
SB	0.02019	19.32	4.556	0.01914	0.02056	0.02087
SE	0.02007	8.91	4.532	0.02076	0.02042	0.01904
SI	-0.05716	3.77	9.759	-0.05454	-0.05338	-0.06357
SN	0.01927	13.77	1.724	0.01965	0.01906	0.01910
SR	0.00487	3,879.37	0.830	0.00487	0.00492	0.00484
TI	0.00977	932.48	0.775	0.00969	0.00981	0.00983
TL	0.02875	20.15	1.932	0.02880	0.02817	0.02927
V	0.00557	68.38	3.374	0.00541	0.00552	0.00577
Y1	14337.07298	14,337.07	0.227	14368.93632	14303.96136	14338.32126
Y2A	696465.47145	696,465.47	0.844	697664.85724	690079.31607	701652.24104
Y2R	21752.00062	21,752.00	0.638	21662.12840	21911.86345	21682.00999
ZN	0.01889	395.12	0.407	0.01883	0.01897	0.01886
ZR	0.05102	39.91	3.072	0.04966	0.05273	0.05067

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LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 8

Date/Time: 07/21/2011 20:09

Sample Number: **ICSA**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00095	-17.19	8.440	-0.00101	-0.00086	-0.00098
AL	561.59489	1,044,252.12	0.731	566.27180	559.91181	558.60105
AS	0.01447	8.96	2.538	0.01484	0.01448	0.01410
B	0.00467	1,602.55	17.516	0.00444	0.00400	0.00558
BA	0.00069	457.22	0.431	0.00069	0.00069	0.00069
BE	-0.00032	-569.25	3.314	-0.00032	-0.00034	-0.00032
CA	510.23924	281,666.56	1.132	510.81310	504.19838	515.70624
CD	0.00403	424.54	3.082	0.00407	0.00390	0.00414
CO	0.00249	7.84	24.313	0.00314	0.00194	0.00239
CR	0.00220	26.46	13.401	0.00193	0.00252	0.00216
CU	0.00006	83.07	1363.931	-0.00091	0.00064	0.00046
FE	202.56231	1,370,001.00	0.398	202.18247	203.48780	202.01665
K	-0.05303	61.38	61.592	-0.06324	-0.07938	-0.01649
LI	-0.00005	32.80	1329.712	0.00027	0.00188	-0.00230
MG	502.38184	480,449.73	1.082	507.45855	503.03673	496.65024
MN	0.00440	434.44	1.537	0.00434	0.00438	0.00447
MO	-0.00077	0.34	42.278	-0.00041	-0.00103	-0.00086
NA	0.06700	228.32	35.566	0.07237	0.08769	0.04095
NI	-0.00010	16.91	766.113	-0.00031	0.00074	-0.00074
P	0.00451	0.68	3.141	0.00446	0.00467	0.00440
PB	-0.01084	144.01	14.183	-0.01079	-0.00933	-0.01240
SB	0.00941	9.45	23.570	0.00698	0.00991	0.01133
SE	0.00408	16.97	28.637	0.00532	0.00299	0.00394
SI	-0.05629	3.68	24.455	-0.05575	-0.07032	-0.04280
SN	0.00012	1.29	915.381	0.00028	0.00113	-0.00105
SR	0.00328	2,310.48	1.217	0.00331	0.00329	0.00323
TI	-0.00091	-30.78	30.787	-0.00115	-0.00098	-0.00060
TL	0.01995	-3.72	17.013	0.02252	0.01610	0.02123
V	-0.00024	25.53	122.590	0.00009	-0.00035	-0.00046
Y1	12693.40151	12,693.40	0.099	12705.32351	12680.23057	12694.65044
Y2A	614969.83323	614,969.83	0.185	613799.48641	615041.62798	616068.38528
Y2R	20717.65329	20,717.65	0.758	20682.33425	20889.31331	20581.31231
ZN	0.00307	427.05	2.008	0.00310	0.00312	0.00300
ZR	-0.00772	-14.33	57.474	-0.01238	-0.00725	-0.00354

USP83 2475

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 9

Date/Time: 07/21/2011 20:13

Sample Number: **ICSAB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.21922	4,967.85	0.380	0.21846	0.21909	0.22011
AL	557.05293	1,036,408.38	0.287	555.48899	558.68269	556.98710
AS	0.11363	40.55	0.786	0.11329	0.11296	0.11465
B	0.00497	1,599.02	10.572	0.00530	0.00526	0.00437
BA	0.51162	262,204.41	0.561	0.51289	0.50833	0.51363
BE	0.49271	403,765.16	0.244	0.49281	0.49145	0.49385
CA	506.58392	281,250.44	0.392	505.35963	505.51807	508.87407
CD	0.93265	18,886.11	0.257	0.93433	0.93371	0.92991
CO	0.46623	1,744.63	0.409	0.46778	0.46682	0.46410
CR	0.47756	7,924.70	0.150	0.47684	0.47828	0.47757
CU	0.54018	8,151.23	0.449	0.53743	0.54200	0.54111
FE	202.20776	1,367,412.26	0.592	200.83992	202.72471	203.05864
K	0.00417	81.92	1548.095	0.07820	-0.02511	-0.04058
LI	0.00099	41.17	213.519	0.00222	0.00220	-0.00145
MG	494.29986	476,023.01	1.249	489.38928	501.23361	492.27670
MN	0.47724	46,191.20	0.586	0.47416	0.47794	0.47963
MO	-0.00101	-0.75	25.687	-0.00073	-0.00106	-0.00124
NA	0.04363	207.87	24.967	0.05554	0.03417	0.04117
NI	0.90513	1,471.35	0.383	0.90798	0.90614	0.90126
P	0.00543	1.88	26.795	0.00640	0.00613	0.00376
PB	0.03649	208.35	3.115	0.03625	0.03773	0.03550
SB	0.62766	451.63	1.261	0.62566	0.63639	0.62094
SE	0.05220	32.10	5.686	0.05121	0.05554	0.04985
SI	-0.00108	9.97	816.053	-0.00185	0.00812	-0.00952
SN	-0.00067	0.83	190.458	-0.00145	0.00080	-0.00136
SR	0.00332	2,339.41	1.004	0.00330	0.00336	0.00330
TI	-0.00013	119.57	127.216	-0.00007	-0.00001	-0.00033
TL	0.10967	63.38	0.039	0.10971	0.10968	0.10963
V	0.49515	7,569.70	0.344	0.49369	0.49702	0.49472
Y1	12603.41019	12,603.41	0.139	12600.83245	12587.27167	12622.12645
Y2A	614722.51355	614,722.51	0.424	617403.15615	614566.45129	612197.93320
Y2R	20826.69625	20,826.70	0.486	20939.23663	20797.37006	20743.48205
ZN	1.00819	18,155.07	0.342	1.01033	1.01004	1.00421
ZR	-0.00621	-13.05	38.956	-0.00371	-0.00855	-0.00638

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LANCASTER LABORATORIES

Run Name: 1120205T70

Tube: 10

Sample Number: **CCV**

Instrument ID: 11016

Date/Time: 07/21/2011 20:17

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.50090	12,574.52	0.986	0.49542	0.50226	0.50501
AL	24.32613	55,272.41	0.877	24.09669	24.36343	24.51827
AS	0.49360	172.44	0.332	0.49234	0.49300	0.49545
B	0.46931	5,750.71	0.832	0.46543	0.46925	0.47325
BA	0.50287	282,598.89	0.555	0.50104	0.50148	0.50608
BE	0.47814	429,608.10	1.515	0.47049	0.47904	0.48490
CA	25.26856	15,534.55	0.407	25.31529	25.15070	25.33970
CD	0.49406	10,748.61	0.123	0.49473	0.49354	0.49392
CO	0.49235	2,010.52	0.161	0.49316	0.49230	0.49158
CR	0.48946	8,906.10	0.828	0.48507	0.49024	0.49306
CU	0.50160	8,302.28	0.997	0.49611	0.50280	0.50590
FE	25.43427	214,715.39	0.810	25.22082	25.44996	25.63203
K	24.97065	9,216.17	0.492	24.89336	24.90623	25.11237
LI	0.49806	4,192.87	0.277	0.49681	0.49954	0.49783
MG	24.89933	27,498.40	0.509	24.84059	24.81271	25.04469
MN	0.49304	52,325.74	0.694	0.48930	0.49380	0.49601
MO	0.49462	2,426.43	0.071	0.49495	0.49466	0.49425
NA	24.59736	23,798.54	0.096	24.58403	24.58331	24.62473
NI	0.49997	894.12	0.234	0.50101	0.49870	0.50019
P	0.49850	300.22	0.419	0.50091	0.49739	0.49720
PB	0.49818	784.68	0.271	0.49890	0.49901	0.49662
SB	0.51898	403.84	0.898	0.51827	0.52396	0.51472
SE	0.49166	172.85	1.462	0.49423	0.49721	0.48354
SI	24.92577	2,953.52	0.792	24.91359	24.73484	25.12887
SN	0.48552	300.33	0.193	0.48636	0.48451	0.48568
SR	0.49689	379,853.78	1.342	0.48963	0.49827	0.50276
TI	0.49673	43,666.69	0.746	0.49302	0.49673	0.50043
TL	0.49800	395.02	0.293	0.49684	0.49964	0.49753
V	0.49537	8,253.06	0.780	0.49245	0.49390	0.49975
Y1	13731.36617	13,731.37	0.117	13749.66585	13719.53722	13724.89544
Y2A	674087.81687	674,087.82	1.258	682590.24552	674042.15000	665631.05508
Y2R	21679.12193	21,679.12	0.728	21804.69451	21730.57496	21502.09633
ZN	0.48341	9,360.24	0.128	0.48390	0.48361	0.48271
ZR	0.50138	459.63	1.049	0.50596	0.49564	0.50255

USF83 2477

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 11

Date/Time: 07/21/2011 20:21

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00023	1.62	38.389	-0.00016	-0.00021	-0.00033
AL	0.00579	159.99	30.984	0.00764	0.00405	0.00569
AS	0.00188	1.57	57.845	0.00314	0.00127	0.00124
B	-0.00279	24.02	30.716	-0.00195	-0.00366	-0.00278
BA	-0.00001	108.66	259.636	0.00000	0.00001	-0.00005
BE	0.00004	-299.29	17.011	0.00005	0.00004	0.00004
CA	0.00536	155.66	191.222	-0.00318	0.01673	0.00253
CD	0.00011	1.13	22.828	0.00009	0.00013	0.00010
CO	-0.00002	-1.76	650.702	0.00008	-0.00016	0.00002
CR	0.00051	-1.93	43.550	0.00076	0.00038	0.00038
CU	-0.00036	85.11	76.885	-0.00027	-0.00068	-0.00015
FE	0.00543	39.57	12.674	0.00570	0.00594	0.00464
K	0.02532	92.72	152.566	0.06890	0.01182	-0.00475
LI	0.00020	15.77	858.326	-0.00015	0.00205	-0.00131
MG	0.01087	12.14	13.508	0.01139	0.00921	0.01200
MN	0.00006	16.61	124.810	0.00012	-0.00003	0.00009
MO	0.00023	5.29	42.225	0.00027	0.00012	0.00030
NA	-0.01164	162.86	246.072	0.01655	-0.04071	-0.01076
NI	0.00002	18.66	3776.492	0.00048	-0.00090	0.00048
P	-0.00122	-2.76	121.765	-0.00084	-0.00286	0.00004
PB	-0.00080	5.77	122.557	-0.00189	0.00001	-0.00052
SB	0.00047	3.34	248.797	0.00176	0.00016	-0.00051
SE	-0.00063	1.40	229.656	0.00042	-0.00229	-0.00002
SI	-0.05741	3.72	9.827	-0.05134	-0.05838	-0.06250
SN	-0.00057	0.97	60.776	-0.00064	-0.00020	-0.00088
SR	0.00001	39.95	84.386	0.00002	0.00002	0.00000
TI	0.00002	47.98	446.142	-0.00007	0.00004	0.00008
TL	-0.00330	-6.49	9.682	-0.00320	-0.00366	-0.00305
V	0.00065	-16.19	29.298	0.00077	0.00075	0.00043
Y1	13843.92578	13,843.93	0.326	13870.94102	13869.01147	13791.82484
Y2A	682775.87981	682,775.88	0.370	681144.38911	685689.94024	681493.31009
Y2R	21633.31442	21,633.31	0.391	21570.88104	21729.69686	21599.36536
ZN	-0.00019	12.31	19.963	-0.00022	-0.00015	-0.00020
ZR	0.00274	-5.23	49.642	0.00407	0.00135	0.00280

USP63 2478

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 12 Date/Time: 07/21/2011 20:25

Sample Number: **PBS** Class: **** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 1.00 Protocol Symbol: B

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00010	10.36	128.502	0.00021	-0.00004	0.00014
AL	0.01958	193.89	12.647	0.01888	0.01753	0.02233
AS	-0.00067	0.67	195.929	-0.00136	-0.00149	0.00084
B	-0.00101	46.04	42.616	-0.00150	-0.00086	-0.00068
BA	0.00007	155.95	17.797	0.00008	0.00005	0.00007
BE	0.00002	-325.74	87.682	0.00002	0.00003	0.00000
CA	0.03593	176.57	15.066	0.03946	0.03863	0.02970
CD	0.00015	2.14	45.656	0.00010	0.00012	0.00023
CO	-0.00028	-2.81	80.743	-0.00054	-0.00015	-0.00014
CR	0.00062	0.04	47.356	0.00057	0.00035	0.00093
CU	0.00177	121.92	9.949	0.00178	0.00159	0.00195
FE	0.05047	436.29	0.850	0.05016	0.05028	0.05096
K	-0.06349	61.12	11.321	-0.07179	-0.05944	-0.05924
LI	0.00140	26.16	42.170	0.00074	0.00160	0.00188
MG	0.00526	6.02	34.845	0.00736	0.00397	0.00446
MN	0.00067	82.57	8.580	0.00064	0.00063	0.00073
MO	-0.00006	3.84	265.775	-0.00019	0.00012	-0.00012
NA	-0.00307	173.39	73.698	-0.00567	-0.00157	-0.00197
NI	0.00020	18.90	280.481	0.00031	-0.00040	0.00069
P	0.01297	5.87	4.763	0.01307	0.01352	0.01230
PB	-0.00057	6.11	140.625	-0.00109	0.00035	-0.00095
SB	0.00079	3.42	187.710	0.00207	0.00113	-0.00083
SE	-0.00011	1.58	616.328	0.00060	-0.00080	-0.00014
SI	-0.04770	4.92	41.725	-0.05310	-0.06434	-0.02565
SN	0.01615	11.31	1.069	0.01619	0.01596	0.01630
SR	0.00015	146.52	8.308	0.00014	0.00016	0.00014
TI	0.00020	65.21	43.111	0.00012	0.00030	0.00019
TL	-0.00280	-6.06	29.918	-0.00340	-0.00184	-0.00316
V	0.00066	-16.19	35.793	0.00093	0.00050	0.00055
Y1	13784.34035	13,784.34	0.142	13781.53952	13766.35845	13805.12308
Y2A	690410.46670	690,410.47	0.463	691488.23041	692931.72311	686811.44658
Y2R	21918.45138	21,918.45	0.259	21983.23588	21877.50125	21894.61702
ZN	0.00354	84.03	2.492	0.00351	0.00347	0.00364
ZR	0.00525	-2.93	39.451	0.00763	0.00405	0.00405

USTB3 2479

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 13 Date/Time: 07/21/2011 20:29

Sample Number: **6339384** Class: **** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 1.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00516	138.19	3.907	0.00518	0.00495	0.00535
AL	0.21308	635.41	2.956	0.20847	0.22026	0.21052
AS	0.01881	7.41	3.996	0.01822	0.01857	0.01966
B	0.04555	596.70	0.894	0.04516	0.04597	0.04553
BA	0.00526	3,096.26	0.977	0.00522	0.00532	0.00524
BE	0.00484	4,055.00	1.341	0.00478	0.00491	0.00483
CA	0.21222	294.61	2.629	0.21451	0.20586	0.21628
CD	0.00510	109.45	0.873	0.00516	0.00508	0.00508
CO	0.00497	18.61	4.908	0.00469	0.00515	0.00506
CR	0.01518	267.69	3.121	0.01475	0.01569	0.01510
CU	0.01079	269.19	3.091	0.01118	0.01057	0.01064
FE	0.25005	2,158.93	1.215	0.24711	0.25318	0.24985
K	0.45221	260.01	3.834	0.46789	0.43360	0.45513
LI	0.01891	180.31	6.196	0.02000	0.01767	0.01907
MG	0.10370	120.24	4.360	0.10857	0.09964	0.10288
MN	0.00562	611.17	1.655	0.00552	0.00570	0.00563
MO	0.00972	51.53	2.436	0.00966	0.00998	0.00951
NA	0.93662	1,121.22	1.858	0.95259	0.93922	0.91807
NI	0.01061	36.94	3.542	0.01098	0.01023	0.01062
P	0.11263	65.93	1.049	0.11252	0.11151	0.11386
PB	0.01475	29.20	5.610	0.01570	0.01418	0.01438
SB	0.02151	19.30	1.485	0.02162	0.02115	0.02177
SE	0.01993	8.46	4.572	0.02007	0.02076	0.01896
SI	-0.04500	5.42	8.313	-0.04795	-0.04079	-0.04627
SN	0.03576	23.26	3.932	0.03422	0.03698	0.03609
SR	0.00508	3,944.56	0.670	0.00508	0.00511	0.00504
TI	0.01023	950.78	2.386	0.01003	0.01050	0.01016
TL	0.02691	17.76	3.377	0.02704	0.02594	0.02774
V	0.00572	69.45	3.313	0.00593	0.00556	0.00567
Y1	13686.34566	13,686.35	0.239	13660.18027	13675.82589	13723.03083
Y2A	680142.32859	680,142.33	2.474	697255.64409	663615.63120	679555.71049
Y2R	22631.05579	22,631.06	0.664	22604.30583	22792.92030	22495.94124
ZN	0.02229	442.16	0.312	0.02228	0.02222	0.02236
ZR	0.04988	40.42	5.025	0.04926	0.05264	0.04774

USF03 2488

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 14 Date/Time: 07/21/2011 20:33

Sample Number: **LCSS** Class: **** Batch: 111935708005

Initial Vol: 1.04 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.55774	13,665.31	0.937	0.56231	0.55888	0.55205
AL	160.91574	350,505.37	0.757	161.01943	162.07880	159.64899
AS	1.29230	439.09	0.237	1.29547	1.28935	1.29207
B	1.58662	20,163.24	0.762	1.59975	1.58416	1.57594
BA	3.18598	1,765,335.76	1.101	3.21301	3.19858	3.14634
BE	0.95369	845,579.31	0.767	0.96209	0.95034	0.94865
CA	114.25778	70,565.34	0.469	114.46748	113.64830	114.65755
CD	1.13614	24,484.13	0.234	1.13785	1.13748	1.13308
CO	1.40849	5,671.74	0.342	1.41238	1.41000	1.40311
CR	1.00622	18,070.69	1.092	1.01846	1.00304	0.99717
CU	0.92517	14,989.79	1.022	0.93334	0.92735	0.91481
FE	225.41937	1,618,651.34	1.324	228.40781	225.41373	222.43658
K	22.49280	8,493.58	0.724	22.32462	22.50414	22.64965
LI	0.17081	1,483.34	1.266	0.17330	0.16950	0.16962
MG	38.01503	42,795.89	0.284	38.09032	37.89150	38.06326
MN	5.86785	614,122.54	1.413	5.93091	5.89875	5.77391
MO	0.89957	4,314.18	0.413	0.90247	0.90086	0.89538
NA	8.33344	8,357.89	0.365	8.36405	8.30322	8.33305
NI	1.22496	2,116.40	0.399	1.22801	1.22754	1.21932
P	3.64982	2,159.04	0.362	3.65863	3.65619	3.63463
PB	1.35830	2,070.38	0.223	1.36120	1.35853	1.35515
SB	0.75634	572.42	0.686	0.75587	0.76175	0.75140
SE	2.09155	723.56	0.148	2.08946	2.09509	2.09008
SI	19.02218	2,306.12	0.331	19.05205	18.94978	19.06470
SN	1.26403	762.90	0.234	1.26656	1.26475	1.26077
SR	0.77228	582,358.11	0.421	0.77548	0.76898	0.77237
TI	6.26905	540,689.47	1.366	6.36560	6.23920	6.20235
TL	2.30302	1,786.66	0.459	2.31256	2.30485	2.29164
V	1.15867	19,158.40	0.840	1.16774	1.15988	1.14839
Y1	13434.27543	13,434.28	0.100	13442.69955	13441.41420	13418.71254
Y2A	664879.13625	664,879.14	0.961	659209.72130	663629.19708	671798.49038
Y2R	22155.54855	22,155.55	0.246	22146.29653	22214.15693	22106.19220
ZN	2.82099	53,245.76	0.222	2.82621	2.82272	2.81404
ZR	0.09016	77.94	3.040	0.08758	0.09303	0.08986

USP83 2481

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 15 Date/Time: 07/21/2011 20:37

Sample Number: **LCSSD** Class: **** Batch: 111935708005

Initial Vol: 1.04 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.55906	13,572.30	1.434	0.56831	0.55442	0.55444
AL	160.48352	346,391.23	0.895	161.30779	161.31763	158.82515
AS	1.27419	435.02	0.173	1.27571	1.27521	1.27167
B	1.59449	20,085.79	1.539	1.62233	1.57602	1.58513
BA	3.18317	1,747,593.11	1.025	3.22020	3.15868	3.17061
BE	0.95738	841,048.13	0.930	0.96766	0.95271	0.95179
CA	112.19268	69,646.30	0.420	111.77728	112.09609	112.70465
CD	1.13111	24,500.34	0.064	1.13127	1.13174	1.13032
CO	1.37568	5,566.26	0.280	1.37986	1.37491	1.37227
CR	1.01807	18,114.90	1.539	1.03603	1.00720	1.01099
CU	0.91005	14,610.57	1.662	0.92688	0.90566	0.89761
FE	227.75723	1,617,382.75	1.451	231.42845	226.82454	225.01870
K	22.61596	8,581.78	0.351	22.68772	22.62961	22.53054
LI	0.16431	1,434.36	1.524	0.16144	0.16604	0.16545
MG	38.14432	43,150.84	0.180	38.09097	38.22171	38.12028
MN	5.67240	588,237.10	1.054	5.72894	5.60981	5.67843
MO	0.89049	4,291.44	0.565	0.89481	0.89172	0.88496
NA	8.24782	8,314.46	0.417	8.23815	8.28600	8.21930
NI	1.21956	2,117.42	0.494	1.22269	1.22338	1.21261
P	3.62318	2,153.66	0.112	3.62416	3.62667	3.61871
PB	1.34718	2,063.98	0.288	1.34913	1.34970	1.34272
SB	0.72242	549.81	0.477	0.72407	0.72472	0.71846
SE	2.07417	721.34	0.228	2.07884	2.07431	2.06938
SI	19.39017	2,362.00	0.463	19.30424	19.48326	19.38302
SN	1.24759	756.66	0.306	1.25113	1.24809	1.24354
SR	0.78417	585,893.33	0.546	0.78828	0.77974	0.78449
TI	6.10055	521,321.69	1.437	6.20159	6.04513	6.05494
TL	2.31454	1,804.34	0.366	2.32122	2.31739	2.30500
V	1.15838	18,976.31	1.558	1.17904	1.14566	1.15044
Y1	13499.53834	13,499.54	0.100	13512.20162	13485.24136	13501.17204
Y2A	658791.57381	658,791.57	1.334	648651.72872	664202.09025	663520.90246
Y2R	22264.23285	22,264.23	1.333	22597.99525	22164.79058	22029.91272
ZN	2.79249	52,974.89	0.307	2.79910	2.79555	2.78281
ZR	0.08167	70.17	2.032	0.07976	0.08245	0.08279

USP89 2482

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 16 Date/Time: 07/21/2011 20:42

Sample Number: **6339377** Class: U*** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00174	-171.72	19.210	0.00181	0.00138	0.00204
AL	368.04045	753,072.21	1.717	371.99000	360.75135	371.37999
AS	0.09296	31.36	4.725	0.09073	0.09013	0.09802
B	0.12946	5,039.90	2.642	0.12615	0.12923	0.13298
BA	1.26690	687,035.03	0.212	1.26560	1.26510	1.26999
BE	0.01036	8,671.92	0.858	0.01036	0.01027	0.01045
CA	49.76544	30,717.85	0.894	49.36535	49.68606	50.24492
CD	0.00401	897.32	19.059	0.00403	0.00477	0.00324
CO	0.11567	610.59	0.693	0.11660	0.11525	0.11518
CR	0.39752	6,979.65	0.779	0.39651	0.39505	0.40100
CU	0.18784	2,920.17	1.235	0.18714	0.18596	0.19044
FE	449.49527	2,593,587.10	1.416	452.89924	442.15261	453.43395
K	71.01638	26,356.81	0.882	70.37282	71.05224	71.62408
LI	0.59974	5,105.09	0.857	0.59426	0.60445	0.60050
MG	106.07043	116,604.52	0.659	105.41772	105.98516	106.80840
MN	3.84481	393,784.26	1.022	3.85081	3.80285	3.88076
MO	0.00112	9.46	11.910	0.00102	0.00127	0.00107
NA	1.49839	1,632.24	0.653	1.50855	1.48901	1.49762
NI	0.21758	392.53	0.955	0.21998	0.21638	0.21639
P	3.75275	2,229.38	0.367	3.76666	3.75245	3.73914
PB	0.14975	343.24	2.363	0.15229	0.15125	0.14571
SB	0.01264	16.47	17.529	0.01479	0.01037	0.01275
SE	-0.06132	14.92	9.678	-0.06084	-0.05564	-0.06748
SI	23.72875	2,844.69	0.647	23.61099	23.67279	23.90247
SN	0.02520	16.55	8.755	0.02744	0.02513	0.02303
SR	0.64903	478,906.20	1.208	0.65399	0.63998	0.65311
TI	17.65638	1,489,523.35	0.260	17.63709	17.62335	17.70869
TL	0.03797	-25.72	4.097	0.03831	0.03628	0.03933
V	0.79865	13,085.98	0.989	0.79894	0.79061	0.80639
Y1	13497.50751	13,497.51	0.205	13525.20391	13469.79609	13497.52254
Y2A	650617.49630	650,617.50	0.595	649470.10258	654929.37168	647453.01466
Y2R	21929.98197	21,929.98	0.938	22052.75703	22044.56901	21692.61988
ZN	0.97211	18,865.79	0.413	0.97482	0.97401	0.96750
ZR	0.05113	40.34	2.115	0.05088	0.05231	0.05019

USF83 2493

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 17 Date/Time: 07/21/2011 20:46

Sample Number: **6339377** Class: UP** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.03528	637.35	1.278	0.03547	0.03560	0.03476
AL	360.97214	745,720.40	1.322	355.46262	363.82269	363.63111
AS	0.56573	193.02	0.509	0.56893	0.56488	0.56337
B	0.32386	7,184.57	1.093	0.32662	0.32508	0.31987
BA	1.27932	699,437.32	0.740	1.26976	1.28868	1.27952
BE	0.02950	25,490.11	1.016	0.02918	0.02978	0.02953
CA	50.11686	30,843.38	0.786	50.57168	49.89200	49.88690
CD	0.05087	1,873.05	2.319	0.05223	0.05023	0.05015
CO	0.20570	970.90	0.417	0.20667	0.20539	0.20505
CR	0.57714	10,221.20	0.962	0.57168	0.58278	0.57697
CU	0.69341	11,002.51	0.744	0.68762	0.69512	0.69750
FE	435.63257	2,567,899.79	2.510	423.34032	444.28044	439.27694
K	71.45413	26,442.93	0.303	71.69229	71.26947	71.40063
LI	1.59342	13,497.31	0.280	1.59791	1.58900	1.59335
MG	105.41596	115,567.33	0.320	105.75101	105.07687	105.41999
MN	3.80777	393,186.72	0.873	3.76992	3.82119	3.83219
MO	0.18577	899.87	0.657	0.18686	0.18600	0.18445
NA	3.56253	3,627.01	0.612	3.58770	3.55038	3.54951
NI	0.35069	622.75	0.596	0.35274	0.35078	0.34856
P	4.67352	2,782.27	0.318	4.68931	4.67142	4.65983
PB	0.60137	1,016.44	0.592	0.60535	0.59850	0.60025
SB	0.41817	321.29	0.516	0.41909	0.41971	0.41571
SE	0.71129	275.76	0.921	0.71836	0.71008	0.70543
SI	26.30283	3,143.14	0.293	26.29922	26.38164	26.22764
SN	0.55946	340.56	0.570	0.56268	0.55631	0.55940
SR	0.65281	485,642.83	0.895	0.64656	0.65814	0.65372
TI	17.40742	1,480,469.95	1.431	17.16896	17.66595	17.38734
TL	0.93223	683.31	0.193	0.93420	0.93180	0.93068
V	0.88103	14,525.41	0.824	0.87271	0.88610	0.88430
Y1	13520.72512	13,520.73	0.020	13518.02522	13520.80705	13523.34311
Y2A	655959.91800	655,959.92	1.043	663631.31649	650482.06449	653766.37301
Y2R	21866.50490	21,866.50	0.771	21675.39801	21994.70017	21929.41652
ZN	1.07095	20,763.48	0.363	1.07530	1.06970	1.06784
ZR	1.00179	934.13	0.342	1.00568	0.99920	1.00050

USP63 2464

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 18 Date/Time: 07/21/2011 20:51

Sample Number: 6339380 Class: D*** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00177	-178.51	31.297	0.00227	0.00186	0.00118
AL	380.05197	782,796.98	0.578	382.03728	380.42588	377.69277
AS	0.08827	29.94	1.490	0.08752	0.08979	0.08749
B	0.13746	5,227.86	3.940	0.14209	0.13150	0.13878
BA	1.30694	715,051.42	1.490	1.31176	1.28550	1.32355
BE	0.01061	8,963.39	0.682	0.01053	0.01061	0.01068
CA	51.30271	31,960.83	0.731	51.14566	51.73049	51.03198
CD	0.00433	919.92	22.365	0.00544	0.00394	0.00362
CO	0.11956	632.47	0.372	0.11989	0.11974	0.11906
CR	0.40060	7,096.18	1.082	0.39675	0.39975	0.40529
CU	0.18856	2,954.27	1.128	0.18649	0.18847	0.19074
FE	456.06220	2,637,684.48	2.167	444.65063	461.85418	461.68179
K	72.20400	27,053.35	0.909	71.56410	72.87578	72.17212
LI	0.62629	5,381.64	0.183	0.62563	0.62761	0.62563
MG	109.67722	121,639.53	0.579	109.54246	110.36841	109.12078
MN	3.92401	405,468.29	1.066	3.88769	3.91456	3.96978
MO	0.00061	7.02	59.275	0.00074	0.00088	0.00020
NA	1.57142	1,719.45	1.859	1.59422	1.58154	1.53849
NI	0.22235	402.42	0.485	0.22111	0.22291	0.22304
P	3.69608	2,204.93	0.162	3.70130	3.68954	3.69739
PB	0.15012	347.21	0.822	0.14927	0.14957	0.15154
SB	0.01370	17.35	13.724	0.01515	0.01437	0.01158
SE	-0.05599	17.30	9.494	-0.05225	-0.05365	-0.06208
SI	21.66120	2,622.78	0.697	21.79669	21.68856	21.49834
SN	0.02670	17.53	4.433	0.02556	0.02660	0.02792
SR	0.65794	489,784.12	1.454	0.64920	0.65644	0.66816
TI	18.08964	1,539,616.20	1.368	18.05677	17.86028	18.35189
TL	0.03941	-25.62	2.920	0.04074	0.03873	0.03877
V	0.82137	13,576.58	0.957	0.81370	0.82101	0.82941
Y1	13554.40348	13,554.40	0.180	13543.37811	13582.43741	13537.39492
Y2A	656423.53975	656,423.54	1.074	663528.56669	656309.49136	649432.56122
Y2R	22140.72086	22,140.72	1.200	22251.44747	21837.54371	22333.17140
ZN	0.99230	19,332.14	0.383	0.99661	0.99089	0.98941
ZR	0.05118	40.79	4.695	0.05061	0.04912	0.05382

USP83: 2485

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 19 Date/Time: 07/21/2011 20:55

Sample Number: **6339378** Class: R*** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05859	1,074.12	1.317	0.05781	0.05935	0.05863
AL	458.71075	902,223.77	1.957	448.41523	462.81831	464.89870
AS	0.22987	79.50	1.034	0.23132	0.23116	0.22713
B	2.10502	26,936.90	1.184	2.07831	2.12762	2.10912
BA	3.21709	1,707,558.39	1.527	3.16114	3.25313	3.23699
BE	0.06020	50,834.33	1.366	0.05932	0.06095	0.06034
CA	55.87321	33,944.59	0.505	55.89626	55.58008	56.14330
CD	0.04887	1,878.38	3.051	0.05057	0.04777	0.04828
CO	0.56898	2,441.93	0.338	0.57096	0.56886	0.56713
CR	0.61116	10,509.75	1.515	0.60144	0.61987	0.61218
CU	0.44662	6,836.31	1.506	0.43994	0.45340	0.44653
FE	470.96505	2,603,450.64	3.743	451.21786	485.12024	476.55705
K	87.75551	32,075.67	0.763	87.93131	87.01524	88.31998
LI	1.66065	13,900.96	0.870	1.67161	1.64429	1.66604
MG	111.43227	120,581.51	0.751	111.80465	110.47418	112.01797
MN	4.47511	448,697.59	0.824	4.44553	4.51641	4.46340
MO	1.68481	8,065.34	0.129	1.68729	1.68326	1.68389
NA	11.47921	11,163.32	0.848	11.54107	11.36694	11.52961
NI	0.67327	1,170.93	0.394	0.67634	0.67170	0.67179
P	5.16407	3,050.18	0.135	5.17110	5.15719	5.16392
PB	0.28816	568.87	1.558	0.29322	0.28468	0.28656
SB	0.19257	123.64	2.066	0.18983	0.19714	0.19074
SE	0.08143	64.53	5.646	0.08655	0.07765	0.08009
SI	20.55812	2,429.94	1.239	20.55000	20.30747	20.81689
SN	3.21191	1,933.88	0.204	3.21940	3.20917	3.20717
SR	1.62848	1,176,234.77	1.440	1.60156	1.64445	1.63942
TI	21.41633	1,768,502.99	1.893	20.95943	21.55653	21.73304
TL	0.16747	72.34	2.447	0.16274	0.16963	0.17003
V	1.35742	21,646.19	1.501	1.33459	1.37377	1.36391
Y1	13415.65910	13,415.66	0.154	13413.21258	13437.37519	13396.38953
Y2A	636949.80995	636,949.81	1.459	647347.37367	629461.99336	634040.06283
Y2R	21609.80429	21,609.80	0.786	21636.87983	21764.54749	21427.98554
ZN	1.45827	27,860.66	0.182	1.46112	1.45585	1.45785
ZR	0.93827	864.10	1.071	0.93185	0.93310	0.94985

USP83 2496

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 20 Date/Time: 07/21/2011 20:59

Sample Number: 6339379 Class: M*** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05884	1,101.65	0.877	0.05910	0.05824	0.05916
AL	472.84737	951,265.99	1.116	477.44638	467.08524	474.01050
AS	0.23789	82.70	1.775	0.23771	0.24220	0.23377
B	2.12240	27,862.86	0.583	2.13623	2.11235	2.11861
BA	3.25761	1,773,738.04	0.338	3.25339	3.27012	3.24931
BE	0.06057	52,467.75	0.731	0.06095	0.06009	0.06068
CA	57.15085	35,188.36	0.211	57.07864	57.29014	57.08377
CD	0.05091	1,937.79	1.298	0.05030	0.05161	0.05083
CO	0.58034	2,501.60	0.289	0.58110	0.58152	0.57842
CR	0.62472	11,019.92	0.828	0.63029	0.62005	0.62383
CU	0.45674	7,169.71	0.600	0.45982	0.45458	0.45582
FE	475.37490	2,684,858.38	1.453	481.86261	468.11159	476.15051
K	88.20350	32,681.33	0.101	88.10125	88.26369	88.24556
LI	1.71265	14,532.32	0.405	1.71743	1.71582	1.70471
MG	115.16650	126,236.92	0.310	115.42412	115.31612	114.75925
MN	4.58137	471,148.39	0.845	4.62442	4.54947	4.57020
MO	1.72290	8,283.14	0.301	1.72719	1.72436	1.71713
NA	11.79655	11,624.42	0.134	11.81438	11.79088	11.78441
NI	0.69091	1,206.30	0.511	0.69498	0.68860	0.68915
P	4.88800	2,899.51	0.321	4.90604	4.88025	4.87771
PB	0.28880	576.83	0.378	0.28945	0.28754	0.28942
SB	0.20782	135.28	1.537	0.20901	0.21024	0.20420
SE	0.08464	66.24	6.604	0.07822	0.08847	0.08721
SI	21.19956	2,539.86	0.722	21.33726	21.22671	21.03471
SN	3.27108	1,977.98	0.246	3.28014	3.26834	3.26476
SR	1.64078	1,215,586.35	1.583	1.66737	1.61546	1.63953
TI	21.85960	1,851,597.46	1.172	22.11601	21.60369	21.85910
TL	0.16976	73.73	1.531	0.16862	0.16793	0.17274
V	1.38068	22,584.34	0.642	1.38962	1.37188	1.38053
Y1	13473.54287	13,473.54	0.185	13448.02623	13497.90731	13474.69506
Y2A	653296.84806	653,296.85	0.988	647788.10793	660395.28865	651707.14761
Y2R	21905.50197	21,905.50	0.322	21913.78213	21831.28276	21971.44104
ZN	1.49397	28,653.49	0.243	1.49798	1.49302	1.49092
ZR	0.96589	901.99	0.693	0.95850	0.96761	0.97156

USF03 2487

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 21 Date/Time: 07/21/2011 21:04

Sample Number: **6339377** Class: UL** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00081	-60.82	31.898	-0.00066	-0.00066	-0.00111
AL	71.16372	157,307.95	1.052	71.64848	70.30116	71.54151
AS	0.01785	6.97	15.921	0.02111	0.01655	0.01589
B	0.03570	1,134.48	2.614	0.03518	0.03514	0.03678
BA	0.26889	148,713.34	1.188	0.27125	0.26525	0.27015
BE	0.00212	1,551.18	1.561	0.00213	0.00209	0.00216
CA	10.56406	6,551.31	0.222	10.59070	10.55515	10.54633
CD	0.00158	188.90	6.495	0.00149	0.00157	0.00169
CO	0.02472	133.36	1.118	0.02479	0.02495	0.02442
CR	0.08530	1,517.91	1.004	0.08607	0.08438	0.08544
CU	0.03615	640.81	2.213	0.03637	0.03526	0.03681
FE	83.61472	666,650.81	1.697	85.05650	82.21897	83.56867
K	14.51917	5,359.19	0.784	14.65051	14.45942	14.44757
LI	0.11997	1,014.29	1.984	0.12048	0.12205	0.11737
MG	21.89723	24,042.93	0.287	21.95654	21.90371	21.83143
MN	0.83321	86,990.29	1.426	0.84249	0.81982	0.83732
MO	0.00129	10.56	13.659	0.00145	0.00110	0.00133
NA	0.30277	462.25	3.427	0.31314	0.29239	0.30279
NI	0.04750	102.67	0.854	0.04731	0.04722	0.04796
P	0.77532	471.83	0.487	0.77398	0.77239	0.77958
PB	0.03361	81.54	1.928	0.03293	0.03421	0.03371
SB	0.00237	5.70	28.276	0.00276	0.00275	0.00160
SE	-0.00831	5.27	12.621	-0.00950	-0.00750	-0.00793
SI	5.17339	617.35	1.714	5.27171	5.14893	5.09953
SN	0.00562	4.83	2.164	0.00548	0.00569	0.00570
SR	0.13637	102,592.63	1.089	0.13714	0.13466	0.13732
TI	3.83860	330,110.16	1.134	3.88679	3.80208	3.82694
TL	0.00497	-10.27	54.117	0.00646	0.00186	0.00657
V	0.17001	2,815.77	1.041	0.17082	0.16798	0.17124
Y1	13873.79452	13,873.79	0.122	13892.90767	13867.81530	13860.66059
Y2A	663194.13457	663,194.13	0.927	658935.44157	670243.99070	660402.97145
Y2R	21540.46436	21,540.46	0.368	21456.86985	21614.39262	21550.13063
ZN	0.20250	4,030.22	0.179	0.20215	0.20248	0.20287
ZR	0.01384	5.09	36.665	0.00809	0.01768	0.01574

USP93 2489

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 22

Date/Time: 07/21/2011 21:08

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.50483	12,535.51	0.631	0.50793	0.50501	0.50156
AL	24.68317	55,474.93	0.328	24.77556	24.64916	24.62479
AS	0.49360	171.52	0.811	0.48903	0.49648	0.49531
B	0.48407	5,861.01	0.516	0.48546	0.48558	0.48119
BA	0.49645	275,985.27	1.280	0.50307	0.49040	0.49588
BE	0.48212	428,547.06	0.210	0.48225	0.48105	0.48306
CA	24.95894	14,992.08	0.350	24.88454	24.93706	25.05523
CD	0.49243	10,656.21	0.095	0.49258	0.49281	0.49191
CO	0.48709	1,978.39	0.156	0.48681	0.48795	0.48651
CR	0.50063	9,011.61	0.515	0.50217	0.50206	0.49765
CU	0.49896	8,170.33	0.730	0.50253	0.49911	0.49525
FE	25.58428	213,636.44	0.411	25.66914	25.61702	25.46670
K	24.99012	9,009.83	1.157	24.74351	24.91854	25.30832
LI	0.50703	4,169.55	0.278	0.50557	0.50839	0.50713
MG	25.39448	27,395.02	0.422	25.28588	25.39765	25.49992
MN	0.48651	51,076.90	0.528	0.48910	0.48646	0.48396
MO	0.48764	2,379.41	0.182	0.48670	0.48847	0.48775
NA	25.44498	24,044.32	0.278	25.44047	25.37653	25.51794
NI	0.48707	866.86	0.191	0.48755	0.48765	0.48599
P	0.50319	301.43	0.306	0.50182	0.50486	0.50290
PB	0.49440	775.70	0.433	0.49687	0.49320	0.49313
SB	0.52396	405.74	0.281	0.52362	0.52557	0.52268
SE	0.48241	168.77	1.104	0.47982	0.48853	0.47887
SI	26.05344	3,015.37	0.634	25.86734	26.11085	26.18214
SN	0.47400	291.66	0.328	0.47338	0.47577	0.47286
SR	0.50500	381,915.74	0.798	0.50952	0.50369	0.50178
TI	0.49215	42,802.56	0.428	0.49445	0.49167	0.49032
TL	0.48795	384.86	0.213	0.48675	0.48861	0.48850
V	0.50688	8,354.49	0.320	0.50812	0.50748	0.50504
Y1	13657.82131	13,657.82	0.068	13667.27625	13648.79414	13657.39353
Y2A	666789.31652	666,789.32	0.157	667046.64897	667685.66689	665635.63371
Y2R	21178.75156	21,178.75	1.166	21403.11722	21219.11655	20914.02090
ZN	0.48193	9,281.20	0.051	0.48208	0.48165	0.48207
ZR	0.49503	443.23	0.594	0.49685	0.49163	0.49660

USP83 2489

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 23

Date/Time: 07/21/2011 21:12

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00006	6.23	472.789	-0.00034	0.00019	-0.00002
AL	-0.00191	142.49	64.334	-0.00302	-0.00059	-0.00211
AS	0.00104	1.29	108.530	-0.00018	0.00125	0.00204
B	-0.00124	42.51	28.011	-0.00115	-0.00162	-0.00095
BA	0.00002	124.99	134.713	0.00004	-0.00001	0.00002
BE	0.00002	-319.70	29.826	0.00003	0.00002	0.00001
CA	0.00557	156.54	26.338	0.00695	0.00403	0.00574
CD	0.00013	1.66	43.489	0.00007	0.00014	0.00018
CO	-0.00008	-2.02	130.031	-0.00012	0.00004	-0.00015
CR	0.00027	-6.32	149.231	0.00053	0.00048	-0.00020
CU	-0.00043	84.19	65.945	-0.00059	-0.00059	-0.00010
FE	0.00453	31.81	0.981	0.00449	0.00452	0.00457
K	0.03993	98.59	86.176	0.00157	0.06809	0.05013
LI	0.00044	17.81	515.273	0.00294	-0.00006	-0.00155
MG	0.00076	0.95	137.212	0.00147	0.00124	-0.00044
MN	0.00009	19.15	35.779	0.00006	0.00012	0.00009
MO	0.00056	6.99	16.859	0.00062	0.00045	0.00060
NA	-0.04967	127.11	36.938	-0.05130	-0.03057	-0.06716
NI	-0.00023	18.43	157.317	-0.00062	0.00011	-0.00019
P	-0.00085	-2.56	48.656	-0.00069	-0.00132	-0.00055
PB	-0.00057	6.20	75.022	-0.00106	-0.00027	-0.00038
SB	0.00064	3.51	151.027	-0.00034	0.00068	0.00159
SE	0.00092	1.97	408.591	0.00519	-0.00200	-0.00042
SI	-0.04024	5.77	28.657	-0.05300	-0.03713	-0.03058
SN	-0.00064	0.94	41.373	-0.00049	-0.00048	-0.00094
SR	0.00001	35.06	107.961	0.00002	0.00001	0.00000
TI	0.00023	66.76	29.901	0.00030	0.00016	0.00022
TL	-0.00268	-6.06	12.980	-0.00248	-0.00308	-0.00247
V	0.00066	-15.99	28.707	0.00055	0.00056	0.00088
Y1	14004.70611	14,004.71	0.155	13980.12028	14021.29826	14012.69980
Y2A	683825.10514	683,825.11	0.728	678578.56906	688476.57703	684420.16932
Y2R	21739.40353	21,739.40	0.530	21609.34312	21828.41588	21780.45160
ZN	-0.00018	12.59	11.381	-0.00019	-0.00016	-0.00020
ZR	0.00228	-5.69	88.361	0.00414	0.00014	0.00256

USF03 2498

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 24 Date/Time: 07/21/2011 21:16

Sample Number: **6339368** Class: **** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00100	-167.09	57.657	0.00068	0.00065	0.00166
AL	233.88475	506,850.02	0.860	231.56601	235.13857	234.94966
AS	0.08379	28.36	3.510	0.08684	0.08357	0.08097
B	0.10760	4,083.91	0.768	0.10702	0.10855	0.10723
BA	0.80787	451,889.42	1.397	0.81167	0.81677	0.79518
BE	0.00654	5,526.71	0.835	0.00651	0.00661	0.00652
CA	43.29712	27,734.98	0.272	43.24765	43.43150	43.21222
CD	0.00680	773.36	4.135	0.00711	0.00657	0.00672
CO	0.08713	472.60	0.189	0.08719	0.08726	0.08695
CR	0.37762	6,837.70	1.126	0.37523	0.38253	0.37510
CU	0.09935	1,596.57	0.555	0.09915	0.09997	0.09892
FE	343.16017	2,253,369.19	0.748	340.60954	345.74137	343.12959
K	52.07695	20,052.34	0.236	51.94670	52.19088	52.09326
LI	0.44862	3,961.14	0.690	0.44642	0.45216	0.44728
MG	107.78412	122,744.69	0.478	107.49182	108.37938	107.48115
MN	3.00045	316,961.55	0.464	2.98439	3.00792	3.00903
MO	0.00119	9.89	27.166	0.00151	0.00118	0.00087
NA	1.61530	1,809.10	0.687	1.61727	1.62529	1.60335
NI	0.13290	249.69	1.875	0.13497	0.13361	0.13013
P	7.71934	4,640.99	0.270	7.72899	7.73358	7.69545
PB	0.12865	273.58	0.491	0.12907	0.12896	0.12793
SB	0.00818	13.10	4.757	0.00863	0.00799	0.00792
SE	-0.04318	13.16	3.542	-0.04287	-0.04183	-0.04484
SI	17.65623	2,196.29	0.798	17.54364	17.81432	17.61074
SN	0.02509	16.67	5.265	0.02640	0.02510	0.02376
SR	0.37610	286,246.49	0.764	0.37378	0.37932	0.37521
TI	14.20649	1,236,085.55	0.722	14.12539	14.32170	14.17238
TL	0.02610	-23.72	10.272	0.02587	0.02355	0.02890
V	0.72059	12,145.55	0.913	0.71559	0.72804	0.71815
Y1	13655.04707	13,655.05	0.069	13651.30527	13648.12850	13665.70745
Y2A	671039.27228	671,039.27	0.629	674418.82880	666304.92701	672394.06105
Y2R	22724.66384	22,724.66	0.368	22807.53562	22726.24906	22640.20683
ZN	0.79678	15,597.08	0.306	0.79799	0.79837	0.79397
ZR	0.06624	56.57	5.802	0.06659	0.06990	0.06224

USP&G 2491

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 25 Date/Time: 07/21/2011 21:20

Sample Number: **6339369** Class: **** Batch: 111935708005

Initial Vol: 1.01 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00079	-160.49	44.116	0.00102	0.00096	0.00039
AL	186.38241	403,344.21	0.943	185.96069	188.31188	184.87465
AS	0.07241	24.39	1.972	0.07365	0.07274	0.07085
B	0.09468	3,661.85	0.787	0.09382	0.09501	0.09520
BA	0.71446	395,395.14	2.065	0.72417	0.72173	0.69748
BE	0.00564	4,667.29	1.012	0.00564	0.00570	0.00558
CA	47.11615	29,413.98	0.363	47.16635	47.25652	46.92557
CD	0.00614	710.38	7.397	0.00604	0.00575	0.00664
CO	0.08050	429.92	0.410	0.08017	0.08083	0.08051
CR	0.38714	6,936.02	1.039	0.38690	0.39127	0.38324
CU	0.07283	1,168.64	1.440	0.07173	0.07382	0.07293
FE	314.43390	2,094,402.72	1.744	316.43885	318.63309	308.22976
K	45.99533	17,285.42	0.549	46.09518	46.18270	45.70811
LI	0.35959	3,100.37	0.310	0.35852	0.35948	0.36075
MG	101.70532	113,113.82	0.018	101.68887	101.72554	101.70155
MN	3.28252	343,071.78	1.232	3.27193	3.32719	3.24844
MO	0.00092	8.64	6.625	0.00095	0.00085	0.00096
NA	1.27657	1,432.03	1.218	1.29075	1.25995	1.27900
NI	0.11519	220.03	0.126	0.11535	0.11515	0.11507
P	8.69707	5,257.07	0.066	8.69892	8.70170	8.69059
PB	0.16829	320.08	1.342	0.17084	0.16748	0.16654
SB	0.00670	12.19	25.352	0.00788	0.00475	0.00747
SE	-0.04206	11.49	6.405	-0.04474	-0.03935	-0.04207
SI	16.00586	1,943.10	0.093	15.99151	16.00493	16.02114
SN	0.02378	15.96	3.721	0.02379	0.02288	0.02465
SR	0.32413	244,085.86	0.803	0.32186	0.32697	0.32355
TI	12.07933	1,039,849.14	1.337	12.03193	12.25921	11.94685
TL	0.02191	-22.64	6.726	0.02184	0.02047	0.02342
V	0.70630	11,759.71	0.938	0.70375	0.71382	0.70132
Y1	13728.28309	13,728.28	0.005	13727.60846	13728.35373	13728.88709
Y2A	663956.71336	663,956.71	1.132	664083.79230	656375.36569	671410.98208
Y2R	22166.35667	22,166.36	0.391	22233.13343	22068.49700	22197.43957
ZN	0.72298	14,248.28	0.063	0.72272	0.72350	0.72271
ZR	0.08202	70.21	0.439	0.08160	0.08221	0.08224

US983 2492

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 26 Date/Time: 07/21/2011 21:24

Sample Number: 6339370 Class: **** Batch: 111935708005

Initial Vol: 1.01 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00107	-174.23	24.604	0.00084	0.00136	0.00101
AL	286.58463	605,962.29	0.951	283.88788	289.33830	286.52771
AS	0.09436	32.35	0.490	0.09489	0.09409	0.09409
B	0.11525	4,462.51	4.130	0.12041	0.11103	0.11430
BA	1.05382	581,056.48	1.974	1.05247	1.07526	1.03373
BE	0.00825	6,950.78	0.980	0.00818	0.00834	0.00822
CA	44.31369	28,076.10	0.096	44.26586	44.32890	44.34631
CD	0.00551	833.09	9.989	0.00606	0.00496	0.00552
CO	0.09834	534.79	0.924	0.09937	0.09801	0.09765
CR	0.38609	6,892.27	0.970	0.38280	0.39016	0.38530
CU	0.13561	2,145.71	1.497	0.13383	0.13782	0.13519
FE	386.87180	2,407,724.93	1.903	380.73953	395.03914	384.83672
K	63.67958	24,238.80	0.298	63.47155	63.72418	63.84301
LI	0.48440	4,230.13	0.098	0.48386	0.48468	0.48468
MG	94.39030	106,628.11	0.271	94.16038	94.34510	94.66543
MN	3.67777	382,996.07	1.069	3.63906	3.71769	3.67658
MO	0.00163	12.14	11.447	0.00150	0.00184	0.00154
NA	1.28641	1,462.14	2.033	1.28128	1.26320	1.31475
NI	0.17124	319.31	1.031	0.17117	0.17304	0.16951
P	5.23915	3,177.92	0.372	5.26023	5.23541	5.22180
PB	0.12447	285.85	1.352	0.12641	0.12362	0.12338
SB	0.01055	15.14	16.434	0.01082	0.01214	0.00870
SE	-0.05493	12.65	2.202	-0.05376	-0.05617	-0.05486
SI	19.41354	2,388.00	0.314	19.47460	19.41328	19.35275
SN	0.02343	15.80	4.803	0.02298	0.02471	0.02260
SR	0.44463	333,629.43	0.320	0.44623	0.44414	0.44352
TI	15.60652	1,338,658.03	0.977	15.43786	15.73472	15.64696
TL	0.03052	-25.16	1.967	0.02992	0.03112	0.03051
V	0.75118	12,496.40	0.922	0.74526	0.75880	0.74947
Y1	13779.13741	13,779.14	0.143	13767.81803	13767.75369	13801.84052
Y2A	661555.28294	661,555.28	1.074	667806.25000	653831.56499	663028.03382
Y2R	22481.81252	22,481.81	0.495	22371.15433	22593.70477	22480.57846
ZN	0.85112	16,846.35	0.396	0.85443	0.85125	0.84768
ZR	0.05775	47.75	3.639	0.05611	0.06012	0.05702

USP83 2493

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 27 Date/Time: 07/21/2011 21:29

Sample Number: **6339371** Class: **** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00174	-160.92	28.897	0.00203	0.00116	0.00204
AL	302.80322	634,916.83	1.191	304.75702	298.64151	305.01114
AS	0.08629	29.73	3.975	0.08241	0.08754	0.08893
B	0.11801	4,498.23	2.491	0.11678	0.12136	0.11588
BA	1.12157	615,206.35	1.211	1.10971	1.11861	1.13640
BE	0.00866	7,277.45	0.848	0.00860	0.00864	0.00874
CA	46.48093	29,600.71	0.119	46.50768	46.41740	46.51771
CD	0.00529	836.00	11.748	0.00581	0.00544	0.00460
CO	0.10054	546.06	0.242	0.10072	0.10062	0.10026
CR	0.39065	6,937.59	1.160	0.38698	0.38926	0.39571
CU	0.14491	2,281.99	1.219	0.14385	0.14392	0.14695
FE	390.34689	2,409,115.48	1.733	387.65886	385.33849	398.04333
K	66.96071	25,627.39	0.497	67.33649	66.84272	66.70292
LI	0.42591	3,742.40	0.298	0.42480	0.42729	0.42564
MG	93.83432	106,609.93	0.126	93.95290	93.71585	93.83421
MN	3.70906	384,252.16	1.049	3.69843	3.67657	3.75218
MO	0.00190	13.52	8.827	0.00189	0.00208	0.00174
NA	1.46533	1,649.56	0.992	1.46030	1.45398	1.48170
NI	0.16887	315.68	0.617	0.16974	0.16771	0.16916
P	5.42730	3,297.74	0.332	5.44770	5.41351	5.42069
PB	0.14909	328.52	0.423	0.14929	0.14960	0.14838
SB	0.01001	14.77	11.931	0.00884	0.01122	0.00997
SE	-0.05078	14.38	9.651	-0.04630	-0.05601	-0.05003
SI	19.29206	2,386.49	0.428	19.20500	19.30211	19.36906
SN	0.02436	16.40	4.633	0.02497	0.02506	0.02306
SR	0.49340	368,259.15	1.377	0.48735	0.49209	0.50075
TI	15.76450	1,345,218.68	0.546	15.70792	15.72198	15.86359
TL	0.03107	-25.19	2.116	0.03049	0.03178	0.03093
V	0.76948	12,731.75	1.209	0.76283	0.76550	0.78011
Y1	13802.61000	13,802.61	0.183	13778.11433	13828.53516	13801.18051
Y2A	658115.24472	658,115.24	0.918	662497.90975	660624.03782	651223.78657
Y2R	22608.71852	22,608.72	0.782	22720.69913	22700.60383	22404.85261
ZN	0.86530	17,151.68	0.354	0.86882	0.86386	0.86323
ZR	0.05659	46.91	5.017	0.05972	0.05587	0.05419

USF03 2494

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 28 Date/Time: 07/21/2011 21:33

Sample Number: **6339372** Class: **** Batch: 111935708005

Initial Vol: 1.05 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00121	-181.81	35.676	0.00152	0.00072	0.00139
AL	292.31538	613,637.82	1.967	297.44938	293.39340	286.10336
AS	0.09546	32.61	1.949	0.09623	0.09334	0.09682
B	0.12097	4,635.42	1.511	0.12234	0.11889	0.12167
BA	1.03147	565,269.44	2.823	1.05617	1.03887	0.99937
BE	0.00845	7,087.39	1.071	0.00849	0.00852	0.00835
CA	48.73177	31,165.56	0.432	48.66795	48.56073	48.96662
CD	0.00507	855.03	11.491	0.00505	0.00450	0.00566
CO	0.09989	539.26	0.375	0.09946	0.10008	0.10013
CR	0.42870	7,608.12	0.908	0.42957	0.43208	0.42445
CU	0.12926	2,033.23	1.181	0.12965	0.13056	0.12758
FE	403.88032	2,459,511.66	1.945	402.64218	412.28156	396.71722
K	61.16988	23,528.68	0.545	60.85657	61.13243	61.52063
LI	0.46873	4,136.56	0.162	0.46948	0.46796	0.46874
MG	98.44340	112,271.27	0.398	98.26050	98.17607	98.89363
MN	4.01849	415,946.59	1.510	4.05721	4.04971	3.94855
MO	0.00193	13.61	10.607	0.00215	0.00175	0.00188
NA	1.41041	1,602.20	0.759	1.42259	1.40613	1.40250
NI	0.16576	309.71	0.395	0.16652	0.16540	0.16536
P	6.10218	3,702.12	0.212	6.10878	6.11050	6.08725
PB	0.10928	264.59	1.174	0.10917	0.11062	0.10806
SB	0.00970	14.96	21.522	0.01192	0.00779	0.00938
SE	-0.05117	15.30	9.399	-0.05241	-0.05524	-0.04586
SI	20.13603	2,502.24	0.110	20.14381	20.11112	20.15317
SN	0.02508	16.82	4.975	0.02364	0.02584	0.02576
SR	0.53323	397,660.50	1.228	0.53347	0.53966	0.52657
TI	15.38018	1,311,277.68	1.227	15.37809	15.56993	15.19254
TL	0.03115	-25.66	3.207	0.03074	0.03229	0.03042
V	0.81363	13,441.96	0.856	0.81583	0.81923	0.80584
Y1	13780.65815	13,780.66	0.143	13776.41784	13763.42098	13802.13563
Y2A	657575.69388	657,575.69	1.118	655587.35040	651425.00000	665714.73125
Y2R	22715.69163	22,715.69	0.450	22809.56929	22730.73945	22606.76617
ZN	0.82306	16,345.54	0.236	0.82500	0.82307	0.82111
ZR	0.05930	49.76	4.109	0.05660	0.05998	0.06133

USF93 2495

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 29 Date/Time: 07/21/2011 21:38

Sample Number: **6339373** Class: **** Batch: 111935708005

Initial Vol: 1.03 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00149	-234.31	3.447	-0.00147	-0.00154	-0.00144
AL	206.13924	449,971.00	1.801	206.40894	202.29882	209.70994
AS	0.08087	27.44	4.534	0.07875	0.07876	0.08511
B	0.07473	3,724.19	0.468	0.07513	0.07449	0.07457
BA	0.85539	479,392.58	0.527	0.85520	0.85097	0.85999
BE	0.00605	5,090.01	1.574	0.00602	0.00597	0.00615
CA	55.04103	34,555.61	0.454	55.07885	55.26983	54.77442
CD	0.00572	765.71	12.772	0.00585	0.00637	0.00493
CO	0.08315	454.33	1.235	0.08330	0.08410	0.08206
CR	0.36406	6,604.17	1.308	0.36244	0.36032	0.36942
CU	0.06222	1,001.57	4.043	0.06115	0.06041	0.06509
FE	345.16759	2,266,607.40	1.946	345.13520	338.46598	351.90160
K	28.18420	10,702.32	0.274	28.09497	28.22841	28.22922
LI	0.40405	3,507.33	0.381	0.40406	0.40251	0.40559
MG	120.92974	134,951.76	0.300	120.55427	121.27957	120.95539
MN	2.74638	290,653.99	1.600	2.74681	2.70221	2.79010
MO	0.00005	4.43	336.370	-0.00002	-0.00008	0.00026
NA	1.54245	1,705.40	1.065	1.52403	1.54771	1.55562
NI	0.10503	204.36	1.351	0.10620	0.10544	0.10345
P	11.21589	6,851.12	0.302	11.24555	11.22314	11.17898
PB	0.07964	193.95	1.213	0.07981	0.08051	0.07860
SB	0.00741	12.52	11.313	0.00831	0.00727	0.00665
SE	-0.04781	11.87	4.726	-0.04805	-0.04544	-0.04994
SI	16.98641	2,076.45	0.237	16.96304	17.03285	16.96333
SN	0.02215	15.11	6.944	0.02254	0.02346	0.02046
SR	0.60272	459,606.68	0.456	0.60226	0.60024	0.60567
TI	13.12035	1,143,713.53	1.436	13.13047	12.92709	13.30349
TL	0.01772	-29.99	3.437	0.01832	0.01773	0.01710
V	0.75787	12,782.23	1.624	0.75521	0.74710	0.77129
Y1	13872.03742	13,872.04	0.074	13861.08476	13873.70634	13881.32118
Y2A	672359.82003	672,359.82	1.426	674305.28846	680825.79628	661948.37533
Y2R	22327.28043	22,327.28	0.227	22277.02568	22378.23324	22326.58236
ZN	0.67252	13,463.18	0.403	0.67442	0.67372	0.66942
ZR	0.11705	104.37	4.017	0.11539	0.12236	0.11341

USF03 2496

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 30 Date/Time: 07/21/2011 21:42

Sample Number: **6339374** Class: **** Batch: 111935708005

Initial Vol: 1.01 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00069	-182.74	36.434	0.00069	0.00044	0.00094
AL	276.62273	586,307.59	0.386	275.71466	276.35284	277.80070
AS	0.10049	34.60	3.484	0.10207	0.10293	0.09648
B	0.09780	4,181.57	2.051	0.09998	0.09739	0.09603
BA	1.12753	621,985.61	0.527	1.12806	1.12135	1.13320
BE	0.00820	6,909.36	0.261	0.00820	0.00821	0.00817
CA	46.60008	29,321.10	0.322	46.70993	46.66114	46.42916
CD	0.00515	808.55	9.430	0.00567	0.00507	0.00471
CO	0.09909	518.04	1.035	0.09948	0.09987	0.09793
CR	0.40616	7,254.55	0.414	0.40801	0.40471	0.40578
CU	0.10606	1,691.24	0.840	0.10702	0.10527	0.10589
FE	376.56097	2,366,983.12	0.556	374.19626	377.31451	378.17214
K	42.32887	16,038.10	0.418	42.27388	42.52659	42.18615
LI	0.42742	3,710.73	0.211	0.42670	0.42713	0.42843
MG	97.23399	109,078.06	0.206	97.24273	97.42970	97.02953
MN	3.46658	361,165.95	0.495	3.47071	3.44774	3.48131
MO	0.00208	14.39	8.881	0.00211	0.00225	0.00188
NA	1.17051	1,338.15	1.051	1.17985	1.15658	1.17510
NI	0.15262	287.44	1.461	0.15389	0.15392	0.15004
P	4.69222	2,854.41	0.638	4.71354	4.70513	4.65801
PB	0.13127	295.35	1.304	0.13258	0.13191	0.12933
SB	0.00944	14.54	11.175	0.01054	0.00933	0.00844
SE	-0.05175	12.97	10.841	-0.05410	-0.04535	-0.05581
SI	20.93649	2,558.09	0.525	20.97634	20.81223	21.02091
SN	0.02433	16.41	1.940	0.02437	0.02384	0.02478
SR	0.51163	384,038.79	0.500	0.51119	0.50933	0.51439
TI	13.11299	1,125,253.04	1.302	13.15931	12.92392	13.25575
TL	0.03000	-22.25	6.822	0.02840	0.03231	0.02929
V	0.78608	13,055.07	0.620	0.79074	0.78102	0.78648
Y1	13820.13819	13,820.14	0.101	13810.58013	13813.60638	13836.22808
Y2A	661811.03210	661,811.03	0.486	663423.87268	663905.05972	658104.16390
Y2R	22338.54966	22,338.55	0.290	22278.47447	22329.98000	22407.19451
ZN	0.69163	13,846.75	0.597	0.69517	0.69263	0.68709
ZR	0.07162	60.77	5.730	0.06861	0.07629	0.06995

USF83 2497

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 31 Date/Time: 07/21/2011 21:46

Sample Number: **6339375** Class: **** Batch: 111935708005

Initial Vol: 1.01 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00075	-175.68	25.990	0.00095	0.00073	0.00056
AL	256.15834	539,924.04	0.705	257.93307	254.32497	256.21698
AS	0.08126	27.82	1.339	0.08237	0.08122	0.08019
B	0.10261	4,071.04	2.305	0.10235	0.10509	0.10038
BA	0.92303	504,344.24	0.472	0.92458	0.91810	0.92639
BE	0.00758	6,306.61	0.545	0.00762	0.00754	0.00759
CA	45.97952	28,488.90	0.174	46.02556	45.88736	46.02565
CD	0.00489	772.32	10.960	0.00484	0.00544	0.00437
CO	0.08959	486.43	0.572	0.09018	0.08938	0.08923
CR	0.39559	6,998.12	0.351	0.39719	0.39467	0.39492
CU	0.11095	1,745.73	0.867	0.11189	0.11100	0.10997
FE	360.67301	2,277,875.44	0.755	361.77779	357.57131	362.66994
K	49.53733	18,465.73	0.359	49.74044	49.46252	49.40904
LI	0.36978	3,163.04	0.609	0.37213	0.36764	0.36958
MG	90.79152	100,410.53	0.164	90.94904	90.65249	90.77303
MN	3.36585	347,323.75	1.130	3.36456	3.32848	3.40451
MO	0.00122	10.16	2.547	0.00124	0.00119	0.00124
NA	1.23754	1,382.81	1.825	1.23644	1.21552	1.26066
NI	0.14367	271.30	0.611	0.14266	0.14410	0.14425
P	6.27217	3,810.85	0.300	6.28518	6.28077	6.25057
PB	0.10395	246.94	0.844	0.10303	0.10406	0.10477
SB	0.00743	12.85	22.250	0.00914	0.00731	0.00584
SE	-0.04715	13.32	7.041	-0.04332	-0.04913	-0.04900
SI	19.93550	2,398.74	0.401	19.93704	19.85484	20.01462
SN	0.02573	17.25	4.051	0.02606	0.02456	0.02656
SR	0.32689	243,045.32	0.223	0.32773	0.32657	0.32637
TI	14.05377	1,194,532.37	0.206	14.02108	14.06387	14.07635
TL	0.02795	-23.63	9.119	0.02770	0.02553	0.03061
V	0.75317	12,398.10	0.263	0.75381	0.75476	0.75096
Y1	13800.77058	13,800.77	0.201	13832.11118	13790.70155	13779.49902
Y2A	655508.91931	655,508.92	0.485	655649.73404	658613.85202	652263.17186
Y2R	21994.32991	21,994.33	0.274	22025.74097	22032.42334	21924.82544
ZN	0.72861	14,491.14	0.327	0.73031	0.72963	0.72589
ZR	0.06488	53.46	3.975	0.06693	0.06572	0.06199

USP93 2498

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 32 Date/Time: 07/21/2011 21:51

Sample Number: **6339376** Class: **** Batch: **111935708005**

Initial Vol: 1.02 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00060	-184.87	41.140	0.00078	0.00069	0.00032
AL	294.72596	619,296.84	1.420	291.23122	299.36266	293.58400
AS	0.07314	24.90	3.477	0.07133	0.07204	0.07605
B	0.13485	4,759.78	2.599	0.13596	0.13767	0.13092
BA	0.90020	494,084.50	1.366	0.88619	0.90518	0.90923
BE	0.00817	6,851.73	0.222	0.00815	0.00817	0.00819
CA	42.65196	26,138.46	0.244	42.53245	42.72285	42.70059
CD	0.00366	813.84	19.151	0.00427	0.00382	0.00289
CO	0.10023	541.64	0.554	0.10084	0.09975	0.10010
CR	0.42657	7,581.24	0.233	0.42543	0.42727	0.42701
CU	0.13249	2,086.30	0.491	0.13181	0.13311	0.13254
FE	398.70463	2,443,397.51	1.126	395.46062	396.82462	403.82865
K	51.32900	18,906.75	0.464	51.07353	51.36924	51.54422
LI	0.44609	3,767.56	1.042	0.44320	0.45145	0.44361
MG	108.21603	117,868.62	0.658	107.46620	108.88439	108.29750
MN	2.95546	306,373.86	0.463	2.95724	2.96816	2.94096
MO	-0.00018	3.24	112.006	-0.00033	-0.00027	0.00005
NA	1.73393	1,844.71	1.070	1.74083	1.74804	1.71293
NI	0.17287	321.83	0.354	0.17230	0.17280	0.17352
P	5.05865	3,065.21	0.199	5.06676	5.06183	5.04738
PB	0.10665	261.48	2.363	0.10867	0.10383	0.10745
SB	0.00849	14.05	5.953	0.00906	0.00808	0.00835
SE	-0.05468	13.50	5.070	-0.05364	-0.05782	-0.05258
SI	20.50656	2,438.18	1.429	20.18028	20.74759	20.59181
SN	0.02543	17.02	2.864	0.02627	0.02502	0.02500
SR	0.31844	237,840.22	0.370	0.31763	0.31980	0.31791
TI	15.56724	1,329,111.56	1.119	15.37522	15.71506	15.61143
TL	0.03227	-24.81	3.361	0.03327	0.03112	0.03243
V	0.75000	12,423.09	0.337	0.74767	0.75269	0.74965
Y1	13764.87149	13,764.87	0.120	13780.29130	13747.47128	13766.85189
Y2A	658489.99668	658,490.00	0.777	664317.60119	654749.58527	656402.80358
Y2R	21737.36950	21,737.37	0.709	21886.80955	21578.98677	21746.31219
ZN	0.83245	16,494.50	0.395	0.83506	0.83353	0.82876
ZR	0.05327	41.99	0.397	0.05304	0.05334	0.05345

USF03 2459

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 33 Date/Time: 07/21/2011 21:55

Sample Number: **6339385** Class: **** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00185	-182.09	23.275	0.00197	0.00220	0.00137
AL	386.10146	796,445.44	1.764	393.66269	380.44350	384.19820
AS	0.09233	31.98	2.780	0.09126	0.09048	0.09526
B	0.15940	5,531.34	0.716	0.15828	0.16056	0.15935
BA	1.21219	665,124.24	1.143	1.21182	1.22622	1.19852
BE	0.01027	8,691.15	0.904	0.01037	0.01018	0.01025
CA	52.45587	33,109.92	1.486	53.33538	52.18127	51.85097
CD	0.00455	952.33	16.158	0.00392	0.00536	0.00438
CO	0.11767	641.11	0.593	0.11831	0.11777	0.11693
CR	0.41449	7,363.67	0.719	0.41776	0.41194	0.41376
CU	0.18262	2,864.31	1.688	0.18613	0.18035	0.18137
FE	460.82914	2,660,466.26	1.976	470.33619	452.18399	459.96723
K	63.87932	24,266.76	0.887	64.52433	63.64987	63.46376
LI	0.66936	5,828.31	0.126	0.67016	0.66944	0.66848
MG	112.13532	125,977.73	0.831	113.15913	111.90980	111.33704
MN	3.71948	385,438.05	0.749	3.75166	3.70293	3.70385
MO	-0.00032	2.60	57.511	-0.00051	-0.00015	-0.00029
NA	2.73671	2,901.26	0.211	2.73343	2.73334	2.74337
NI	0.20807	385.43	0.833	0.20996	0.20769	0.20656
P	3.43409	2,090.26	0.424	3.44413	3.44076	3.41740
PB	0.13908	339.39	2.573	0.13501	0.14047	0.14175
SB	0.01265	17.07	7.444	0.01165	0.01352	0.01278
SE	-0.06276	15.63	10.099	-0.05979	-0.05845	-0.07004
SI	21.96458	2,695.01	1.188	22.26498	21.83586	21.79291
SN	0.02617	17.56	0.557	0.02617	0.02602	0.02632
SR	0.73585	549,370.60	0.805	0.74193	0.73552	0.73010
TI	18.49919	1,578,960.02	0.810	18.67133	18.39813	18.42810
TL	0.03801	-28.13	1.019	0.03804	0.03761	0.03839
V	0.83853	13,898.97	1.173	0.84978	0.83157	0.83423
Y1	13830.59720	13,830.60	0.060	13823.40058	13839.62056	13828.77046
Y2A	658279.40523	658,279.41	0.637	653579.26344	661647.36406	659611.58820
Y2R	22439.56478	22,439.56	1.560	22105.58398	22409.23019	22803.88017
ZN	0.96713	19,242.03	0.415	0.97037	0.96839	0.96265
ZR	0.04359	34.04	10.783	0.03848	0.04455	0.04774

USF03 2580

LANCASTER LABORATORIES

Run Name: 1120205T70

Tube: 34

Sample Number: **CCV**

Instrument ID: 11016

Date/Time: 07/21/2011 21:59

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.50669	12,667.39	0.182	0.50772	0.50638	0.50595
AL	24.88647	56,312.43	0.343	24.97435	24.80413	24.88094
AS	0.49133	174.37	0.229	0.49232	0.49011	0.49156
B	0.48800	5,948.19	0.689	0.48871	0.48433	0.49094
BA	0.50053	280,163.47	0.640	0.50073	0.49724	0.50363
BE	0.48618	435,126.30	0.711	0.48996	0.48317	0.48543
CA	24.57487	15,339.05	0.245	24.50963	24.58685	24.62815
CD	0.48841	10,794.43	0.039	0.48858	0.48843	0.48821
CO	0.48381	2,006.89	0.160	0.48469	0.48350	0.48324
CR	0.50501	9,152.86	0.872	0.50717	0.49994	0.50792
CU	0.50132	8,264.93	0.212	0.50245	0.50119	0.50033
FE	25.74181	216,400.95	0.658	25.85987	25.54773	25.81785
K	24.32315	9,113.67	0.194	24.33608	24.27075	24.36262
LI	0.50591	4,322.24	0.289	0.50758	0.50523	0.50491
MG	25.13399	28,171.29	0.192	25.10885	25.10360	25.18952
MN	0.48780	51,563.72	0.501	0.49038	0.48553	0.48748
MO	0.48155	2,399.74	0.071	0.48160	0.48187	0.48119
NA	25.32483	24,863.11	0.168	25.35181	25.27585	25.34683
NI	0.48222	876.68	0.420	0.48443	0.48046	0.48177
P	0.50046	306.15	0.207	0.49942	0.50046	0.50149
PB	0.49110	787.13	0.208	0.49012	0.49216	0.49103
SB	0.51766	409.51	0.212	0.51710	0.51696	0.51893
SE	0.47951	171.36	0.579	0.48248	0.47697	0.47909
SI	25.96459	3,122.18	0.583	25.83203	25.93231	26.12941
SN	0.47257	296.97	0.054	0.47230	0.47260	0.47280
SR	0.50886	387,481.82	0.738	0.50759	0.50591	0.51309
TI	0.49335	43,202.49	0.383	0.49551	0.49257	0.49198
TL	0.48204	388.21	0.083	0.48251	0.48186	0.48177
V	0.51123	8,484.10	0.669	0.51348	0.50729	0.51292
Y1	13948.16578	13,948.17	0.144	13950.34642	13967.14110	13927.00981
Y2A	671375.72478	671,375.72	0.557	668375.43132	675567.62948	670184.11355
Y2R	22002.70517	22,002.71	0.426	22066.46964	21895.17719	22046.46868
ZN	0.47747	9,391.70	0.085	0.47794	0.47724	0.47723
ZR	0.49027	455.97	0.668	0.48774	0.48910	0.49396

USF03 2581

LANCASTER LABORATORIES

Run Name: 1120205T70

Tube: 35

Sample Number: **CCB**

Instrument ID: 11016

Date/Time: 07/21/2011 22:03

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00006	9.23	682.735	0.00036	0.00024	-0.00042
AL	-0.00376	138.66	31.696	-0.00245	-0.00407	-0.00477
AS	-0.00139	0.43	97.519	-0.00257	0.00009	-0.00169
B	-0.00234	29.50	10.140	-0.00248	-0.00248	-0.00207
BA	-0.00003	98.59	38.779	-0.00002	-0.00004	-0.00004
BE	0.00000	-335.93	537.918	-0.00001	0.00002	0.00000
CA	0.00457	155.95	140.573	0.00074	0.00099	0.01198
CD	0.00014	1.99	15.901	0.00012	0.00017	0.00015
CO	-0.00011	-2.18	57.760	-0.00007	-0.00008	-0.00018
CR	0.00022	-7.37	135.243	0.00041	-0.00012	0.00037
CU	-0.00068	80.18	89.925	-0.00019	-0.00137	-0.00049
FE	0.00171	7.29	26.449	0.00120	0.00206	0.00187
K	0.01134	88.10	189.827	0.01694	-0.01243	0.02951
LI	0.00176	28.96	46.862	0.00081	0.00221	0.00227
MG	0.00024	0.37	671.982	0.00163	0.00058	-0.00149
MN	0.00003	12.98	163.670	0.00007	-0.00002	0.00003
MO	0.00001	4.32	2093.203	0.00000	0.00026	-0.00023
NA	-0.02336	152.44	51.222	-0.03691	-0.01427	-0.01889
NI	-0.00022	18.68	64.660	-0.00031	-0.00006	-0.00029
P	-0.00139	-2.93	25.130	-0.00120	-0.00180	-0.00119
PB	-0.00133	5.07	88.418	-0.00182	0.00001	-0.00219
SB	0.00073	3.62	85.247	0.00143	0.00026	0.00049
SE	0.00135	2.14	117.743	0.00087	0.00005	0.00311
SI	-0.05220	4.34	52.303	-0.06068	-0.02167	-0.07426
SN	-0.00061	0.97	239.456	-0.00062	-0.00205	0.00085
SR	0.00000	26.81	566.391	0.00000	0.00001	-0.00002
TI	0.00010	55.37	53.743	0.00010	0.00014	0.00004
TL	-0.00204	-5.60	38.906	-0.00280	-0.00122	-0.00208
V	0.00080	-13.66	33.897	0.00112	0.00067	0.00062
Y1	14175.96755	14,175.97	0.284	14222.13760	14148.69714	14157.06793
Y2A	686105.32869	686,105.33	0.819	683107.43692	692586.47078	682622.07835
Y2R	21742.66393	21,742.66	0.497	21818.86663	21618.98703	21790.13813
ZN	-0.00022	12.01	25.333	-0.00019	-0.00019	-0.00028
ZR	-0.00168	-9.38	86.094	-0.00006	-0.00285	-0.00213

USP83 2552

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 36 Date/Time: 07/21/2011 22:07

Sample Number: **6339386** Class: **** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00083	-173.00	23.108	0.00080	0.00104	0.00066
AL	243.81735	513,984.77	0.890	241.46800	244.23938	245.74466
AS	0.08479	28.47	2.453	0.08245	0.08548	0.08643
B	0.10011	4,125.52	2.975	0.09804	0.09877	0.10353
BA	0.91860	500,803.54	1.131	0.92039	0.90743	0.92797
BE	0.00724	5,989.71	1.641	0.00714	0.00719	0.00737
CA	45.15889	28,167.44	0.691	44.79907	45.31916	45.35844
CD	0.00448	777.31	20.593	0.00526	0.00472	0.00346
CO	0.09133	491.90	1.443	0.09231	0.09183	0.08983
CR	0.38541	6,801.35	1.786	0.37964	0.38355	0.39303
CU	0.09438	1,475.24	1.298	0.09411	0.09331	0.09571
FE	372.45772	2,321,774.96	2.336	364.00371	371.98663	381.38283
K	56.37308	21,138.51	0.519	56.08024	56.66518	56.37382
LI	0.44872	3,859.76	0.673	0.44888	0.45166	0.44563
MG	98.98648	110,006.30	0.252	98.72052	99.21610	99.02284
MN	3.37239	347,194.63	1.484	3.34345	3.34355	3.43016
MO	0.00155	11.65	21.627	0.00160	0.00186	0.00119
NA	1.30545	1,458.50	1.483	1.31362	1.28335	1.31938
NI	0.14296	267.30	0.523	0.14375	0.14285	0.14227
P	7.76590	4,670.83	0.425	7.77603	7.79262	7.72905
PB	0.10069	235.21	0.916	0.09997	0.10173	0.10036
SB	0.00771	12.81	36.525	0.00481	0.00789	0.01044
SE	-0.05103	12.74	8.254	-0.04639	-0.05209	-0.05461
SI	19.67516	2,382.96	0.664	19.59134	19.82576	19.60838
SN	0.02570	17.06	4.042	0.02574	0.02672	0.02464
SR	0.29552	219,209.02	1.575	0.29272	0.29296	0.30090
TI	14.45263	1,225,500.06	1.843	14.28006	14.31844	14.75940
TL	0.02989	-23.19	6.436	0.03208	0.02851	0.02906
V	0.74553	12,250.77	1.577	0.73738	0.74020	0.75901
Y1	13660.38872	13,660.39	0.131	13679.92093	13656.27654	13644.96869
Y2A	654075.53555	654,075.54	1.745	664585.20612	655710.74518	641930.65536
Y2R	22137.66981	22,137.67	0.529	22265.94257	22036.75810	22110.30876
ZN	0.78493	15,430.24	0.503	0.78778	0.78658	0.78043
ZR	0.06479	53.71	4.767	0.06129	0.06592	0.06715

USF03 2583

LANCASTER LABORATORIES

Run Name: 1120205T70 Instrument ID: 11016

Tube: 37 Date/Time: 07/21/2011 22:12

Sample Number: **6339387** Class: **** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00106	-163.73	48.844	0.00050	0.00115	0.00152
AL	245.89604	514,697.40	0.203	245.81496	246.43011	245.44304
AS	0.08602	28.84	2.644	0.08509	0.08861	0.08435
B	0.10655	4,202.87	2.324	0.10596	0.10442	0.10927
BA	0.84268	456,333.36	0.560	0.83868	0.84789	0.84147
BE	0.00717	5,890.13	0.640	0.00711	0.00720	0.00718
CA	45.72077	27,522.94	0.031	45.72827	45.72968	45.70436
CD	0.00381	769.63	8.209	0.00416	0.00355	0.00373
CO	0.09197	494.63	0.634	0.09257	0.09140	0.09193
CR	0.38471	6,744.28	0.666	0.38197	0.38704	0.38511
CU	0.10308	1,602.20	0.487	0.10258	0.10358	0.10308
FE	376.49082	2,323,177.52	0.773	375.20155	379.82502	374.44590
K	43.30258	15,691.99	0.486	43.34057	43.49129	43.07588
LI	0.48041	3,987.49	0.607	0.48351	0.47772	0.48001
MG	107.77504	115,404.22	0.453	108.27139	107.29538	107.75835
MN	3.23263	330,604.86	0.389	3.21926	3.23444	3.24419
MO	-0.00005	3.86	564.928	-0.00019	0.00027	-0.00023
NA	1.54325	1,632.82	1.387	1.55932	1.51895	1.55148
NI	0.14145	264.43	0.545	0.14233	0.14114	0.14088
P	6.01863	3,616.15	0.273	6.03752	6.01053	6.00784
PB	0.09735	229.72	1.124	0.09626	0.09845	0.09736
SB	0.00991	14.54	15.693	0.00838	0.01149	0.00985
SE	-0.05294	12.36	4.886	-0.05035	-0.05295	-0.05552
SI	18.57389	2,171.91	0.983	18.74377	18.38086	18.59704
SN	0.02116	14.26	2.541	0.02056	0.02132	0.02159
SR	0.31525	232,290.00	0.595	0.31348	0.31722	0.31504
TI	14.52231	1,223,308.10	0.405	14.46468	14.58216	14.52008
TL	0.02809	-25.05	6.401	0.02910	0.02915	0.02601
V	0.73064	11,931.69	0.549	0.72784	0.73524	0.72883
Y1	13647.70626	13,647.71	0.102	13634.38919	13662.26317	13646.46641
Y2A	649650.66357	649,650.66	0.548	653463.13869	646406.28733	649082.56470
Y2R	21367.55649	21,367.56	0.224	21312.40962	21393.98206	21396.27779
ZN	0.76535	15,050.34	0.220	0.76696	0.76547	0.76360
ZR	0.05449	42.38	1.928	0.05556	0.05346	0.05445

USF83 2584

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 38

Date/Time: 07/21/2011 22:16

Sample Number: **LLC**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00509	135.58	7.185	0.00551	0.00494	0.00483
AL	0.18658	570.88	1.205	0.18874	0.18676	0.18425
AS	0.02034	8.16	8.535	0.02234	0.01948	0.01921
B	0.04618	599.79	0.027	0.04619	0.04618	0.04616
BA	0.00495	2,899.21	0.927	0.00495	0.00499	0.00490
BE	0.00486	4,045.39	0.492	0.00488	0.00486	0.00483
CA	0.20408	269.53	1.858	0.20367	0.20807	0.20052
CD	0.00504	111.08	0.561	0.00503	0.00508	0.00502
CO	0.00483	18.57	2.495	0.00474	0.00497	0.00479
CR	0.01581	277.52	1.052	0.01567	0.01578	0.01599
CU	0.00922	241.42	5.727	0.00900	0.00883	0.00982
FE	0.21926	1,879.67	1.049	0.22131	0.21970	0.21677
K	0.45780	244.14	1.327	0.45841	0.45144	0.46354
LI	0.02096	184.61	7.630	0.01912	0.02179	0.02197
MG	0.10611	114.59	0.791	0.10702	0.10537	0.10594
MN	0.00511	552.65	0.722	0.00513	0.00512	0.00506
MO	0.00935	51.12	2.248	0.00923	0.00959	0.00923
NA	0.99641	1,099.85	1.370	0.98383	1.01092	0.99450
NI	0.01028	37.37	3.361	0.01030	0.00992	0.01061
P	0.09743	58.33	1.897	0.09780	0.09907	0.09543
PB	0.01449	29.59	9.788	0.01566	0.01489	0.01291
SB	0.02173	20.18	3.851	0.02255	0.02088	0.02177
SE	0.02073	8.98	9.283	0.01854	0.02150	0.02215
SI	-0.04898	4.60	42.948	-0.04571	-0.07147	-0.02977
SN	0.01893	13.29	2.138	0.01925	0.01907	0.01848
SR	0.00503	3,878.07	0.933	0.00508	0.00501	0.00499
TI	0.01088	1,001.50	0.809	0.01092	0.01094	0.01078
TL	0.02664	18.03	2.247	0.02595	0.02694	0.02702
V	0.00575	69.37	1.505	0.00571	0.00585	0.00568
Y1	14065.60356	14,065.60	0.208	14099.33845	14047.47223	14050.00000
Y2A	675507.13811	675,507.14	0.532	672970.81673	673932.15471	679618.44290
Y2R	21074.81617	21,074.82	0.616	21164.07301	20925.84039	21134.53512
ZN	0.01883	386.57	0.135	0.01886	0.01881	0.01882
ZR	0.05079	38.47	6.218	0.05360	0.04737	0.05140

USF03 2585

LANCASTER LABORATORIES

Run Name: 1120205T70

Tube: 39

Sample Number: **ICSA**

Instrument ID: 11016

Date/Time: 07/21/2011 22:20

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00078	-12.95	60.389	-0.00075	-0.00032	-0.00126
AL	571.81319	1,035,804.11	1.178	573.92993	564.27080	577.23884
AS	0.01305	8.44	9.238	0.01316	0.01179	0.01419
B	0.01093	1,644.73	0.366	0.01092	0.01090	0.01098
BA	0.00068	442.78	2.942	0.00066	0.00070	0.00068
BE	-0.00034	-569.13	7.815	-0.00033	-0.00032	-0.00037
CA	493.55924	267,449.47	0.761	490.27616	497.65822	492.74334
CD	0.00469	433.53	4.827	0.00484	0.00480	0.00443
CO	0.00291	9.29	15.005	0.00304	0.00243	0.00327
CR	0.00221	25.88	3.272	0.00224	0.00226	0.00212
CU	-0.00057	71.96	140.946	-0.00128	0.00030	-0.00072
FE	204.63813	1,348,955.48	1.153	204.59123	202.30311	207.02006
K	-0.05533	59.39	28.525	-0.03783	-0.05969	-0.06848
LI	0.00242	50.85	127.815	-0.00107	0.00481	0.00351
MG	509.93620	476,983.51	1.140	508.20927	516.41472	505.18460
MN	0.00433	417.44	0.690	0.00429	0.00433	0.00435
MO	-0.00060	1.09	52.570	-0.00089	-0.00027	-0.00064
NA	0.01200	174.12	93.529	0.01218	0.02314	0.00069
NI	-0.00049	16.00	181.039	-0.00025	-0.00148	0.00025
P	0.00367	0.21	39.976	0.00303	0.00536	0.00264
PB	-0.01244	142.09	34.742	-0.01644	-0.00785	-0.01302
SB	0.00784	8.20	14.101	0.00691	0.00906	0.00754
SE	0.00181	16.11	204.462	0.00608	-0.00007	-0.00057
SI	-0.05160	4.12	40.506	-0.03217	-0.07372	-0.04892
SN	-0.00147	0.38	256.465	0.00048	-0.00580	0.00092
SR	0.00341	2,346.02	0.297	0.00342	0.00340	0.00341
TI	-0.00044	6.35	42.211	-0.00062	-0.00025	-0.00046
TL	0.02172	-2.52	11.394	0.02080	0.02453	0.01984
V	-0.00021	25.88	111.002	-0.00011	-0.00048	-0.00004
Y1	12472.50406	12,472.50	0.159	12469.45658	12454.40678	12493.64881
Y2A	600395.83931	600,395.84	0.804	600604.34350	605115.83223	595467.34219
Y2R	20297.07230	20,297.07	0.400	20203.30460	20340.67966	20347.23263
ZN	0.00311	423.85	10.150	0.00303	0.00346	0.00284
ZR	-0.00730	-13.66	30.092	-0.00983	-0.00600	-0.00606

USF03 2586

LANCASTER LABORATORIES

Run Name: 1120205T70

Tube: 40

Sample Number: **ICSAB**

Instrument ID: 11016

Date/Time: 07/21/2011 22:24

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.22144	4,925.14	1.261	0.21966	0.22465	0.21999
AL	576.71510	1,049,088.69	1.683	568.70408	587.50829	573.93292
AS	0.11394	40.31	1.982	0.11509	0.11134	0.11539
B	0.01074	1,636.01	4.636	0.01051	0.01132	0.01041
BA	0.51001	256,613.73	1.294	0.50704	0.51757	0.50541
BE	0.49809	400,752.72	0.910	0.49434	0.50313	0.49681
CA	493.65041	275,493.96	0.023	493.62362	493.77516	493.55247
CD	0.92768	18,544.62	0.268	0.93013	0.92772	0.92517
CO	0.46180	1,705.60	0.179	0.46265	0.46176	0.46100
CR	0.48804	7,950.78	1.507	0.48286	0.49646	0.48479
CU	0.54032	8,004.92	1.157	0.53993	0.54676	0.53427
FE	203.00160	1,346,838.20	1.854	200.60446	207.33976	201.06058
K	-0.00381	79.37	1518.496	0.01323	-0.06826	0.04361
LI	0.00161	45.78	114.879	0.00338	-0.00031	0.00175
MG	505.63371	487,548.20	1.627	500.30297	515.10926	501.48891
MN	0.47212	44,863.76	1.067	0.46889	0.47793	0.46955
MO	-0.00101	-0.76	26.585	-0.00083	-0.00132	-0.00089
NA	0.03136	197.25	20.353	0.03837	0.02981	0.02590
NI	0.88703	1,423.55	0.519	0.89193	0.88636	0.88280
P	0.00395	1.05	34.831	0.00518	0.00421	0.00246
PB	0.03462	208.48	8.548	0.03575	0.03127	0.03685
SB	0.63166	448.69	0.492	0.63418	0.63261	0.62818
SE	0.05664	33.12	4.841	0.05350	0.05788	0.05855
SI	-0.02992	6.72	25.772	-0.02378	-0.02740	-0.03857
SN	-0.00148	0.37	102.409	-0.00202	0.00023	-0.00265
SR	0.00339	2,345.88	1.522	0.00335	0.00345	0.00338
TI	-0.00009	121.41	151.508	-0.00020	-0.00015	0.00007
TL	0.10750	60.92	3.127	0.10902	0.10983	0.10365
V	0.50759	7,617.84	1.383	0.50358	0.51570	0.50350
Y1	12439.81127	12,439.81	0.139	12420.12366	12446.80368	12452.50645
Y2A	603586.36114	603,586.36	1.532	611311.21262	593338.61829	606109.25249
Y2R	20904.18542	20,904.19	0.184	20892.47881	20873.03223	20947.04523
ZN	1.00510	17,865.75	0.276	1.00816	1.00439	1.00276
ZR	-0.00875	-15.38	53.539	-0.00399	-0.00890	-0.01335

USF03 2587

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 41

Date/Time: 07/21/2011 22:28

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.51228	12,520.06	0.559	0.51305	0.50911	0.51467
AL	25.04780	55,403.87	0.702	25.13690	24.84531	25.16119
AS	0.49725	174.57	0.467	0.49717	0.49497	0.49960
B	0.49161	5,858.77	0.723	0.49332	0.48752	0.49398
BA	0.50536	276,522.22	0.656	0.50780	0.50158	0.50669
BE	0.49593	433,909.15	0.325	0.49514	0.49487	0.49779
CA	25.11213	15,078.48	0.922	25.31950	24.86232	25.15459
CD	0.49193	10,756.35	0.567	0.49439	0.49249	0.48890
CO	0.48665	1,997.11	0.470	0.48822	0.48769	0.48402
CR	0.51040	9,043.30	0.435	0.51216	0.50791	0.51113
CU	0.50575	8,149.97	0.456	0.50695	0.50309	0.50720
FE	26.09527	214,403.03	0.353	26.16379	25.99060	26.13142
K	24.92961	8,986.09	0.987	25.19069	24.70178	24.89637
LI	0.50780	4,174.67	0.389	0.50934	0.50558	0.50848
MG	25.44584	27,442.57	0.591	25.59168	25.29117	25.45468
MN	0.49718	51,376.75	0.439	0.49861	0.49467	0.49826
MO	0.48542	2,393.13	0.372	0.48749	0.48465	0.48414
NA	25.42509	24,018.79	0.472	25.50122	25.28669	25.48735
NI	0.48674	875.27	0.372	0.48772	0.48786	0.48465
P	0.50042	302.87	0.139	0.50012	0.49993	0.50122
PB	0.49460	784.22	0.530	0.49720	0.49466	0.49195
SB	0.52331	409.56	0.238	0.52394	0.52187	0.52411
SE	0.48085	170.01	1.199	0.48636	0.48133	0.47487
SI	26.16780	3,027.79	0.394	26.28589	26.09509	26.12241
SN	0.47355	294.40	0.731	0.47626	0.47473	0.46965
SR	0.51494	383,317.54	0.858	0.51768	0.51730	0.50985
TI	0.50035	42,831.29	0.534	0.50066	0.49754	0.50286
TL	0.48698	388.02	0.204	0.48588	0.48780	0.48727
V	0.51517	8,358.05	0.854	0.51713	0.51012	0.51824
Y1	13799.16097	13,799.16	0.237	13772.32111	13789.48956	13835.67222
Y2A	656310.12894	656,310.13	0.122	657217.94489	655996.51626	655715.92568
Y2R	21172.79248	21,172.79	0.687	21021.29052	21311.36817	21185.71874
ZN	0.48101	9,360.46	0.283	0.48219	0.48131	0.47953
ZR	0.49795	445.76	0.706	0.50133	0.49821	0.49431

USP83 2569

LANCASTER LABORATORIES

Run Name: 1120205T70

Instrument ID: 11016

Tube: 42

Date/Time: 07/21/2011 22:32

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00012	10.75	257.220	0.00042	-0.00018	0.00011
AL	-0.00024	147.12	680.074	-0.00162	-0.00070	0.00159
AS	-0.00009	0.90	3229.879	0.00215	0.00115	-0.00358
B	-0.00217	31.64	11.875	-0.00231	-0.00233	-0.00187
BA	-0.00004	96.55	49.603	-0.00004	-0.00005	-0.00002
BE	0.00002	-321.21	48.985	0.00002	0.00003	0.00001
CA	0.00088	155.26	98.364	-0.00012	0.00144	0.00131
CD	0.00011	1.28	64.702	0.00013	0.00003	0.00018
CO	-0.00013	-2.25	138.483	0.00007	-0.00026	-0.00019
CR	0.00027	-6.35	99.928	0.00058	0.00014	0.00009
CU	-0.00048	83.76	159.657	-0.00103	0.00040	-0.00081
FE	0.00444	31.18	5.410	0.00443	0.00468	0.00420
K	0.00269	85.74	1649.424	0.02439	0.03208	-0.04839
LI	0.00039	17.65	298.718	-0.00041	-0.00015	0.00174
MG	0.00833	9.47	21.076	0.00929	0.00940	0.00630
MN	0.00005	14.86	99.594	0.00009	0.00000	0.00004
MO	0.00014	4.95	11.903	0.00016	0.00012	0.00014
NA	-0.03158	146.01	51.873	-0.01405	-0.04650	-0.03418
NI	-0.00025	18.63	368.115	-0.00129	0.00031	0.00025
P	-0.00128	-2.86	93.238	-0.00261	-0.00029	-0.00094
PB	-0.00100	5.60	104.565	-0.00086	-0.00210	-0.00003
SB	0.00014	3.15	165.639	-0.00011	0.00017	0.00034
SE	0.00016	1.72	226.626	0.00003	-0.00012	0.00056
SI	-0.05492	4.07	12.548	-0.06284	-0.05032	-0.05159
SN	-0.00050	1.04	110.344	-0.00057	-0.00102	0.00008
SR	0.00001	34.89	236.799	0.00001	0.00003	-0.00001
TI	0.00001	47.50	604.190	0.00000	0.00005	-0.00003
TL	-0.00365	-6.93	24.769	-0.00329	-0.00298	-0.00468
V	0.00064	-16.52	20.178	0.00061	0.00053	0.00078
Y1	14174.36930	14,174.37	0.040	14170.43742	14180.89530	14171.77517
Y2A	687628.06552	687,628.07	0.491	691505.72709	685368.11089	686010.35857
Y2R	21963.94435	21,963.94	0.224	21930.28187	21941.26123	22020.28995
ZN	-0.00025	11.45	26.800	-0.00019	-0.00023	-0.00032
ZR	0.00212	-5.90	199.719	0.00697	-0.00076	0.00014

USP63 2589

Lancaster Laboratories

ICP-AES Run Data Report

1120304T70

Reviewed By
Joanne M Gates

Reviewed Date
07/22/2011 12:42PM

Data File Name 1120304T70.TXT
Run Name: 1120304T70

Method Reference Name(s):
SW-846 6010B

Verified By:
Deborah A Krady
Max E Snavely

Verified Date
07/22/2011 12:56PM
07/19/2011 8:07PM

Analyst Employee: 1170

Instrument Parameters:

Individual Integration Time: 10.00 sec Total Integration Time: 30.00 sec

Element	Analyte Name	Wavelength Value
AG	Silver	328.06
AL	Aluminum	308.21
AS	Arsenic	189.04
AU	Gold	242.80
B	Boron	249.67
BA	Barium	455.40
BE	Beryllium	313.04
CA	Calcium	317.93
CD	Cadmium	226.50
CO	Cobalt	228.62
CR	Chromium	267.72
CU	Copper	327.40
FE	Iron	261.19
K	Potassium	766.49
LI	Lithium	670.78
MG	Magnesium	285.21
MN	Manganese	257.61
MO	Molybdenum	202.03
NA	Sodium	589.59
NI	Nickel	231.60
P	Phosphorus	177.49
PB	Lead	220.35
SB	Antimony	206.83
SE	Selenium	196.09
SI	Silicon	251.60
SN	Tin	189.99
SR	Strontium	421.55
TI	Titanium	334.94
TL	Thallium	190.86
V	Vanadium	292.40
Y1	Yttrium	224.31
Y2	Yttrium	371.03
ZN	Zinc	213.86
ZR	Zirconium	339.19

The TRACE ICP utilizes Yttrium as an internal standard to compensate for fluctuations in nebulization and plasma conditions. All Yttrium readings are expressed in counts.

USF63 2518

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 1 Date/Time: 07/22/2011 09:44

Sample Number: **S0**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	0.000	0.00043	80.013	0.00003	0.00063	0.00062
AL	0.000	0.00915	5.375	0.00880	0.00971	0.00894
AS	0.000	0.00224	76.703	0.00378	0.00039	0.00256
B	0.000	0.00009	9.844	0.00009	0.00010	0.00008
BA	0.000	0.00013	17.018	0.00011	0.00013	0.00015
BE	0.000	-0.02683	3.112	-0.02651	-0.02621	-0.02778
CA	0.000	0.00736	0.574	0.00732	0.00741	0.00736
CD	0.000	0.00752	40.557	0.00570	0.00582	0.01105
CO	0.000	-0.00835	34.648	-0.01024	-0.00978	-0.00502
CR	0.000	-0.00001	99.523	-0.00001	0.00000	0.00000
CU	0.000	0.00651	9.760	0.00643	0.00591	0.00718
FE	0.000	0.00001	52.333	0.00000	0.00001	0.00000
K	0.000	0.17800	30.182	0.11600	0.21080	0.20719
LI	0.000	0.00094	53.429	0.00092	0.00045	0.00146
MG	0.000	0.00000	4873.826	0.00008	0.00001	-0.00009
MN	0.000	0.00041	73.738	0.00064	0.00053	0.00007
MO	0.000	0.01071	22.007	0.00890	0.01337	0.00985
NA	0.000	0.00536	12.846	0.00509	0.00614	0.00485
NI	0.000	0.06416	11.085	0.05601	0.06734	0.06912
P	0.000	-0.00023	31.415	-0.00031	-0.00020	-0.00017
PB	0.000	0.02357	21.576	0.01804	0.02804	0.02464
SB	0.000	0.00023	3.542	0.00023	0.00022	0.00023
SE	0.000	0.00720	13.917	0.00733	0.00614	0.00813
SI	0.000	0.00042	29.579	0.00035	0.00035	0.00057
SN	0.000	0.00338	8.532	0.00335	0.00368	0.00311
SR	0.000	0.00003	54.794	0.00003	0.00005	0.00002
TI	0.000	0.00338	7.080	0.00333	0.00364	0.00317
TL	0.000	-0.02592	3.731	-0.02588	-0.02498	-0.02692
V	0.000	-0.00116	15.417	-0.00129	-0.00096	-0.00124
Y1	0.000	12970.53144	0.136	12987.79360	12971.23293	12952.56779
Y2A	0.000	645120.77026	0.393	642596.67332	647660.92297	645104.71448
Y2R	0.000	20695.29193	0.543	20809.88648	20690.60478	20585.38452
ZN	0.000	0.05475	13.203	0.06246	0.05370	0.04811
ZR	0.000	-0.00017	52.243	-0.00019	-0.00024	-0.00007

USF93 2511

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 2

Date/Time: 07/22/2011 09:48

Sample Number: **S1**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AL	50.000	8.80146	0.832	8.86926	8.81135	8.72377
CA	50.000	1.27849	0.849	1.27194	1.29102	1.27250
FE	50.000	0.61598	0.855	0.62205	0.61312	0.61276
K	50.000	42.18839	1.035	41.95225	42.69236	41.92056
MG	50.000	2.58318	0.687	2.57420	2.60361	2.57172
NA	50.000	2.40891	0.554	2.39592	2.42259	2.40823
SI	50.000	0.29016	0.747	0.28806	0.29239	0.29004
Y2A	50.000	612148.08264	0.816	607302.19415	611859.09242	617282.96136
Y2R	50.000	20502.96183	0.827	20615.46430	20307.83898	20585.58221

USF63 2512

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 3

Date/Time: 07/22/2011 09:52

Sample Number: **S2**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	1.000	1.88902	0.713	1.87472	1.89087	1.90147
AS	1.000	1.26159	0.121	1.26001	1.26306	1.26170
B	1.000	0.01795	0.724	0.01785	0.01791	0.01810
BA	1.000	0.81413	0.702	0.80891	0.81324	0.82024
BE	1.000	65.08346	0.643	64.60794	65.24836	65.39407
CD	1.000	76.23105	0.117	76.21584	76.32700	76.15032
CO	1.000	14.34731	0.025	14.35089	14.34373	14.34732
CU	1.000	1.22301	0.672	1.21431	1.22410	1.23063
LI	1.000	0.40886	1.157	0.40343	0.41105	0.41209
MN	1.000	7.38522	0.600	7.33489	7.40219	7.41858
NI	1.000	5.99200	0.213	5.98924	6.00590	5.98088
P	1.000	0.04422	0.283	0.04408	0.04431	0.04427
PB	1.000	5.35276	0.170	5.34494	5.36274	5.35062
SE	1.000	1.19654	0.623	1.20285	1.18831	1.19847
SR	1.000	1.18985	1.197	1.17460	1.20280	1.19215
TL	1.000	2.74049	0.423	2.75330	2.73074	2.73744
Y1	1.000	12725.00560	0.126	12740.94941	12708.94929	12725.11812
Y2A	1.000	633320.62906	0.603	637533.99867	632346.72185	630081.16667
Y2R	1.000	20623.99645	0.646	20773.16845	20516.92241	20581.89848
ZN	1.000	69.36801	0.087	69.35665	69.43320	69.31419

USP83 2513

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 4

Date/Time: 07/22/2011 09:56

Sample Number: **S3**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
CR	1.000	0.02739	0.469	0.02752	0.02727	0.02737
MO	1.000	17.15034	0.086	17.16049	17.13334	17.15718
SB	1.000	0.05846	0.208	0.05853	0.05832	0.05853
SN	1.000	2.07512	0.105	2.07346	2.07431	2.07758
TI	1.000	6.23701	0.216	6.24821	6.22208	6.24075
V	1.000	1.25830	0.407	1.26410	1.25439	1.25641
Y1	1.000	13067.80812	0.130	13048.36320	13079.97376	13075.08741
Y2A	1.000	651739.79637	0.208	650994.48871	653304.83068	650920.06972
Y2R	1.000	20993.32525	0.512	20888.41357	20988.38037	21103.18182
ZR	1.000	0.04073	0.772	0.04094	0.04037	0.04089

USP83 2514

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 5

Date/Time: 07/22/2011 10:00

Sample Number: **ICV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.60575	14,410.31	0.075	0.60533	0.60568	0.60623
AL	29.01448	65,201.44	0.275	28.93837	29.00748	29.09759
AS	0.59797	192.55	0.278	0.59626	0.59958	0.59807
B	0.58693	6,949.84	0.361	0.58451	0.58781	0.58846
BA	0.60679	313,623.67	0.963	0.60007	0.60967	0.61064
BE	0.59603	492,369.40	0.632	0.59331	0.60032	0.59444
CA	30.61626	16,326.08	0.344	30.72806	30.60191	30.51881
CD	0.59978	11,672.50	0.108	0.59914	0.59975	0.60043
CO	0.59517	2,173.69	0.084	0.59533	0.59461	0.59558
CR	0.59229	10,292.84	0.256	0.59054	0.59308	0.59325
CU	0.59988	9,342.99	0.541	0.60001	0.59657	0.60306
FE	30.25796	239,897.74	0.177	30.20655	30.25395	30.31336
K	29.75377	10,442.43	0.770	29.71581	29.99936	29.54614
LI	0.59970	5,093.59	0.668	0.59559	0.60359	0.59991
MG	29.96404	32,228.60	0.299	29.94373	30.06216	29.88623
MN	0.59541	55,828.91	0.347	0.59481	0.59371	0.59770
MO	0.59915	2,613.32	0.048	0.59893	0.59948	0.59906
NA	29.68486	29,702.31	0.507	29.62390	29.85630	29.57438
NI	0.60293	925.44	0.408	0.60282	0.60545	0.60053
P	0.60475	339.17	0.259	0.60449	0.60333	0.60643
PB	0.59858	821.17	0.212	0.59821	0.59754	0.60000
SB	0.62676	466.53	0.070	0.62705	0.62625	0.62697
SE	0.59510	183.77	0.452	0.59373	0.59820	0.59336
SI	-0.02336	5.97	61.860	-0.03096	-0.03242	-0.00669
SN	0.59455	313.99	0.197	0.59408	0.59589	0.59370
SR	0.59838	451,967.73	0.423	0.59551	0.59934	0.60028
TI	0.59925	47,685.40	0.274	0.59905	0.59772	0.60098
TL	0.59793	413.09	0.142	0.59883	0.59781	0.59715
V	0.60325	9,635.66	0.439	0.60038	0.60377	0.60560
Y1	12710.72604	12,710.73	0.133	12730.03391	12703.90957	12698.23466
Y2A	634800.90249	634,800.90	0.321	637022.74386	634353.83852	633026.12508
Y2R	20736.57590	20,736.58	0.497	20658.96861	20853.42210	20697.33698
ZN	0.58193	10,313.86	0.078	0.58147	0.58196	0.58237
ZR	0.61171	513.92	0.939	0.60604	0.61752	0.61158

USP83 2515

LANCASTER LABORATORIES

Run Name: 1120304T70

Tube: 6

Sample Number: **ICB**

Instrument ID: 11016

Date/Time: 07/22/2011 10:04

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00029	12.40	33.698	0.00026	0.00039	0.00020
AL	0.00061	120.46	574.630	-0.00237	-0.00028	0.00449
AS	0.00081	0.86	207.196	0.00022	0.00270	-0.00049
B	-0.00240	29.46	10.664	-0.00262	-0.00212	-0.00247
BA	0.00002	97.34	76.101	0.00001	0.00004	0.00002
BE	-0.00002	-336.15	60.884	-0.00001	-0.00003	-0.00002
CA	-0.00363	152.95	134.072	-0.00618	0.00198	-0.00671
CD	0.00016	2.09	7.050	0.00015	0.00017	0.00015
CO	-0.00012	-2.08	129.084	-0.00031	-0.00003	-0.00003
CR	0.00005	-9.75	881.162	-0.00021	-0.00021	0.00057
CU	-0.00054	76.06	68.315	-0.00062	-0.00087	-0.00014
FE	0.00255	12.68	28.244	0.00311	0.00281	0.00174
K	-0.01538	69.42	286.032	-0.05538	0.03173	-0.02249
LI	0.00080	26.77	29.212	0.00095	0.00053	0.00093
MG	0.00044	0.52	432.285	0.00036	0.00235	-0.00141
MN	0.00006	11.19	139.566	0.00008	-0.00003	0.00013
MO	0.00065	5.72	26.316	0.00081	0.00065	0.00047
NA	0.00981	122.67	53.174	0.00781	0.01573	0.00589
NI	0.00037	17.41	156.859	0.00044	0.00090	-0.00024
P	-0.00142	-2.72	63.927	-0.00140	-0.00234	-0.00052
PB	-0.00033	5.70	229.489	0.00053	-0.00066	-0.00086
SB	-0.00017	2.82	655.249	-0.00077	-0.00086	0.00112
SE	0.00102	2.21	115.700	0.00231	0.00000	0.00074
SI	-0.04479	3.45	14.614	-0.05234	-0.04139	-0.04065
SN	0.00091	1.38	145.928	0.00205	-0.00055	0.00122
SR	0.00002	31.25	134.932	0.00002	0.00003	-0.00001
TI	-0.00002	42.18	264.641	-0.00002	0.00003	-0.00009
TL	-0.00205	-5.19	59.562	-0.00075	-0.00223	-0.00317
V	0.00065	-14.59	24.424	0.00049	0.00080	0.00067
Y1	13126.12888	13,126.13	0.243	13155.06205	13131.35823	13091.96637
Y2A	650340.92519	650,340.93	0.552	654222.19456	647137.16799	649663.41301
Y2R	21041.59548	21,041.60	0.934	21250.67348	21013.49028	20860.62267
ZN	-0.00027	9.55	22.708	-0.00020	-0.00030	-0.00031
ZR	0.00571	-2.39	32.207	0.00540	0.00768	0.00404

USF03 2516

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 7

Date/Time: 07/22/2011 10:08

Sample Number: **LLC**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00525	133.05	1.460	0.00523	0.00518	0.00533
AL	0.18019	534.78	3.348	0.17386	0.18587	0.18085
AS	0.02017	7.26	1.853	0.01976	0.02027	0.02049
B	0.04464	577.25	1.103	0.04456	0.04517	0.04419
BA	0.00511	2,788.56	0.982	0.00506	0.00516	0.00511
BE	0.00478	3,725.45	0.629	0.00476	0.00482	0.00477
CA	0.20225	263.58	2.922	0.20030	0.20889	0.19756
CD	0.00513	101.91	1.403	0.00518	0.00517	0.00505
CO	0.00491	16.94	3.176	0.00509	0.00480	0.00485
CR	0.01522	260.34	1.324	0.01545	0.01516	0.01506
CU	0.00985	240.03	1.979	0.01007	0.00970	0.00977
FE	0.20850	1,717.97	0.953	0.20630	0.21017	0.20904
K	0.44353	231.67	8.141	0.40771	0.47992	0.44295
LI	0.01812	175.35	7.733	0.01719	0.01973	0.01745
MG	0.10131	111.22	0.749	0.10132	0.10055	0.10206
MN	0.00523	506.75	0.662	0.00524	0.00519	0.00525
MO	0.01002	47.83	0.728	0.01002	0.01009	0.00994
NA	0.95248	1,075.86	1.429	0.96733	0.94058	0.94954
NI	0.01035	32.93	0.911	0.01026	0.01035	0.01045
P	0.09729	54.59	0.970	0.09837	0.09663	0.09686
PB	0.01594	28.44	2.694	0.01545	0.01612	0.01625
SB	0.02114	19.05	3.760	0.02186	0.02128	0.02028
SE	0.01737	7.32	8.813	0.01875	0.01572	0.01763
SI	-0.04648	3.25	32.526	-0.02906	-0.05615	-0.05423
SN	0.01990	11.70	6.642	0.02018	0.02105	0.01846
SR	0.00500	3,879.53	0.807	0.00497	0.00504	0.00498
TI	0.01004	858.74	1.583	0.00989	0.01021	0.01002
TL	0.02735	16.01	7.570	0.02897	0.02502	0.02807
V	0.00580	69.73	0.917	0.00574	0.00584	0.00582
Y1	13112.76135	13,112.76	0.235	13146.65584	13105.34807	13086.28014
Y2A	649506.15317	649,506.15	1.032	657242.86189	645789.04382	645486.55378
Y2R	21034.97481	21,034.97	0.416	21051.38056	20940.39516	21113.14870
ZN	0.01902	359.34	0.420	0.01911	0.01895	0.01900
ZR	0.05184	37.48	5.207	0.05485	0.04963	0.05105

USP63 2517

LANCASTER LABORATORIES

Run Name: 1120304T70

Tube: 8

Sample Number: **ICSA**

Instrument ID: 11016

Date/Time: 07/22/2011 10:11

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00046	-7.01	47.087	-0.00021	-0.00060	-0.00056
AL	548.07896	1,007,839.69	1.917	541.46385	542.57942	560.19360
AS	0.01493	8.03	23.065	0.01285	0.01891	0.01304
B	0.00756	1,537.85	4.114	0.00751	0.00728	0.00789
BA	0.00070	405.23	3.197	0.00068	0.00069	0.00073
BE	-0.00035	-543.68	6.658	-0.00036	-0.00036	-0.00032
CA	501.23229	242,803.77	0.435	500.79363	499.30640	503.59683
CD	0.00761	431.30	4.410	0.00770	0.00788	0.00723
CO	0.00302	8.64	24.328	0.00293	0.00379	0.00233
CR	0.00190	20.66	3.808	0.00188	0.00199	0.00185
CU	-0.00206	46.23	26.141	-0.00258	-0.00151	-0.00208
FE	196.95095	1,255,012.97	1.496	196.00131	194.59744	200.25411
K	-0.00953	68.01	185.135	-0.02181	-0.01747	0.01069
LI	0.00065	43.78	182.540	0.00057	-0.00049	0.00187
MG	491.63760	463,753.49	0.854	494.50874	486.82192	493.58213
MN	0.00428	369.67	1.842	0.00433	0.00419	0.00433
MO	-0.00028	1.36	166.947	0.00024	-0.00067	-0.00043
NA	0.06019	165.10	33.283	0.03721	0.07394	0.06943
NI	-0.00085	13.76	44.861	-0.00081	-0.00125	-0.00049
P	0.00353	0.14	35.889	0.00208	0.00411	0.00440
PB	0.00285	126.75	108.249	0.00572	0.00324	-0.00041
SB	0.00425	5.54	15.128	0.00493	0.00365	0.00418
SE	0.00769	15.80	52.544	0.01169	0.00776	0.00361
SI	-0.05354	2.27	17.190	-0.06231	-0.05436	-0.04396
SN	-0.00168	-0.03	101.855	0.00016	-0.00324	-0.00197
SR	0.00328	2,267.27	1.424	0.00323	0.00328	0.00333
TI	-0.00047	5.47	42.342	-0.00032	-0.00038	-0.00069
TL	0.02296	-1.20	5.665	0.02379	0.02363	0.02146
V	-0.00075	16.49	38.479	-0.00042	-0.00087	-0.00096
Y1	11643.35187	11,643.35	0.127	11638.10000	11631.88189	11660.07372
Y2A	576625.00000	576,625.00	1.280	580469.78405	581290.08306	568115.13289
Y2R	20004.50830	20,004.51	0.459	19979.67033	20106.13772	19927.71685
ZN	0.00485	406.25	5.828	0.00505	0.00496	0.00452
ZR	-0.00930	-14.62	36.252	-0.00621	-0.01290	-0.00880

USF03 2518

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 9

Date/Time: 07/22/2011 10:16

Sample Number: **ICSAB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.21947	4,616.09	0.822	0.21756	0.22114	0.21971
AL	551.62705	997,188.43	1.158	547.29141	558.96022	548.62952
AS	0.11133	36.37	2.714	0.11379	0.10796	0.11224
B	0.01110	1,572.02	6.391	0.01029	0.01143	0.01159
BA	0.50267	232,137.38	1.257	0.49697	0.50947	0.50158
BE	0.50560	373,118.80	1.184	0.49997	0.51189	0.50494
CA	505.04176	241,074.33	1.075	498.90797	509.23124	506.98607
CD	0.92488	16,694.70	0.138	0.92634	0.92437	0.92394
CO	0.45800	1,526.99	0.199	0.45904	0.45759	0.45736
CR	0.48211	7,483.64	1.299	0.47540	0.48779	0.48315
CU	0.53298	7,428.49	0.565	0.53269	0.53613	0.53012
FE	200.73586	1,254,525.54	1.578	197.35498	203.63349	201.21912
K	0.00144	70.68	966.652	-0.01452	0.01084	0.00799
LI	0.00094	45.74	79.914	0.00153	0.00121	0.00009
MG	492.33702	457,770.21	0.174	493.31149	491.99539	491.70418
MN	0.47474	39,773.81	0.642	0.47213	0.47809	0.47399
MO	-0.00080	-0.72	42.905	-0.00059	-0.00120	-0.00062
NA	0.05578	158.55	29.311	0.04388	0.07442	0.04903
NI	0.88499	1,234.76	0.190	0.88670	0.88493	0.88334
P	0.00280	0.40	120.852	0.00145	0.00030	0.00665
PB	0.04607	181.39	4.278	0.04831	0.04530	0.04460
SB	0.61974	425.76	0.594	0.62098	0.62263	0.61559
SE	0.06018	30.58	12.003	0.06851	0.05569	0.05633
SI	-0.02784	5.17	72.887	-0.01598	-0.05128	-0.01628
SN	-0.00016	0.71	1030.174	0.00151	-0.00170	-0.00028
SR	0.00335	2,277.49	1.520	0.00334	0.00341	0.00331
TI	-0.00012	108.26	109.888	-0.00021	-0.00019	0.00003
TL	0.10623	52.56	3.002	0.10787	0.10827	0.10256
V	0.50101	7,189.45	1.221	0.49456	0.50672	0.50176
Y1	11624.36839	11,624.37	0.098	11625.28348	11612.53565	11635.28604
Y2A	567211.42044	567,211.42	1.264	573844.73161	559607.78552	568181.74419
Y2R	19720.78141	19,720.78	0.218	19767.07378	19713.29761	19681.97283
ZN	0.99319	16,319.55	0.227	0.99488	0.99406	0.99064
ZR	-0.00621	-11.90	47.426	-0.00902	-0.00314	-0.00648

USF03 2519

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 10

Date/Time: 07/22/2011 10:20

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.51030	11,940.05	0.575	0.51264	0.51126	0.50701
AL	24.10182	53,343.46	0.248	24.17039	24.06017	24.07489
AS	0.49754	161.61	0.359	0.49957	0.49682	0.49623
B	0.48939	5,712.06	0.304	0.49000	0.49047	0.48769
BA	0.50578	257,149.57	0.426	0.50771	0.50618	0.50346
BE	0.49957	405,874.12	0.260	0.49839	0.50096	0.49935
CA	25.71759	13,557.36	0.808	25.94538	25.66874	25.53864
CD	0.50033	9,816.67	0.035	0.50053	0.50022	0.50024
CO	0.49360	1,817.13	0.236	0.49494	0.49282	0.49303
CR	0.51036	8,722.40	0.247	0.50988	0.51179	0.50942
CU	0.49985	7,671.03	0.536	0.50206	0.50062	0.49687
FE	25.60743	200,339.65	0.304	25.65268	25.65218	25.51744
K	24.42799	8,468.99	0.531	24.57163	24.39278	24.31955
LI	0.49710	4,167.59	1.082	0.50330	0.49415	0.49383
MG	25.01715	26,565.56	0.788	25.24436	24.91585	24.89125
MN	0.50260	46,354.95	0.477	0.50442	0.50348	0.49988
MO	0.49344	2,170.22	0.085	0.49303	0.49387	0.49342
NA	24.53535	24,232.85	0.626	24.70978	24.47549	24.42078
NI	0.49871	774.52	0.449	0.50091	0.49643	0.49878
P	0.50103	282.98	0.280	0.50015	0.50265	0.50030
PB	0.50136	710.91	0.262	0.50231	0.50192	0.49986
SB	0.51771	389.22	0.421	0.51558	0.51993	0.51760
SE	0.48973	152.84	1.235	0.49600	0.48926	0.48394
SI	25.69165	3,053.71	0.389	25.80465	25.61494	25.65537
SN	0.49366	262.98	0.257	0.49508	0.49328	0.49263
SR	0.50305	373,742.63	1.514	0.51120	0.49611	0.50184
TI	0.50099	39,221.71	0.526	0.50336	0.50146	0.49816
TL	0.49245	342.31	0.374	0.49326	0.49034	0.49376
V	0.51566	8,098.18	0.042	0.51545	0.51565	0.51589
Y1	12814.02787	12,814.03	0.077	12806.75369	12825.31161	12810.01832
Y2A	624399.03464	624,399.03	0.213	623177.78146	624199.52114	625819.80132
Y2R	20453.79074	20,453.79	0.969	20300.99177	20382.63387	20677.74657
ZN	0.48247	8,623.74	0.021	0.48250	0.48255	0.48236
ZR	0.50521	417.38	1.179	0.51173	0.50007	0.50382

USP83 2528

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 11

Date/Time: 07/22/2011 10:24

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00002	4.83	459.150	0.00004	0.00004	-0.00014
AL	0.00166	121.02	229.668	-0.00068	-0.00040	0.00606
AS	0.00041	0.73	283.298	0.00003	0.00173	-0.00052
B	-0.00264	26.30	9.568	-0.00236	-0.00284	-0.00272
BA	0.00002	92.59	268.161	0.00000	0.00006	-0.00002
BE	-0.00003	-336.78	37.023	-0.00004	-0.00002	-0.00003
CA	-0.00233	150.44	55.075	-0.00243	-0.00100	-0.00356
CD	0.00009	0.69	11.099	0.00009	0.00008	0.00010
CO	0.00000	-1.62	0932.463	-0.00017	0.00021	-0.00004
CR	0.00030	-5.28	51.739	0.00016	0.00046	0.00028
CU	-0.00028	78.92	156.554	-0.00076	0.00011	-0.00020
FE	0.00182	6.47	15.678	0.00205	0.00150	0.00189
K	-0.05149	55.52	96.236	-0.10762	-0.03311	-0.01376
LI	-0.00142	7.51	110.473	-0.00321	-0.00028	-0.00077
MG	-0.00001	0.02	3075.808	0.00043	-0.00003	-0.00044
MN	0.00010	14.72	15.520	0.00012	0.00010	0.00009
MO	0.00053	5.21	10.318	0.00047	0.00058	0.00054
NA	0.00870	119.01	40.595	0.00471	0.01142	0.00998
NI	0.00028	17.32	133.276	0.00048	-0.00015	0.00051
P	-0.00233	-3.26	17.436	-0.00244	-0.00188	-0.00268
PB	0.00033	6.64	302.305	0.00024	0.00137	-0.00062
SB	-0.00009	2.91	487.932	0.00025	-0.00055	0.00005
SE	-0.00181	1.33	209.505	-0.00610	-0.00036	0.00104
SI	-0.03273	4.82	45.157	-0.03545	-0.01678	-0.04597
SN	0.00023	1.01	158.551	0.00027	0.00057	-0.00015
SR	0.00000	18.23	2861.109	0.00001	-0.00003	0.00002
TI	0.00004	46.40	329.296	0.00017	0.00002	-0.00008
TL	-0.00244	-5.49	16.655	-0.00252	-0.00200	-0.00281
V	0.00037	-19.02	47.432	0.00024	0.00057	0.00029
Y1	13157.37798	13,157.38	0.141	13154.29933	13140.59898	13177.23562
Y2A	640719.98550	640,719.99	0.879	647137.99069	638420.11952	636601.84631
Y2R	20600.68864	20,600.69	0.133	20579.06585	20591.56919	20631.43089
ZN	-0.00027	9.47	25.454	-0.00021	-0.00035	-0.00027
ZR	0.00378	-3.97	89.034	0.00014	0.00443	0.00678

USF83 2521

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 12 Date/Time: 07/22/2011 10:28

Sample Number: **LCSW** Class: **** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 1.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05579	1,234.10	1.694	0.05593	0.05478	0.05666
AL	1.98279	4,600.22	1.459	1.98598	1.95240	2.00999
AS	0.14668	49.62	1.125	0.14721	0.14799	0.14483
B	1.97445	22,249.26	1.661	1.97285	1.94248	2.00802
BA	1.97395	1,010,308.27	1.281	1.99130	1.94493	1.98563
BE	0.05088	41,344.22	1.760	0.05087	0.04999	0.05178
CA	4.02035	2,270.14	0.802	4.04882	4.02689	3.98532
CD	0.05031	988.89	0.117	0.05033	0.05036	0.05025
CO	0.49628	1,840.75	0.239	0.49763	0.49538	0.49583
CR	0.20256	3,479.34	1.820	0.20199	0.19919	0.20650
CU	0.25212	3,932.15	1.803	0.25158	0.24787	0.25691
FE	1.05715	8,460.18	1.705	1.06088	1.03754	1.07301
K	9.54685	3,383.36	0.981	9.44627	9.63156	9.56273
LI	0.97150	8,192.82	1.022	0.96194	0.98176	0.97079
MG	1.98400	2,134.12	0.765	1.96948	1.99974	1.98278
MN	0.50194	46,612.22	1.765	0.50307	0.49258	0.51019
MO	1.94491	8,605.54	0.036	1.94566	1.94481	1.94427
NA	9.49974	9,528.89	0.672	9.48327	9.57020	9.44574
NI	0.50885	796.55	0.387	0.51111	0.50800	0.50746
P	1.00944	574.98	0.656	1.00923	1.01616	1.00292
PB	0.15216	214.71	0.748	0.15260	0.15301	0.15087
SB	0.53402	368.18	0.724	0.53250	0.53842	0.53115
SE	0.14500	46.49	2.817	0.14108	0.14923	0.14469
SI	0.08738	19.18	10.371	0.09662	0.08703	0.07850
SN	3.89330	2,082.44	0.163	3.90036	3.88802	3.89151
SR	0.99984	747,935.64	1.397	1.00252	0.98472	1.01228
TI	0.98968	77,617.55	1.664	0.99030	0.97291	1.00582
TL	0.14534	100.21	0.467	0.14604	0.14531	0.14468
V	0.50595	7,988.34	1.508	0.50429	0.49928	0.51427
Y1	12903.51056	12,903.51	0.133	12883.87567	12910.73443	12915.92158
Y2A	628779.98475	628,779.98	1.428	629555.72189	637348.70518	619435.52719
Y2R	20624.98287	20,624.98	0.671	20623.38992	20487.45949	20764.09920
ZN	0.48230	8,623.94	0.201	0.48321	0.48241	0.48128
ZR	0.98768	829.69	0.472	0.98384	0.99287	0.98633

USP93 3522

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 13 Date/Time: 07/22/2011 10:32

Sample Number: **LCSWD** Class: **** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 1.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05588	1,249.55	0.412	0.05604	0.05562	0.05600
AL	1.98903	4,664.43	0.850	1.98807	1.97261	2.00639
AS	0.14613	49.59	1.016	0.14777	0.14575	0.14488
B	1.97760	22,526.23	0.608	1.97472	1.96729	1.99080
BA	1.97323	1,020,842.68	0.416	1.98225	1.96621	1.97123
BE	0.05093	41,836.83	0.494	0.05088	0.05071	0.05121
CA	4.10208	2,318.04	0.403	4.09121	4.09395	4.12109
CD	0.05088	1,002.52	0.166	0.05078	0.05094	0.05091
CO	0.50345	1,872.00	0.145	0.50363	0.50408	0.50265
CR	0.20317	3,527.74	0.495	0.20312	0.20219	0.20420
CU	0.25428	4,008.19	0.512	0.25501	0.25277	0.25504
FE	1.06393	8,606.79	0.525	1.06520	1.05782	1.06877
K	9.72548	3,452.49	0.524	9.66803	9.74329	9.76513
LI	0.98529	8,326.34	0.361	0.98449	0.98220	0.98918
MG	2.00329	2,159.38	0.385	2.00806	1.99438	2.00741
MN	0.50486	47,392.33	0.522	0.50622	0.50182	0.50655
MO	1.97425	8,757.22	0.067	1.97304	1.97564	1.97405
NA	9.65018	9,698.37	0.514	9.63424	9.61054	9.70576
NI	0.51544	808.68	0.188	0.51459	0.51649	0.51525
P	1.02343	584.44	0.210	1.02173	1.02585	1.02272
PB	0.15334	216.84	0.791	0.15399	0.15194	0.15409
SB	0.54033	373.24	0.219	0.54129	0.53901	0.54070
SE	0.14745	47.36	1.157	0.14770	0.14564	0.14902
SI	0.07013	17.16	18.418	0.07524	0.07971	0.05544
SN	3.95743	2,122.04	0.164	3.96314	3.95879	3.95037
SR	0.99860	755,087.35	1.040	0.98702	1.00172	1.00707
TI	0.99412	78,811.42	0.447	0.99578	0.98909	0.99749
TL	0.14746	101.99	0.622	0.14662	0.14844	0.14734
V	0.50747	8,099.00	0.724	0.50584	0.50488	0.51167
Y1	12935.89300	12,935.89	0.125	12954.09638	12923.34561	12930.23701
Y2A	635509.57884	635,509.58	0.548	636770.55113	638183.73174	631574.45364
Y2R	20668.06431	20,668.06	0.527	20696.97686	20759.63360	20547.58246
ZN	0.49645	8,898.30	0.017	0.49644	0.49654	0.49637
ZR	0.99774	839.98	0.445	0.99362	1.00244	0.99715

USP63 2523

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 14 Date/Time: 07/22/2011 10:35

Sample Number: **6339377** Class: U*** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00051	-53.24	50.534	-0.00071	-0.00059	-0.00022
AL	68.74231	153,597.52	0.581	68.43808	69.19419	68.59466
AS	0.01944	6.80	5.825	0.01902	0.01858	0.02073
B	0.03822	1,137.77	2.033	0.03741	0.03831	0.03896
BA	0.26255	136,223.02	0.598	0.26141	0.26434	0.26190
BE	0.00209	1,420.54	0.245	0.00209	0.00209	0.00210
CA	10.64096	5,803.50	0.353	10.60372	10.64022	10.67893
CD	0.00317	200.44	8.101	0.00300	0.00304	0.00346
CO	0.02691	129.26	3.324	0.02607	0.02680	0.02785
CR	0.08547	1,481.64	0.599	0.08488	0.08573	0.08581
CU	0.03540	602.81	2.666	0.03471	0.03501	0.03647
FE	81.78367	627,524.40	0.913	81.63030	82.59522	81.12549
K	13.88519	4,927.37	0.298	13.89772	13.83896	13.91889
LI	0.11502	995.97	1.666	0.11340	0.11452	0.11713
MG	21.33939	23,060.79	0.487	21.22648	21.43119	21.36050
MN	0.83549	78,612.21	0.620	0.83133	0.84129	0.83384
MO	0.00097	7.14	21.479	0.00111	0.00107	0.00073
NA	0.30575	417.12	3.807	0.30402	0.31816	0.29507
NI	0.05065	95.27	3.028	0.04969	0.04984	0.05242
P	0.81731	471.05	2.558	0.79728	0.81567	0.83899
PB	0.04253	78.87	3.709	0.04156	0.04168	0.04435
SB	0.00339	6.38	21.971	0.00408	0.00349	0.00260
SE	-0.01171	3.96	20.238	-0.01387	-0.00918	-0.01208
SI	4.87832	596.77	1.316	4.80938	4.93642	4.88916
SN	0.00609	4.18	19.610	0.00510	0.00574	0.00742
SR	0.13433	101,834.02	0.484	0.13370	0.13500	0.13428
TI	3.80338	302,040.61	1.400	3.74202	3.83747	3.83065
TL	0.00416	-9.82	27.119	0.00290	0.00509	0.00449
V	0.17012	2,753.71	0.651	0.16905	0.17126	0.17005
Y1	13072.58485	13,072.58	0.080	13080.18153	13076.89299	13060.68003
Y2A	637033.85801	637,033.86	0.978	635699.25299	631578.81806	643823.50299
Y2R	20799.82241	20,799.82	0.538	20837.52183	20673.85967	20888.08574
ZN	0.21362	3,953.70	2.880	0.20778	0.21304	0.22005
ZR	0.01126	2.37	29.407	0.01095	0.01471	0.00811

USF83 2524

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 15 Date/Time: 07/22/2011 10:39

Sample Number: **6339377** Class: UP** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.02526	550.13	0.603	0.02513	0.02543	0.02522
AL	67.63470	151,510.16	0.597	67.17636	67.93803	67.78972
AS	0.49899	165.32	1.092	0.49279	0.50113	0.50304
B	0.22755	3,293.57	0.665	0.22610	0.22912	0.22744
BA	0.30525	158,730.56	0.426	0.30425	0.30478	0.30672
BE	0.02156	17,612.68	0.701	0.02141	0.02171	0.02156
CA	11.53992	6,364.74	0.412	11.57711	11.55633	11.48631
CD	0.05153	1,165.77	0.503	0.05124	0.05160	0.05175
CO	0.12104	483.71	0.529	0.12154	0.12032	0.12126
CR	0.27793	4,852.25	0.873	0.27569	0.28051	0.27760
CU	0.52081	8,142.12	0.601	0.51721	0.52233	0.52290
FE	80.91342	622,684.48	0.302	80.78431	80.76048	81.19546
K	15.63102	5,612.15	0.127	15.64059	15.60824	15.64423
LI	1.06240	9,155.62	0.116	1.06365	1.06118	1.06237
MG	22.09771	24,198.27	0.153	22.12263	22.11118	22.05931
MN	0.87228	82,262.19	0.467	0.86782	0.87324	0.87579
MO	0.19144	862.90	0.100	0.19166	0.19130	0.19135
NA	2.19735	2,339.57	0.412	2.20691	2.19621	2.18892
NI	0.19184	315.08	0.394	0.19102	0.19251	0.19200
P	1.73018	1,002.51	0.363	1.72294	1.73388	1.73373
PB	0.52057	746.42	0.514	0.51798	0.52332	0.52041
SB	0.40587	309.59	0.699	0.40365	0.40489	0.40907
SE	0.75932	244.18	0.246	0.76077	0.75721	0.75999
SI	4.83025	598.95	0.338	4.84484	4.83331	4.81261
SN	0.57826	314.92	0.140	0.57891	0.57736	0.57851
SR	0.14951	113,598.88	0.603	0.14850	0.15024	0.14980
TI	3.83761	305,438.26	1.896	3.75540	3.89380	3.86362
TL	0.97094	687.41	0.325	0.97449	0.96990	0.96843
V	0.26278	4,249.93	0.606	0.26100	0.26408	0.26325
Y1	13106.63331	13,106.63	0.035	13103.81059	13111.86984	13104.21949
Y2A	638488.99195	638,488.99	0.671	643395.35928	635511.76959	636559.84697
Y2R	21079.73110	21,079.73	0.280	21015.61334	21131.94030	21091.63965
ZN	0.31044	5,735.44	0.303	0.30955	0.31036	0.31143
ZR	0.96884	831.69	0.329	0.96643	0.97246	0.96764

USF83 2525

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 16 Date/Time: 07/22/2011 10:43

Sample Number: **6339380** Class: D*** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00029	-48.98	142.828	-0.00059	0.00018	-0.00047
AL	70.42042	158,915.13	0.912	69.85566	70.28647	71.11913
AS	0.02036	7.17	6.726	0.02006	0.01917	0.02186
B	0.03826	1,148.83	1.211	0.03774	0.03864	0.03838
BA	0.26544	139,145.01	0.888	0.26324	0.26517	0.26793
BE	0.00212	1,461.35	0.730	0.00210	0.00213	0.00213
CA	10.90984	6,030.03	0.644	10.88429	10.85598	10.98924
CD	0.00305	199.31	6.509	0.00282	0.00317	0.00317
CO	0.02658	129.23	1.169	0.02623	0.02666	0.02684
CR	0.08484	1,485.76	1.025	0.08504	0.08389	0.08560
CU	0.03571	613.51	3.277	0.03436	0.03640	0.03638
FE	81.65890	633,073.95	0.824	82.28537	80.94816	81.74317
K	14.01655	5,043.27	0.378	14.07627	13.99790	13.97547
LI	0.11829	1,038.19	1.151	0.11673	0.11922	0.11893
MG	21.90600	24,004.64	0.467	21.92968	21.79398	21.99434
MN	0.84886	80,692.50	0.435	0.84529	0.84862	0.85266
MO	0.00021	3.75	94.567	0.00006	0.00043	0.00014
NA	0.30683	424.13	1.824	0.31295	0.30558	0.30197
NI	0.04938	93.92	1.782	0.04849	0.04940	0.05025
P	0.77389	448.87	1.942	0.75968	0.77236	0.78962
PB	0.03907	74.75	4.127	0.04031	0.03725	0.03966
SB	0.00161	5.07	47.643	0.00164	0.00235	0.00082
SE	-0.01016	4.46	32.617	-0.00674	-0.01038	-0.01336
SI	4.44327	552.03	0.239	4.43451	4.44024	4.45507
SN	0.00444	3.31	3.904	0.00444	0.00462	0.00428
SR	0.13481	103,246.29	1.016	0.13371	0.13436	0.13634
TI	3.85077	308,939.00	0.818	3.84276	3.82404	3.88551
TL	0.00416	-9.91	54.175	0.00570	0.00521	0.00157
V	0.17165	2,807.16	1.146	0.17023	0.17083	0.17390
Y1	13158.74880	13,158.75	0.053	13152.56938	13166.39002	13157.28699
Y2A	643571.30468	643,571.30	0.456	640217.14807	645675.33267	644821.43331
Y2R	21092.94153	21,092.94	0.589	21028.26574	21014.37562	21236.18323
ZN	0.20891	3,893.29	1.713	0.20552	0.20855	0.21265
ZR	0.01600	6.52	10.876	0.01661	0.01403	0.01734

USP93 2526

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 17 Date/Time: 07/22/2011 10:47

Sample Number: **6339378** Class: R*** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.01059	186.43	5.626	0.01058	0.01119	0.01000
AL	86.70565	191,047.58	1.699	85.09650	87.03187	87.98858
AS	0.04859	16.91	5.662	0.05171	0.04651	0.04755
B	0.44366	5,722.97	1.662	0.43563	0.44522	0.45012
BA	0.68466	351,392.84	2.001	0.67258	0.68186	0.69955
BE	0.01265	10,075.03	1.514	0.01245	0.01267	0.01283
CA	12.29977	6,639.48	0.542	12.25800	12.37661	12.26470
CD	0.01286	402.06	0.638	0.01290	0.01291	0.01276
CO	0.12593	510.27	0.564	0.12525	0.12587	0.12667
CR	0.13215	2,272.50	1.316	0.13037	0.13222	0.13385
CU	0.08749	1,389.07	1.431	0.08611	0.08780	0.08856
FE	85.51260	647,574.53	1.815	84.03461	85.37372	87.12946
K	17.54498	6,166.33	0.345	17.47543	17.57405	17.58546
LI	0.32632	2,770.55	0.639	0.32474	0.32868	0.32553
MG	23.00946	24,695.15	0.581	22.94850	23.16274	22.91713
MN	0.99086	92,259.13	1.568	0.97421	0.99341	1.00496
MO	0.36937	1,668.25	0.705	0.36656	0.36985	0.37170
NA	2.28727	2,382.77	0.511	2.27511	2.29842	2.28826
NI	0.15064	252.09	1.401	0.14833	0.15115	0.15246
P	1.09009	632.84	0.624	1.08319	1.09030	1.09678
PB	0.07294	126.09	1.627	0.07378	0.07345	0.07158
SB	0.04066	28.40	2.001	0.04145	0.03982	0.04070
SE	0.01854	13.73	14.357	0.01646	0.02154	0.01763
SI	4.33907	528.30	1.338	4.35348	4.38856	4.27517
SN	0.72746	397.36	0.458	0.72362	0.72948	0.72930
SR	0.34600	259,525.52	1.748	0.33931	0.34760	0.35108
TI	4.69253	368,723.02	2.339	4.57916	4.70013	4.79830
TL	0.03356	10.65	2.409	0.03446	0.03330	0.03291
V	0.29038	4,640.34	1.711	0.28532	0.29058	0.29525
Y1	13153.22285	13,153.22	0.180	13138.41095	13180.45324	13140.80435
Y2A	630481.88425	630,481.88	1.502	640734.47875	628655.68862	622055.48537
Y2R	20664.50999	20,664.51	0.863	20751.79238	20459.31727	20782.42032
ZN	0.30824	5,695.23	0.687	0.30637	0.30780	0.31054
ZR	0.20085	163.32	1.593	0.20434	0.20018	0.19804

USP89 2527

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 18 Date/Time: 07/22/2011 10:51

Sample Number: **6339379** Class: M*** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.01048	183.64	3.286	0.01088	0.01032	0.01025
AL	90.15376	200,575.03	0.667	90.70640	89.51385	90.24104
AS	0.05278	18.33	5.060	0.04972	0.05460	0.05403
B	0.45369	5,920.15	0.575	0.45580	0.45077	0.45450
BA	0.69883	362,390.86	0.882	0.70581	0.69415	0.69653
BE	0.01300	10,466.09	0.415	0.01304	0.01294	0.01301
CA	12.66182	6,912.18	0.242	12.65238	12.69603	12.63705
CD	0.01371	424.49	3.163	0.01323	0.01384	0.01407
CO	0.13241	536.49	1.388	0.13068	0.13220	0.13434
CR	0.13714	2,383.14	1.011	0.13835	0.13563	0.13744
CU	0.09037	1,446.60	0.986	0.09137	0.08967	0.09007
FE	88.48536	675,624.86	0.328	88.80881	88.24910	88.39816
K	17.76756	6,318.34	0.533	17.66130	17.79852	17.84287
LI	0.33748	2,899.03	0.541	0.33629	0.33958	0.33656
MG	23.76988	25,813.77	0.211	23.80089	23.79662	23.71212
MN	1.03768	97,622.45	0.495	1.04188	1.03194	1.03921
MO	0.38660	1,746.87	1.217	0.38167	0.38710	0.39104
NA	2.32708	2,451.40	1.213	2.30889	2.35961	2.31275
NI	0.15929	265.73	2.260	0.15616	0.15849	0.16323
P	1.05607	613.36	1.781	1.03599	1.05896	1.07327
PB	0.07539	130.30	2.622	0.07407	0.07445	0.07766
SB	0.04506	31.49	2.191	0.04405	0.04510	0.04602
SE	0.01834	13.88	21.050	0.02161	0.01408	0.01934
SI	4.44209	547.14	0.870	4.47610	4.40007	4.45011
SN	0.76244	416.64	1.064	0.75451	0.76208	0.77073
SR	0.35458	268,730.13	0.615	0.35672	0.35236	0.35465
TI	4.88333	387,728.14	0.753	4.91026	4.84142	4.89832
TL	0.03520	11.47	3.475	0.03578	0.03379	0.03602
V	0.29729	4,801.45	0.590	0.29899	0.29549	0.29740
Y1	13160.16584	13,160.17	0.164	13168.10481	13135.72499	13176.66771
Y2A	636950.32103	636,950.32	0.940	630061.26081	640912.22555	639877.47673
Y2R	20911.84375	20,911.84	0.415	20957.85608	20965.82420	20811.85097
ZN	0.32394	5,986.13	1.432	0.31896	0.32472	0.32814
ZR	0.20474	168.61	3.937	0.21178	0.19595	0.20650

USF83 2528

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 19 Date/Time: 07/22/2011 10:55

Sample Number: **6339377** Class: UL** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 25.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00052	-16.32	71.719	-0.00076	-0.00009	-0.00070
AL	12.52526	28,544.58	1.381	12.55760	12.67979	12.33840
AS	0.00242	1.36	60.998	0.00171	0.00143	0.00412
B	0.00610	255.56	1.541	0.00619	0.00611	0.00601
BA	0.05047	26,410.37	1.517	0.05071	0.05109	0.04961
BE	0.00037	-4.31	1.428	0.00037	0.00038	0.00037
CA	2.15433	1,283.07	0.519	2.14235	2.16447	2.15619
CD	0.00053	37.75	14.378	0.00045	0.00061	0.00053
CO	0.00506	23.73	8.194	0.00553	0.00488	0.00476
CR	0.01732	293.53	2.073	0.01749	0.01755	0.01690
CU	0.00572	166.84	2.618	0.00579	0.00554	0.00582
FE	16.24143	131,237.72	1.212	16.32570	16.38215	16.01644
K	2.71067	1,009.65	1.222	2.74835	2.68613	2.69752
LI	0.02234	206.83	3.152	0.02188	0.02198	0.02315
MG	4.32125	4,631.22	0.345	4.31506	4.33826	4.31044
MN	0.16486	15,607.77	1.231	0.16540	0.16656	0.16261
MO	0.00018	3.67	52.664	0.00008	0.00018	0.00027
NA	0.08189	191.09	18.084	0.08754	0.06508	0.09303
NI	0.01048	33.70	1.295	0.01063	0.01046	0.01036
P	0.14881	85.96	1.124	0.14898	0.14706	0.15039
PB	0.00797	20.01	18.215	0.00637	0.00920	0.00835
SB	0.00076	3.78	89.047	0.00139	0.00004	0.00085
SE	-0.00338	2.01	37.183	-0.00406	-0.00414	-0.00193
SI	0.94015	120.71	0.400	0.94424	0.93935	0.93686
SN	0.00174	1.87	41.691	0.00207	0.00091	0.00225
SR	0.02563	19,560.60	1.291	0.02567	0.02594	0.02528
TI	0.74950	59,903.94	1.469	0.75291	0.75839	0.73719
TL	-0.00191	-7.02	43.283	-0.00191	-0.00109	-0.00274
V	0.03358	526.84	1.619	0.03419	0.03342	0.03314
Y1	13341.84321	13,341.84	0.124	13350.21742	13352.50760	13322.80461
Y2A	640834.76236	640,834.76	0.935	638819.10691	636110.44578	647574.73440
Y2R	20558.73836	20,558.74	0.185	20520.70537	20558.65887	20596.85084
ZN	0.03901	750.42	0.634	0.03897	0.03878	0.03927
ZR	0.00461	-3.26	64.960	0.00433	0.00774	0.00177

USP83 2529

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 20 Date/Time: 07/22/2011 10:59

Sample Number: **6339368** Class: **** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00039	-44.90	76.591	-0.00072	-0.00035	-0.00012
AL	43.37084	97,887.96	0.824	43.47445	43.66478	42.97328
AS	0.01842	6.44	7.928	0.02010	0.01747	0.01770
B	0.02794	909.00	0.899	0.02792	0.02819	0.02769
BA	0.16561	86,372.48	1.050	0.16607	0.16706	0.16368
BE	0.00132	788.34	0.501	0.00132	0.00133	0.00132
CA	9.53715	5,233.25	0.573	9.47753	9.58489	9.54904
CD	0.00222	158.81	7.564	0.00203	0.00229	0.00235
CO	0.01889	94.56	1.999	0.01845	0.01912	0.01908
CR	0.08171	1,422.83	0.415	0.08192	0.08189	0.08132
CU	0.01856	349.10	2.229	0.01831	0.01904	0.01834
FE	67.10267	522,841.86	0.262	67.24857	67.15223	66.90722
K	10.22865	3,659.94	0.898	10.13810	10.32168	10.22617
LI	0.08486	742.17	2.025	0.08556	0.08290	0.08611
MG	21.91820	23,753.39	0.510	21.80052	22.02308	21.93099
MN	0.65726	62,144.64	0.492	0.65867	0.65956	0.65356
MO	0.00029	4.15	40.253	0.00016	0.00031	0.00039
NA	0.33249	445.23	1.002	0.33297	0.33555	0.32894
NI	0.03039	64.66	0.560	0.03057	0.03036	0.03023
P	1.59061	929.97	1.024	1.57636	1.58712	1.60836
PB	0.03351	60.71	4.139	0.03202	0.03476	0.03376
SB	0.00147	4.96	120.184	0.00347	0.00016	0.00077
SE	-0.00785	4.18	48.522	-0.01175	-0.00413	-0.00767
SI	3.61453	445.76	0.937	3.57705	3.64295	3.62359
SN	0.00595	4.16	28.394	0.00770	0.00433	0.00583
SR	0.07602	57,914.38	0.890	0.07636	0.07646	0.07524
TI	3.06989	244,976.69	0.663	3.09334	3.05924	3.05708
TL	0.00193	-9.86	88.594	0.00114	0.00389	0.00076
V	0.15305	2,482.81	0.627	0.15325	0.15389	0.15200
Y1	13236.23384	13,236.23	0.079	13239.97086	13224.40755	13244.32310
Y2A	640133.58999	640,133.59	0.819	635771.85629	638675.29723	645953.61646
Y2R	20861.33844	20,861.34	1.149	21093.25555	20876.22879	20614.53098
ZN	0.16502	3,099.81	0.718	0.16381	0.16507	0.16618
ZR	0.01704	7.36	13.184	0.01920	0.01720	0.01472

USP03 2530

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 21 Date/Time: 07/22/2011 11:03

Sample Number: **6339369** Class: **** Batch: 111935708005

Initial Vol: 1.01 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00032	-40.26	102.972	-0.00011	-0.00070	-0.00015
AL	34.06922	77,465.05	0.296	34.18438	34.02581	33.99745
AS	0.01442	5.11	8.438	0.01571	0.01330	0.01425
B	0.02203	793.14	1.384	0.02176	0.02236	0.02198
BA	0.14628	76,711.47	0.258	0.14672	0.14611	0.14602
BE	0.00110	607.69	0.432	0.00111	0.00110	0.00110
CA	10.24766	5,623.66	0.337	10.21563	10.28425	10.24311
CD	0.00206	144.66	2.030	0.00204	0.00203	0.00210
CO	0.01671	82.82	1.004	0.01657	0.01689	0.01665
CR	0.08088	1,415.70	0.846	0.08167	0.08055	0.08042
CU	0.01281	264.46	2.906	0.01253	0.01323	0.01266
FE	60.49260	476,050.98	0.973	61.12347	60.39533	59.95899
K	9.20930	3,309.83	0.737	9.19600	9.28287	9.14903
LI	0.06817	601.51	5.051	0.06490	0.07176	0.06785
MG	20.41630	22,180.99	0.329	20.48976	20.40127	20.35788
MN	0.70757	67,255.98	0.372	0.71022	0.70752	0.70496
MO	-0.00010	2.40	202.597	-0.00031	-0.00006	0.00008
NA	0.25836	371.72	8.239	0.23445	0.26540	0.27524
NI	0.02458	55.76	1.618	0.02412	0.02480	0.02481
P	1.74846	1,026.33	0.086	1.75007	1.74711	1.74821
PB	0.04154	70.13	2.904	0.04131	0.04284	0.04046
SB	0.00063	4.33	185.955	0.00081	-0.00062	0.00169
SE	-0.00767	3.80	18.031	-0.00875	-0.00611	-0.00816
SI	3.23366	400.60	0.786	3.25677	3.23781	3.20642
SN	0.00575	4.07	24.265	0.00555	0.00447	0.00724
SR	0.06404	49,051.50	0.485	0.06436	0.06403	0.06374
TI	2.59659	208,314.94	0.491	2.60995	2.59527	2.58456
TL	0.00074	-9.83	204.723	0.00016	-0.00040	0.00246
V	0.14559	2,370.09	0.308	0.14608	0.14547	0.14521
Y1	13286.68684	13,286.69	0.135	13299.58796	13294.31194	13266.16061
Y2A	643517.22374	643,517.22	0.117	643128.36985	643040.15604	644383.14532
Y2R	20906.96105	20,906.96	0.609	20873.83678	20799.39556	21047.65080
ZN	0.14604	2,759.03	0.242	0.14568	0.14605	0.14639
ZR	0.02145	11.15	15.372	0.02450	0.01795	0.02188

USF03 2531

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 22

Date/Time: 07/22/2011 11:07

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.50982	12,057.60	0.743	0.51387	0.50636	0.50924
AL	24.06826	53,848.69	0.945	24.23126	23.80844	24.16509
AS	0.50006	165.96	0.250	0.50119	0.49872	0.50026
B	0.49762	5,869.06	1.014	0.50118	0.49184	0.49983
BA	0.50341	258,727.28	0.647	0.50705	0.50240	0.50077
BE	0.50697	416,375.30	0.840	0.51135	0.50672	0.50285
CA	26.11701	13,707.72	0.417	26.01582	26.10288	26.23233
CD	0.50422	10,108.85	0.181	0.50363	0.50527	0.50377
CO	0.49500	1,862.02	0.110	0.49475	0.49563	0.49464
CR	0.51827	8,953.91	0.674	0.52118	0.51439	0.51923
CU	0.49549	7,687.56	0.945	0.49818	0.49009	0.49822
FE	25.88275	204,655.83	0.719	26.06201	25.69056	25.89568
K	24.22689	8,364.54	0.992	24.05349	24.12590	24.50126
LI	0.50131	4,185.34	0.693	0.50477	0.49782	0.50133
MG	25.39799	26,855.59	0.437	25.43367	25.27360	25.48668
MN	0.50621	47,196.28	0.523	0.50927	0.50468	0.50468
MO	0.49247	2,213.16	0.222	0.49153	0.49367	0.49222
NA	24.84634	24,436.47	0.750	25.01060	24.64366	24.88476
NI	0.49891	791.72	0.418	0.49893	0.50098	0.49681
P	0.50599	292.01	0.083	0.50551	0.50622	0.50625
PB	0.50326	729.46	0.202	0.50363	0.50404	0.50211
SB	0.51580	396.35	0.245	0.51489	0.51725	0.51528
SE	0.48405	154.42	0.397	0.48355	0.48617	0.48242
SI	26.38067	3,122.26	1.191	26.66709	26.04460	26.43032
SN	0.49453	269.17	0.331	0.49409	0.49634	0.49316
SR	0.50458	378,965.97	0.163	0.50549	0.50389	0.50436
TI	0.49998	39,568.49	0.612	0.50288	0.49679	0.50027
TL	0.49129	348.92	0.237	0.49184	0.49209	0.48995
V	0.52011	8,257.04	0.859	0.52421	0.51535	0.52078
Y1	13093.27794	13,093.28	0.096	13085.01134	13087.05704	13107.76544
Y2A	631201.05647	631,201.06	0.590	627440.34506	634892.86427	631269.96008
Y2R	20368.12232	20,368.12	0.722	20455.03360	20451.05599	20198.27736
ZN	0.48367	8,833.67	0.125	0.48322	0.48435	0.48343
ZR	0.50020	411.46	0.180	0.50085	0.49917	0.50057

USF03 2532

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 23

Date/Time: 07/22/2011 11:11

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00030	12.73	48.768	0.00046	0.00018	0.00025
AL	0.00259	125.22	60.178	0.00310	0.00383	0.00084
AS	0.00038	0.73	222.535	-0.00014	-0.00008	0.00137
B	-0.00195	34.72	11.121	-0.00183	-0.00182	-0.00220
BA	0.00000	87.82	670.469	0.00003	0.00000	-0.00001
BE	-0.00005	-361.14	44.217	-0.00003	-0.00007	-0.00005
CA	0.00510	156.85	151.176	-0.00090	0.00240	0.01381
CD	0.00009	0.64	60.893	0.00004	0.00015	0.00007
CO	-0.00009	-2.01	126.706	0.00002	-0.00008	-0.00022
CR	0.00031	-5.15	54.754	0.00048	0.00015	0.00030
CU	-0.00042	78.07	68.384	-0.00060	-0.00009	-0.00058
FE	0.00164	5.10	42.174	0.00088	0.00224	0.00179
K	-0.03178	63.36	47.584	-0.04494	-0.03514	-0.01526
LI	0.00017	21.21	165.859	0.00016	0.00046	-0.00011
MG	-0.00031	-0.29	800.390	-0.00084	-0.00249	0.00239
MN	0.00007	12.07	85.157	0.00003	0.00014	0.00004
MO	0.00054	5.36	28.146	0.00068	0.00057	0.00038
NA	0.00978	121.97	199.582	0.02708	-0.01139	0.01365
NI	0.00084	18.56	92.197	0.00019	0.00169	0.00062
P	-0.00139	-2.76	86.836	-0.00007	-0.00243	-0.00167
PB	0.00018	6.57	641.427	-0.00105	0.00032	0.00127
SB	0.00007	3.08	1242.500	0.00071	-0.00096	0.00048
SE	-0.00064	1.73	109.884	-0.00121	0.00015	-0.00086
SI	-0.02126	6.29	24.671	-0.02594	-0.01559	-0.02224
SN	0.00056	1.22	137.611	0.00134	-0.00020	0.00054
SR	0.00002	31.06	32.251	0.00001	0.00002	0.00002
TI	0.00009	51.59	80.524	0.00001	0.00010	0.00016
TL	-0.00240	-5.57	53.374	-0.00100	-0.00351	-0.00268
V	0.00076	-12.94	29.187	0.00100	0.00071	0.00056
Y1	13423.57776	13,423.58	0.155	13443.78228	13424.73864	13402.21237
Y2A	651325.04427	651,325.04	0.677	652693.75830	646391.63347	654889.74104
Y2R	20930.81542	20,930.82	0.833	20766.56897	20911.92758	21113.94973
ZN	-0.00020	11.02	9.472	-0.00022	-0.00020	-0.00019
ZR	0.00423	-3.65	34.302	0.00540	0.00261	0.00467

USP83 2533

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 24 Date/Time: 07/22/2011 11:14

Sample Number: **6339370** Class: **** Batch: 111935708005

Initial Vol: 1.01 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00020	-42.39	159.809	0.00001	-0.00004	-0.00057
AL	54.10118	121,406.14	1.890	52.93315	54.83577	54.53461
AS	0.02127	7.45	7.585	0.02029	0.02038	0.02313
B	0.03057	990.43	3.021	0.02950	0.03101	0.03118
BA	0.21854	113,560.32	1.760	0.21423	0.22163	0.21977
BE	0.00169	1,090.09	2.621	0.00164	0.00172	0.00170
CA	9.60114	5,326.21	0.407	9.64185	9.56395	9.59761
CD	0.00280	182.87	4.698	0.00267	0.00281	0.00293
CO	0.02340	114.43	2.585	0.02275	0.02351	0.02394
CR	0.08355	1,449.98	2.140	0.08149	0.08466	0.08450
CU	0.02580	458.04	0.721	0.02581	0.02598	0.02561
FE	74.00919	571,823.54	2.117	72.21327	74.72010	75.09421
K	12.48154	4,499.51	0.331	12.50634	12.43389	12.50440
LI	0.09234	814.86	1.686	0.09269	0.09064	0.09370
MG	19.00936	20,843.50	0.340	19.02187	18.93934	19.06688
MN	0.81303	76,601.21	2.077	0.79406	0.82643	0.81860
MO	0.00042	4.77	24.770	0.00034	0.00054	0.00039
NA	0.26290	379.73	6.246	0.25479	0.28179	0.25210
NI	0.04028	80.45	3.151	0.03928	0.03987	0.04171
P	1.14430	670.60	2.591	1.11525	1.14315	1.17450
PB	0.03442	64.73	3.091	0.03332	0.03544	0.03451
SB	0.00115	4.76	146.840	-0.00001	0.00309	0.00037
SE	-0.00839	4.53	44.897	-0.00419	-0.01148	-0.00949
SI	3.96639	493.76	0.919	3.96672	3.92976	4.00269
SN	0.00494	3.62	8.204	0.00521	0.00447	0.00514
SR	0.09132	69,326.86	1.953	0.08926	0.09243	0.09226
TI	3.36809	267,847.70	1.703	3.30454	3.38368	3.41606
TL	0.00081	-11.46	127.773	0.00074	-0.00019	0.00187
V	0.15961	2,583.48	1.902	0.15611	0.16108	0.16162
Y1	13278.03194	13,278.03	0.165	13296.51620	13283.83195	13253.74766
Y2A	637999.02416	637,999.02	1.597	648034.88719	627658.63273	638303.55254
Y2R	21094.75378	21,094.75	1.116	20868.33042	21338.27599	21077.65492
ZN	0.18731	3,526.07	2.513	0.18265	0.18721	0.19207
ZR	0.01137	2.52	10.689	0.01095	0.01274	0.01042

USF03 2534

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 25 Date/Time: 07/22/2011 11:18

Sample Number: **6339371** Class: **** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00035	-45.37	25.447	-0.00043	-0.00036	-0.00025
AL	54.58290	122,136.22	1.154	53.86834	54.82293	55.05742
AS	0.01647	5.90	19.458	0.02014	0.01421	0.01507
B	0.03052	971.64	3.542	0.02927	0.03122	0.03106
BA	0.22303	115,568.16	0.915	0.22070	0.22384	0.22454
BE	0.00170	1,099.23	0.581	0.00169	0.00170	0.00171
CA	10.06981	5,482.94	0.273	10.05632	10.05165	10.10147
CD	0.00218	167.56	4.335	0.00228	0.00218	0.00209
CO	0.02136	106.44	1.456	0.02118	0.02171	0.02117
CR	0.08182	1,415.91	0.489	0.08151	0.08168	0.08227
CU	0.02600	460.31	0.631	0.02606	0.02581	0.02612
FE	72.04264	555,877.99	0.888	71.59600	71.75677	72.77516
K	12.94165	4,582.78	0.714	12.83771	12.97276	13.01448
LI	0.08110	705.88	1.830	0.08129	0.07953	0.08248
MG	18.81844	20,281.62	0.438	18.78782	18.75562	18.91189
MN	0.79795	74,975.39	0.852	0.79027	0.80039	0.80319
MO	0.00037	4.56	31.793	0.00027	0.00050	0.00035
NA	0.30092	410.98	4.755	0.29022	0.29537	0.31718
NI	0.03685	75.33	1.895	0.03654	0.03635	0.03765
P	1.08706	639.42	0.097	1.08724	1.08593	1.08801
PB	0.03837	70.95	2.963	0.03767	0.03776	0.03968
SB	0.00099	4.63	184.466	0.00302	-0.00055	0.00051
SE	-0.00975	3.98	39.871	-0.00753	-0.00748	-0.01423
SI	3.99147	488.33	0.864	3.95395	3.99869	4.02179
SN	0.00559	3.99	9.022	0.00513	0.00613	0.00551
SR	0.09774	73,991.35	1.281	0.09633	0.09815	0.09873
TI	3.29062	260,952.20	1.150	3.26928	3.26826	3.33433
TL	0.00164	-10.68	34.991	0.00198	0.00098	0.00195
V	0.15876	2,561.56	1.530	0.15621	0.15900	0.16106
Y1	13328.92245	13,328.92	0.081	13326.96718	13340.59501	13319.20516
Y2A	636154.56875	636,154.57	0.774	641614.58749	634805.48902	632043.62973
Y2R	20733.52086	20,733.52	0.519	20797.37497	20793.87181	20609.31580
ZN	0.17399	3,292.46	0.319	0.17458	0.17347	0.17392
ZR	0.01041	1.64	18.102	0.00826	0.01176	0.01120

USP93 2535

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 26 Date/Time: 07/22/2011 11:22

Sample Number: **6339372** Class: **** Batch: 111935708005

Initial Vol: 1.05 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00059	-54.27	26.442	-0.00048	-0.00077	-0.00053
AL	54.16974	122,127.17	0.894	53.66089	54.22321	54.62512
AS	0.01862	6.58	12.552	0.02053	0.01601	0.01931
B	0.03123	1,015.45	2.059	0.03051	0.03145	0.03174
BA	0.21048	109,883.44	0.683	0.20895	0.21067	0.21181
BE	0.00171	1,111.67	0.708	0.00170	0.00170	0.00172
CA	10.82484	5,885.06	0.401	10.79980	10.87492	10.79982
CD	0.00248	179.97	2.497	0.00242	0.00254	0.00249
CO	0.02170	107.87	1.885	0.02209	0.02128	0.02174
CR	0.09161	1,598.33	1.111	0.09086	0.09121	0.09277
CU	0.02464	442.51	2.114	0.02416	0.02457	0.02519
FE	75.60715	586,237.72	0.272	75.38712	75.64011	75.79423
K	12.26700	4,349.91	0.918	12.21427	12.39627	12.19044
LI	0.08854	769.20	2.348	0.08983	0.08965	0.08614
MG	20.23486	21,813.05	0.270	20.18012	20.28947	20.23498
MN	0.87616	82,936.32	0.568	0.87143	0.87569	0.88135
MO	0.00040	4.70	26.988	0.00048	0.00045	0.00028
NA	0.27274	383.11	7.119	0.25324	0.27289	0.29207
NI	0.03712	75.82	0.865	0.03730	0.03732	0.03675
P	1.26202	743.14	0.522	1.25740	1.25909	1.26957
PB	0.02911	57.44	2.403	0.02830	0.02950	0.02952
SB	0.00198	5.51	64.223	0.00318	0.00211	0.00065
SE	-0.01057	3.98	27.663	-0.00820	-0.00968	-0.01384
SI	4.16063	508.91	1.030	4.15743	4.11946	4.20500
SN	0.00502	3.67	9.163	0.00516	0.00539	0.00450
SR	0.11001	83,904.42	1.032	0.10896	0.10987	0.11121
TI	3.29486	263,235.67	0.195	3.29047	3.29187	3.30224
TL	0.00312	-9.84	44.025	0.00156	0.00364	0.00415
V	0.17178	2,792.05	0.804	0.17077	0.17120	0.17335
Y1	13338.06430	13,338.06	0.040	13339.14799	13342.76887	13332.27606
Y2A	640872.29969	640,872.30	0.333	642455.36189	641718.89110	638442.64608
Y2R	20743.68288	20,743.68	0.141	20772.37466	20713.97682	20744.69716
ZN	0.17102	3,246.69	0.443	0.17026	0.17103	0.17178
ZR	0.01340	4.20	27.057	0.01337	0.01704	0.00979

USP83 2536

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 27 Date/Time: 07/22/2011 11:26

Sample Number: **6339373** Class: **** Batch: **111935708005**

Initial Vol: 1.03 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00082	-56.96	3.563	-0.00080	-0.00085	-0.00080
AL	39.06203	88,988.99	0.846	39.01936	38.75486	39.41188
AS	0.01675	5.88	7.743	0.01647	0.01561	0.01816
B	0.02081	838.10	0.490	0.02090	0.02070	0.02084
BA	0.17624	92,684.30	0.378	0.17636	0.17552	0.17684
BE	0.00123	712.83	1.039	0.00124	0.00122	0.00121
CA	12.13773	6,621.55	0.368	12.13284	12.09566	12.18470
CD	0.00213	159.03	3.774	0.00209	0.00222	0.00207
CO	0.01864	93.07	0.882	0.01868	0.01846	0.01878
CR	0.07908	1,388.16	1.164	0.07892	0.07824	0.08007
CU	0.01172	245.94	2.970	0.01173	0.01137	0.01207
FE	67.55990	530,636.62	0.532	67.77044	67.14485	67.76442
K	5.55414	2,022.83	0.758	5.53984	5.52103	5.60155
LI	0.07869	690.31	2.026	0.07761	0.08052	0.07793
MG	24.70399	26,777.82	0.573	24.59913	24.64791	24.86493
MN	0.60382	57,570.45	0.532	0.60547	0.60012	0.60586
MO	-0.00006	2.59	146.008	0.00004	-0.00012	-0.00010
NA	0.32596	438.98	1.507	0.33094	0.32581	0.32112
NI	0.02416	55.35	1.003	0.02403	0.02444	0.02401
P	2.37716	1,402.46	0.933	2.35565	2.37588	2.39994
PB	0.02213	43.69	4.018	0.02216	0.02122	0.02300
SB	0.00174	5.18	33.149	0.00212	0.00108	0.00202
SE	-0.00846	4.05	50.746	-0.00355	-0.01152	-0.01031
SI	3.52499	435.27	0.558	3.51109	3.51641	3.54747
SN	0.00501	3.67	6.471	0.00534	0.00470	0.00498
SR	0.12499	96,014.21	0.742	0.12479	0.12418	0.12600
TI	2.90321	233,621.35	0.524	2.90157	2.88886	2.91918
TL	0.00061	-10.79	61.116	0.00103	0.00051	0.00030
V	0.16225	2,652.43	0.412	0.16262	0.16148	0.16265
Y1	13347.77267	13,347.77	0.129	13356.56338	13358.77171	13327.98292
Y2A	645484.59495	645,484.59	0.401	642503.10425	646756.55710	647194.12351
Y2R	20876.44956	20,876.45	0.178	20833.77281	20900.98381	20894.59207
ZN	0.14204	2,706.11	1.002	0.14056	0.14217	0.14339
ZR	0.02553	14.63	15.907	0.02125	0.02602	0.02933

USF03 2537

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 28 Date/Time: 07/22/2011 11:30

Sample Number: **6339374** Class: **** Batch: 111935708005

Initial Vol: 1.01 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00010	-39.56	336.932	-0.00046	0.00021	-0.00006
AL	50.51220	114,354.34	0.663	50.72816	50.68195	50.12648
AS	0.02180	7.68	10.964	0.01939	0.02183	0.02417
B	0.02485	911.45	2.954	0.02439	0.02570	0.02448
BA	0.23153	121,274.69	0.863	0.23282	0.23254	0.22923
BE	0.00164	1,058.60	0.133	0.00164	0.00164	0.00164
CA	10.19330	5,581.03	0.746	10.14550	10.15338	10.28103
CD	0.00208	165.14	2.512	0.00202	0.00212	0.00210
CO	0.02143	103.56	1.366	0.02150	0.02111	0.02168
CR	0.08634	1,510.87	0.628	0.08622	0.08693	0.08586
CU	0.02007	376.05	3.205	0.01933	0.02039	0.02048
FE	71.33116	556,655.32	0.691	71.82823	70.84290	71.32236
K	8.43256	3,029.66	0.622	8.37369	8.44984	8.47416
LI	0.08148	713.35	1.648	0.08035	0.08297	0.08113
MG	19.71824	21,373.14	0.490	19.76066	19.60759	19.78648
MN	0.76093	72,273.40	0.741	0.76491	0.76339	0.75448
MO	0.00015	3.54	60.619	0.00024	0.00014	0.00006
NA	0.22200	334.29	6.005	0.23165	0.20679	0.22756
NI	0.03436	71.73	2.639	0.03333	0.03503	0.03474
P	0.96234	568.44	0.347	0.96180	0.95930	0.96592
PB	0.03591	66.84	2.635	0.03695	0.03568	0.03510
SB	0.00180	5.32	30.897	0.00116	0.00210	0.00214
SE	-0.01128	3.45	29.471	-0.01231	-0.01397	-0.00756
SI	4.24860	522.29	0.803	4.28602	4.24057	4.21922
SN	0.00652	4.52	8.546	0.00612	0.00716	0.00629
SR	0.10337	79,109.86	0.364	0.10364	0.10353	0.10294
TI	2.83592	227,342.30	0.682	2.84681	2.84736	2.81359
TL	0.00225	-9.80	18.225	0.00201	0.00272	0.00202
V	0.16424	2,675.24	0.114	0.16444	0.16407	0.16420
Y1	13390.34056	13,390.34	0.031	13391.40302	13393.88830	13385.73035
Y2A	643048.09097	643,048.09	0.399	642025.49801	641152.07503	645966.69987
Y2R	20855.95792	20,855.96	0.422	20786.64879	20954.95377	20826.27119
ZN	0.14373	2,755.21	0.299	0.14333	0.14369	0.14418
ZR	0.01787	8.04	16.371	0.01862	0.01464	0.02035

USF83 2538

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 29 Date/Time: 07/22/2011 11:34

Sample Number: **6339375** Class: **** Batch: 111935708005

Initial Vol: 1.01 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00024	-42.27	121.604	-0.00028	0.00007	-0.00052
AL	48.18351	107,142.91	1.287	47.62053	48.08194	48.84805
AS	0.01608	5.89	7.789	0.01655	0.01466	0.01703
B	0.02672	902.33	1.314	0.02700	0.02632	0.02682
BA	0.19422	99,888.16	1.271	0.19170	0.19433	0.19663
BE	0.00154	953.39	0.947	0.00153	0.00153	0.00155
CA	10.04463	5,508.55	0.430	9.99873	10.05058	10.08457
CD	0.00180	159.99	26.060	0.00200	0.00126	0.00213
CO	0.01889	98.46	7.850	0.01952	0.01720	0.01996
CR	0.08560	1,470.48	1.245	0.08481	0.08518	0.08681
CU	0.02125	385.07	1.659	0.02117	0.02094	0.02163
FE	69.60926	533,907.37	1.954	68.69843	68.95648	71.17285
K	9.87722	3,540.16	0.859	9.78271	9.90199	9.94696
LI	0.07198	633.25	2.930	0.07135	0.07433	0.07026
MG	18.44094	20,017.82	0.161	18.45308	18.46273	18.40701
MN	0.75328	70,239.88	1.314	0.74580	0.74952	0.76450
MO	0.00016	3.68	57.165	0.00020	0.00006	0.00022
NA	0.24256	355.36	8.324	0.23331	0.22864	0.26572
NI	0.03169	69.09	9.443	0.03326	0.02824	0.03358
P	1.27831	773.80	6.153	1.30843	1.18905	1.33745
PB	0.02797	56.23	9.228	0.02852	0.02516	0.03023
SB	0.00071	4.58	181.287	-0.00001	-0.00006	0.00221
SE	-0.00933	4.02	41.799	-0.01035	-0.01262	-0.00502
SI	4.04747	498.59	0.284	4.05232	4.05575	4.03435
SN	0.00566	4.14	14.909	0.00663	0.00522	0.00513
SR	0.06675	50,157.10	1.367	0.06584	0.06675	0.06766
TI	3.12731	246,119.11	1.344	3.08928	3.12025	3.17241
TL	0.00273	-9.84	23.687	0.00198	0.00312	0.00308
V	0.16010	2,561.86	1.282	0.15824	0.15976	0.16230
Y1	13736.88018	13,736.88	4.671	13365.72837	14477.77292	13367.13926
Y2A	631347.45582	631,347.46	1.126	634079.18874	636685.32537	623277.85335
Y2R	20880.89714	20,880.90	0.074	20897.33143	20866.93046	20878.42954
ZN	0.14957	2,923.16	6.169	0.15336	0.13905	0.15629
ZR	0.01186	2.91	12.665	0.01355	0.01138	0.01066

US183 2539

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 30 Date/Time: 07/22/2011 11:38

Sample Number: **6339376** Class: **** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00048	-51.42	22.934	-0.00040	-0.00060	-0.00044
AL	58.45084	130,755.91	0.998	57.83009	58.53405	58.98839
AS	0.01857	6.56	7.482	0.01738	0.02009	0.01823
B	0.03710	1,104.95	4.346	0.03526	0.03775	0.03828
BA	0.19819	102,760.57	1.226	0.19571	0.19830	0.20057
BE	0.00174	1,132.91	0.789	0.00173	0.00174	0.00176
CA	9.62160	5,252.29	0.989	9.51441	9.65416	9.69622
CD	0.00271	191.14	9.917	0.00249	0.00265	0.00301
CO	0.02405	118.92	2.220	0.02381	0.02367	0.02466
CR	0.09709	1,682.82	1.321	0.09572	0.09727	0.09827
CU	0.02751	481.95	2.938	0.02659	0.02786	0.02809
FE	79.38479	609,636.55	0.753	78.88001	79.22918	80.04520
K	10.58810	3,767.41	1.168	10.44954	10.68739	10.62737
LI	0.08906	774.20	1.027	0.08947	0.08971	0.08802
MG	22.64013	24,412.12	0.646	22.47213	22.70933	22.73893
MN	0.68485	64,381.55	1.162	0.67703	0.68459	0.69293
MO	-0.00027	1.64	77.248	-0.00015	-0.00015	-0.00050
NA	0.35531	465.84	4.224	0.37166	0.34217	0.35210
NI	0.04200	83.49	3.026	0.04053	0.04276	0.04271
P	1.13923	670.36	1.668	1.12086	1.13802	1.15880
PB	0.03102	61.03	3.118	0.03149	0.02991	0.03166
SB	0.00268	6.12	47.580	0.00246	0.00153	0.00405
SE	-0.01085	4.12	22.433	-0.01358	-0.01005	-0.00892
SI	4.30821	527.05	1.077	4.35112	4.25896	4.31453
SN	0.00583	4.12	15.094	0.00652	0.00612	0.00484
SR	0.06880	52,114.30	1.029	0.06807	0.06883	0.06948
TI	3.55865	282,345.24	1.098	3.51866	3.56058	3.59671
TL	0.00328	-10.29	20.700	0.00259	0.00395	0.00330
V	0.16836	2,720.79	1.422	0.16584	0.16864	0.17061
Y1	13332.05238	13,332.05	0.190	13327.11314	13309.60406	13359.43993
Y2A	636451.18257	636,451.18	0.150	637479.18327	635585.07636	636289.28809
Y2R	20759.13922	20,759.14	0.497	20869.65397	20742.18399	20665.57971
ZN	0.18823	3,564.39	1.757	0.18480	0.18849	0.19139
ZR	0.01409	4.78	18.015	0.01130	0.01469	0.01627

USF03 2548

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 31 Date/Time: 07/22/2011 11:42

Sample Number: **6339385** Class: **** Batch: 111935708005

Initial Vol: 1.02 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00047	-55.46	96.980	-0.00095	-0.00044	-0.00003
AL	72.03271	163,004.07	0.236	71.84877	72.18407	72.06528
AS	0.02089	7.43	4.322	0.02107	0.01991	0.02168
B	0.04287	1,234.76	1.014	0.04296	0.04240	0.04325
BA	0.24870	130,776.96	0.127	0.24848	0.24857	0.24907
BE	0.00210	1,450.06	0.381	0.00211	0.00210	0.00210
CA	11.50324	6,360.15	0.553	11.49191	11.57177	11.44605
CD	0.00272	202.07	2.361	0.00268	0.00269	0.00280
CO	0.02655	132.54	1.233	0.02619	0.02684	0.02661
CR	0.08907	1,565.06	0.377	0.08918	0.08933	0.08869
CU	0.03510	604.43	1.879	0.03439	0.03570	0.03519
FE	85.29322	661,594.24	0.694	84.81418	85.11016	85.95533
K	12.56456	4,536.58	0.734	12.58549	12.64454	12.46366
LI	0.12785	1,122.41	0.654	0.12772	0.12709	0.12874
MG	22.92083	25,155.37	0.269	22.95726	22.95548	22.84975
MN	0.81579	77,789.47	0.243	0.81435	0.81497	0.81805
MO	-0.00017	2.11	13.494	-0.00017	-0.00014	-0.00019
NA	0.53110	652.69	0.785	0.52785	0.53580	0.52966
NI	0.04690	91.48	1.764	0.04600	0.04706	0.04763
P	0.72860	429.23	1.102	0.72028	0.72922	0.73629
PB	0.03824	74.89	3.356	0.03708	0.03962	0.03803
SB	0.00280	6.10	12.127	0.00281	0.00245	0.00313
SE	-0.01100	4.52	21.356	-0.01367	-0.00927	-0.01005
SI	4.56337	567.71	0.974	4.52050	4.56038	4.60924
SN	0.00651	4.51	33.005	0.00898	0.00503	0.00553
SR	0.15251	117,166.89	0.152	0.15236	0.15278	0.15240
TI	4.01887	323,423.95	0.396	4.00805	4.01143	4.03712
TL	0.00159	-12.40	59.816	0.00232	0.00192	0.00052
V	0.17818	2,924.20	0.078	0.17805	0.17816	0.17833
Y1	13368.27930	13,368.28	0.131	13361.18462	13355.42728	13388.22599
Y2A	645568.58388	645,568.58	0.291	643503.99202	647167.21448	646034.54515
Y2R	21130.03141	21,130.03	0.264	21085.46715	21111.91070	21192.71639
ZN	0.20614	3,907.94	1.153	0.20377	0.20610	0.20853
ZR	0.01075	1.98	15.106	0.01237	0.01077	0.00912

USP83 2541

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 32 Date/Time: 07/22/2011 11:46

Sample Number: **6339386** Class: **** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00023	-41.69	132.094	-0.00005	-0.00006	-0.00058
AL	44.38300	101,016.53	0.673	44.03812	44.55376	44.55714
AS	0.01801	6.40	15.897	0.02120	0.01565	0.01719
B	0.02682	921.61	0.996	0.02682	0.02656	0.02709
BA	0.18480	97,206.45	0.610	0.18361	0.18493	0.18585
BE	0.00141	867.52	0.367	0.00140	0.00141	0.00141
CA	9.78802	5,411.26	0.450	9.75429	9.77195	9.83783
CD	0.00234	167.80	6.360	0.00222	0.00231	0.00251
CO	0.01969	99.00	2.240	0.01983	0.01919	0.02004
CR	0.08164	1,433.81	0.880	0.08081	0.08208	0.08203
CU	0.01730	332.46	5.963	0.01616	0.01816	0.01758
FE	69.30375	543,792.00	0.697	68.96070	69.85646	69.09409
K	11.08819	3,994.02	0.858	11.01411	11.05497	11.19550
LI	0.08556	754.40	1.133	0.08637	0.08449	0.08582
MG	20.07075	21,938.86	0.976	19.96906	19.94663	20.29656
MN	0.72358	69,005.72	0.299	0.72174	0.72303	0.72597
MO	0.00012	3.45	166.444	-0.00011	0.00025	0.00023
NA	0.26346	379.07	3.192	0.26328	0.25514	0.27196
NI	0.03074	66.31	1.528	0.03083	0.03023	0.03115
P	1.61130	957.86	0.892	1.59851	1.60854	1.62684
PB	0.02758	53.54	6.066	0.02652	0.02951	0.02672
SB	0.00052	4.30	273.715	0.00081	-0.00103	0.00178
SE	-0.00859	4.18	33.350	-0.00577	-0.00849	-0.01150
SI	4.00408	496.92	1.515	3.98034	3.95890	4.07301
SN	0.00586	4.18	12.331	0.00512	0.00656	0.00590
SR	0.05947	45,703.11	0.869	0.05888	0.05971	0.05982
TI	3.03988	244,676.24	0.670	3.01728	3.05680	3.04555
TL	0.00165	-10.35	64.219	0.00185	0.00260	0.00051
V	0.15536	2,542.34	0.856	0.15385	0.15587	0.15636
Y1	13457.88734	13,457.89	0.088	13455.76079	13447.29853	13470.60269
Y2A	645645.30243	645,645.30	0.316	646175.46574	643389.62483	647370.81673
Y2R	21034.57545	21,034.58	1.095	21233.87378	21087.30010	20782.55247
ZN	0.16202	3,100.62	0.929	0.16063	0.16180	0.16362
ZR	0.01258	3.56	12.041	0.01426	0.01215	0.01133

USF03 2542

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 33 Date/Time: 07/22/2011 11:50

Sample Number: **6339387** Class: **** Batch: 111935708005

Initial Vol: 1.00 Final Vol: 100.00 DF: 5.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00043	-45.87	88.571	0.00001	-0.00066	-0.00065
AL	46.15643	103,438.11	1.647	45.52173	45.94877	46.99879
AS	0.01999	7.09	10.929	0.01747	0.02134	0.02117
B	0.02915	940.74	4.511	0.02777	0.02930	0.03039
BA	0.17257	89,419.24	1.438	0.17092	0.17136	0.17542
BE	0.00142	864.99	1.274	0.00141	0.00141	0.00144
CA	9.64212	5,363.81	0.379	9.60452	9.64438	9.67745
CD	0.00221	166.71	5.500	0.00207	0.00225	0.00230
CO	0.01998	100.86	1.652	0.01960	0.02015	0.02020
CR	0.08255	1,428.31	1.201	0.08157	0.08254	0.08355
CU	0.01912	355.14	1.192	0.01888	0.01913	0.01934
FE	70.12735	541,678.51	1.703	69.99853	69.00261	71.38091
K	8.28716	3,021.44	0.588	8.23145	8.32184	8.30820
LI	0.09272	820.48	1.760	0.09098	0.09295	0.09422
MG	21.47055	23,599.02	0.346	21.44047	21.41605	21.55512
MN	0.69718	65,490.70	1.453	0.69100	0.69167	0.70887
MO	-0.00029	1.54	58.022	-0.00010	-0.00043	-0.00034
NA	0.31110	429.74	2.252	0.30699	0.30713	0.31919
NI	0.03191	68.30	1.891	0.03174	0.03141	0.03258
P	1.25275	745.70	1.274	1.23786	1.25078	1.26960
PB	0.02558	51.02	1.911	0.02507	0.02564	0.02604
SB	0.00090	4.63	115.644	-0.00027	0.00124	0.00173
SE	-0.01224	3.07	30.470	-0.01169	-0.00881	-0.01621
SI	3.74497	468.06	0.493	3.74847	3.72502	3.76144
SN	0.00449	3.42	19.272	0.00490	0.00508	0.00350
SR	0.06459	48,891.08	1.725	0.06383	0.06407	0.06587
TI	3.10579	246,220.59	2.040	3.09397	3.04918	3.17422
TL	0.00227	-10.04	22.188	0.00284	0.00186	0.00211
V	0.15376	2,479.21	1.435	0.15199	0.15305	0.15623
Y1	13483.59117	13,483.59	0.159	13508.31095	13472.14170	13470.32086
Y2A	636029.78590	636,029.79	1.153	637951.09562	642212.68260	627925.57947
Y2R	21155.55269	21,155.55	0.243	21207.13395	21104.11889	21155.40524
ZN	0.15952	3,060.66	1.385	0.15727	0.15961	0.16168
ZR	0.01168	2.78	7.121	0.01084	0.01250	0.01170

USF63 2343

LANCASTER LABORATORIES

Run Name: 1120304T70

Tube: 34

Sample Number: **CCV**

Instrument ID: 11016

Date/Time: 07/22/2011 11:53

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.51753	12,279.03	0.315	0.51740	0.51597	0.51922
AL	24.65248	55,328.36	0.149	24.69047	24.61698	24.65000
AS	0.50207	170.06	0.333	0.50265	0.50337	0.50018
B	0.50982	6,030.33	0.150	0.50952	0.50925	0.51069
BA	0.50043	258,034.71	1.218	0.50698	0.49493	0.49936
BE	0.51917	427,792.09	0.445	0.52134	0.51674	0.51942
CA	26.21468	14,131.90	0.062	26.21486	26.23081	26.19837
CD	0.50472	10,328.58	0.110	0.50532	0.50423	0.50460
CO	0.49406	1,896.93	0.168	0.49481	0.49421	0.49316
CR	0.53144	9,211.73	0.567	0.53026	0.52919	0.53486
CU	0.50318	7,831.19	0.191	0.50220	0.50412	0.50321
FE	26.36730	209,102.08	0.177	26.35844	26.32564	26.41782
K	24.11094	8,551.06	0.346	24.02987	24.19673	24.10622
LI	0.50770	4,353.39	0.487	0.50491	0.50960	0.50860
MG	25.51352	27,709.34	0.239	25.44760	25.56809	25.52488
MN	0.51257	47,945.83	0.180	0.51187	0.51223	0.51362
MO	0.49037	2,249.25	0.062	0.49019	0.49072	0.49019
NA	25.11675	25,371.53	0.247	25.06662	25.09746	25.18619
NI	0.49446	801.03	0.389	0.49505	0.49231	0.49602
P	0.50637	298.28	0.465	0.50765	0.50366	0.50781
PB	0.50558	748.21	0.428	0.50390	0.50802	0.50481
SB	0.51930	407.43	0.502	0.52097	0.52062	0.51629
SE	0.48436	157.74	0.532	0.48438	0.48177	0.48692
SI	26.76664	3,253.82	0.458	26.78855	26.63455	26.87682
SN	0.49251	273.62	0.195	0.49141	0.49297	0.49316
SR	0.51305	386,577.74	0.696	0.51225	0.50995	0.51695
TI	0.50721	40,272.27	0.127	0.50674	0.50696	0.50795
TL	0.48937	354.68	0.225	0.49062	0.48894	0.48856
V	0.53255	8,482.83	0.163	0.53242	0.53175	0.53347
Y1	13363.74260	13,363.74	0.106	13348.34863	13376.23331	13366.64586
Y2A	633258.08905	633,258.09	0.353	632994.14011	635614.69124	631165.43580
Y2R	20920.86736	20,920.87	0.704	21090.56886	20826.34207	20845.69116
ZN	0.48316	9,007.36	0.132	0.48384	0.48307	0.48257
ZR	0.50997	431.01	1.321	0.50506	0.50721	0.51765

USP83 2544

LANCASTER LABORATORIES

Run Name: 1120304T70

Tube: 35

Sample Number: **CCB**

Instrument ID: 11016

Date/Time: 07/22/2011 11:57

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00005	6.55	519.417	0.00013	-0.00022	0.00023
AL	-0.00107	116.74	113.643	-0.00008	-0.00243	-0.00070
AS	0.00076	0.87	130.173	-0.00016	0.00180	0.00064
B	-0.00233	30.34	10.377	-0.00216	-0.00221	-0.00261
BA	-0.00001	81.64	73.400	-0.00001	-0.00001	0.00000
BE	-0.00005	-361.31	15.426	-0.00004	-0.00006	-0.00005
CA	0.01022	158.96	73.442	0.00156	0.01430	0.01480
CD	0.00005	-0.01	165.998	0.00016	-0.00002	0.00003
CO	-0.00030	-2.85	41.782	-0.00030	-0.00017	-0.00042
CR	0.00028	-5.68	41.415	0.00041	0.00025	0.00018
CU	-0.00002	84.33	1973.768	0.00040	0.00002	-0.00049
FE	0.00143	3.40	19.282	0.00131	0.00124	0.00175
K	-0.03000	63.72	166.515	0.00698	-0.01015	-0.08682
LI	0.00094	27.74	224.319	0.00229	-0.00149	0.00203
MG	0.00102	1.14	71.379	0.00088	0.00037	0.00180
MN	-0.00003	2.87	323.170	0.00001	0.00004	-0.00012
MO	0.00033	4.47	53.318	0.00039	0.00047	0.00013
NA	0.01271	124.47	78.311	0.01676	0.01999	0.00137
NI	0.00035	18.09	82.654	0.00036	0.00006	0.00064
P	-0.00184	-3.08	45.690	-0.00278	-0.00114	-0.00161
PB	-0.00023	6.08	466.479	-0.00142	0.00067	0.00006
SB	-0.00043	2.75	333.118	0.00027	-0.00206	0.00052
SE	-0.00088	1.68	133.591	-0.00211	-0.00077	0.00023
SI	-0.03960	4.05	44.271	-0.02330	-0.03735	-0.05814
SN	-0.00017	0.83	389.537	0.00058	-0.00045	-0.00064
SR	0.00000	22.06	438.079	-0.00001	0.00002	0.00000
TI	0.00005	48.43	180.875	0.00007	-0.00005	0.00014
TL	-0.00237	-5.64	43.104	-0.00123	-0.00320	-0.00268
V	0.00077	-12.72	44.699	0.00078	0.00042	0.00110
Y1	13655.99969	13,656.00	0.045	13657.79610	13661.08959	13649.11339
Y2A	651071.79615	651,071.80	1.216	651504.03386	642949.33599	658762.01859
Y2R	20852.50346	20,852.50	0.325	20908.94501	20777.22056	20871.34481
ZN	-0.00017	11.85	46.414	-0.00010	-0.00025	-0.00015
ZR	0.00476	-3.18	29.535	0.00565	0.00314	0.00549

USP83 2545

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 36 Date/Time: 07/22/2011 12:01

Sample Number: LCSS Class: **** Batch: 111935708004

Initial Vol: 1.03 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.54393	12,795.11	1.529	0.54062	0.55340	0.53778
AL	154.25280	337,781.99	1.187	153.63350	156.31246	152.81245
AS	1.24989	417.32	0.531	1.25635	1.25022	1.24309
B	1.63041	20,304.81	1.420	1.62175	1.65664	1.61285
BA	2.96888	1,533,688.03	1.611	2.94429	3.02399	2.93835
BE	0.97585	806,106.29	1.202	0.97352	0.98857	0.96547
CA	121.11752	65,459.50	0.051	121.05128	121.17480	121.12648
CD	1.11853	22,960.22	0.338	1.12138	1.11996	1.11425
CO	1.33422	5,115.37	0.457	1.33941	1.33575	1.32751
CR	1.03434	17,976.92	1.583	1.03182	1.05184	1.01938
CU	0.86337	13,370.34	1.466	0.85846	0.87775	0.85391
FE	223.96226	1,537,734.95	1.443	221.52759	227.62913	222.73007
K	20.66611	7,498.45	0.394	20.62870	20.61018	20.75945
LI	0.16044	1,423.85	0.997	0.15875	0.16064	0.16194
MG	37.06441	41,025.08	0.358	37.13985	36.91141	37.14197
MN	5.65188	529,758.08	1.386	5.67507	5.71602	5.56454
MO	0.85129	3,866.05	0.520	0.85286	0.85472	0.84628
NA	8.12760	8,463.64	0.746	8.14752	8.05952	8.17577
NI	1.16115	1,839.97	0.526	1.16726	1.16115	1.15505
P	3.40782	1,996.08	0.232	3.41487	3.40932	3.39928
PB	1.33111	1,915.76	0.592	1.33801	1.33280	1.32252
SB	0.71747	554.54	0.381	0.72047	0.71683	0.71511
SE	1.98296	642.41	0.687	1.97792	1.99839	1.97258
SI	20.66529	2,568.06	0.803	20.85326	20.53876	20.60386
SN	1.23274	677.10	0.407	1.23802	1.23220	1.22802
SR	0.75965	573,585.66	1.837	0.75287	0.77570	0.75038
TI	6.02165	476,597.32	0.532	6.01791	6.05539	5.99164
TL	2.18800	1,571.19	0.501	2.19201	2.19641	2.17559
V	1.16370	18,683.90	1.417	1.15896	1.18204	1.15010
Y1	13238.67421	13,238.67	0.180	13227.45416	13222.58635	13265.98211
Y2A	634680.60243	634,680.60	1.249	636986.22008	625855.45424	641200.13298
Y2R	21369.94841	21,369.95	0.397	21307.93552	21466.53990	21335.36982
ZN	2.69628	49,623.88	0.407	2.70316	2.70205	2.68361
ZR	0.08214	64.68	5.761	0.08471	0.08503	0.07668

USF83 2546

LANCASTER LABORATORIES

Run Name: 1120304T70 Instrument ID: 11016

Tube: 37 Date/Time: 07/22/2011 12:06

Sample Number: LCSSD Class: **** Batch: 111935708004

Initial Vol: 1.03 Final Vol: 100.00 DF: 1.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.55920	13,369.99	0.653	0.56312	0.55589	0.55857
AL	159.75475	355,181.74	0.859	161.21923	158.49743	159.54758
AS	1.29018	432.28	0.392	1.29568	1.28912	1.28574
B	1.67411	21,201.10	0.491	1.68324	1.66731	1.67179
BA	3.09022	1,622,547.14	1.233	3.13397	3.06422	3.07246
BE	1.00124	840,623.85	1.184	1.01457	0.99186	0.99729
CA	123.46690	68,070.68	0.190	123.71262	123.24622	123.44184
CD	1.15758	23,844.96	0.128	1.15911	1.15748	1.15615
CO	1.37384	5,285.95	0.368	1.37820	1.37502	1.36830
CR	1.06245	18,768.72	0.905	1.07340	1.05538	1.05857
CU	0.89903	14,148.03	0.408	0.90232	0.89507	0.89968
FE	231.39264	1,605,237.88	0.798	233.51659	230.15592	230.50540
K	20.96611	7,761.45	0.205	20.98753	20.91651	20.99428
LI	0.16514	1,494.77	0.502	0.16599	0.16433	0.16510
MG	38.45402	43,420.21	0.458	38.27623	38.45762	38.62822
MN	5.69553	542,600.72	0.705	5.74187	5.67423	5.67050
MO	0.88021	4,011.39	0.458	0.88318	0.88182	0.87562
NA	8.49058	9,017.01	0.762	8.41754	8.51373	8.54048
NI	1.19992	1,907.53	0.454	1.20429	1.20165	1.19381
P	3.38904	1,992.12	0.302	3.40004	3.38730	3.37979
PB	1.37167	1,981.26	0.294	1.37453	1.37343	1.36707
SB	0.74252	575.82	0.350	0.74551	0.74107	0.74097
SE	2.06405	670.80	0.448	2.07368	2.06324	2.05522
SI	21.55482	2,732.88	0.695	21.44887	21.48928	21.72632
SN	1.26522	697.37	0.213	1.26829	1.26322	1.26416
SR	0.78638	603,541.64	1.052	0.79223	0.79000	0.77691
TI	6.21213	499,699.91	1.054	6.28390	6.19674	6.15575
TL	2.24962	1,621.11	0.526	2.25997	2.25215	2.23673
V	1.19609	19,520.07	0.787	1.20685	1.18939	1.19201
Y1	13285.27730	13,285.28	0.062	13276.07904	13292.12844	13287.62440
Y2A	645035.93785	645,035.94	0.645	640817.60119	649130.17585	645160.03650
Y2R	21806.09101	21,806.09	0.299	21798.45656	21874.71903	21745.09743
ZN	2.76999	51,162.78	0.288	2.77776	2.77041	2.76181
ZR	0.08430	67.93	3.617	0.08082	0.08650	0.08558

USP93 2547

LANCASTER LABORATORIES

Run Name: 1120304T70

Tube: 38

Sample Number: **LLC**

Instrument ID: 11016

Date/Time: 07/22/2011 12:10

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00532	137.36	2.205	0.00529	0.00522	0.00545
AL	0.18134	546.97	2.579	0.18636	0.18054	0.17711
AS	0.01912	7.27	3.187	0.01920	0.01969	0.01848
B	0.04907	639.77	1.844	0.04983	0.04930	0.04807
BA	0.00498	2,764.56	1.524	0.00506	0.00497	0.00491
BE	0.00499	3,972.18	0.764	0.00503	0.00499	0.00496
CA	0.21816	279.47	3.627	0.22487	0.22017	0.20943
CD	0.00510	106.28	1.184	0.00513	0.00503	0.00513
CO	0.00489	17.72	2.464	0.00489	0.00477	0.00501
CR	0.01613	281.36	3.254	0.01670	0.01605	0.01566
CU	0.00989	244.85	12.479	0.01006	0.01103	0.00858
FE	0.21371	1,792.15	1.919	0.21755	0.21418	0.20939
K	0.45722	242.90	3.414	0.44111	0.47228	0.45826
LI	0.01984	195.20	2.755	0.01964	0.01941	0.02045
MG	0.10279	115.88	2.411	0.10063	0.10225	0.10549
MN	0.00528	521.30	0.669	0.00530	0.00531	0.00524
MO	0.01030	51.60	1.688	0.01024	0.01050	0.01016
NA	1.00156	1,155.79	2.020	1.02332	0.99803	0.98333
NI	0.01023	34.40	5.976	0.01087	0.00965	0.01018
P	0.09836	58.01	0.640	0.09900	0.09834	0.09775
PB	0.01486	28.31	6.722	0.01600	0.01450	0.01410
SB	0.01932	18.58	4.646	0.01847	0.01923	0.02025
SE	0.01936	8.34	8.530	0.02094	0.01764	0.01951
SI	-0.04051	4.08	54.640	-0.01627	-0.04562	-0.05965
SN	0.01923	11.91	4.036	0.01979	0.01834	0.01956
SR	0.00510	4,031.48	1.080	0.00515	0.00511	0.00504
TI	0.01038	902.34	0.621	0.01045	0.01037	0.01032
TL	0.02763	17.03	2.462	0.02692	0.02769	0.02828
V	0.00581	71.21	3.102	0.00590	0.00561	0.00593
Y1	13778.23040	13,778.23	0.084	13791.38825	13769.89133	13773.41161
Y2A	661020.60093	661,020.60	0.906	655633.94754	659959.62815	667468.22709
Y2R	21601.63548	21,601.64	0.173	21625.08746	21558.45818	21621.36080
ZN	0.01871	371.67	0.337	0.01878	0.01866	0.01869
ZR	0.05250	39.07	4.083	0.05263	0.05457	0.05029

USP03 2548

LANCASTER LABORATORIES

Run Name: 1120304T70

Tube: 39

Sample Number: **ICSA**

Instrument ID: 11016

Date/Time: 07/22/2011 12:14

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00069	-12.75	21.983	-0.00052	-0.00080	-0.00076
AL	556.22927	1,047,385.37	1.238	550.04278	563.64965	554.99537
AS	0.00936	6.75	52.242	0.00612	0.01498	0.00698
B	0.01935	1,730.55	11.830	0.02053	0.02080	0.01671
BA	0.00065	392.27	5.740	0.00061	0.00067	0.00068
BE	-0.00036	-570.59	2.339	-0.00036	-0.00036	-0.00037
CA	510.90876	254,999.60	0.564	514.23014	509.06286	509.43327
CD	0.00716	450.80	6.625	0.00766	0.00711	0.00671
CO	0.00306	9.22	13.042	0.00270	0.00298	0.00349
CR	0.00216	25.32	15.752	0.00205	0.00189	0.00254
CU	-0.00262	39.24	16.520	-0.00311	-0.00228	-0.00247
FE	200.83781	1,308,648.42	1.347	197.71832	202.52629	202.26683
K	-0.00202	72.74	1770.157	-0.11283	0.06237	0.04441
LI	0.00127	50.86	147.199	0.00103	0.00324	-0.00047
MG	502.24149	487,543.06	0.380	500.05845	503.08272	503.58329
MN	0.00436	385.45	0.752	0.00436	0.00432	0.00439
MO	-0.00014	2.02	154.918	-0.00022	-0.00031	0.00011
NA	0.03680	147.07	13.072	0.03308	0.04223	0.03508
NI	-0.00075	14.59	202.098	0.00099	-0.00141	-0.00183
P	0.00299	-0.15	106.332	0.00136	0.00666	0.00096
PB	0.00475	137.32	34.333	0.00463	0.00643	0.00318
SB	0.00895	9.14	21.552	0.01034	0.00675	0.00975
SE	0.00598	16.34	79.513	0.01041	0.00095	0.00659
SI	-0.06868	0.52	24.301	-0.07727	-0.07933	-0.04945
SN	-0.00042	0.61	143.833	-0.00084	-0.00069	0.00027
SR	0.00339	2,401.99	1.176	0.00334	0.00342	0.00340
TI	-0.00082	-20.60	18.368	-0.00099	-0.00076	-0.00070
TL	0.02001	-3.50	18.057	0.01799	0.01786	0.02418
V	0.00042	35.32	85.296	0.00072	0.00003	0.00050
Y1	12227.65724	12,227.66	0.079	12216.75412	12235.19085	12231.02673
Y2A	591408.87982	591,408.88	1.078	598753.99536	587273.73754	588198.90656
Y2R	20633.63016	20,633.63	0.527	20677.51749	20713.62787	20509.74513
ZN	0.00443	426.15	7.008	0.00478	0.00430	0.00420
ZR	-0.00859	-14.46	8.231	-0.00829	-0.00808	-0.00939

USF03 2549

LANCASTER LABORATORIES

Run Name: 1120304T70

Tube: 40

Sample Number: **ICSAB**

Instrument ID: 11016

Date/Time: 07/22/2011 12:18

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.22011	4,834.49	0.631	0.21875	0.22006	0.22153
AL	554.21762	1,046,072.93	0.628	550.57544	554.57292	557.50450
AS	0.11356	39.09	3.266	0.11218	0.11776	0.11073
B	0.01863	1,729.12	8.060	0.01825	0.02028	0.01735
BA	0.49847	240,479.00	1.648	0.49735	0.49088	0.50719
BE	0.51139	394,251.08	0.960	0.50917	0.50798	0.51702
CA	512.94002	256,937.72	0.355	513.60067	510.88292	514.33647
CD	0.93083	17,731.28	0.373	0.93350	0.93208	0.92691
CO	0.45770	1,610.42	0.216	0.45844	0.45808	0.45657
CR	0.49591	8,042.02	0.850	0.49275	0.49429	0.50070
CU	0.53093	7,730.33	0.624	0.52904	0.52899	0.53476
FE	201.69994	1,315,873.10	1.346	200.42275	199.85975	204.81733
K	0.01223	78.06	355.630	0.05709	-0.02972	0.00930
LI	0.00073	46.45	343.394	-0.00140	0.00347	0.00011
MG	496.89620	484,771.08	0.309	496.85804	498.45048	495.38007
MN	0.47692	41,740.00	0.569	0.47580	0.47495	0.48001
MO	-0.00078	-0.67	15.366	-0.00082	-0.00065	-0.00088
NA	0.05637	167.10	10.776	0.04941	0.06059	0.05912
NI	0.87825	1,293.28	0.145	0.87878	0.87917	0.87680
P	0.00241	0.21	111.572	-0.00067	0.00358	0.00430
PB	0.05060	197.92	1.264	0.05099	0.05094	0.04986
SB	0.62611	454.02	0.423	0.62756	0.62772	0.62305
SE	0.04832	28.87	7.115	0.05069	0.04437	0.04989
SI	-0.03712	4.32	24.712	-0.02770	-0.03764	-0.04603
SN	0.00125	1.46	83.916	0.00019	0.00229	0.00126
SR	0.00338	2,399.99	0.594	0.00336	0.00339	0.00339
TI	-0.00044	89.89	8.708	-0.00045	-0.00048	-0.00040
TL	0.10614	55.36	2.025	0.10449	0.10536	0.10857
V	0.51237	7,680.56	0.670	0.51014	0.51065	0.51633
Y1	12267.64653	12,267.65	0.127	12252.80345	12266.20032	12283.93582
Y2A	592512.77336	592,512.77	0.670	595254.34062	594326.88867	587957.09079
Y2R	20712.88516	20,712.89	0.551	20844.38559	20640.19461	20654.07527
ZN	0.99432	17,242.72	0.376	0.99742	0.99537	0.99017
ZR	-0.00910	-14.96	13.647	-0.01052	-0.00859	-0.00820

USP83 2558

LANCASTER LABORATORIES

Run Name: 1120304T70

Instrument ID: 11016

Tube: 41

Date/Time: 07/22/2011 12:23

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.50713	12,422.53	0.322	0.50683	0.50567	0.50889
AL	24.22872	56,147.24	0.758	24.07721	24.17596	24.43300
AS	0.50358	173.09	0.300	0.50489	0.50193	0.50392
B	0.50456	6,160.29	0.710	0.50136	0.50388	0.50843
BA	0.48898	260,321.64	1.175	0.48382	0.49517	0.48794
BE	0.51075	434,501.29	0.557	0.51263	0.50747	0.51214
CA	26.06787	14,398.60	0.236	26.13771	26.04365	26.02224
CD	0.50284	10,441.89	0.091	0.50242	0.50279	0.50332
CO	0.49205	1,917.08	0.054	0.49177	0.49230	0.49208
CR	0.52074	9,319.01	0.569	0.51862	0.51949	0.52413
CU	0.49505	7,955.89	0.535	0.49453	0.49270	0.49792
FE	25.85317	211,749.86	0.362	25.85220	25.76010	25.94720
K	24.01103	8,724.86	0.419	23.93896	23.96812	24.12600
LI	0.50829	4,465.40	0.552	0.50907	0.50517	0.51062
MG	25.41322	28,278.09	0.312	25.37335	25.36186	25.50445
MN	0.50082	48,366.50	0.249	0.50149	0.49938	0.50159
MO	0.48855	2,274.06	0.070	0.48877	0.48871	0.48815
NA	25.04144	25,916.34	0.545	25.01493	24.92003	25.18935
NI	0.49148	808.09	0.016	0.49156	0.49148	0.49140
P	0.51258	306.41	0.114	0.51289	0.51295	0.51191
PB	0.50508	758.34	0.548	0.50404	0.50298	0.50822
SB	0.52260	415.97	0.327	0.52420	0.52280	0.52081
SE	0.48354	159.77	0.662	0.48118	0.48719	0.48226
SI	26.54856	3,306.49	0.272	26.47605	26.54933	26.62029
SN	0.48822	275.26	0.387	0.48794	0.48649	0.49024
SR	0.50709	394,490.64	0.244	0.50573	0.50740	0.50815
TI	0.49558	40,626.96	0.077	0.49592	0.49517	0.49566
TL	0.48733	358.45	0.335	0.48547	0.48852	0.48800
V	0.52278	8,596.80	0.297	0.52141	0.52246	0.52446
Y1	13561.59475	13,561.59	0.093	13559.26759	13575.14940	13550.36727
Y2A	653801.92435	653,801.92	0.373	653788.13869	656245.71997	651371.91440
Y2R	21433.95988	21,433.96	0.399	21532.21682	21377.30951	21392.35331
ZN	0.48222	9,121.93	0.039	0.48235	0.48201	0.48231
ZR	0.51030	441.90	1.592	0.51652	0.50111	0.51326

USF03 2551

LANCASTER LABORATORIES

Run Name: 1120304T70

Tube: 42

Sample Number: **CCB**

Instrument ID: 11016

Date/Time: 07/22/2011 12:27

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00014	9.22	251.095	0.00041	-0.00026	0.00028
AL	-0.00307	115.04	49.446	-0.00423	-0.00364	-0.00135
AS	-0.00020	0.55	792.379	-0.00196	0.00113	0.00022
B	-0.00196	35.63	15.597	-0.00161	-0.00207	-0.00219
BA	0.00000	90.19	539.775	-0.00002	0.00001	0.00002
BE	-0.00005	-372.33	18.272	-0.00005	-0.00006	-0.00005
CA	0.01283	164.86	58.902	0.02150	0.00942	0.00758
CD	0.00009	0.77	29.091	0.00006	0.00010	0.00011
CO	0.00003	-1.58	503.809	0.00004	-0.00014	0.00020
CR	0.00024	-6.58	125.714	0.00057	0.00000	0.00013
CU	-0.00001	86.78	887.404	0.00011	-0.00014	-0.00001
FE	0.00088	-1.19	25.401	0.00109	0.00064	0.00092
K	0.02650	85.85	77.751	0.04845	0.00757	0.02348
LI	0.00140	32.47	136.005	0.00198	0.00294	-0.00073
MG	-0.00174	-1.91	30.278	-0.00194	-0.00214	-0.00114
MN	0.00015	19.99	19.504	0.00015	0.00012	0.00017
MO	0.00050	5.37	36.325	0.00069	0.00050	0.00032
NA	0.00738	122.43	232.147	0.02645	-0.00667	0.00235
NI	0.00060	18.78	111.697	0.00136	0.00031	0.00012
P	-0.00225	-3.38	36.738	-0.00136	-0.00240	-0.00299
PB	0.00063	7.44	54.157	0.00099	0.00033	0.00056
SB	-0.00015	3.00	270.294	0.00019	-0.00004	-0.00061
SE	-0.00256	1.16	67.938	-0.00070	-0.00282	-0.00414
SI	-0.03332	4.94	31.974	-0.02715	-0.02719	-0.04562
SN	0.00121	1.64	30.570	0.00151	0.00080	0.00133
SR	0.00000	16.61	962.923	-0.00003	-0.00002	0.00004
TI	0.00005	49.61	24.778	0.00007	0.00004	0.00005
TL	-0.00310	-6.29	35.762	-0.00307	-0.00201	-0.00423
V	0.00050	-17.51	76.161	0.00054	0.00087	0.00010
Y1	13873.87911	13,873.88	0.028	13878.14334	13873.09149	13870.40251
Y2A	668514.33156	668,514.33	1.397	678418.21049	667254.68127	659870.10292
Y2R	21440.48214	21,440.48	0.516	21313.51958	21515.41812	21492.50871
ZN	-0.00028	9.95	22.063	-0.00032	-0.00031	-0.00021
ZR	0.00178	-5.89	65.885	0.00157	0.00073	0.00305

USF03 2552

ICP-MS Data

Lancaster Laboratories

ICP-MS Run Data Report

1119505E03

Method Reference Name(s):
SW-846 6020

Date File Name: 11G14Q00.E03

Run Name: 1119505E03

Analyst: 1242

Reviewed By: David K Beck
Reviewed Date: 07/23/2011 04:50

Verified By: Deborah A Krady
Verified Date: 07/23/2011 09:46

Instrument Parameters:

Rinse Time (sec): 25.00

INTERNAL STD.	ELEMENT	MASS
GE-2		72
	NA	23
	MG	24
	AL	27
	K	39
	CA	44
	TI	47
GE-3		72
	BE	9
	B	11
IN-1		115
	SE	78
IN-2		115
	V	51
	CR	52
	MN	55
	FE	57
	CO	59
	NI	60
	CU	63
	ZN	66
	AS	75
	SR	88
	MO	98
	AG	107
	CD	111
	SN	120
	SB	121
	BA	137
BI-2		209
	TL	203
	PB	208

USP83 2554

Run Name: 1119505E03
Tube Number: 1
Sample Number: **S0**

Date/Time: 07/14/2011 16:05:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
BE	9	0.00000	-3205900000	0.00000	0.00000	0.00000
B	11	0.00000	-304582000	0.00000	0.00000	0.00000
NA	23	0.00000	-19686900	0.00000	0.00000	0.00000
MG	24	0.00000	621603000	0.00000	0.00000	0.00000
AL	27	0.00000	-1913850000	0.00000	0.00000	0.00000
K	39	0.00000	-98395000	0.00000	0.00000	0.00000
CA	44	0.00001	692663000	0.00001	0.00000	0.00001
SC-1	45	190781.00000	2.638	187260.00000	188539.00000	196544.00000
SC-2	45	22954.00000	1.197	22790.40000	23271.10000	22800.40000
SC-3	45	1257390	1.347	1275830	1242510	1253840
TI	47	0.00000	-9781100000	0.00000	0.00000	0.00000
V	51	0.00000	1264200000	0.00000	0.00000	0.00000
CR	52	0.00000	888547000	0.00000	0.00000	0.00000
MN	55	0.00000	-12678100000	0.00000	0.00000	0.00000
FE	57	0.00000	-1646850000	0.00000	0.00000	0.00000
CO	59	0.00000	30988300000	0.00000	0.00000	0.00000
NI	60	0.00000	-4752280000	0.00000	0.00000	0.00000
CU	63	0.00000	-535399000	0.00000	0.00000	0.00000
ZN	66	0.00000	21170900000	0.00000	0.00000	0.00000
GE-1	72	23629.30000	0.282	23702.80000	23612.50000	23572.50000
GE-2	72	6458.54000	3.330	6641.93000	6511.99000	6221.72000
GE-3	72	116804.00000	1.574	118929.00000	115747.00000	115738.00000
AS	75	0.00000	790461000	0.00000	0.00000	0.00000
SE	78	0.00000	-45867900000	0.00000	0.00000	0.00000
SR	88	0.00000	0.000	0.00000	0.00000	0.00000
MO	98	0.00000	5139010000	0.00000	0.00000	0.00000
AG	107	0.00000	5964400000	0.00000	0.00000	0.00000
CD	111	0.00000	671613000	0.00000	0.00000	0.00000
IN-1	115	225070.00000	2.053	221103.00000	223963.00000	230144.00000
IN-2	115	34554.70000	1.401	34216.70000	34338.00000	35109.40000
SN	120	0.00000	-3523430000	0.00000	0.00000	0.00000
SB	121	0.00000	0.000	0.00000	0.00000	0.00000
BA	137	0.00000	0.000	0.00000	0.00000	0.00000
TB-2	159	162971.00000	0.700	162724.00000	164214.00000	161975.00000
TL	203	0.00000	0.000	0.00000	0.00000	0.00000
PB	208	0.00000	-1059840000	0.00000	0.00000	0.00000
BI-2	209	134306.00000	1.650	135435.00000	131754.00000	135731.00000

USP83 2555

Run Name: 1119505E03
Tube Number: 2
Sample Number: S1

Date/Time: 07/14/2011 16:08:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6338.46000	1.205	6271.77000	6421.81000	6321.79000
GE-3	72	111816.00000	1.715	113951.00000	111258.00000	110240.00000
AL	27	10000.00000	2.352	9813.99000	9946.99000	10239.00000
B	11	1000.00000	1.560	1012.17000	984.63200	1003.19000
BE	9	100.00000	0.713	101.45100	99.14290	99.40650
CA	44	10000.00000	3.176	10034.20000	9768.74000	10197.10000
K	39	10000.00000	2.287	9965.92000	9876.50000	10157.60000
MG	24	10000.00000	1.062	9946.96000	10008.50000	10044.50000
NA	23	10000.00000	2.287	9971.24000	9875.24000	10153.50000
TI	47	1000.00000	2.210	1009.76000	989.49700	1000.74000
IN-1	115	221923.00000	1.052	219311.00000	223804.00000	222655.00000
IN-2	115	32277.60000	0.685	32041.80000	32310.50000	32480.60000
AG	107	100.00000	0.808	98.93430	99.51250	101.55300
AS	75	1000.00000	1.189	979.53800	1004.30000	1016.16000
BA	137	1000.00000	1.649	996.54600	982.89200	1020.56000
CD	111	100.00000	1.154	100.59000	99.55320	99.85630
CO	59	1000.00000	0.514	990.24000	997.54700	1012.21000
CR	52	1000.00000	1.244	999.81300	986.64700	1013.54000
CU	63	1000.00000	0.614	995.94600	993.93900	1010.12000
FE	57	10000.00000	2.127	10095.50000	9771.73000	10132.70000
MN	55	1000.00000	0.477	988.58600	999.89000	1011.52000
MO	98	100.00000	0.924	98.77500	99.52710	101.69800
NI	60	1000.00000	0.654	993.71600	1007.01000	999.26900
SB	121	100.00000	2.462	99.63310	97.47080	102.89600
SE	78	100.00000	2.065	101.18600	99.80560	99.00830
SN	120	100.00000	1.095	98.18130	100.09200	101.72700
SR	88	100.00000	4.681	93.89950	103.11400	102.98700
V	51	1000.00000	1.039	984.46600	997.55200	1017.98000
ZN	66	1000.00000	0.507	992.90200	1006.00000	1001.10000
BI-2	209	128414.00000	2.774	126651.00000	126077.00000	132513.00000
PB	208	100.00000	1.514	99.51320	99.06960	101.41700
TL	203	100.00000	1.194	99.85350	98.13300	102.01300
SC-1	45	191539.00000	0.803	189850.00000	192862.00000	191904.00000
SC-2	45	22546.80000	2.835	21809.00000	22930.70000	22900.70000
SC-3	45	1277060	0.860	1286980	1278950	1265260
GE-1	72	23308.60000	3.695	24043.00000	23522.20000	22360.50000
TB-2	159	159918.00000	1.250	159513.00000	158153.00000	162088.00000

USF03 2556

Run Name: 1119505E03
Tube Number: 3
Sample Number: **CCS**

Date/Time: 07/14/2011 16:11:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6681.99000	2.493	6561.87000	6872.14000	6611.97000
GE-3	72	116704.00000	1.010	116788.00000	115486.00000	117839.00000
AL	27	-0.29260	-300.376	-0.58520	0.00000	-0.29260
B	11	26.38000	3.946	26.61420	26.49190	26.03400
BE	9	0.10200	27.500	0.10200	0.07650	0.12750
CA	44	16.58000	72.316	17.40880	14.92210	17.40910
K	39	8.11600	77.735	7.71770	8.88031	7.74999
MG	24	-1.12800	-48.209	-0.90240	-1.12800	-1.35360
NA	23	-3.88200	-50.361	-3.84448	-3.90584	-3.89568
TI	47	-0.38170	0.000	0.00000	0.00000	0.00000
IN-1	115	225022.00000	1.641	222316.00000	229228.00000	223520.00000
IN-2	115	34290.20000	2.352	33394.40000	34958.20000	34518.10000
AG	107	0.00535	151.617	0.00000	0.00535	0.01070
AS	75	0.08432	202.799	0.10841	0.10841	0.03614
BA	137	0.00000	0.000	0.00000	0.00000	0.00000
CD	111	0.01602	170.662	0.01869	0.01068	0.01869
CO	59	0.05321	44.071	0.04695	0.03756	0.07512
CR	52	-0.08913	-11.377	-0.08356	-0.10027	-0.08356
CU	63	-0.02263	-254.132	-0.02328	-0.02272	-0.02189
FE	57	0.35530	149.001	0.32797	0.40996	0.32797
MN	55	0.02995	480.601	0.00898	0.06290	0.01797
MO	98	0.19010	26.659	0.21805	0.21806	0.13419
NI	60	0.04016	205.852	0.03012	0.07530	0.01506
SB	121	0.18140	32.133	0.12093	0.18140	0.24187
SE	78	0.02566	107.638	0.02406	0.03368	0.01925
SN	120	0.12770	45.795	0.14366	0.09578	0.14366
SR	88	0.06725	35.182	0.08070	0.08070	0.04035
V	51	0.06603	116.205	0.07730	0.05315	0.06764
ZN	66	0.31570	25.410	0.35516	0.35516	0.23677
BI-2	209	131947.00000	1.297	130481.00000	131531.00000	133829.00000
PB	208	0.01836	29.989	0.01542	0.02093	0.01873
TL	203	0.11470	15.301	0.11714	0.09518	0.13178
SC-1	45	187679.00000	1.270	186927.00000	190347.00000	185763.00000
SC-2	45	22940.80000	1.007	22720.60000	22920.90000	23181.00000
SC-3	45	1279280	0.952	1272850	1271640	1293330
GE-1	72	23572.30000	2.296	23943.00000	23822.70000	22951.20000
TB-2	159	163015.00000	1.262	162115.00000	165369.00000	161559.00000

USF03 2552

Run Name: 1119505E03 Date/Time: 07/14/2011 16:14:00
Tube Number: 4
Sample Number: **CCS**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6531.90000	2.618	6371.82000	6511.84000	6712.06000
GE-3	72	115036.00000	0.470	115557.00000	114477.00000	115074.00000
AL	27	0.00926	5550.270	0.00694	0.01389	0.00694
B	11	15.98000	4.402	15.95800	16.20560	15.77640
BE	9	0.01744	38.372	0.01476	0.02146	0.01610
CA	44	-17.52000	-36.644	-15.57320	-17.52030	-19.46650
K	39	-0.36430	-4202.580	-0.40561	-0.37020	-0.31708
MG	24	-0.88000	-19.659	-0.90750	-0.82500	-0.90750
NA	23	-6.12600	-45.397	-5.90652	-6.30326	-6.16821
TI	47	-0.02789	-2197.920	0.00000	0.00000	-0.08367
IN-1	115	225431.00000	0.800	227332.00000	223745.00000	225216.00000
IN-2	115	33418.50000	1.705	32914.00000	33305.00000	34036.60000
AG	107	0.00007	6499.730	0.00000	0.00022	0.00000
AS	75	-0.15830	-54.782	-0.23745	0.00000	-0.23745
BA	137	0.02663	173.188	0.07989	0.00000	0.00000
CD	111	-0.02789	-97.454	-0.03719	-0.03719	-0.00930
CO	59	0.02743	86.657	0.00823	0.03292	0.04115
CR	52	-0.12890	-34.143	-0.03867	-0.19335	-0.15468
CU	63	-0.08938	-117.588	-0.09772	-0.08581	-0.08461
FE	57	-0.58610	-220.611	-0.70332	-0.70332	-0.35166
MN	55	0.03625	204.828	0.05438	0.02175	0.03263
MO	98	0.01807	58.716	0.02711	0.01355	0.01355
NI	60	-0.05414	-44.884	0.00000	-0.16242	0.00000
SB	121	0.10380	62.977	0.15570	0.03114	0.12456
SE	78	0.02580	114.457	0.01935	0.02419	0.03386
SN	120	-0.04410	-115.397	-0.06615	-0.01323	-0.05292
SR	88	0.00000	0.000	0.00000	0.00000	0.00000
V	51	-0.11060	-46.076	-0.12640	-0.12640	-0.07900
ZN	66	0.46060	105.601	0.00000	0.87934	0.50246
BI-2	209	132690.00000	1.680	135163.00000	130835.00000	132071.00000
PB	208	0.00041	2269.140	0.00019	0.00052	0.00052
TL	203	0.01211	33.782	0.01453	0.00727	0.01453
SC-1	45	191518.00000	0.055	191631.00000	191502.00000	191422.00000
SC-2	45	21969.10000	2.899	21388.20000	22650.10000	21869.10000
SC-3	45	1258890	2.331	1265590	1284300	1226790
GE-1	72	24180.20000	0.746	24173.50000	24363.70000	24003.20000
TB-2	159	160712.00000	1.875	164102.00000	158339.00000	159696.00000

USP63 2558

Run Name: 1119505E03 Date/Time: 07/14/2011 16:17:00
Tube Number: 5
Sample Number: **ICV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6221.77000	2.367	6051.73000	6301.78000	6311.81000
GE-3	72	111035.00000	2.186	111663.00000	113086.00000	108355.00000
AL	27	5072.00000	3.330	5121.98000	5009.30000	5084.72000
B	11	526.30000	4.378	515.64000	524.63000	538.63000
BE	9	50.26000	3.458	49.84670	49.92640	51.00690
CA	44	5449.00000	7.365	5576.00000	5697.28000	5073.72000
K	39	5234.00000	2.165	5166.46000	5353.97000	5181.58000
MG	24	5167.00000	3.019	5082.76000	5055.34000	5362.90000
NA	23	5183.00000	2.527	5075.82000	5105.98000	5367.20000
TI	47	515.50000	7.317	500.23400	560.91400	485.35200
IN-1	115	224475.00000	0.959	222841.00000	223671.00000	226913.00000
IN-2	115	32102.10000	4.208	31272.00000	33661.50000	31372.80000
AG	107	52.15000	2.807	51.87810	52.97460	51.59730
AS	75	498.80000	3.091	496.55400	504.91500	494.93100
BA	137	507.30000	4.195	502.73700	507.19200	511.97100
CD	111	52.29000	2.083	50.54810	53.99460	52.32740
CO	59	514.80000	3.767	504.36000	518.80700	521.23300
CR	52	514.90000	3.935	500.08200	520.25800	524.36000
CU	63	517.00000	3.909	508.67400	519.49800	522.82800
FE	57	5136.00000	4.683	5102.15000	5105.53000	5200.32000
MN	55	521.80000	3.480	511.93200	527.10400	526.36300
MO	98	50.58000	5.117	51.17700	50.01370	50.54920
NI	60	506.60000	3.172	500.29600	512.46300	507.04100
SB	121	51.78000	3.420	51.10910	52.24500	51.98580
SE	78	52.17000	3.713	52.98950	53.02800	50.49250
SN	120	52.54000	5.255	50.37790	52.82630	54.41580
SR	88	50.36000	5.987	50.87770	49.23850	50.96370
V	51	515.10000	3.071	504.70500	522.76700	517.82800
ZN	66	494.40000	4.096	488.86800	495.07000	499.26200
BI-2	209	132259.00000	0.243	131888.00000	132464.00000	132423.00000
PB	208	49.85000	1.327	49.20700	49.68180	50.66120
TL	203	50.00000	1.664	49.03290	50.91370	50.05350
SC-1	45	192051.00000	0.286	192418.00000	191419.00000	192316.00000
SC-2	45	22670.40000	3.640	22239.60000	22149.50000	23622.00000
SC-3	45	1261600	3.026	1287230	1279830	1217730
GE-1	72	23569.00000	2.299	23962.80000	22951.20000	23793.00000
TB-2	159	160264.00000	0.351	159627.00000	160466.00000	160698.00000

USF83 2559

Run Name: 1119505E03
Tube Number: 6
Sample Number: **ICB**

Date/Time: 07/14/2011 16:20:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6388.54000	2.893	6601.96000	6281.81000	6281.85000
GE-3	72	114074.00000	2.291	112157.00000	113016.00000	117050.00000
AL	27	0.65200	144.233	0.32600	0.97800	0.65200
B	11	23.51000	7.074	23.44890	23.87570	23.20540
BE	9	0.07065	16.716	0.05968	0.06996	0.08231
CA	44	-13.34000	-186.507	-18.58070	-10.00490	-11.43430
K	39	8.04600	138.951	7.78857	8.82946	7.51997
MG	24	-0.15990	-933.083	-0.18450	-0.08610	-0.20910
NA	23	3.81900	126.473	3.75699	3.80107	3.89894
TI	47	-0.00365	-17935.400	0.00000	-0.01096	0.00000
IN-1	115	225899.00000	2.189	228105.00000	229358.00000	220233.00000
IN-2	115	33568.30000	3.902	32060.90000	34217.40000	34426.60000
AG	107	0.01685	102.374	0.02166	0.00000	0.02889
AS	75	-0.02588	-387.944	-0.02218	-0.03882	-0.01664
BA	137	0.05295	86.742	0.07942	0.07942	0.00000
CD	111	0.04342	26.900	0.04531	0.03964	0.04531
CO	59	0.04278	79.944	0.03667	0.01833	0.07334
CR	52	-0.05970	-127.186	-0.03582	-0.04477	-0.09850
CU	63	-0.14520	-87.603	-0.15877	-0.13841	-0.13841
FE	57	1.93700	181.156	2.39276	2.73460	0.68364
MN	55	-0.04396	-118.016	-0.02638	-0.02638	-0.07913
MO	98	0.05220	67.261	0.01566	0.06264	0.07830
NI	60	0.00093	5008.060	0.00056	0.00167	0.00056
SB	121	0.14430	8.711	0.12369	0.15461	0.15461
SE	78	0.05708	85.441	0.04077	0.08154	0.04893
SN	120	-0.03681	-69.682	-0.03012	-0.03012	-0.05020
SR	88	0.01345	173.234	0.00000	0.04035	0.00000
V	51	-0.08623	-132.552	-0.05389	-0.06467	-0.14012
ZN	66	0.22610	206.767	0.00000	0.67830	0.00000
BI-2	209	133017.00000	3.160	128207.00000	135984.00000	134860.00000
PB	208	0.01199	140.784	0.00771	0.00856	0.01970
TL	203	0.06345	36.848	0.08785	0.05125	0.05125
SC-1	45	189218.00000	2.445	188780.00000	194049.00000	184825.00000
SC-2	45	22767.30000	2.100	22981.00000	22219.60000	23101.30000
SC-3	45	1273660	2.430	1248640	1264070	1308260
GE-1	72	24049.70000	1.471	24103.10000	24373.60000	23672.40000
TB-2	159	163378.00000	1.136	161431.00000	163575.00000	165128.00000

USF03 2568

Run Name: 1119505E03 Date/Time: 07/14/2011 16:23:00
Tube Number: 7
Sample Number: **LLC**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6425.17000	6.507	6481.86000	6812.05000	5981.59000
GE-3	72	111962.00000	4.735	106913.00000	111489.00000	117483.00000
AL	27	103.10000	17.362	83.54560	119.09900	106.65500
B	11	64.97000	6.012	64.91750	64.51760	65.47490
BE	9	0.51020	7.260	0.52090	0.47152	0.53818
CA	44	236.40000	12.432	262.89300	238.44000	207.86700
K	39	215.90000	11.885	219.36400	210.86300	217.47300
MG	24	97.57000	9.565	97.02450	95.38890	100.29700
NA	23	208.40000	8.417	212.26000	208.36900	204.57100
TI	47	2.97300	39.287	3.96397	1.98198	2.97305
IN-1	115	229241.00000	3.740	238438.00000	227817.00000	221469.00000
IN-2	115	33885.40000	0.427	33918.30000	34011.00000	33727.00000
AG	107	0.56460	11.534	0.62490	0.57556	0.49334
AS	75	1.81800	27.618	2.29415	1.42843	1.73143
BA	137	1.93900	17.071	1.78387	2.32681	1.70632
CD	111	0.57420	15.554	0.55177	0.51140	0.65943
CO	59	0.51000	16.829	0.60750	0.46125	0.46125
CR	52	1.73000	8.035	1.65477	1.88045	1.65478
CU	63	2.24100	5.141	2.24101	2.17509	2.30690
FE	57	105.10000	1.960	107.48800	104.41800	103.39400
MN	55	1.12000	13.188	1.09200	1.00799	1.26001
MO	98	0.44260	26.073	0.44835	0.32764	0.55181
NI	60	1.87600	12.042	1.95584	1.63650	2.03566
SB	121	1.05300	17.160	1.07345	1.22680	0.85875
SE	78	2.12100	17.831	2.32041	2.39292	1.64967
SN	120	1.98600	4.164	2.04597	2.02346	1.88857
SR	88	0.70670	9.250	0.69311	0.65234	0.77465
V	51	0.36180	73.024	0.32711	0.52040	0.23789
ZN	66	15.99000	2.212	15.89940	16.44310	15.62750
BI-2	209	133363.00000	1.425	132109.00000	135549.00000	132432.00000
PB	208	1.08300	3.090	1.04954	1.08663	1.11283
TL	203	0.52360	14.106	0.52843	0.60082	0.44156
SC-1	45	189595.00000	2.414	193146.00000	191209.00000	184431.00000
SC-2	45	22747.30000	4.306	22279.80000	23872.80000	22089.30000
SC-3	45	1247420	2.746	1208090	1263420	1270740
GE-1	72	23522.20000	2.914	24263.50000	23391.90000	22911.10000
TB-2	159	163617.00000	1.986	160767.00000	167156.00000	162928.00000

USPS 2561

Run Name: 1119505E03 Date/Time: 07/14/2011 16:26:00
Tube Number: 8
Sample Number: **ICSA**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6591.92000	0.923	6621.97000	6631.91000	6521.87000
GE-3	72	114602.00000	3.675	113336.00000	111168.00000	119302.00000
AL	27	9683.00000	0.320	9713.38000	9720.25000	9615.37000
B	11	15.02000	10.879	14.52610	15.25540	15.27850
BE	9	0.01363	78.210	0.01804	0.01443	0.00842
CA	44	9699.00000	1.465	9825.16000	9594.80000	9677.04000
K	39	11680.00000	0.658	11745.50000	11669.40000	11625.10000
MG	24	9913.00000	0.142	9974.43000	9964.77000	9799.79000
NA	23	10040.00000	0.668	10060.20000	10051.40000	10008.40000
TI	47	198.30000	11.937	204.05900	173.82600	217.01600
IN-1	115	221243.00000	2.013	216148.00000	224401.00000	223179.00000
IN-2	115	33114.10000	1.083	32713.40000	33404.90000	33223.90000
AG	107	0.01980	106.717	0.02228	0.03712	0.00000
AS	75	-0.05589	-157.613	-0.06986	-0.06986	-0.02795
BA	137	0.02624	173.209	0.00000	0.07872	0.00000
CD	111	0.01384	455.275	0.01954	0.01954	0.00244
CO	59	0.04385	68.620	0.06577	0.04698	0.01879
CR	52	0.18700	57.647	0.18700	0.13505	0.23895
CU	63	-0.51150	-22.327	-0.60484	-0.47043	-0.45923
FE	57	10150.00000	4.205	10459.10000	9819.31000	10171.60000
MN	55	0.52950	13.662	0.54241	0.58115	0.46493
MO	98	203.80000	2.490	206.43700	200.56100	204.40200
NI	60	0.08672	100.784	0.04730	0.07095	0.14191
SB	121	0.09424	1.088	0.09424	0.09424	0.09424
SE	78	-0.01069	-474.556	-0.01924	-0.00321	-0.00962
SN	120	0.03810	97.402	0.04001	0.04572	0.02857
SR	88	0.37690	56.461	0.58629	0.16751	0.37690
V	51	-0.04358	-137.012	-0.04669	-0.03268	-0.05136
ZN	66	0.42160	20.377	0.50592	0.37945	0.37944
BI-2	209	131985.00000	2.096	134598.00000	129086.00000	132271.00000
PB	208	0.01396	89.900	0.00857	0.01428	0.01904
TL	203	0.01225	35.910	0.00735	0.01470	0.01470
SC-1	45	190296.00000	2.560	184757.00000	193917.00000	192213.00000
SC-2	45	22700.40000	1.113	22490.20000	22630.10000	22980.80000
SC-3	45	1243030	2.329	1223950	1228790	1276340
GE-1	72	23525.60000	2.182	23352.00000	24103.10000	23121.60000
TB-2	159	160631.00000	0.894	160817.00000	159112.00000	161965.00000

USPB3 2562

Run Name: 1119505E03
Tube Number: 9
Sample Number: **ICSAB**

Date/Time: 07/14/2011 16:29:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6558.61000	2.508	6622.00000	6681.96000	6371.87000
GE-3	72	111512.00000	7.602	102627.00000	112398.00000	119511.00000
AL	27	9699.00000	3.541	9509.95000	9788.63000	9798.42000
B	11	12.07000	31.715	12.36620	12.05910	11.78480
BE	9	0.02463	29.180	0.02731	0.02088	0.02570
CA	44	9842.00000	4.444	9458.38000	10145.60000	9922.04000
K	39	11710.00000	2.600	11722.40000	11695.30000	11712.30000
MG	24	9902.00000	2.610	9840.10000	9952.18000	9913.72000
NA	23	9967.00000	2.319	9931.67000	10025.90000	9943.46000
TI	47	199.10000	7.644	188.62000	220.05900	188.62100
IN-1	115	220511.00000	3.879	215880.00000	230380.00000	215271.00000
IN-2	115	33331.70000	1.934	32753.30000	34026.60000	33215.20000
AG	107	20.35000	1.394	20.30230	20.71480	20.03290
AS	75	19.92000	5.577	20.30060	19.05970	20.39980
BA	137	0.07791	99.204	0.00000	0.15582	0.07791
CD	111	20.25000	0.924	20.10630	20.52200	20.12170
CO	59	19.94000	4.177	20.37710	19.47550	19.96740
CR	52	20.39000	2.036	20.46050	20.41800	20.29150
CU	63	19.50000	2.636	19.33880	19.35260	19.80860
FE	57	9938.00000	4.071	10141.90000	9714.59000	9957.55000
MN	55	21.18000	2.059	20.61530	21.32120	21.60350
MO	98	203.90000	0.939	202.54300	207.20100	201.95600
NI	60	19.46000	3.234	18.52360	19.82350	20.03290
SB	121	0.06178	84.801	0.03089	0.12356	0.03089
SE	78	0.02112	154.214	0.02534	0.02534	0.01267
SN	120	0.00412	1429.060	0.00386	0.00617	0.00232
SR	88	0.56740	17.034	0.66427	0.49820	0.53972
V	51	-0.02647	-125.538	-0.02912	-0.02382	-0.02647
ZN	66	19.83000	10.610	21.85940	19.36870	18.26200
BI-2	209	131393.00000	1.332	132425.00000	132382.00000	129372.00000
PB	208	0.01480	55.399	0.01085	0.01776	0.01579
TL	203	0.00736	1.342	0.00736	0.00736	0.00736
SC-1	45	187214.00000	2.462	182929.00000	192091.00000	186621.00000
SC-2	45	22647.20000	1.411	22380.20000	22560.30000	23001.20000
SC-3	45	1213550	8.669	1113400	1204050	1323190
GE-1	72	23632.50000	3.582	23421.90000	24564.40000	22911.10000
TB-2	159	164724.00000	1.481	167396.00000	164161.00000	162615.00000

USF03 2563

Run Name: 1119505E03 Date/Time: 07/14/2011 16:32:00
Tube Number: 10
Sample Number: CCV

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6571.94000	3.057	6481.89000	6802.12000	6431.82000
GE-3	72	112212.00000	2.114	113347.00000	109486.00000	113803.00000
AL	27	2411.00000	3.493	2356.47000	2424.19000	2452.34000
B	11	255.20000	3.466	263.71500	252.31300	249.57200
BE	9	25.55000	2.914	25.89060	25.62690	25.13260
CA	44	2562.00000	17.416	2806.69000	2145.25000	2734.06000
K	39	2517.00000	3.228	2528.84000	2513.49000	2508.67000
MG	24	2475.00000	3.283	2437.72000	2481.86000	2505.42000
NA	23	2462.00000	2.939	2445.49000	2470.93000	2469.57000
TI	47	242.00000	4.026	241.63800	239.47200	244.88900
IN-1	115	233843.00000	2.992	233604.00000	240955.00000	226968.00000
IN-2	115	34038.90000	1.603	34329.20000	34377.70000	33409.70000
AG	107	25.34000	1.941	25.97770	25.70520	24.33710
AS	75	248.80000	1.857	247.83200	249.11200	249.45600
BA	137	253.30000	2.646	253.66000	250.25300	255.98600
CD	111	25.90000	1.682	25.61830	26.38790	25.69380
CO	59	249.80000	3.584	247.22900	246.75600	255.41500
CR	52	244.70000	2.147	243.77900	244.13900	246.18200
CU	63	256.80000	1.875	255.09700	257.95000	257.35300
FE	57	2494.00000	7.394	2448.74000	2378.76000	2654.50000
MN	55	250.50000	4.263	245.72300	247.72400	258.05200
MO	98	24.61000	3.447	24.16330	24.56360	25.10310
NI	60	253.30000	0.892	256.88500	253.20200	249.81300
SB	121	25.01000	5.510	24.53060	24.37780	26.12160
SE	78	25.22000	7.569	24.78990	24.32910	26.54090
SN	120	24.93000	5.291	24.02940	24.85870	25.90190
SR	88	24.52000	4.282	25.33230	23.54520	24.68250
V	51	246.40000	2.849	245.00500	244.34700	249.84800
ZN	66	247.00000	2.747	242.60800	248.99300	249.39900
BI-2	209	135273.00000	0.893	136612.00000	134266.00000	134942.00000
PB	208	25.19000	0.821	25.21240	25.18160	25.17600
TL	203	25.46000	4.863	24.55460	26.57540	25.24990
SC-1	45	195037.00000	4.576	190763.00000	205295.00000	189054.00000
SC-2	45	22927.60000	3.218	22700.40000	22330.00000	23752.40000
SC-3	45	1283050	3.658	1289780	1233110	1326260
GE-1	72	23939.60000	4.064	23893.20000	24934.80000	22990.90000
TB-2	159	167049.00000	1.413	166366.00000	169677.00000	165105.00000

USP63 2564

Run Name: 1119505E03 Date/Time: 07/14/2011 16:35:00
Tube Number: 11
Sample Number: CCB

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6778.75000	3.026	6541.96000	6902.14000	6892.14000
GE-3	72	115345.00000	2.128	113496.00000	114408.00000	118131.00000
AL	27	0.22410	569.835	0.00000	0.40338	0.26892
B	11	11.25000	11.778	11.42080	11.25320	11.07600
BE	9	0.02135	31.457	0.01747	0.02038	0.02620
CA	44	-31.28000	-115.090	-20.39990	-53.04010	-20.39990
K	39	11.04000	32.745	10.73020	10.85700	11.53280
MG	24	-0.04107	-3973.700	-0.02006	-0.05444	-0.04871
NA	23	-8.40000	-23.809	-8.27452	-8.37716	-8.54833
TI	47	-0.38170	0.000	0.00000	0.00000	0.00000
IN-1	115	229743.00000	2.365	228729.00000	235612.00000	224889.00000
IN-2	115	34371.20000	1.147	34317.50000	34006.60000	34789.40000
AG	107	0.00543	260.125	0.01630	0.00000	0.00000
AS	75	0.08288	61.197	0.07104	0.09472	0.08288
BA	137	0.05074	86.598	0.07611	0.00000	0.07611
CD	111	0.03536	46.380	0.03857	0.02893	0.03857
CO	59	0.02259	130.456	0.01506	0.00753	0.04518
CR	52	-0.07525	-111.402	-0.02508	-0.12542	-0.07525
CU	63	-0.26770	-49.122	-0.30634	-0.22768	-0.26908
FE	57	-0.35640	-445.847	-0.48600	-0.19440	-0.38880
MN	55	-0.04500	-118.089	-0.08100	-0.02700	-0.02700
MO	98	0.10320	18.401	0.11406	0.08147	0.11406
NI	60	-0.01408	-332.670	-0.02112	0.00000	-0.02112
SB	121	0.09093	33.795	0.12124	0.09093	0.06062
SE	78	0.01700	207.882	0.01700	0.02380	0.01020
SN	120	-0.04645	-77.438	-0.06968	-0.02787	-0.04181
SR	88	0.00000	0.000	0.00000	0.00000	0.00000
V	51	0.03647	232.931	0.04319	0.02591	0.04031
ZN	66	0.13430	114.892	0.20145	0.00000	0.20145
BI-2	209	135391.00000	0.824	134418.00000	135145.00000	136610.00000
PB	208	-0.00590	-112.377	-0.00885	-0.00295	-0.00590
TL	203	0.03812	47.455	0.03574	0.05718	0.02144
SC-1	45	192748.00000	3.537	191530.00000	200093.00000	186622.00000
SC-2	45	23104.50000	2.278	23191.20000	22540.10000	23582.20000
SC-3	45	1256210	2.919	1229860	1240680	1298090
GE-1	72	23909.80000	3.409	23772.80000	24784.70000	23171.90000
TB-2	159	165253.00000	0.576	164428.00000	166295.00000	165035.00000

USF03 2565

Run Name: 1119505E03 Date/Time: 07/14/2011 16:38:00
Tube Number: 12 Batch: 111931026003A
Sample Number: **PBS** Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6625.34000	3.378	6381.85000	6822.16000	6672.01000
GE-3	72	113498.00000	1.912	111591.00000	115859.00000	113045.00000
AL	27	10.35000	39.498	6.98622	14.74880	9.31502
B	11	14.17000	4.351	14.17560	14.39130	13.94300
BE	9	0.00292	238.374	0.00417	0.00208	0.00250
CA	44	36.65000	26.156	35.09060	35.09020	39.76920
K	39	14.64000	61.988	15.36360	14.30580	14.25050
MG	24	1.61900	87.585	1.53805	2.10470	1.21426
NA	23	6.97800	39.739	6.82445	6.98360	7.12595
TI	47	0.66280	272.933	0.00000	1.98840	0.00000
IN-1	115	256121.00000	9.238	282127.00000	250358.00000	235879.00000
IN-2	115	33599.10000	2.674	34351.90000	32604.50000	33841.10000
AG	107	0.01389	102.808	0.00694	0.00694	0.02778
AS	75	0.49530	89.239	0.16510	0.66040	0.66040
BA	137	0.12890	123.119	0.30936	0.07734	0.00000
CD	111	-0.03328	-72.746	-0.03744	-0.04992	-0.01248
CO	59	0.05417	41.536	0.07648	0.03824	0.04780
CR	52	0.00433	903.300	0.00538	0.00359	0.00403
CU	63	1.98900	7.104	1.95564	1.91015	2.10121
FE	57	20.77000	27.106	22.25360	15.13230	24.92400
MN	55	0.53910	35.040	0.42358	0.69314	0.50059
MO	98	0.07620	45.892	0.11430	0.06531	0.04899
NI	60	0.23820	44.165	0.16241	0.22737	0.32482
SB	121	0.13380	33.677	0.18526	0.12351	0.09263
SE	78	0.02084	151.967	0.01471	0.02574	0.02207
SN	120	8.52100	10.130	7.92585	9.16373	8.47341
SR	88	0.24570	32.002	0.24570	0.16380	0.32760
V	51	0.37660	67.950	0.51910	0.38169	0.22901
ZN	66	19.62000	3.770	20.30590	19.61990	18.93410
BI-2	209	135185.00000	1.687	137644.00000	133142.00000	134770.00000
PB	208	0.04370	18.602	0.04726	0.03659	0.04726
TL	203	0.01417	85.039	0.02834	0.00709	0.00709
SC-1	45	214963.00000	9.141	236893.00000	209037.00000	198960.00000
SC-2	45	21862.30000	3.178	22650.40000	21338.00000	21598.50000
SC-3	45	1196790	1.899	1190460	1222010	1177890
GE-1	72	27313.30000	9.267	30146.50000	26518.10000	25275.40000
TB-2	159	164013.00000	0.378	163616.00000	163695.00000	164728.00000

USF03 2566

Run Name: 1119505E03 Date/Time: 07/14/2011 16:41:00
Tube Number: 13 Batch: 111931026003A
Sample Number: **LCSS** Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 25.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	5464.69000	1.162	5501.36000	5391.34000	5501.37000
GE-3	72	108387.00000	5.683	114780.00000	107891.00000	102489.00000
AL	27	7455.00000	1.730	7410.86000	7500.87000	7453.27000
B	11	75.63000	8.982	74.53380	76.28580	76.07050
BE	9	41.06000	6.325	41.13650	40.46250	41.58110
CA	44	6669.00000	3.741	6995.10000	6402.21000	6609.69000
K	39	1104.00000	4.053	1082.65000	1135.69000	1093.66000
MG	24	1868.00000	0.837	1862.59000	1849.94000	1891.47000
NA	23	411.00000	2.100	420.56400	405.69900	406.73700
TI	47	303.10000	6.800	281.38600	308.74600	319.16800
IN-1	115	190331.00000	4.490	192979.00000	180775.00000	197238.00000
IN-2	115	29633.00000	3.078	29083.60000	29129.50000	30686.00000
AG	107	25.89000	1.808	25.12290	25.98460	26.56250
AS	75	57.90000	2.886	56.00490	58.81940	58.87580
BA	137	155.20000	1.495	150.63700	155.17100	159.79300
CD	111	56.85000	3.566	56.94260	57.11640	56.49100
CO	59	67.49000	3.341	65.96350	68.73520	67.77130
CR	52	48.43000	3.287	49.04430	47.77580	48.46990
CU	63	41.15000	4.450	40.84520	41.98430	40.62050
FE	57	10320.00000	3.910	10518.30000	10178.60000	10263.20000
MN	55	282.40000	3.704	284.52000	282.43600	280.24400
MO	98	44.74000	2.105	42.83560	44.43350	46.95090
NI	60	61.84000	5.505	63.92310	61.17690	60.42010
SB	121	35.50000	4.952	34.62100	36.76530	35.11370
SE	78	108.70000	5.141	108.33700	109.40400	108.36000
SN	120	64.20000	6.893	63.83440	67.11880	61.64680
SR	88	37.53000	2.010	37.48360	36.08390	39.02250
V	51	52.85000	4.598	51.81720	54.41530	52.31750
ZN	66	136.70000	5.194	138.21000	138.67600	133.21400
BI-2	209	116405.00000	1.682	114146.00000	117620.00000	117448.00000
PB	208	67.12000	1.128	66.56270	67.05850	67.73880
TL	203	114.70000	2.507	115.70600	113.74900	114.64500
SC-1	45	161776.00000	3.923	162440.00000	155123.00000	167766.00000
SC-2	45	19795.70000	3.901	19685.70000	19084.50000	20617.00000
SC-3	45	1214510	3.039	1256240	1201130	1186140
GE-1	72	19889.30000	2.885	20426.90000	19285.00000	19955.90000
TB-2	159	142818.00000	1.151	142428.00000	141404.00000	144622.00000

USF03 2567

Run Name: 1119505E03
Tube Number: 14
Sample Number: **LCSSD**

Date/Time: 07/14/2011 16:44:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 25.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6338.48000	8.803	6201.76000	6952.15000	5861.55000
GE-3	72	113798.00000	3.524	116837.00000	109252.00000	115304.00000
AL	27	6324.00000	8.681	6185.22000	6384.75000	6402.03000
B	11	74.12000	5.066	74.36960	74.31070	73.67960
BE	9	38.41000	3.634	38.78890	38.44590	37.99520
CA	44	5233.00000	9.169	5022.60000	5329.69000	5346.70000
K	39	929.40000	10.467	945.76000	915.88100	926.56000
MG	24	1552.00000	9.098	1538.85000	1549.51000	1567.64000
NA	23	338.60000	13.414	334.41100	334.73900	346.65100
TI	47	252.00000	14.040	252.37700	237.66300	265.96000
IN-1	115	223731.00000	2.101	219224.00000	228605.00000	223365.00000
IN-2	115	33600.10000	2.601	32613.80000	33908.30000	34278.20000
AG	107	21.83000	3.375	21.98600	21.86890	21.63520
AS	75	50.52000	1.740	49.04850	50.09030	52.42120
BA	137	127.60000	3.379	128.75000	126.63300	127.41800
CD	111	47.90000	1.253	46.80290	47.64490	49.25220
CO	59	58.35000	4.578	59.52630	56.61520	58.90850
CR	52	41.07000	5.841	41.98510	38.88200	42.34300
CU	63	34.84000	4.710	35.14520	35.59490	33.77990
FE	57	8818.00000	3.107	8860.51000	8679.02000	8914.47000
MN	55	256.90000	1.007	250.78800	256.25800	263.65400
MO	98	37.59000	3.703	38.06610	37.04330	37.66050
NI	60	52.10000	1.663	51.52960	51.90520	52.86530
SB	121	30.30000	1.205	29.82510	30.35150	30.72340
SE	78	88.16000	3.626	89.39460	86.71330	88.37220
SN	120	54.84000	1.477	54.14910	54.92010	55.45080
SR	88	30.01000	4.329	29.39320	28.85860	31.77820
V	51	44.15000	5.094	43.95730	46.05250	42.44020
ZN	66	194.00000	0.298	188.22200	195.24000	198.53800
BI-2	209	135269.00000	0.629	134526.00000	135085.00000	136197.00000
PB	208	56.67000	1.209	57.11830	56.40050	56.49110
TL	203	98.15000	0.651	97.71560	98.59820	98.13610
SC-1	45	191564.00000	1.784	187891.00000	194649.00000	192153.00000
SC-2	45	22864.10000	4.540	23041.00000	21749.00000	23802.40000
SC-3	45	1258670	2.696	1285920	1220660	1269430
GE-1	72	23061.60000	4.818	22460.40000	24344.00000	22380.30000
TB-2	159	164358.00000	1.652	161226.00000	166058.00000	165790.00000

USF03 2568

Run Name: 1119505E03
Tube Number: 15
Sample Number: **LCSSD**

Date/Time: 07/14/2011 16:47:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 25.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6435.22000	0.701	6391.85000	6481.92000	6431.88000
GE-3	72	114948.00000	3.700	111895.00000	113145.00000	119806.00000
AL	27	5884.00000	2.160	5897.77000	6018.51000	5735.71000
B	11	71.64000	5.047	71.33730	72.05280	71.52990
BE	9	37.80000	4.119	38.42370	37.06810	37.90820
CA	44	5022.00000	3.515	4793.63000	5194.63000	5077.74000
K	39	921.80000	0.759	915.25300	922.35800	927.78900
MG	24	1492.00000	1.472	1473.76000	1486.17000	1516.06000
NA	23	332.20000	4.211	342.12600	329.55800	324.91600
TI	47	240.30000	3.194	229.97900	247.67300	243.24800
IN-1	115	221100.00000	3.210	219806.00000	228755.00000	214740.00000
IN-2	115	33293.90000	2.544	32686.60000	32933.40000	34261.60000
AG	107	22.08000	2.578	22.07730	22.10250	22.06030
AS	75	50.97000	3.149	51.08680	51.23720	50.58600
BA	137	127.60000	3.204	126.28000	129.76400	126.75600
CD	111	47.57000	1.501	47.43080	47.02920	48.25000
CO	59	58.31000	1.825	58.42790	57.36980	59.13230
CR	52	41.45000	3.042	41.18770	41.95390	41.20840
CU	63	35.34000	2.168	35.45820	34.91880	35.64300
FE	57	8752.00000	3.583	8871.93000	8721.43000	8662.64000
MN	55	258.80000	2.808	258.94500	259.60900	257.84600
MO	98	37.90000	2.070	36.90360	38.38030	38.41610
NI	60	50.64000	5.527	52.19770	50.68260	49.03970
SB	121	29.83000	7.291	27.21480	31.71600	30.55920
SE	78	87.99000	5.335	89.48740	85.60060	88.88190
SN	120	55.09000	1.268	54.66830	54.69330	55.90840
SR	88	30.74000	5.117	29.64620	32.17980	30.39400
V	51	44.96000	4.749	46.10140	44.79310	43.98550
ZN	66	190.90000	2.102	191.50100	188.72500	192.47400
BI-2	209	133742.00000	1.069	135138.00000	132281.00000	133807.00000
PB	208	56.07000	1.131	55.94490	55.64310	56.62200
TL	203	96.61000	1.335	98.14300	96.49680	95.19010
SC-1	45	185566.00000	3.248	182869.00000	192472.00000	181358.00000
SC-2	45	22700.50000	0.737	22550.40000	22880.70000	22670.40000
SC-3	45	1273680	2.691	1241420	1269950	1309660
GE-1	72	22961.20000	2.760	22620.60000	23692.50000	22570.60000
TB-2	159	162934.00000	1.698	164731.00000	164323.00000	159747.00000

USF03 2569

Run Name: 1119505E03
Tube Number: 16
Sample Number: **6339377**

Date/Time: 07/14/2011 16:50:00
Batch: 111931026003A
Class: U*********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6555.25000	5.856	6852.05000	6121.73000	6691.96000
GE-3	72	113337.00000	1.744	111088.00000	114124.00000	114800.00000
AL	27	164000.00000	5.768	161909.00000	162355.00000	167736.00000
B	11	103.00000	3.399	104.14200	101.82800	103.03000
BE	9	5.56300	1.381	5.53965	5.54966	5.59969
CA	44	28040.00000	6.623	27624.50000	28109.50000	28386.00000
K	39	35840.00000	5.963	35537.00000	35692.50000	36290.50000
MG	24	49890.00000	6.619	49425.70000	50149.10000	50095.20000
NA	23	781.20000	5.925	790.53200	774.96500	778.10400
TI	47	9924.00000	6.578	9848.37000	9975.51000	9948.12000
IN-1	115	212093.00000	1.918	216748.00000	210320.00000	209211.00000
IN-2	115	31211.80000	2.325	31541.80000	30379.70000	31713.80000
AG	107	0.20930	15.781	0.24762	0.17687	0.20340
AS	75	37.15000	1.293	37.57640	36.61700	37.25660
BA	137	684.80000	3.445	668.16700	689.47500	696.75800
CD	111	1.05500	18.806	0.86459	1.18880	1.11161
CO	59	65.41000	2.142	65.58560	65.23440	65.41000
CR	52	219.50000	1.856	218.95000	218.23900	221.31100
CU	63	101.00000	4.624	100.26500	103.49700	99.23840
FE	57	213000.00000	2.927	210020.00000	214111.00000	214868.00000
MN	55	2244.00000	2.411	2226.63000	2244.56000	2260.81000
MO	98	2.24400	9.381	2.43944	2.25030	2.04227
NI	60	130.10000	2.378	128.13500	127.10100	135.06400
SB	121	0.76540	9.310	0.79868	0.66556	0.83196
SE	78	1.84600	12.801	1.70249	1.76120	2.07431
SN	120	16.01000	3.959	16.31890	14.90300	16.80810
SR	88	349.00000	2.920	346.86500	351.31100	348.82400
V	51	448.10000	2.063	449.44800	446.49300	448.35900
ZN	66	515.20000	3.109	507.43000	519.01000	519.16000
BI-2	209	125397.00000	1.388	126246.00000	123396.00000	126550.00000
PB	208	67.83000	1.719	67.82690	68.06380	67.59930
TL	203	2.53400	6.026	2.38233	2.62138	2.59829
SC-1	45	230429.00000	1.121	233405.00000	229124.00000	228758.00000
SC-2	45	26668.10000	1.146	26658.10000	26367.50000	26978.50000
SC-3	45	1495820	1.621	1481980	1481670	1523810
GE-1	72	22657.40000	5.380	23963.00000	21548.80000	22460.30000
TB-2	159	163839.00000	1.234	162896.00000	166160.00000	162462.00000

USR03 2578

Run Name: 1119505E03
Tube Number: 17
Sample Number: **6339377**

Date/Time: 07/14/2011 16:53:00
Batch: 111931026003A
Class: UP********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6478.56000	5.739	6732.03000	6651.97000	6051.69000
GE-3	72	112413.00000	3.733	107699.00000	115738.00000	113801.00000
AL	27	164300.00000	5.625	166006.00000	163117.00000	163777.00000
B	11	204.90000	4.347	204.99500	204.60900	205.09500
BE	9	6.50300	2.442	6.34652	6.51309	6.64939
CA	44	28460.00000	5.931	28434.60000	28494.00000	28451.40000
K	39	36580.00000	5.555	36864.90000	36442.80000	36432.30000
MG	24	50570.00000	6.573	50670.70000	50088.50000	50950.80000
NA	23	1181.00000	5.006	1187.91000	1192.11000	1162.98000
TI	47	9949.00000	6.290	10014.80000	9840.59000	9991.57000
IN-1	115	211871.00000	3.074	218995.00000	206220.00000	210396.00000
IN-2	115	30791.40000	2.659	31577.20000	29943.50000	30853.70000
AG	107	1.18700	24.516	1.02003	1.48452	1.05645
AS	75	41.24000	1.780	41.90690	40.93370	40.87940
BA	137	697.80000	3.672	690.42700	704.53500	698.43800
CD	111	2.19200	10.757	2.50437	2.06813	2.00350
CO	59	66.22000	4.271	65.57620	67.50760	65.57620
CR	52	226.10000	2.205	229.44700	225.52100	223.33300
CU	63	104.50000	2.374	105.39800	104.38900	103.71300
FE	57	214800.00000	2.097	216942.00000	213943.00000	213515.00000
MN	55	2257.00000	2.136	2288.43000	2249.70000	2232.88000
MO	98	3.32200	5.554	3.56478	3.27730	3.12392
NI	60	134.60000	4.640	132.15000	137.40000	134.25000
SB	121	3.07000	22.609	2.93505	2.42898	3.84597
SE	78	5.72100	8.020	6.44366	5.31952	5.39982
SN	120	20.50000	3.424	20.74420	20.71820	20.03760
SR	88	353.10000	3.251	349.18600	346.57000	363.54400
V	51	449.50000	2.194	450.47400	446.23200	451.79300
ZN	66	541.20000	2.831	544.20900	543.60900	535.78200
BI-2	209	121731.00000	1.910	123529.00000	122557.00000	119106.00000
PB	208	71.27000	2.332	70.79560	71.52750	71.48690
TL	203	3.97700	6.517	4.32636	3.78643	3.81821
SC-1	45	226533.00000	3.879	236226.00000	219091.00000	224281.00000
SC-2	45	26414.20000	2.016	26968.60000	26367.60000	25906.50000
SC-3	45	1526250	4.852	1443210	1550120	1585410
GE-1	72	21986.20000	1.891	22340.30000	22089.80000	21528.40000
TB-2	159	161274.00000	1.879	163119.00000	162925.00000	157777.00000

USP93 2571

Run Name: 1119505E03 Date/Time: 07/14/2011 16:56:00
Tube Number: 18 Batch: 111931026003A
Sample Number: **6339380** Class: D*********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6465.21000	1.740	6341.79000	6491.93000	6561.92000
GE-3	72	116158.00000	3.077	118361.00000	118080.00000	112035.00000
AL	27	157100.00000	0.413	154840.00000	157329.00000	159132.00000
B	11	92.08000	2.628	92.37260	92.95880	90.90870
BE	9	5.21800	5.709	5.02019	5.30836	5.32545
CA	44	28080.00000	1.424	27741.50000	28460.90000	28037.60000
K	39	34960.00000	1.042	34652.90000	35108.80000	35118.30000
MG	24	49840.00000	0.677	48599.70000	49962.80000	50957.40000
NA	23	753.90000	1.072	742.28400	762.36700	757.04800
TI	47	9497.00000	0.549	9298.16000	9595.25000	9597.59000
IN-1	115	211701.00000	2.390	216379.00000	206330.00000	212394.00000
IN-2	115	31455.70000	2.501	30552.60000	31821.00000	31993.40000
AG	107	0.15390	35.231	0.11325	0.13067	0.21778
AS	75	38.20000	7.762	37.88250	41.16310	35.55440
BA	137	664.30000	2.813	666.40700	659.66900	666.82400
CD	111	0.94110	32.292	0.98664	0.63752	1.19914
CO	59	65.63000	0.192	63.88890	66.31410	66.68700
CR	52	213.60000	1.452	210.75600	215.57900	214.46500
CU	63	98.85000	3.335	99.39490	96.96070	100.19400
FE	57	213300.00000	1.498	210462.00000	215532.00000	213906.00000
MN	55	2241.00000	2.522	2240.26000	2244.06000	2238.68000
MO	98	2.18800	17.217	2.13799	2.58810	1.83790
NI	60	129.90000	4.699	133.11400	127.84600	128.74000
SB	121	0.78080	15.510	0.62684	0.89077	0.82479
SE	78	1.69500	26.153	1.55862	1.34431	2.18207
SN	120	14.99000	4.327	14.47910	14.55570	15.93510
SR	88	340.20000	3.207	341.73200	333.95500	344.91400
V	51	435.40000	2.412	433.62000	439.81500	432.76500
ZN	66	520.50000	3.877	527.91700	520.10500	513.47800
BI-2	209	122495.00000	1.110	120973.00000	122922.00000	123590.00000
PB	208	67.41000	1.479	67.71440	67.12430	67.39130
TL	203	2.54400	3.970	2.59665	2.58082	2.45453
SC-1	45	226162.00000	1.965	228497.00000	221038.00000	228950.00000
SC-2	45	26905.30000	3.836	25866.70000	27930.70000	26918.60000
SC-3	45	1534940	2.164	1550820	1557240	1496770
GE-1	72	22437.00000	0.804	22560.70000	22230.00000	22520.30000
TB-2	159	161855.00000	1.857	158773.00000	162013.00000	164779.00000

USP63 2572

Run Name: 1119505E03
Tube Number: 19
Sample Number: 6339378

Date/Time: 07/14/2011 17:00:00
Batch: 111931026003A
Class: R*********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6745.37000	3.390	6481.83000	6862.04000	6892.23000
GE-3	72	113142.00000	2.425	116273.00000	111157.00000	111995.00000
AL	27	164400.00000	3.223	163944.00000	164830.00000	164426.00000
B	11	351.60000	3.114	350.08100	347.64200	357.07800
BE	9	9.53800	3.413	9.42171	9.54721	9.64508
CA	44	30960.00000	3.866	31101.10000	30856.80000	30922.10000
K	39	42340.00000	2.584	41901.30000	42266.30000	42852.30000
MG	24	48690.00000	3.198	48514.30000	48994.40000	48561.30000
NA	23	9814.00000	3.574	9823.53000	9787.01000	9831.46000
TI	47	9829.00000	3.419	9823.77000	9842.82000	9820.41000
IN-1	115	211170.00000	2.792	205470.00000	217242.00000	210797.00000
IN-2	115	31320.40000	1.635	30813.50000	31837.70000	31310.00000
AG	107	48.83000	3.115	49.60560	48.16870	48.71570
AS	75	49.06000	5.430	49.92940	46.78880	50.46180
BA	137	723.00000	1.466	722.88900	725.85000	720.26200
CD	111	5.80000	2.022	5.76212	5.97314	5.66474
CO	59	314.00000	1.451	313.17000	314.36000	314.47000
CR	52	264.80000	1.456	260.14100	265.49600	268.76400
CU	63	147.70000	2.224	149.02900	148.51400	145.55700
FE	57	210400.00000	2.038	210926.00000	209287.00000	210987.00000
MN	55	2241.00000	1.312	2235.83000	2250.82000	2236.36000
MO	98	44.88000	1.362	43.71390	46.32400	44.60210
NI	60	175.40000	2.453	176.28200	179.24400	170.67400
SB	121	2.38300	9.299	2.56033	2.19460	2.39407
SE	78	11.37000	2.002	11.29550	11.47840	11.33610
SN	120	59.92000	3.485	60.38530	61.85860	57.51610
SR	88	375.90000	3.357	375.70700	367.49300	384.50000
V	51	495.00000	2.028	496.13600	492.40500	496.45900
ZN	66	555.20000	3.997	557.52100	538.58300	569.49600
BI-2	209	121990.00000	1.653	121508.00000	124204.00000	120257.00000
PB	208	81.39000	1.789	81.77650	81.17990	81.21370
TL	203	4.45900	2.761	4.31894	4.54091	4.51716
SC-1	45	228984.00000	1.118	227284.00000	231930.00000	227738.00000
SC-2	45	26915.20000	1.899	27419.70000	26397.50000	26928.40000
SC-3	45	1508350	1.980	1541440	1483400	1500220
GE-1	72	22607.30000	2.260	22059.80000	23071.50000	22690.50000
TB-2	159	162714.00000	1.071	163483.00000	163940.00000	160719.00000

USF03 2573

Run Name: 1119505E03 Date/Time: 07/14/2011 17:03:00
Tube Number: 20 Batch: 111931026003A
Sample Number: **6339379** Class: M*********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6682.00000	3.779	6912.11000	6411.83000	6722.07000
GE-3	72	112595.00000	2.011	115204.00000	111160.00000	111420.00000
AL	27	162300.00000	4.938	159521.00000	163349.00000	164030.00000
B	11	364.40000	1.983	365.17500	365.12200	362.90300
BE	9	9.55900	1.635	9.61783	9.44892	9.61025
CA	44	29150.00000	5.839	29281.10000	29888.30000	28280.60000
K	39	44430.00000	6.133	42894.70000	44852.60000	45542.70000
MG	24	48590.00000	5.546	47388.60000	49110.30000	49271.10000
NA	23	9717.00000	4.494	9648.50000	9774.66000	9727.84000
TI	47	10170.00000	4.280	10010.90000	9962.46000	10536.70000
IN-1	115	207149.00000	2.855	201999.00000	213609.00000	205839.00000
IN-2	115	30105.60000	2.790	30984.50000	29311.00000	30021.20000
AG	107	49.65000	1.865	50.84630	49.35050	48.75330
AS	75	49.67000	8.718	46.73170	52.60830	49.67000
BA	137	736.30000	2.138	739.76300	722.43500	746.70200
CD	111	5.86000	8.712	5.80934	5.35335	6.41731
CO	59	316.70000	1.822	319.21500	312.14600	318.74000
CR	52	281.30000	1.563	284.37100	276.60800	282.92200
CU	63	150.20000	2.474	150.63600	149.63500	150.32900
FE	57	218000.00000	2.202	218910.00000	213757.00000	221333.00000
MN	55	2316.00000	2.662	2314.11000	2305.44000	2328.45000
MO	98	46.88000	1.204	47.77870	46.26350	46.59780
NI	60	180.40000	2.500	180.38500	178.23600	182.57900
SB	121	2.43200	18.442	2.17842	2.17842	2.93916
SE	78	11.68000	2.959	11.65930	12.15630	11.22440
SN	120	60.81000	2.327	63.06930	60.29920	59.06150
SR	88	386.70000	0.896	394.40000	376.65800	389.04200
V	51	513.90000	2.750	512.42800	507.07300	522.19900
ZN	66	572.60000	0.706	586.33800	562.04000	569.42200
BI-2	209	119965.00000	0.207	119983.00000	120204.00000	119709.00000
PB	208	89.63000	1.025	89.21870	89.17940	90.49200
TL	203	4.53800	6.642	4.51920	4.85762	4.23718
SC-1	45	226186.00000	2.437	220758.00000	231777.00000	226024.00000
SC-2	45	26019.90000	3.300	25104.90000	26146.80000	26808.20000
SC-3	45	1493220	1.508	1519140	1482090	1478430
GE-1	72	22196.50000	3.029	21548.70000	22891.10000	22149.80000
TB-2	159	159072.00000	0.908	159036.00000	157647.00000	160534.00000

USP83 2574

Run Name: 1119505E03
Tube Number: 21
Sample Number: **6339377**

Date/Time: 07/14/2011 17:07:00
Batch: 111931026003A
Class: UL********

Initial Vol: 1.01 Final Vol: 100.00 DF: 10.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6345.12000	6.764	6181.71000	6021.66000	6832.00000
GE-3	72	111551.00000	2.657	109979.00000	109705.00000	114970.00000
AL	27	39710.00000	7.386	39647.90000	40108.60000	39373.60000
B	11	33.24000	4.131	32.34290	33.57640	33.80070
BE	9	1.19700	5.363	1.20372	1.22638	1.16090
CA	44	5887.00000	8.993	6037.66000	5909.78000	5713.56000
K	39	7981.00000	6.221	7865.90000	8023.66000	8053.44000
MG	24	11810.00000	6.048	11730.60000	11803.90000	11895.50000
NA	23	162.60000	10.092	159.71500	163.74200	164.34300
TI	47	2191.00000	9.726	2239.57000	2228.28000	2105.14000
IN-1	115	221028.00000	2.839	226459.00000	222465.00000	214160.00000
IN-2	115	31807.70000	2.263	31737.90000	32559.80000	31125.50000
AG	107	0.03557	30.447	0.04104	0.02463	0.04104
AS	75	7.15600	6.800	7.22383	6.81684	7.42733
BA	137	144.30000	4.206	150.23600	141.70500	140.96000
CD	111	0.26590	13.859	0.29122	0.24058	0.26590
CO	59	13.45000	1.604	13.17250	13.88260	13.29490
CR	52	46.43000	3.211	45.76860	46.41510	47.10630
CU	63	22.24000	4.865	21.92910	21.90000	22.89090
FE	57	44280.00000	1.835	44132.70000	44541.10000	44166.20000
MN	55	474.00000	2.838	462.69400	480.47600	478.83000
MO	98	0.54470	18.089	0.60591	0.60590	0.42229
NI	60	28.40000	1.912	27.74060	29.54320	27.91620
SB	121	0.16340	53.029	0.26144	0.13072	0.09804
SE	78	0.45010	9.798	0.50011	0.45010	0.40009
SN	120	3.49500	8.340	3.66729	3.24886	3.56885
SR	88	72.95000	2.740	72.63160	72.76110	73.45720
V	51	95.63000	3.118	94.34110	95.63090	96.91790
ZN	66	111.80000	6.925	111.89700	106.51900	116.98400
BI-2	209	124468.00000	0.939	125771.00000	123509.00000	124125.00000
PB	208	14.80000	0.872	14.91510	14.82930	14.65560
TL	203	0.59300	9.231	0.53603	0.61372	0.62925
SC-1	45	196402.00000	1.979	197898.00000	199319.00000	191989.00000
SC-2	45	23572.20000	3.054	23271.70000	24393.60000	23051.10000
SC-3	45	1289740	3.627	1258480	1267210	1343520
GE-1	72	23638.90000	1.335	23321.60000	23952.90000	23642.20000
TB-2	159	158649.00000	1.117	160587.00000	157113.00000	158246.00000

03783 2575

Run Name: 1119505E03 Date/Time: 07/14/2011 17:10:00
Tube Number: 22
Sample Number: **CCV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6075.01000	5.184	6251.75000	6261.80000	5711.47000
GE-3	72	109292.00000	3.611	104946.00000	110280.00000	112651.00000
AL	27	2486.00000	5.531	2560.92000	2425.68000	2471.40000
B	11	259.40000	4.541	260.97800	258.08000	259.14200
BE	9	24.98000	5.176	25.42630	24.73600	24.77770
CA	44	2691.00000	6.473	2714.26000	2644.44000	2714.29000
K	39	2547.00000	6.396	2588.95000	2491.11000	2560.94000
MG	24	2550.00000	5.718	2531.08000	2558.99000	2559.93000
NA	23	2507.00000	5.572	2490.44000	2524.36000	2506.20000
TI	47	264.90000	2.693	276.21600	277.38600	241.09800
IN-1	115	219886.00000	3.302	225516.00000	222452.00000	211691.00000
IN-2	115	31915.40000	1.808	31522.70000	31645.60000	32578.00000
AG	107	25.54000	2.935	25.95350	25.37310	25.29350
AS	75	246.10000	0.107	243.07500	244.28100	250.94400
BA	137	250.00000	1.525	249.17400	250.08200	250.74300
CD	111	26.22000	2.502	26.34340	26.31120	26.00540
CO	59	253.40000	1.602	253.52900	252.60900	254.06200
CR	52	246.10000	1.449	243.62100	247.30400	247.37400
CU	63	259.40000	1.482	258.09300	259.77000	260.33800
FE	57	2491.00000	0.727	2480.84000	2462.72000	2529.43000
MN	55	254.60000	2.423	256.28900	254.64800	252.86200
MO	98	25.01000	1.997	25.23250	24.73190	25.06560
NI	60	254.40000	2.178	253.16400	256.65000	253.38500
SB	121	25.05000	4.954	25.99630	24.82160	24.33210
SE	78	25.33000	1.880	25.59110	25.49320	24.90580
SN	120	25.60000	3.089	26.17290	24.80790	25.81920
SR	88	25.84000	1.259	25.27710	25.49370	26.74920
V	51	248.00000	1.896	246.76900	249.46700	247.76500
ZN	66	235.60000	1.906	237.24400	229.27400	240.28200
BI-2	209	124883.00000	0.056	124963.00000	124833.00000	124853.00000
PB	208	25.63000	1.343	26.04280	25.40070	25.44650
TL	203	25.79000	2.491	26.45500	25.14320	25.77180
SC-1	45	183489.00000	2.927	188711.00000	183772.00000	177983.00000
SC-2	45	21578.60000	1.952	21448.20000	22049.50000	21238.00000
SC-3	45	1219770	3.128	1177420	1230420	1251460
GE-1	72	23301.80000	1.079	23151.70000	23592.20000	23161.50000
TB-2	159	152992.00000	1.200	150966.00000	153466.00000	154545.00000

USP83 2576

Run Name: 1119505E03 Date/Time: 07/14/2011 17:13:00
Tube Number: 23
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6298.46000	5.435	5911.55000	6421.88000	6561.96000
GE-3	72	112854.00000	4.221	117879.00000	112277.00000	108405.00000
AL	27	4.39400	44.197	5.85867	3.66167	3.66167
B	11	12.77000	11.911	12.85700	12.66300	12.79000
BE	9	0.04738	3.331	0.04994	0.04802	0.04418
CA	44	-8.84200	-12.158	-8.23214	-9.14696	-9.14689
K	39	12.80000	92.656	13.44270	12.60890	12.34840
MG	24	0.38020	63.677	0.36292	0.36292	0.41477
NA	23	-9.43800	-74.242	-9.61981	-9.36810	-9.32609
TI	47	-0.01190	-5384.030	0.00000	-0.03570	0.00000
IN-1	115	219736.00000	2.909	222161.00000	212486.00000	224562.00000
IN-2	115	30975.10000	0.931	31219.10000	30657.00000	31049.30000
AG	107	0.01534	58.325	0.02301	0.01534	0.00767
AS	75	-0.04229	-253.015	-0.06343	-0.04229	-0.02115
BA	137	0.05667	86.607	0.08501	0.08501	0.00000
CD	111	-0.00808	-350.866	-0.01010	-0.00404	-0.01010
CO	59	0.05990	78.414	0.10571	0.04228	0.03171
CR	52	-0.12270	-43.977	-0.07362	-0.22086	-0.07362
CU	63	-0.01922	-1109.260	-0.02052	-0.02182	-0.01532
FE	57	4.73400	57.182	5.55730	5.55730	3.08739
MN	55	0.03155	166.022	0.02103	0.04207	0.03155
MO	98	0.03257	1.095	0.03257	0.03257	0.03257
NI	60	0.00756	703.944	0.00453	0.01360	0.00453
SB	121	0.06717	0.934	0.06717	0.06717	0.06717
SE	78	-0.02435	-229.528	-0.05479	-0.00913	-0.00913
SN	120	0.12840	73.294	0.07970	0.17267	0.13283
SR	88	0.00000	0.000	0.00000	0.00000	0.00000
V	51	-0.04519	-198.230	-0.03650	-0.06257	-0.03650
ZN	66	0.30570	102.290	0.00000	0.52406	0.39304
BI-2	209	126357.00000	1.190	124632.00000	127048.00000	127390.00000
PB	208	0.01847	38.154	0.01847	0.02193	0.01501
TL	203	0.06601	63.112	0.02285	0.10663	0.06855
SC-1	45	184418.00000	3.247	187118.00000	177556.00000	188582.00000
SC-2	45	21351.50000	2.775	20837.30000	21999.40000	21217.80000
SC-3	45	1228650	2.342	1261500	1216570	1207870
GE-1	72	22897.80000	1.679	23051.50000	22460.30000	23181.60000
TB-2	159	153207.00000	1.337	155177.00000	153357.00000	151088.00000

USF83 2577

Run Name: 1119505E03
Tube Number: 24
Sample Number: **6339368**

Date/Time: 07/14/2011 17:16:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6321.76000	3.153	6091.68000	6431.85000	6441.81000
GE-3	72	111529.00000	2.620	114124.00000	112098.00000	108364.00000
AL	27	100900.00000	1.705	99134.10000	102073.00000	101493.00000
B	11	73.32000	3.759	73.04100	73.60310	73.31600
BE	9	3.28700	3.207	3.25062	3.32169	3.28869
CA	44	26040.00000	1.631	25561.50000	26348.40000	26210.10000
K	39	26960.00000	1.342	26378.20000	27306.90000	27194.90000
MG	24	49670.00000	1.493	48606.70000	49813.00000	50590.40000
NA	23	918.20000	3.866	920.70600	913.06100	920.83300
TI	47	7960.00000	3.442	7980.78000	7950.14000	7949.08000
IN-1	115	208699.00000	2.543	209228.00000	203146.00000	213723.00000
IN-2	115	31102.60000	2.003	30595.60000	31797.80000	30914.30000
AG	107	0.12860	43.546	0.07014	0.18413	0.13152
AS	75	31.48000	1.303	31.19510	32.42370	30.82110
BA	137	438.10000	2.083	439.79700	438.43900	436.06400
CD	111	0.87130	28.211	1.11588	0.77958	0.71844
CO	59	46.46000	3.691	46.64050	45.49650	47.24290
CR	52	200.70000	3.115	201.81700	197.95800	202.32500
CU	63	52.73000	1.429	52.64250	53.81170	51.73580
FE	57	170200.00000	2.848	171198.00000	168477.00000	170926.00000
MN	55	1711.00000	2.655	1702.26000	1696.83000	1733.91000
MO	98	1.94000	3.461	1.83888	1.99057	1.99055
NI	60	77.45000	0.557	76.21790	79.59920	76.53280
SB	121	0.49180	22.611	0.60357	0.40238	0.46945
SE	78	1.15900	8.219	1.18490	1.20432	1.08778
SN	120	15.17000	3.480	14.38650	15.54880	15.57470
SR	88	216.40000	2.046	214.63200	216.14500	218.42300
V	51	382.90000	2.928	380.93500	378.61100	389.15500
ZN	66	411.50000	3.759	419.34400	404.30300	410.85200
BI-2	209	121857.00000	0.773	121377.00000	121253.00000	122942.00000
PB	208	55.17000	1.017	54.57520	55.53870	55.39620
TL	203	1.64400	7.311	1.72066	1.49862	1.71272
SC-1	45	222579.00000	2.286	220442.00000	218908.00000	228387.00000
SC-2	45	25829.70000	0.690	25956.80000	25906.40000	25625.80000
SC-3	45	1469970	2.199	1504200	1465770	1439940
GE-1	72	21876.00000	3.503	22219.90000	20997.80000	22410.20000
TB-2	159	162343.00000	0.870	161160.00000	163906.00000	161962.00000

USP83 2578

Run Name: 1119505E03
Tube Number: 25
Sample Number: **6339369**

Date/Time: 07/14/2011 17:19:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6521.92000	4.456	6221.75000	6802.03000	6541.97000
GE-3	72	108589.00000	2.786	111632.00000	108554.00000	105582.00000
AL	27	83070.00000	3.580	81729.00000	83299.70000	84181.30000
B	11	58.89000	5.904	58.17280	58.77320	59.72390
BE	9	3.08600	2.889	3.06863	3.14158	3.04779
CA	44	25990.00000	4.136	25869.50000	26046.00000	26054.60000
K	39	24620.00000	3.507	24290.00000	24766.00000	24804.00000
MG	24	45970.00000	4.013	45763.70000	46199.00000	45947.30000
NA	23	639.70000	5.030	641.42200	651.72300	625.95500
TI	47	6650.00000	4.911	6537.12000	6550.37000	6862.50000
IN-1	115	204715.00000	0.781	203236.00000	206412.00000	204496.00000
IN-2	115	30675.60000	0.958	30615.90000	30416.00000	30994.80000
AG	107	0.18280	9.557	0.18879	0.16182	0.19778
AS	75	26.48000	3.667	27.47140	25.41650	26.55210
BA	137	398.60000	3.475	391.05800	411.10700	393.63500
CD	111	1.00109	11.998	1.01664	1.09484	0.89152
CO	59	43.11000	1.493	42.28690	43.05040	43.99270
CR	52	217.60000	2.040	212.68700	215.83600	224.27700
CU	63	43.24000	1.866	44.05690	42.35030	43.31280
FE	57	163300.00000	2.758	159020.00000	166777.00000	164103.00000
MN	55	1741.00000	1.528	1707.67000	1746.82000	1768.51000
MO	98	1.67000	16.647	1.38207	1.66998	1.95795
NI	60	67.22000	1.922	66.64080	68.10350	66.91560
SB	121	0.45120	32.890	0.43992	0.30456	0.60913
SE	78	1.04100	9.990	1.00172	1.15885	0.96243
SN	120	14.44000	1.898	14.44870	14.02970	14.84160
SR	88	176.90000	2.020	173.69300	174.23700	182.77100
V	51	374.70000	0.800	377.42300	369.95700	376.72100
ZN	66	376.40000	2.611	364.48500	380.32200	384.39300
BI-2	209	119332.00000	0.706	119962.00000	118375.00000	119660.00000
PB	208	77.15000	1.040	76.64260	76.84700	77.96040
TL	203	1.37900	4.340	1.33581	1.35202	1.44917
SC-1	45	218626.00000	0.615	217863.00000	220179.00000	217837.00000
SC-2	45	26607.90000	1.445	26547.80000	27018.80000	26257.10000
SC-3	45	1479840	1.398	1503380	1464560	1471570
GE-1	72	21615.50000	0.938	21849.30000	21488.50000	21508.70000
TB-2	159	162742.00000	1.066	164719.00000	161471.00000	162035.00000

USP03 2579

Run Name: 1119505E03 Date/Time: 07/14/2011 17:22:00
Tube Number: 26 Batch: 111931026003A
Sample Number: **6339370** Class: **********

Initial Vol: 1.00 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6038.29000	3.706	6191.70000	6141.64000	5781.53000
GE-3	72	112618.00000	3.626	117333.00000	110323.00000	110200.00000
AL	27	128900.00000	4.960	128626.00000	127428.00000	130645.00000
B	11	72.97000	3.967	73.72570	73.49760	71.68670
BE	9	4.22800	2.110	4.30432	4.21626	4.16341
CA	44	25450.00000	7.246	26105.70000	24066.10000	26178.20000
K	39	33340.00000	5.258	33298.40000	32827.20000	33894.40000
MG	24	45780.00000	4.685	45926.30000	45166.60000	46247.20000
NA	23	675.90000	7.787	653.69600	678.00700	695.99800
TI	47	8715.00000	5.601	8715.74000	8536.42000	8892.84000
IN-1	115	205450.00000	1.801	201860.00000	205239.00000	209252.00000
IN-2	115	29855.40000	4.106	29364.60000	28950.70000	31250.90000
AG	107	0.17160	16.177	0.15628	0.14709	0.21144
AS	75	33.79000	1.854	33.69720	33.02870	34.64410
BA	137	568.10000	4.857	575.51600	566.74400	562.04000
CD	111	0.94250	21.305	1.07638	0.97999	0.77114
CO	59	56.41000	2.056	56.25310	55.29670	57.68030
CR	52	207.10000	3.067	204.17800	206.97800	210.14400
CU	63	72.56000	2.733	72.50060	71.53270	73.64660
FE	57	187100.00000	2.584	187915.00000	183100.00000	190284.00000
MN	55	2108.00000	2.057	2089.83000	2077.72000	2156.45000
MO	98	2.24900	6.043	2.31497	2.23580	2.19624
NI	60	104.30000	3.610	101.86900	105.21000	105.82200
SB	121	0.58500	36.137	0.49140	0.80731	0.45630
SE	78	1.60300	10.044	1.58296	1.44270	1.78334
SN	120	14.84000	4.266	14.51680	15.05540	14.94780
SR	88	235.60000	3.811	229.15500	238.40600	239.23900
V	51	400.40000	3.452	400.07700	398.15200	402.97200
ZN	66	439.40000	3.377	444.10600	431.23100	442.86300
BI-2	209	118913.00000	0.663	118244.00000	119782.00000	118712.00000
PB	208	53.70000	1.255	53.93800	53.33450	53.82750
TL	203	1.93400	7.544	1.75521	2.03153	2.01526
SC-1	45	220261.00000	1.317	217310.00000	220364.00000	223108.00000
SC-2	45	25007.90000	2.904	25655.90000	24223.00000	25144.80000
SC-3	45	1481870	3.378	1531040	1483600	1430970
GE-1	72	21218.30000	2.569	21618.90000	21438.70000	20597.40000
TB-2	159	157276.00000	1.237	156443.00000	159500.00000	155886.00000

USP83 2598

Run Name: 1119505E03
Tube Number: 27
Sample Number: 6339371

Date/Time: 07/14/2011 17:25:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6405.18000	2.643	6591.94000	6361.79000	6261.81000
GE-3	72	112220.00000	3.425	115112.00000	113689.00000	107860.00000
AL	27	121400.00000	4.890	118478.00000	121689.00000	124033.00000
B	11	69.36000	3.590	69.03730	71.58620	67.45660
BE	9	4.42100	6.591	4.30388	4.38983	4.56928
CA	44	24370.00000	4.382	23988.80000	24253.30000	24867.80000
K	39	32070.00000	3.994	31581.90000	32185.60000	32442.50000
MG	24	42120.00000	3.692	41646.10000	42152.70000	42561.30000
NA	23	697.70000	5.714	678.39300	705.77400	708.93400
TI	47	7884.00000	3.516	7916.45000	7713.86000	8021.68000
IN-1	115	209507.00000	0.383	208610.00000	209755.00000	210156.00000
IN-2	115	29922.90000	1.864	29278.70000	30245.10000	30244.90000
AG	107	0.17220	22.880	0.19373	0.12915	0.19373
AS	75	35.65000	2.706	35.90940	35.18670	35.85390
BA	137	590.10000	3.062	590.33000	575.75500	604.21500
CD	111	1.16500	15.322	1.19736	0.98701	1.31063
CO	59	55.00000	1.871	54.99110	55.01760	54.99130
CR	52	205.50000	0.664	201.65300	206.14500	208.70200
CU	63	74.79000	0.993	73.93110	74.89750	75.54150
FE	57	186400.00000	0.940	184240.00000	188152.00000	186809.00000
MN	55	2146.00000	1.779	2135.17000	2128.87000	2173.96000
MO	98	2.93000	6.805	2.64094	3.05481	3.09426
NI	60	102.20000	1.714	101.99700	102.23200	102.37100
SB	121	0.74240	26.926	0.80040	0.52200	0.90480
SE	78	1.47500	9.688	1.35100	1.62511	1.44889
SN	120	14.89000	4.308	13.84360	15.42660	15.39980
SR	88	249.10000	0.784	245.26900	252.45200	249.57900
V	51	405.00000	2.686	408.44400	401.03200	405.52400
ZN	66	440.30000	1.658	435.86100	448.40100	436.63800
BI-2	209	119373.00000	0.903	120610.00000	118882.00000	118629.00000
PB	208	64.18000	1.647	63.80940	63.87130	64.85930
TL	203	2.01400	5.645	1.93569	2.13010	1.97621
SC-1	45	220232.00000	1.306	217008.00000	221151.00000	222537.00000
SC-2	45	26180.50000	0.833	26247.20000	26357.50000	25936.70000
SC-3	45	1473290	2.126	1504710	1473100	1442070
GE-1	72	22300.10000	1.804	22680.90000	22340.10000	21879.40000
TB-2	159	160693.00000	1.012	159230.00000	162446.00000	160401.00000

USF63 2581

Run Name: 1119505E03 Date/Time: 07/14/2011 17:28:00
Tube Number: 28 Batch: 111931026003A
Sample Number: **6339372** Class: **********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6325.12000	0.242	6341.80000	6311.77000	6321.78000
GE-3	72	111434.00000	2.246	114042.00000	111209.00000	109051.00000
AL	27	117600.00000	2.680	115473.00000	120908.00000	116419.00000
B	11	70.27000	3.280	69.94770	71.24170	69.62050
BE	9	4.21100	3.336	4.18050	4.35334	4.09916
CA	44	26230.00000	0.525	26270.30000	26054.20000	26365.50000
K	39	29640.00000	0.457	29596.40000	29722.80000	29600.70000
MG	24	42950.00000	1.172	42661.00000	43423.40000	42765.60000
NA	23	633.40000	1.950	633.75100	643.23600	623.21300
TI	47	7912.00000	0.410	7895.41000	7915.74000	7924.85000
IN-1	115	204399.00000	0.286	205048.00000	204238.00000	203912.00000
IN-2	115	29849.80000	2.425	30527.10000	29087.00000	29935.40000
AG	107	0.16980	20.353	0.14819	0.20376	0.15745
AS	75	40.13000	4.408	42.95280	37.54860	39.88860
BA	137	527.30000	2.382	528.41500	527.45400	526.03100
CD	111	1.10400	6.699	1.19555	1.08246	1.03399
CO	59	53.87000	2.799	53.89200	54.16670	53.55130
CR	52	227.50000	2.418	229.32400	227.95100	225.22500
CU	63	65.80000	2.935	65.23650	65.81580	66.34770
FE	57	187300.00000	2.942	187136.00000	188626.00000	186137.00000
MN	55	2246.00000	2.585	2231.42000	2235.17000	2271.41000
MO	98	2.87400	1.733	2.88718	2.84761	2.88721
NI	60	96.24000	2.714	96.02110	96.53700	96.16190
SB	121	0.58110	29.633	0.69732	0.66245	0.38352
SE	78	2.35200	4.102	2.33155	2.45426	2.27019
SN	120	14.79000	1.338	15.28340	14.47590	14.61070
SR	88	274.60000	2.929	272.41600	275.20600	276.17800
V	51	426.50000	2.671	424.08900	426.14900	429.26300
ZN	66	483.60000	3.251	478.68200	486.75800	485.36000
BI-2	209	116791.00000	0.997	117872.00000	115559.00000	116942.00000
PB	208	44.26000	1.822	43.74720	44.37890	44.65400
TL	203	1.92800	3.985	1.89491	1.87007	2.01902
SC-1	45	217254.00000	1.314	220089.00000	217292.00000	214382.00000
SC-2	45	25833.00000	1.507	25926.50000	26167.10000	25405.40000
SC-3	45	1486770	3.419	1532700	1495470	1432150
GE-1	72	22026.20000	2.389	21778.90000	22630.60000	21669.10000
TB-2	159	158083.00000	0.576	159004.00000	158063.00000	157182.00000

US793 2582

Run Name: 1119505E03
Tube Number: 29
Sample Number: 6339373

Date/Time: 07/14/2011 17:31:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6561.90000	2.848	6391.83000	6761.99000	6531.88000
GE-3	72	111114.00000	1.001	111643.00000	109836.00000	111862.00000
AL	27	92770.00000	2.792	91790.80000	92563.50000	93955.70000
B	11	53.28000	1.468	53.23990	53.27270	53.32740
BE	9	3.39600	0.792	3.43504	3.36374	3.38921
CA	44	29370.00000	1.320	28319.20000	30120.50000	29670.30000
K	39	14520.00000	3.289	14567.40000	14445.30000	14547.30000
MG	24	53780.00000	3.100	54098.90000	53800.80000	53440.20000
NA	23	727.00000	0.797	708.14900	744.04900	728.80100
TI	47	7061.00000	4.887	7241.60000	6954.36000	6987.04000
IN-1	115	203279.00000	3.286	196410.00000	209752.00000	203675.00000
IN-2	115	29425.50000	2.303	28736.50000	30091.10000	29448.80000
AG	107	0.12390	13.842	0.10222	0.13939	0.13010
AS	75	32.05000	4.318	30.71370	31.78650	33.64970
BA	137	505.40000	3.955	510.69900	494.71200	510.78900
CD	111	0.75000	18.547	0.82979	0.62234	0.79787
CO	59	48.91000	2.920	49.30830	48.76410	48.65760
CR	52	216.00000	3.263	217.52400	213.43800	217.03800
CU	63	41.72000	5.621	43.34680	41.31070	40.50250
FE	57	183800.00000	1.993	182943.00000	184098.00000	184359.00000
MN	55	1687.00000	2.912	1693.15000	1672.97000	1694.88000
MO	98	1.61100	15.177	1.82490	1.62438	1.38372
NI	60	71.81000	3.923	72.69960	70.41290	72.31760
SB	121	0.49700	27.726	0.60350	0.35500	0.53250
SE	78	1.61600	5.957	1.64305	1.68362	1.52134
SN	120	16.43000	8.831	17.58830	15.50890	16.19290
SR	88	336.50000	1.864	330.74000	336.97000	341.79000
V	51	433.20000	3.532	434.74300	425.53800	439.31800
ZN	66	370.50000	2.289	371.49200	374.33000	365.67700
BI-2	209	117063.00000	0.738	117659.00000	116072.00000	117459.00000
PB	208	34.08000	0.519	34.10150	33.74810	34.39040
TL	203	1.47500	3.848	1.41996	1.51078	1.49426
SC-1	45	226994.00000	2.604	220868.00000	232665.00000	227450.00000
SC-2	45	26374.10000	4.099	27539.60000	25405.40000	26177.10000
SC-3	45	1510880	1.386	1533240	1507650	1491730
GE-1	72	21608.80000	5.026	20356.70000	22169.80000	22300.00000
TB-2	159	162525.00000	1.190	163038.00000	164151.00000	160386.00000

USF63 2583

Run Name: 1119505E03
Tube Number: 30
Sample Number: **6339374**

Date/Time: 07/14/2011 17:34:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6281.81000	4.067	6221.73000	6562.01000	6061.69000
GE-3	72	111182.00000	2.201	111370.00000	108647.00000	113530.00000
AL	27	118200.00000	4.507	118494.00000	117503.00000	118603.00000
B	11	64.92000	4.387	65.42800	65.25790	64.07410
BE	9	4.16200	3.023	4.23165	4.15011	4.10425
CA	44	26070.00000	3.435	25707.10000	26404.00000	26098.80000
K	39	21280.00000	4.939	21363.00000	21054.00000	21423.00000
MG	24	43950.00000	3.538	43422.90000	44409.40000	44017.70000
NA	23	594.50000	5.573	593.36700	590.57500	599.55800
TI	47	7176.00000	5.163	7126.53000	7113.99000	7287.48000
IN-1	115	200357.00000	0.938	201848.00000	200978.00000	198246.00000
IN-2	115	29272.40000	1.344	29043.80000	29046.70000	29726.70000
AG	107	0.19180	3.752	0.19809	0.18866	0.18866
AS	75	41.99000	4.132	43.62040	40.43550	41.91420
BA	137	599.20000	0.279	592.63900	595.16400	609.79700
CD	111	0.90390	24.140	1.02298	0.66575	1.02298
CO	59	48.24000	0.472	47.62210	48.07520	49.02270
CR	52	219.70000	3.127	218.54200	224.60600	215.95300
CU	63	62.50000	2.814	63.83400	61.81660	61.84940
FE	57	185100.00000	0.856	185259.00000	183645.00000	186396.00000
MN	55	1901.00000	0.435	1879.70000	1895.59000	1927.72000
MO	98	2.77600	2.407	2.80287	2.78273	2.74240
NI	60	93.58000	1.325	93.99580	93.03670	93.70750
SB	121	0.68750	17.222	0.60453	0.81788	0.64009
SE	78	1.34600	2.573	1.32561	1.34600	1.36640
SN	120	15.41000	1.572	15.12630	15.56550	15.53810
SR	88	266.10000	0.618	265.56400	262.34000	270.39600
V	51	420.60000	1.936	410.94700	426.45400	424.39800
ZN	66	367.50000	4.223	382.46400	356.70100	363.33500
BI-2	209	115368.00000	2.382	117569.00000	112288.00000	116247.00000
PB	208	59.59000	2.534	60.51050	59.58680	58.67270
TL	203	1.53800	10.793	1.45705	1.41517	1.74178
SC-1	45	215019.00000	0.846	213873.00000	217117.00000	214067.00000
SC-2	45	25438.90000	2.582	25936.50000	25685.90000	24694.30000
SC-3	45	1487560	2.630	1495270	1445150	1522270
GE-1	72	21244.70000	3.943	20436.80000	22109.40000	21188.00000
TB-2	159	157483.00000	0.792	158924.00000	156759.00000	156767.00000

USF63 2584

Run Name: 1119505E03 Date/Time: 07/14/2011 17:37:00
Tube Number: 31 Batch: 111931026003A
Sample Number: **6339375** Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6148.33000	1.887	6091.64000	6071.63000	6281.74000
GE-3	72	109776.00000	1.664	108233.00000	109302.00000	111793.00000
AL	27	110100.00000	1.907	108999.00000	110876.00000	110425.00000
B	11	60.29000	1.000	59.56950	60.37820	60.92230
BE	9	3.94700	2.703	4.01320	3.87650	3.95130
CA	44	24980.00000	3.847	25472.00000	25045.20000	24422.80000
K	39	25600.00000	2.030	25625.20000	25621.50000	25553.30000
MG	24	42540.00000	3.679	42390.40000	43449.90000	41779.70000
NA	23	592.90000	2.707	586.05900	599.80100	592.84100
TI	47	7412.00000	2.203	7430.26000	7423.26000	7382.48000
IN-1	115	202140.00000	3.140	209376.00000	199531.00000	197513.00000
IN-2	115	29479.10000	2.925	28490.00000	30073.00000	29874.20000
AG	107	0.14600	29.884	0.13047	0.11183	0.19570
AS	75	35.84000	5.709	36.48000	34.39050	36.64950
BA	137	491.50000	3.774	495.11900	496.90900	482.47200
CD	111	0.92550	20.951	0.79098	0.83941	1.14611
CO	59	51.09000	4.238	51.55430	50.00220	51.71350
CR	52	211.50000	2.212	209.68900	213.52500	211.28600
CU	63	62.83000	3.960	63.42750	62.18920	62.87330
FE	57	181200.00000	3.161	180682.00000	179031.00000	183887.00000
MN	55	2015.00000	3.055	2016.56000	2029.57000	1998.86000
MO	98	2.28200	12.989	2.28200	2.58227	1.98172
NI	60	92.13000	4.010	92.73320	90.35180	93.30500
SB	121	0.61220	12.723	0.63575	0.67106	0.52978
SE	78	1.53900	9.487	1.56612	1.66782	1.38307
SN	120	15.00000	10.227	15.30010	13.52680	16.17310
SR	88	169.60000	2.981	168.55000	167.65600	172.59400
V	51	404.30000	2.985	404.26600	407.52200	401.11200
ZN	66	401.80000	3.845	405.46500	397.92600	402.00900
BI-2	209	114195.00000	0.386	114522.00000	113693.00000	114368.00000
PB	208	46.43000	0.858	46.84460	46.40100	46.04440
TL	203	1.82800	7.927	1.94649	1.87032	1.66719
SC-1	45	216646.00000	3.040	222896.00000	217273.00000	209768.00000
SC-2	45	25004.70000	0.972	25205.00000	25074.90000	24734.30000
SC-3	45	1458430	1.207	1457250	1441450	1476590
GE-1	72	21518.70000	1.120	21749.10000	21538.90000	21268.20000
TB-2	159	155798.00000	1.570	156352.00000	157919.00000	153122.00000

USPB3 2585

Run Name: 1119505E03
Tube Number: 32
Sample Number: **6339376**

Date/Time: 07/14/2011 17:40:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	5998.27000	4.701	5681.45000	6091.67000	6221.68000
GE-3	72	109928.00000	2.999	108495.00000	113699.00000	107590.00000
AL	27	117700.00000	5.089	117845.00000	118452.00000	116803.00000
B	11	74.34000	4.334	73.28570	74.52810	75.20620
BE	9	4.04900	2.041	4.06874	4.20267	3.87558
CA	44	21790.00000	5.218	21905.60000	21394.90000	22069.60000
K	39	25940.00000	4.352	25814.40000	25941.30000	26064.40000
MG	24	48360.00000	3.505	47706.20000	48304.10000	49069.70000
NA	23	829.50000	3.308	812.68100	825.17000	850.64900
TI	47	7274.00000	3.262	7150.98000	7308.59000	7362.43000
IN-1	115	198994.00000	1.687	197388.00000	196742.00000	202853.00000
IN-2	115	30051.40000	2.136	29666.50000	29695.30000	30792.50000
AG	107	0.08105	9.645	0.08105	0.07204	0.09006
AS	75	31.79000	4.725	31.58720	32.80420	30.97860
BA	137	445.70000	1.122	445.34700	439.63700	452.11600
CD	111	0.49280	28.247	0.50773	0.59733	0.37333
CO	59	62.51000	2.044	61.52200	63.13430	62.87370
CR	52	203.00000	1.356	203.24700	200.41300	205.34000
CU	63	72.02000	2.953	72.81120	71.81630	71.43250
FE	57	183300.00000	2.046	181408.00000	184661.00000	183831.00000
MN	55	1791.00000	1.987	1773.77000	1802.49000	1796.74000
MO	98	1.91600	3.063	1.82443	1.92256	2.00101
NI	60	101.30000	3.538	96.67720	103.82100	103.40200
SB	121	0.69120	11.029	0.62207	0.65664	0.79488
SE	78	0.71100	13.999	0.60663	0.72405	0.80232
SN	120	13.80000	4.920	13.72000	12.91890	14.76110
SR	88	150.50000	1.164	150.25300	148.87200	152.37400
V	51	347.00000	2.605	345.72500	350.01300	345.26100
ZN	66	422.00000	3.434	429.81000	419.48100	416.70900
BI-2	209	115108.00000	0.912	116296.00000	114722.00000	114305.00000
PB	208	46.24000	0.634	46.40690	46.12200	46.19110
TL	203	2.19500	10.310	1.97380	2.39380	2.21740
SC-1	45	209822.00000	1.572	207691.00000	208154.00000	213621.00000
SC-2	45	25525.80000	0.516	25385.40000	25545.90000	25646.30000
SC-3	45	1435720	3.012	1392930	1479420	1434790
GE-1	72	20750.90000	1.168	20647.30000	20577.40000	21027.90000
TB-2	159	155207.00000	0.759	154476.00000	156565.00000	154579.00000

USP03 2586

Run Name: 1119505E03 Date/Time: 07/14/2011 17:43:00
Tube Number: 33 Batch: 111931026003A
Sample Number: **6339385** Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6085.03000	1.005	6071.70000	6031.63000	6151.76000
GE-3	72	109048.00000	3.646	108505.00000	113267.00000	105371.00000
AL	27	155700.00000	1.967	155070.00000	157532.00000	154499.00000
B	11	92.78000	2.214	93.47320	94.49110	90.37580
BE	9	5.14200	0.352	5.13681	5.32650	4.96269
CA	44	28340.00000	2.140	28474.80000	27414.50000	29130.70000
K	39	33570.00000	1.510	33657.30000	33682.90000	33369.90000
MG	24	50350.00000	2.443	49016.80000	51131.50000	50901.80000
NA	23	1054.00000	1.591	1036.03000	1059.35000	1066.62000
TI	47	9345.00000	0.652	9324.96000	9323.75000	9386.29000
IN-1	115	198418.00000	2.679	198870.00000	192891.00000	203493.00000
IN-2	115	27532.20000	0.451	27394.20000	27634.90000	27567.60000
AG	107	0.17020	26.087	0.19022	0.20024	0.12014
AS	75	37.64000	4.960	37.39840	35.94820	39.57340
BA	137	680.50000	1.245	685.70900	682.69600	673.09600
CD	111	0.89180	11.393	0.82851	0.84577	1.00112
CO	59	66.27000	1.731	67.25440	65.76280	65.79280
CR	52	230.20000	2.036	234.25900	227.24700	229.09400
CU	63	103.00000	0.814	101.98600	104.34300	102.67100
FE	57	221200.00000	0.599	221541.00000	220885.00000	221173.00000
MN	55	2278.00000	1.069	2278.82000	2302.33000	2252.86000
MO	98	1.95600	6.999	1.94886	2.09878	1.82035
NI	60	136.30000	1.493	136.19800	138.49200	134.20900
SB	121	0.71860	37.309	1.02117	0.60514	0.52949
SE	78	1.56000	10.462	1.55310	1.36673	1.76018
SN	120	16.30000	3.820	16.75750	16.49460	15.64790
SR	88	372.10000	0.593	368.24900	375.86300	372.18800
V	51	456.90000	0.912	450.28100	458.98000	461.43900
ZN	66	529.80000	1.952	538.82000	523.86500	526.71500
BI-2	209	112305.00000	0.350	111874.00000	112399.00000	112643.00000
PB	208	64.60000	0.593	63.91370	64.82850	65.05770
TL	203	2.55000	2.756	2.50410	2.63318	2.51271
SC-1	45	215863.00000	0.792	216242.00000	213995.00000	217351.00000
SC-2	45	24884.50000	2.541	24924.60000	25495.70000	24233.30000
SC-3	45	1442060	3.756	1405920	1504350	1415910
GE-1	72	21081.20000	4.772	21548.50000	19926.10000	21769.10000
TB-2	159	149537.00000	0.817	148131.00000	150348.00000	150132.00000

USP83 2597

Run Name: 1119505E03 Date/Time: 07/14/2011 17:46:00
Tube Number: 34
Sample Number: **CCV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	5804.88000	5.299	5951.64000	5451.39000	6011.61000
GE-3	72	108719.00000	2.306	111231.00000	108709.00000	106217.00000
AL	27	2525.00000	6.642	2569.53000	2544.61000	2460.86000
B	11	248.90000	2.167	250.68600	247.43000	248.58400
BE	9	24.66000	3.310	24.28240	25.05420	24.64340
CA	44	2891.00000	11.346	2600.98000	2948.99000	3123.03000
K	39	2585.00000	5.114	2597.94000	2568.56000	2588.51000
MG	24	2528.00000	4.312	2512.82000	2493.94000	2577.24000
NA	23	2517.00000	6.130	2479.70000	2528.25000	2543.04000
TI	47	255.10000	10.678	241.15600	269.45300	254.69000
IN-1	115	212336.00000	2.158	212702.00000	207581.00000	216725.00000
IN-2	115	30877.50000	0.800	30753.40000	30717.10000	31162.10000
AG	107	25.23000	1.365	25.48730	25.06960	25.13310
AS	75	246.40000	1.457	245.46000	241.50300	252.23700
BA	137	247.80000	1.364	248.25700	248.93800	246.20500
CD	111	25.15000	1.335	25.35510	25.07240	25.02250
CO	59	251.40000	0.654	250.80300	251.49600	251.90100
CR	52	248.00000	1.115	246.80900	249.56900	247.62200
CU	63	254.70000	0.361	254.70600	252.66900	256.72500
FE	57	2541.00000	1.336	2497.42000	2526.60000	2598.98000
MN	55	252.00000	1.087	248.51400	250.20600	257.27900
MO	98	25.13000	3.002	25.66650	24.17190	25.55160
NI	60	256.60000	1.810	255.73000	259.83800	254.23200
SB	121	24.46000	3.110	23.71870	25.16780	24.49340
SE	78	24.95000	4.068	24.36880	25.54470	24.93650
SN	120	24.77000	3.892	25.57950	23.64710	25.08340
SR	88	24.99000	2.617	25.63130	24.37860	24.96010
V	51	246.10000	1.033	242.19000	246.40300	249.70800
ZN	66	244.10000	3.035	237.96300	239.46000	254.87600
BI-2	209	122111.00000	1.282	122105.00000	120548.00000	123679.00000
PB	208	25.36000	2.026	25.29520	25.57700	25.20780
TL	203	25.43000	2.282	24.77920	25.27930	26.23150
SC-1	45	175652.00000	1.691	175459.00000	172783.00000	178714.00000
SC-2	45	20546.90000	4.441	21248.00000	20877.50000	19515.20000
SC-3	45	1227910	2.531	1263690	1207560	1212480
GE-1	72	21148.10000	4.019	20917.60000	20437.30000	22089.50000
TB-2	159	151462.00000	0.558	150496.00000	152071.00000	151817.00000

USP63 2508

Run Name: 1119505E03 Date/Time: 07/14/2011 17:49:00
Tube Number: 35
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	5954.92000	3.241	5891.59000	5801.51000	6171.66000
GE-3	72	110705.00000	1.528	108759.00000	111532.00000	111824.00000
AL	27	8.16100	21.125	6.75391	7.59822	10.13090
B	11	6.05300	4.033	5.91451	6.15164	6.09286
BE	9	0.05274	32.689	0.03805	0.06609	0.05408
CA	44	-26.33000	-161.337	-17.95240	-14.36170	-46.67590
K	39	18.76000	41.434	18.93890	19.24570	18.09540
MG	24	2.67500	62.542	3.38555	2.50780	2.13165
NA	23	-12.64000	-19.201	-12.87850	-12.20390	-12.83760
TI	47	0.84660	251.240	0.00000	2.53980	0.00000
IN-1	115	212189.00000	0.329	212961.00000	211601.00000	212005.00000
IN-2	115	31693.60000	0.588	31780.90000	31479.70000	31820.20000
AG	107	0.01497	102.405	0.00000	0.02245	0.02245
AS	75	0.07604	104.051	0.07204	0.06003	0.09605
BA	137	0.08323	100.360	0.00000	0.16646	0.08323
CD	111	-0.00408	-599.559	-0.00377	-0.00283	-0.00565
CO	59	0.07064	43.233	0.07417	0.04238	0.09536
CR	52	-0.07986	-59.028	-0.04492	-0.10482	-0.08984
CU	63	0.46630	24.769	0.49960	0.43010	0.46920
FE	57	18.55000	32.054	24.11500	14.84000	16.69500
MN	55	0.29340	20.051	0.31687	0.31687	0.24646
MO	98	0.04422	49.548	0.03317	0.06633	0.03316
NI	60	0.00528	1275.640	0.00633	0.00000	0.00950
SB	121	0.04394	114.952	0.00000	0.09886	0.03296
SE	78	0.04575	161.071	0.03813	0.07625	0.02288
SN	120	-0.00525	-2322.210	-0.00112	-0.01124	-0.00337
SR	88	0.02895	86.598	0.04343	0.00000	0.04343
V	51	0.08590	140.629	0.09019	0.10952	0.05798
ZN	66	0.15020	147.470	0.00000	0.11265	0.33795
BI-2	209	124510.00000	0.327	124136.00000	124944.00000	124449.00000
PB	208	0.01904	38.114	0.02261	0.01547	0.01904
TL	203	0.03625	44.910	0.05438	0.02330	0.03107
SC-1	45	178941.00000	0.312	178297.00000	179298.00000	179228.00000
SC-2	45	21478.40000	0.661	21318.20000	21588.60000	21528.50000
SC-3	45	1202280	0.786	1209280	1206030	1191530
GE-1	72	22383.50000	1.485	22670.80000	22019.40000	22460.20000
TB-2	159	153629.00000	0.356	153022.00000	153782.00000	154083.00000

USPB3 2599

Run Name: 1119505E03
Tube Number: 36
Sample Number: **6339386**

Date/Time: 07/14/2011 17:52:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6768.70000	1.706	6702.00000	6701.99000	6902.12000
GE-3	72	116583.00000	1.430	116769.00000	118148.00000	114831.00000
AL	27	124000.00000	1.205	121506.00000	124403.00000	126091.00000
B	11	72.99000	3.584	74.35240	71.72430	72.89330
BE	9	4.30000	1.182	4.36235	4.34535	4.19230
CA	44	30250.00000	1.796	29959.10000	30492.50000	30298.40000
K	39	33000.00000	0.704	32417.30000	32741.10000	33841.60000
MG	24	53400.00000	0.634	52558.40000	53225.60000	54416.00000
NA	23	745.70000	0.534	734.35800	740.63100	762.11100
TI	47	9148.00000	1.271	8931.47000	9157.12000	9355.42000
IN-1	115	215461.00000	0.717	214377.00000	217230.00000	214777.00000
IN-2	115	31895.10000	2.603	31167.00000	31718.90000	32799.40000
AG	107	0.14060	23.008	0.15495	0.10330	0.16356
AS	75	42.84000	2.866	40.49170	43.04880	44.97960
BA	137	600.20000	2.079	585.43900	609.98700	605.17400
CD	111	1.25600	4.143	1.26617	1.26617	1.23566
CO	59	61.74000	0.769	60.83670	60.98400	63.39930
CR	52	248.80000	1.352	246.84500	246.44000	253.11500
CU	63	64.84000	1.980	64.18210	65.13170	65.20620
FE	57	211700.00000	1.417	210031.00000	210164.00000	214905.00000
MN	55	2770.00000	0.809	2719.14000	2768.54000	2822.31000
MO	98	2.75900	7.495	2.49418	2.73436	3.04846
NI	60	100.20000	3.321	97.60340	103.14800	99.84820
SB	121	0.85930	28.453	1.04422	0.58736	0.94632
SE	78	1.22600	18.165	1.43348	1.22600	1.01852
SN	120	17.16000	4.036	17.35330	16.31910	17.80760
SR	88	187.30000	1.148	183.15700	188.37200	190.37100
V	51	469.70000	1.891	465.43900	470.89800	472.76300
ZN	66	484.50000	2.572	487.50200	476.89800	489.09900
BI-2	209	126413.00000	0.484	126397.00000	125810.00000	127033.00000
PB	208	50.85000	1.261	50.10460	51.00640	51.43900
TL	203	2.13600	4.376	2.07228	2.23287	2.10285
SC-1	45	237745.00000	0.351	236850.00000	237885.00000	238501.00000
SC-2	45	28785.80000	1.603	29233.40000	28812.50000	28311.50000
SC-3	45	1572770	1.162	1588630	1576900	1552770
GE-1	72	22253.30000	0.432	22149.80000	22270.10000	22340.00000
TB-2	159	172506.00000	1.253	170550.00000	172142.00000	174828.00000

USF03 2598

Run Name: 1119505E03 Date/Time: 07/14/2011 17:55:00
Tube Number: 37 Batch: 111931026003A
Sample Number: **6339387** Class: **********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6465.21000	4.974	6331.79000	6231.80000	6832.05000
GE-3	72	114356.00000	1.684	116574.00000	113106.00000	113387.00000
AL	27	124800.00000	2.944	122020.00000	124090.00000	128290.00000
B	11	72.90000	2.306	72.94270	72.39140	73.36590
BE	9	4.15000	3.041	4.08396	4.17311	4.19293
CA	44	29090.00000	2.010	28412.80000	28658.30000	30198.90000
K	39	24580.00000	3.459	23971.20000	24588.10000	25180.70000
MG	24	54070.00000	3.856	52763.00000	54301.60000	55145.30000
NA	23	944.90000	2.910	916.12100	938.56500	980.01400
TI	47	8944.00000	3.901	8656.02000	9007.95000	9168.03000
IN-1	115	196605.00000	0.386	195763.00000	196815.00000	197238.00000
IN-2	115	31595.80000	3.542	30389.40000	31797.90000	32600.00000
AG	107	0.15370	5.270	0.13920	0.15660	0.16530
AS	75	43.06000	2.850	40.40820	44.67570	44.09610
BA	137	530.20000	2.516	524.14500	531.34900	535.10600
CD	111	0.76900	8.065	0.80373	0.74419	0.75908
CO	59	58.33000	2.635	56.91150	56.92290	61.15560
CR	52	223.60000	4.424	226.23700	218.96000	225.60300
CU	63	66.84000	1.770	65.60210	66.69810	68.21980
FE	57	197300.00000	2.591	195546.00000	195424.00000	200930.00000
MN	55	2901.00000	1.669	2844.04000	2902.85000	2956.11000
MO	98	2.05600	13.521	2.03730	2.31771	1.81299
NI	60	96.03000	2.008	94.53480	95.77840	97.77680
SB	121	0.49500	10.224	0.52800	0.49500	0.46200
SE	78	1.05100	1.176	1.04418	1.06465	1.04418
SN	120	15.71000	1.867	14.97260	15.60840	16.54900
SR	88	210.10000	3.394	208.94200	211.93100	209.42600
V	51	426.70000	1.677	418.42700	426.52600	435.14600
ZN	66	441.20000	3.044	437.14400	445.20900	441.24700
BI-2	209	120332.00000	1.605	118244.00000	120699.00000	122053.00000
PB	208	45.12000	0.157	44.41780	45.22240	45.71980
TL	203	2.09100	0.433	2.06421	2.09636	2.11244
SC-1	45	216516.00000	1.318	213510.00000	216852.00000	219185.00000
SC-2	45	27439.70000	2.973	26497.70000	27920.70000	27900.60000
SC-3	45	1532770	1.851	1559670	1503130	1535520
GE-1	72	21117.90000	2.657	20556.90000	21678.90000	21117.90000
TB-2	159	164405.00000	1.846	161102.00000	167071.00000	165042.00000

USP63 2591

Run Name: 1119505E03
Tube Number: 38
Sample Number: **6339384**

Date/Time: 07/14/2011 17:58:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.00 Final Vol: 1.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	5938.27000	3.136	5961.67000	6111.67000	5741.47000
GE-3	72	110879.00000	2.835	108344.00000	114396.00000	109897.00000
AL	27	163.40000	8.629	152.16300	183.94600	154.09000
B	11	54.79000	5.757	55.75050	54.44250	54.17700
BE	9	0.51470	8.012	0.54380	0.49142	0.50888
CA	44	194.80000	28.758	198.94400	236.24700	149.20900
K	39	237.20000	10.535	226.11200	236.61600	248.87200
MG	24	114.00000	4.254	109.86500	122.27000	109.86500
NA	23	199.50000	7.058	206.26800	194.53900	197.69200
TI	47	11.71000	39.112	9.36802	9.36811	16.39390
IN-1	115	209105.00000	2.050	213345.00000	209197.00000	204773.00000
IN-2	115	30361.20000	1.350	30295.70000	29987.80000	30800.00000
AG	107	0.51950	14.002	0.56839	0.43088	0.55923
AS	75	2.04100	11.685	2.25327	2.00834	1.86139
BA	137	2.39300	18.600	2.07584	2.16235	2.94081
CD	111	0.54640	20.223	0.53647	0.44705	0.65568
CO	59	0.56530	20.803	0.61555	0.42712	0.65323
CR	52	2.18200	4.132	2.25355	2.16768	2.12477
CU	63	4.22400	3.537	4.12781	4.30346	4.24073
FE	57	193.40000	3.813	199.98800	183.71300	196.49900
MN	55	1.88800	3.647	1.95309	1.85545	1.85545
MO	98	0.55280	5.845	0.52066	0.57850	0.55923
NI	60	2.27200	22.179	1.74882	2.69055	2.37664
SB	121	1.28900	14.810	1.43728	1.06086	1.36886
SE	78	2.01600	2.687	2.04916	1.96958	2.02926
SN	120	10.88000	1.387	10.89750	10.87130	10.87110
SR	88	0.71190	11.906	0.68160	0.63616	0.81794
V	51	0.78900	21.280	0.88486	0.81849	0.66365
ZN	66	16.59000	22.218	20.78840	14.11140	14.87020
BI-2	209	124249.00000	0.608	123377.00000	124670.00000	124700.00000
PB	208	1.02700	1.517	1.01998	1.04573	1.01530
TL	203	0.49520	3.877	0.51335	0.49001	0.48224
SC-1	45	176087.00000	1.297	177487.00000	177323.00000	173452.00000
SC-2	45	20663.60000	3.890	19735.70000	21107.60000	21147.60000
SC-3	45	1180480	1.298	1164630	1195220	1181570
GE-1	72	21492.10000	2.597	21548.60000	22019.80000	20907.70000
TB-2	159	150794.00000	1.942	148788.00000	149439.00000	154155.00000

USF03 2592

Run Name: 1119505E03
Tube Number: 39
Sample Number: **LLC**

Date/Time: 07/14/2011 18:01:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	5958.28000	1.179	5951.62000	6031.65000	5891.58000
GE-3	72	107384.00000	2.851	109231.00000	109070.00000	103849.00000
AL	27	105.90000	5.917	109.09000	111.00400	97.60590
B	11	48.22000	1.307	49.30820	48.49920	46.85260
BE	9	0.48130	6.032	0.49843	0.45732	0.48815
CA	44	152.00000	13.368	153.90100	165.29900	136.80000
K	39	206.40000	6.948	195.95400	210.62300	212.62300
MG	24	112.40000	5.445	118.58000	108.28000	110.34100
NA	23	187.90000	0.338	188.12500	190.14300	185.43200
TI	47	4.40800	27.722	5.51000	3.30600	4.40800
IN-1	115	217369.00000	0.737	219216.00000	216351.00000	216539.00000
IN-2	115	31500.20000	0.827	31273.70000	31441.90000	31784.90000
AG	107	0.55470	19.001	0.53995	0.66387	0.46028
AS	75	1.76100	31.590	1.25124	2.22442	1.80734
BA	137	2.11500	25.423	2.50460	1.50276	2.33764
CD	111	0.49130	34.806	0.38265	0.42516	0.66609
CO	59	0.58270	6.367	0.61911	0.57056	0.55842
CR	52	2.06700	26.246	2.10134	2.53398	1.56568
CU	63	2.25700	7.935	2.15209	2.38559	2.23332
FE	57	114.20000	14.912	130.41000	112.72700	99.46340
MN	55	1.61100	33.104	1.20825	1.44060	2.18416
MO	98	0.45180	27.822	0.57558	0.44561	0.33421
NI	60	1.78500	11.776	1.54224	1.92780	1.88496
SB	121	0.81580	40.672	1.19063	0.59531	0.66146
SE	78	1.82400	11.025	1.65876	1.79222	2.02102
SN	120	1.97400	1.830	1.93373	1.95787	2.03040
SR	88	0.49630	26.254	0.35033	0.52549	0.61308
V	51	0.34460	38.624	0.42292	0.29761	0.31327
ZN	66	16.76000	5.804	16.95520	15.63930	17.68550
BI-2	209	123272.00000	1.115	122032.00000	124750.00000	123034.00000
PB	208	1.03900	5.943	0.96034	1.07360	1.08305
TL	203	0.49320	17.565	0.41491	0.59498	0.46971
SC-1	45	180173.00000	1.921	182718.00000	176231.00000	181571.00000
SC-2	45	21171.10000	2.235	21267.90000	20657.00000	21588.50000
SC-3	45	1158120	2.785	1188880	1160930	1124560
GE-1	72	22787.50000	4.186	23402.20000	21688.80000	23271.60000
TB-2	159	150020.00000	1.668	151024.00000	151865.00000	147171.00000

USP63 2593

Run Name: 1119505E03 Date/Time: 07/14/2011 18:04:00
Tube Number: 40
Sample Number: **ICSA**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6231.74000	0.850	6291.78000	6211.69000	6191.75000
GE-3	72	112762.00000	2.754	116334.00000	110703.00000	111249.00000
AL	27	9526.00000	2.508	9527.56000	9315.83000	9734.61000
B	11	2.26500	42.826	2.24563	2.25768	2.29168
BE	9	0.00892	143.114	0.00669	0.00573	0.01433
CA	44	10000.00000	1.555	9924.56000	10011.70000	10063.80000
K	39	11700.00000	1.510	11625.60000	11688.20000	11786.20000
MG	24	9621.00000	1.855	9508.38000	9715.87000	9638.76000
NA	23	9828.00000	2.311	9716.78000	9762.41000	10004.80000
TI	47	197.00000	6.431	209.93200	182.54600	198.52200
IN-1	115	211272.00000	3.037	208104.00000	207055.00000	218657.00000
IN-2	115	30908.40000	2.649	30366.80000	30508.00000	31850.40000
AG	107	0.00341	155.960	0.00511	0.00511	0.00000
AS	75	-0.09653	-52.181	-0.09653	-0.06435	-0.12871
BA	137	0.05759	86.612	0.08639	0.08639	0.00000
CD	111	-0.00256	-1310.550	-0.00295	-0.00118	-0.00354
CO	59	-0.00692	-107.099	-0.02075	0.00000	0.00000
CR	52	0.12210	67.003	0.08721	0.14826	0.13082
CU	63	-0.11340	-81.146	-0.10173	-0.11173	-0.12674
FE	57	10050.00000	2.623	9853.05000	10194.80000	10102.10000
MN	55	0.92600	47.786	0.80650	0.58249	1.38901
MO	98	205.00000	1.330	203.49900	203.38500	208.11600
NI	60	0.00840	1579.320	0.00000	0.02519	0.00000
SB	121	0.06628	98.582	0.00000	0.06628	0.13256
SE	78	-0.03590	-97.744	-0.05385	0.00000	-0.05385
SN	120	-0.07326	-69.451	-0.07326	0.00000	-0.14652
SR	88	0.40260	34.153	0.53680	0.26840	0.40260
V	51	0.01460	271.233	0.01232	0.01506	0.01643
ZN	66	0.35840	65.541	0.40320	0.53760	0.13440
BI-2	209	120485.00000	1.038	120590.00000	119185.00000	121679.00000
PB	208	0.01955	61.637	0.01747	0.02621	0.01497
TL	203	0.00800	99.312	0.00000	0.00800	0.01599
SC-1	45	178314.00000	2.698	174241.00000	177078.00000	183622.00000
SC-2	45	21114.60000	0.028	21117.80000	21118.20000	21107.70000
SC-3	45	1222030	2.442	1256460	1203760	1205870
GE-1	72	22947.90000	2.693	22840.80000	22390.40000	23612.40000
TB-2	159	149013.00000	1.133	147484.00000	148731.00000	150825.00000

USPS3 2594

Run Name: 1119505E03
Tube Number: 41
Sample Number: **ICSAB**

Date/Time: 07/14/2011 18:07:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6278.45000	3.313	6041.64000	6361.63000	6431.88000
GE-3	72	113452.00000	0.870	114590.00000	112841.00000	112923.00000
AL	27	9650.00000	4.102	9724.96000	9643.67000	9581.35000
B	11	-0.11270	-104.880	-0.11333	-0.11263	-0.11214
BE	9	0.00366	139.579	0.00449	0.00399	0.00250
CA	44	10180.00000	1.441	9946.42000	10301.20000	10292.40000
K	39	11760.00000	2.352	11592.60000	11651.70000	12035.70000
MG	24	9835.00000	3.036	9799.90000	9764.49000	9940.61000
NA	23	9855.00000	2.442	9751.08000	9882.87000	9931.05000
TI	47	195.70000	12.008	214.62800	181.69200	190.77900
IN-1	115	215916.00000	1.961	212277.00000	220564.00000	214908.00000
IN-2	115	31743.80000	2.632	32051.50000	32381.80000	30798.00000
AG	107	19.63000	2.695	19.79510	19.51200	19.58290
AS	75	19.28000	5.071	18.86310	19.17580	19.80110
BA	137	0.10990	41.374	0.08242	0.16485	0.08242
CD	111	20.41000	2.948	20.78200	20.15120	20.29680
CO	59	19.88000	0.680	20.22370	20.23610	19.18020
CR	52	20.31000	6.233	19.34000	20.58390	21.00610
CU	63	19.86000	6.536	20.65400	18.83860	20.08740
FE	57	9886.00000	2.015	9874.96000	9965.21000	9817.83000
MN	55	21.01000	7.706	21.52130	19.69050	21.81820
MO	98	201.00000	3.479	202.47800	198.34300	202.17900
NI	60	19.26000	5.810	19.15750	18.71660	19.90590
SB	121	0.02152	86.617	0.03228	0.03228	0.00000
SE	78	-0.00344	-852.736	-0.00187	-0.00469	-0.00375
SN	120	-0.01399	-223.088	-0.01614	-0.00969	-0.01614
SR	88	0.51030	40.741	0.30618	0.52488	0.69984
V	51	-0.07010	-121.155	-0.06134	-0.05257	-0.09639
ZN	66	17.72000	22.449	15.29260	16.16630	21.70110
BI-2	209	122986.00000	0.768	122175.00000	122760.00000	124023.00000
PB	208	0.01946	31.516	0.01581	0.02068	0.02189
TL	203	0.00000	0.000	0.00000	0.00000	0.00000
SC-1	45	182108.00000	1.963	178508.00000	185657.00000	182160.00000
SC-2	45	21451.60000	1.182	21678.60000	21177.90000	21498.30000
SC-3	45	1209830	1.141	1225420	1199190	1204870
GE-1	72	23776.00000	1.908	23281.70000	23872.90000	24173.40000
TB-2	159	151584.00000	0.305	151727.00000	151957.00000	151066.00000

USF83 2595

Run Name: 1119505E03 Date/Time: 07/14/2011 18:10:00
Tube Number: 42
Sample Number: **CCV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6415.19000	4.226	6672.00000	6131.71000	6441.86000
GE-3	72	110611.00000	0.164	110544.00000	110474.00000	110816.00000
AL	27	2356.00000	4.032	2347.58000	2337.66000	2382.76000
B	11	244.90000	1.247	244.63100	247.32000	242.54900
BE	9	23.65000	1.389	23.84440	23.79050	23.31510
CA	44	2633.00000	11.120	2652.26000	2825.84000	2420.91000
K	39	2458.00000	4.325	2465.92000	2458.29000	2449.79000
MG	24	2403.00000	5.102	2356.85000	2384.14000	2468.01000
NA	23	2355.00000	4.709	2329.90000	2338.70000	2396.40000
TI	47	247.20000	3.741	249.79100	246.45900	245.35000
IN-1	115	217321.00000	1.040	214757.00000	218174.00000	219030.00000
IN-2	115	32934.80000	1.402	32926.20000	33400.80000	32477.30000
AG	107	25.27000	3.497	26.21050	24.81230	24.78720
AS	75	242.90000	2.529	242.15400	240.57800	245.96800
BA	137	244.50000	2.832	245.11200	240.71200	247.67600
CD	111	24.68000	3.053	24.70080	24.26410	25.07510
CO	59	242.90000	0.583	244.46900	245.41900	238.81300
CR	52	243.30000	1.073	245.03100	243.72600	241.14200
CU	63	248.30000	1.245	251.44000	248.84100	244.61900
FE	57	2389.00000	0.768	2403.60000	2427.68000	2335.72000
MN	55	249.90000	2.337	250.84600	247.14700	251.70700
MO	98	25.19000	0.666	25.01630	25.71700	24.83670
NI	60	245.70000	0.697	244.22000	251.09900	241.78100
SB	121	23.66000	7.367	24.53500	21.97350	24.47150
SE	78	24.99000	3.041	25.31350	24.24390	25.41260
SN	120	25.08000	5.690	25.66810	23.80570	25.76620
SR	88	25.19000	2.570	24.44890	26.04290	25.07820
V	51	239.00000	0.775	236.83800	243.80400	236.35800
ZN	66	239.30000	3.712	249.45500	236.68000	231.76500
BI-2	209	125611.00000	0.798	126108.00000	124458.00000	126267.00000
PB	208	25.47000	1.464	25.16610	25.30760	25.93640
TL	203	25.34000	4.128	25.13940	24.24510	26.63560
SC-1	45	183207.00000	1.235	180599.00000	184391.00000	184631.00000
SC-2	45	21385.10000	1.005	21528.50000	21488.70000	21137.90000
SC-3	45	1222050	0.085	1220850	1222480	1222800
GE-1	72	22500.40000	1.810	22650.90000	22039.40000	22811.00000
TB-2	159	157194.00000	1.307	159422.00000	156788.00000	155372.00000

USF03 2596

Run Name: 1119505E03 Date/Time: 07/14/2011 18:13:00
Tube Number: 43
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6521.92000	3.065	6391.83000	6752.08000	6421.84000
GE-3	72	116563.00000	1.043	115498.00000	116304.00000	117888.00000
AL	27	3.52100	71.116	1.32032	4.62127	4.62141
B	11	2.37100	8.397	2.34599	2.35075	2.41626
BE	9	0.03568	27.422	0.03971	0.02762	0.03971
CA	44	-20.13000	-105.266	-13.93600	-20.90440	-25.54960
K	39	3.92000	221.173	3.75917	3.79245	4.20838
MG	24	1.29200	226.858	2.11419	0.84567	0.91614
NA	23	-16.90000	-10.923	-16.74300	-17.08320	-16.87380
TI	47	-0.01016	-6335.630	-0.03048	0.00000	0.00000
IN-1	115	220998.00000	2.861	228257.00000	218050.00000	216687.00000
IN-2	115	33351.60000	0.769	33174.40000	33234.60000	33645.80000
AG	107	0.00289	336.760	0.00000	0.00867	0.00000
AS	75	-0.09131	-113.569	-0.10957	-0.02739	-0.13697
BA	137	0.07880	100.406	0.00000	0.15760	0.07880
CD	111	-0.00760	-418.684	-0.00877	-0.00351	-0.01052
CO	59	0.03554	33.146	0.04442	0.02665	0.03554
CR	52	-0.08592	-62.698	-0.04833	-0.12888	-0.08055
CU	63	-0.15640	-42.359	-0.14676	-0.16678	-0.15566
FE	57	3.01000	90.432	1.80597	4.06347	3.16055
MN	55	0.11490	123.847	0.04596	0.18384	0.11490
MO	98	0.07693	57.247	0.03297	0.08242	0.11540
NI	60	0.10020	111.677	0.07515	0.17535	0.05010
SB	121	0.07252	88.996	0.00000	0.09324	0.12432
SE	78	-0.01070	-602.804	-0.00642	-0.00321	-0.02247
SN	120	0.00482	1064.910	0.00633	0.00542	0.00271
SR	88	0.00000	0.000	0.00000	0.00000	0.00000
V	51	-0.01787	-738.668	-0.02421	-0.00865	-0.02075
ZN	66	0.04879	328.756	0.00000	0.14637	0.00000
BI-2	209	129612.00000	0.704	129671.00000	128671.00000	130493.00000
PB	208	0.00225	378.828	0.00266	0.00121	0.00290
TL	203	0.04225	20.341	0.05219	0.03728	0.03728
SC-1	45	183585.00000	3.742	191035.00000	182217.00000	177503.00000
SC-2	45	21865.70000	0.573	21808.80000	22009.40000	21779.00000
SC-3	45	1249050	1.258	1245060	1266360	1235710
GE-1	72	23402.00000	5.025	24754.50000	22831.00000	22620.50000
TB-2	159	159749.00000	0.137	159796.00000	159511.00000	159940.00000

US93 2597

Run Name: 1119505E03
Tube Number: 44
Sample Number: LRS

Date/Time: 07/14/2011 18:16:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	5941.59000	6.842	6091.60000	5481.38000	6251.80000
GE-3	72	108946.00000	1.853	111017.00000	108838.00000	106983.00000
AL	27	49230.00000	6.652	49319.80000	48997.00000	49373.20000
B	11	478.40000	1.211	483.85200	475.29800	476.05100
BE	9	463.20000	1.122	466.89000	462.59300	460.11700
CA	44	53520.00000	6.499	54134.10000	53060.10000	53365.70000
K	39	51840.00000	7.118	52072.40000	51808.00000	51639.50000
MG	24	47390.00000	7.436	47016.00000	47616.20000	47537.80000
NA	23	48240.00000	6.862	48134.60000	48138.60000	48446.80000
TI	47	519.00000	5.129	515.39900	508.18400	533.41600
IN-1	115	211523.00000	0.384	211401.00000	210778.00000	212390.00000
IN-2	115	30707.90000	0.618	30573.60000	30925.00000	30625.20000
AG	107	487.70000	1.286	492.56200	489.20300	481.33500
AS	75	487.00000	1.559	492.76700	489.71200	478.52100
BA	137	502.70000	1.688	490.89000	509.55400	507.65700
CD	111	487.40000	0.129	485.48100	491.34200	485.37700
CO	59	485.30000	0.657	486.14800	485.35200	484.39900
CR	52	501.30000	1.606	497.86100	497.48000	508.55900
CU	63	488.80000	1.451	494.34000	490.76700	481.29300
FE	57	49800.00000	1.016	49323.20000	49828.40000	50248.40000
MN	55	508.00000	0.945	510.74100	506.96400	506.29600
MO	98	510.60000	0.310	509.33600	515.06500	507.39900
NI	60	488.80000	0.952	490.61000	493.41500	482.37400
SB	121	500.50000	0.062	498.66900	503.88100	498.95000
SE	78	498.00000	0.432	496.59700	498.72100	498.68100
SN	120	506.10000	0.627	502.84800	507.15200	508.30000
SR	88	508.20000	1.109	511.48200	512.01300	501.10500
V	51	504.80000	1.131	501.46700	503.30400	509.62800
ZN	66	469.20000	0.863	471.81100	470.30600	465.48300
BI-2	209	118559.00000	2.907	114622.00000	121034.00000	120022.00000
PB	208	496.90000	3.880	501.78900	492.31900	496.59200
TL	203	507.60000	4.267	514.91300	501.89500	505.99200
SC-1	45	187728.00000	1.350	187502.00000	185313.00000	190368.00000
SC-2	45	22647.20000	2.465	22319.70000	22329.90000	23291.80000
SC-3	45	1249510	1.626	1272920	1239280	1236330
GE-1	72	22941.30000	2.270	22350.30000	23141.40000	23332.20000
TB-2	159	155917.00000	0.504	155238.00000	156777.00000	155735.00000

USP63 2599

Run Name: 1119505E03 Date/Time: 07/14/2011 18:19:00
Tube Number: 45
Sample Number: **RINSE**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
GE-2	72	6178.42000	1.620	6081.75000	6281.72000	6171.80000
GE-3	72	109884.00000	2.473	112318.00000	110381.00000	106953.00000
AL	27	7.86000	18.880	8.94418	8.13103	6.50479
B	11	7.41200	4.825	7.49781	7.44289	7.29530
BE	9	0.38560	21.665	0.34979	0.33979	0.46722
CA	44	45.97000	44.616	49.88300	49.88210	38.14490
K	39	29.33000	32.973	30.71160	30.28640	26.99200
MG	24	9.86200	11.306	10.56640	9.29847	9.72113
NA	23	6.77700	101.431	7.14700	6.65754	6.52646
TI	47	-0.00365	-17964.900	0.00000	-0.01094	0.00000
IN-1	115	219299.00000	0.576	217950.00000	220452.00000	219494.00000
IN-2	115	32808.90000	0.600	32601.60000	32993.40000	32831.70000
AG	107	0.14800	23.892	0.15917	0.17593	0.10891
AS	75	-0.03744	-340.278	-0.03456	-0.06048	-0.01728
BA	137	0.05339	173.216	0.00000	0.00000	0.16017
CD	111	0.04588	18.385	0.04189	0.04787	0.04787
CO	59	0.09173	29.968	0.10584	0.10584	0.06351
CR	52	-0.10590	-62.077	-0.02444	-0.17107	-0.12219
CU	63	-0.04044	-176.978	-0.04044	-0.04307	-0.03781
FE	57	14.11000	28.845	12.69900	17.77870	11.85230
MN	55	0.13570	148.931	0.25444	0.05089	0.10178
MO	98	0.67920	13.891	0.60770	0.64345	0.78645
NI	60	0.08845	55.647	0.07237	0.07237	0.12061
SB	121	0.68730	23.963	0.72959	0.50754	0.82477
SE	78	0.31760	31.707	0.39700	0.23820	0.31760
SN	120	0.38560	32.209	0.44779	0.27987	0.42914
SR	88	0.07031	91.481	0.08437	0.00000	0.12656
V	51	0.04399	199.250	0.04637	0.03210	0.05350
ZN	66	0.33120	23.995	0.24840	0.37261	0.37260
BI-2	209	128026.00000	1.201	127550.00000	126783.00000	129746.00000
PB	208	0.13900	7.410	0.14849	0.13018	0.13832
TL	203	0.62890	8.782	0.67921	0.56601	0.64148
SC-1	45	180500.00000	1.762	180578.00000	183641.00000	177281.00000
SC-2	45	22460.10000	4.001	23442.10000	21678.60000	22259.70000
SC-3	45	1194990	2.203	1217260	1201770	1165940
GE-1	72	23114.80000	0.821	22981.10000	23031.30000	23332.00000
TB-2	159	157942.00000	1.642	159024.00000	154983.00000	159818.00000

USF03 2599

Lancaster Laboratories

Instrument Tuning Report (ICPMS #11332)

File Name: default.tun

File Path: C:\elandata\Tuning

Sample Date/Time: 7/14/2011 8:47:00AM

Number of Replicates: 6

Method File: c:\elandata\Method\dailytune.mth

Measured Mass must be within +/- 0.1 amu of the Exact Mass.

Measured Peak Width must be > or = to 0.640 AND < or = to 0.660.

Analyte	EXACT MASS	MEAS. MASS	Mass DAC	RES. DAC	MEAS. PK. WIDTH
Ce	140.000	139.950	0	0	0.600
In	115.000	114.950	0	0	0.600
Li	6.000	6.100	0	0	0.650
Mg	24.000	24.050	0	0	0.650
Pb	208.000	208.000	0	0	0.650
Rh	103.000	102.950	0	0	0.600
U	238.000	238.050	0	0	0.700

Summary: Verify that the RSD is less than 5 for the following masses.

Mass	Meas. Intens. Mean	Meas. Intens. RSD
140.000	102431.000	2.310
115.000	96551.000	0.990
6.000	25256.000	1.700
24.000	44801.000	1.740
208.000	50245.000	1.180
103.000	88298.000	1.800
238.000	104194.000	0.550

USP83 2688

Lancaster Laboratories

ICP-MS Run Data Report

1120308E03

Method Reference Name(s):
SW-846 6020

Date File Name: 11G22Q00.E03

Run Name: 1120308E03

Analyst: 1200

Reviewed By: David K Beck
Reviewed Date: 07/23/2011 04:49

Verified By: Deborah A Krady
Verified Date: 07/23/2011 09:46

Instrument Parameters:

Rinse Time (sec): 25.00

INTERNAL STD.	ELEMENT	MASS
SC-2		45
	NA	23
	MG	24
	AL	27
	K	39
	CA	44
	TI	47
	V	51
	CR	52
	MN	55
	FE	57
SC-3		45
	BE	9
	B	11
IN-1		115
	SE	78
IN-2		115
	CO	59
	NI	60
	CU	63
	ZN	66
	AS	75
	SR	88
	MO	98
	AG	107
	CD	111
	SN	120
	SB	121
	BA	137
BI-2		209
	TL	203
	PB	208

USF03 2681

Run Name: 1120308E03
Tube Number: 1
Sample Number: **S0**

Date/Time: 07/22/2011 22:03:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
BE	9	0.00000	-5123650000	0.00000	0.00000	0.00000
B	11	0.00000	-207399000	0.00000	0.00000	0.00000
NA	23	0.00001	130472000	0.00001	0.00001	0.00001
MG	24	0.00000	1635670000	0.00000	0.00000	0.00000
AL	27	0.00000	232994000	0.00000	0.00000	0.00000
K	39	0.00001	108096000	0.00001	0.00001	0.00001
CA	44	0.00000	-394513000	0.00000	-0.00001	0.00000
SC-1	45	419071.00000	2.508	408486.00000	429512.00000	419215.00000
SC-2	45	63532.20000	2.526	62289.20000	62963.30000	65344.10000
SC-3	45	1601400	1.306	1608960	1577750	1617490
TI	47	0.00000	-10117100000	0.00000	0.00000	0.00000
V	51	0.00000	1698920000	0.00000	0.00000	0.00000
CR	52	0.00000	149020000	0.00000	0.00000	0.00000
MN	55	0.00000	5458920000	0.00000	0.00000	0.00000
FE	57	0.00000	-1138680000	0.00000	0.00000	0.00000
CO	59	0.00000	2207540000	0.00000	0.00000	0.00000
NI	60	0.00000	-584708000	0.00000	0.00000	0.00000
CU	63	0.00000	5728330000	0.00000	0.00000	0.00000
ZN	66	0.00000	-1818040000	0.00000	0.00000	0.00000
GE-1	72	41133.40000	4.828	40083.10000	43424.70000	39892.60000
GE-2	72	13918.10000	0.628	13857.90000	14018.30000	13878.00000
GE-3	72	111774.00000	2.300	111944.00000	109122.00000	114255.00000
AS	75	0.00000	890909000	0.00000	0.00000	0.00000
SE	78	0.00000	-1800130000	0.00000	0.00000	0.00000
SR	88	0.00000	-1934860000	0.00000	0.00000	0.00000
MO	98	0.00000	-7351900000	0.00000	0.00000	0.00000
AG	107	0.00000	-4844390000	0.00000	0.00000	0.00000
CD	111	0.00000	1402540000	0.00000	0.00000	0.00000
IN-1	115	282528.00000	3.105	275875.00000	292470.00000	279240.00000
IN-2	115	50334.60000	2.068	49136.70000	51023.50000	50843.50000
SN	120	0.00000	-475508000000	0.00000	0.00000	0.00000
SB	121	0.00000	-809574000	0.00000	0.00000	0.00000
BA	137	0.00000	19820400000	0.00000	0.00000	0.00000
TB-2	159	175770.00000	2.804	170766.00000	180620.00000	175925.00000
TL	203	0.00000	-842270000	0.00000	0.00000	0.00000
PB	208	0.00000	-2478130000	0.00000	0.00000	0.00000
BI-2	209	102969.00000	1.469	101222.00000	103863.00000	103821.00000

USP83 2682

Run Name: 1120308E03 Date/Time: 07/22/2011 22:06:00
Tube Number: 2
Sample Number: S1

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	60929.60000	0.390	60862.20000	61193.80000	60732.70000
SC-3	45	1589200	1.876	1605130	1554810	1607660
AL	27	10000.00000	1.769	9860.02000	9971.12000	10168.90000
B	11	1000.00000	2.552	1003.50000	1006.18000	990.31800
BE	9	100.00000	3.521	101.33500	101.16700	97.49770
CA	44	10000.00000	1.634	10031.00000	9865.23000	10103.70000
CR	52	1000.00000	3.187	1001.85000	971.07500	1027.08000
FE	57	10000.00000	1.314	9915.05000	9965.85000	10119.10000
K	39	10000.00000	1.228	9867.41000	10052.70000	10079.90000
MG	24	10000.00000	1.405	9895.21000	9975.85000	10129.00000
MN	55	1000.00000	0.756	992.11500	1002.99000	1004.90000
NA	23	10000.00000	0.585	10050.30000	10030.50000	9919.21000
TI	47	1000.00000	1.609	1013.15000	986.85200	999.99500
V	51	1000.00000	0.500	993.50700	1005.26000	1001.24000
IN-1	115	276654.00000	2.246	282499.00000	277338.00000	270125.00000
IN-2	115	48395.20000	1.287	48367.40000	47786.70000	49031.30000
AG	107	100.00000	0.782	100.77800	98.63190	100.59000
AS	75	1000.00000	0.588	1001.74000	991.82100	1006.44000
BA	137	1000.00000	0.933	989.42000	995.76100	1014.82000
CD	111	100.00000	1.638	98.46770	100.47200	101.06000
CO	59	1000.00000	0.546	1001.31000	981.30000	1017.39000
CU	63	1000.00000	1.767	986.04000	1007.23000	1006.73000
MO	98	100.00000	1.096	101.15400	97.83650	101.01000
NI	60	1000.00000	1.474	993.95800	1004.06000	1001.99000
SB	121	100.00000	2.456	97.22600	100.75600	102.01800
SE	78	100.00000	2.300	100.26900	99.54090	100.19000
SN	120	100.00000	0.657	99.85780	99.43610	100.70600
SR	88	100.00000	2.862	97.95340	101.99400	100.05200
ZN	66	1000.00000	0.979	1004.95000	993.28300	1001.77000
BI-2	209	103602.00000	2.718	103682.00000	100747.00000	106376.00000
PB	208	100.00000	2.388	99.81810	99.74120	100.44100
TL	203	100.00000	1.909	99.62890	99.32340	101.04800
SC-1	45	415900.00000	1.518	419145.00000	419931.00000	408623.00000
GE-1	72	41029.80000	3.005	42340.70000	40855.80000	39892.80000
GE-2	72	13150.50000	0.192	13127.20000	13177.30000	13147.10000
GE-3	72	105535.00000	0.998	106751.00000	104937.00000	104916.00000
TB-2	159	169972.00000	1.324	167812.00000	169800.00000	172303.00000

USP83 2683

Run Name: 1120308E03
Tube Number: 3
Sample Number: **CCS**

Date/Time: 07/22/2011 22:09:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	62032.00000	0.966	62169.10000	61375.70000	62551.10000
SC-3	45	1595430	2.802	1599250	1548940	1638110
AL	27	-0.04581	-44.204	-0.04581	-0.04581	-0.04581
B	11	89.40000	3.406	91.21100	88.60640	88.38260
BE	9	0.03293	8.980	0.03556	0.03161	0.03161
CA	44	0.68400	4704.680	0.79022	0.50981	0.75197
CR	52	-0.06395	-82.502	-0.05668	-0.07848	-0.05668
FE	57	-0.93620	-193.014	-0.90866	-1.23909	-0.66085
K	39	25.20000	24.968	25.39480	25.16700	25.03810
MG	24	0.51700	62.224	0.74678	0.45955	0.34467
MN	55	0.05440	104.393	0.07805	0.04257	0.04257
NA	23	-3.43000	-192.216	-3.37682	-3.41763	-3.49555
TI	47	-0.39230	0.000	0.00000	0.00000	0.00000
V	51	-0.06768	-19.459	-0.06768	-0.07219	-0.06317
IN-1	115	277440.00000	0.925	278067.00000	279634.00000	274618.00000
IN-2	115	49296.60000	3.045	48232.50000	48643.90000	51013.50000
AG	107	0.01035	7.071	0.01035	0.01035	0.01035
AS	75	0.06923	418.460	0.07454	0.05862	0.07454
BA	137	0.10410	36.888	0.09369	0.12492	0.09369
CD	111	-0.01066	-591.088	-0.00946	-0.01194	-0.01058
CO	59	0.03225	36.031	0.02882	0.03705	0.03088
CU	63	0.19150	117.546	0.19061	0.20560	0.17829
MO	98	0.07869	27.577	0.06995	0.09618	0.06995
NI	60	0.01144	567.920	0.01716	0.01030	0.00686
SB	121	0.04246	97.339	0.05004	0.04094	0.03639
SE	78	0.04540	30.198	0.04145	0.04145	0.05330
SN	120	0.17240	65.023	0.22166	0.11083	0.18471
SR	88	0.05278	38.841	0.04750	0.04750	0.06333
ZN	66	0.09583	113.847	0.14374	0.05750	0.08625
BI-2	209	103648.00000	1.411	102129.00000	105044.00000	103772.00000
PB	208	0.00646	87.208	0.00553	0.00672	0.00712
TL	203	0.04582	22.348	0.05155	0.04009	0.04582
SC-1	45	412300.00000	1.439	410473.00000	418932.00000	407496.00000
GE-1	72	41548.10000	1.754	40906.30000	42340.50000	41397.70000
GE-2	72	13344.10000	3.618	13247.30000	12917.00000	13867.90000
GE-3	72	110204.00000	4.057	110663.00000	105520.00000	114427.00000
TB-2	159	171296.00000	1.212	169575.00000	170712.00000	173602.00000

USF03 2684

Run Name: 1120308E03
Tube Number: 4
Sample Number: **CCS**

Date/Time: 07/22/2011 22:12:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	62513.60000	2.174	61023.20000	62832.20000	63685.30000
SC-3	45	1592810	0.557	1602350	1591270	1584820
AL	27	-0.35890	-78.964	-0.35890	-0.29908	-0.41871
B	11	46.09000	2.350	47.48810	45.71950	45.06240
BE	9	0.00114	167.926	0.00100	0.00141	0.00100
CA	44	-25.99000	-47.287	-26.96690	-27.55330	-23.44980
CR	52	-0.16090	-34.438	-0.18430	-0.09654	-0.20186
FE	57	1.15000	48.356	1.10107	1.24787	1.10105
K	39	19.02000	116.667	19.54000	18.84360	18.67640
MG	24	-0.08002	-70.207	-0.10288	-0.06859	-0.06859
MN	55	0.00727	399.120	0.00545	0.00954	0.00682
NA	23	-0.70710	-1786.170	-0.71383	-0.70102	-0.70646
TI	47	0.01745	4067.620	0.05235	0.00000	0.00000
V	51	-0.06194	-64.223	-0.05140	-0.05535	-0.07907
IN-1	115	281034.00000	1.359	283786.00000	282643.00000	276674.00000
IN-2	115	49166.20000	2.683	49266.60000	47799.80000	50432.30000
AG	107	0.00027	1468.090	0.00023	0.00034	0.00023
AS	75	0.04953	873.612	0.04148	0.05828	0.04883
BA	137	0.02208	15.050	0.02208	0.02208	0.02208
CD	111	0.00091	5718.680	0.00087	0.00083	0.00104
CO	59	0.01705	135.660	0.01615	0.02288	0.01211
CU	63	0.18000	67.333	0.19080	0.16802	0.18118
MO	98	0.03553	45.595	0.03331	0.02665	0.04663
NI	60	-0.06338	-54.954	-0.10563	-0.04225	-0.04225
SB	121	-0.00431	-853.664	-0.00529	-0.00412	-0.00353
SE	78	-0.00728	-147.192	-0.00728	-0.00971	-0.00486
SN	120	0.04667	26.484	0.04400	0.04800	0.04800
SR	88	0.02423	41.478	0.02272	0.02272	0.02726
ZN	66	-0.01968	-190.854	-0.02362	-0.01181	-0.02362
BI-2	209	102425.00000	1.600	100544.00000	103179.00000	103550.00000
PB	208	0.00993	147.880	0.00745	0.01317	0.00916
TL	203	0.01254	48.413	0.01447	0.01158	0.01158
SC-1	45	418816.00000	1.417	421044.00000	423314.00000	412089.00000
GE-1	72	42066.40000	2.272	41357.70000	43153.60000	41688.00000
GE-2	72	13340.80000	0.932	13407.50000	13417.50000	13197.30000
GE-3	72	110510.00000	0.773	109837.00000	111471.00000	110221.00000
TB-2	159	169234.00000	0.987	167658.00000	170986.00000	169057.00000

USF83 2685

Run Name: 1120308E03
Tube Number: 5
Sample Number: **ICV**

Date/Time: 07/22/2011 22:15:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	61217.30000	0.732	61685.60000	60793.00000	61173.30000
SC-3	45	1593800	2.658	1639280	1586660	1555480
AL	27	5004.00000	0.996	4985.58000	4988.08000	5038.34000
B	11	524.60000	0.761	537.05300	526.99900	510.34900
BE	9	51.73000	1.922	52.78060	52.62680	49.78260
CA	44	5190.00000	4.046	5021.11000	5161.60000	5387.30000
CR	52	470.20000	1.413	467.76500	465.83600	477.00000
FE	57	5146.00000	0.886	5154.41000	5088.97000	5194.61000
K	39	5072.00000	1.808	5020.24000	5051.02000	5144.74000
MG	24	4669.00000	1.207	4650.76000	4631.79000	4724.44000
MN	55	511.00000	1.676	505.12200	513.73700	514.14100
NA	23	5158.00000	3.125	5051.06000	5116.60000	5306.33000
TI	47	506.70000	2.866	493.76100	511.74100	514.59900
V	51	500.80000	1.814	494.14200	501.81100	506.44700
IN-1	115	287087.00000	1.889	287007.00000	292549.00000	281704.00000
IN-2	115	49509.40000	1.968	49143.10000	48771.40000	50613.60000
AG	107	49.43000	2.407	50.38930	48.35470	49.54600
AS	75	485.60000	2.358	494.19100	476.74700	485.86200
BA	137	502.00000	2.082	509.35600	493.27000	503.37400
CD	111	49.00000	1.524	47.80870	48.83130	50.36000
CO	59	465.80000	1.525	466.28800	463.21300	467.89900
CU	63	459.70000	1.955	465.14600	453.17400	460.78000
MO	98	49.94000	0.580	49.78870	49.31030	50.72100
NI	60	495.80000	2.713	497.08800	498.81400	491.49800
SB	121	50.25000	2.376	49.56060	50.81580	50.37360
SE	78	49.90000	2.565	51.03590	49.45060	49.21340
SN	120	50.22000	4.534	49.51970	51.89000	49.25040
SR	88	49.95000	2.591	50.10210	50.16790	49.58000
ZN	66	486.80000	2.500	491.40700	485.49100	483.50200
BI-2	209	101874.00000	2.404	102602.00000	99143.00000	103876.00000
PB	208	51.49000	0.926	52.06060	50.45460	51.95470
TL	203	51.52000	0.109	51.95190	50.12020	52.48790
SC-1	45	427723.00000	2.254	426246.00000	438015.00000	418907.00000
GE-1	72	42604.70000	2.124	41738.80000	43544.30000	42531.00000
GE-2	72	12850.20000	3.670	13097.00000	13147.20000	12306.40000
GE-3	72	106702.00000	2.634	109161.00000	107306.00000	103637.00000
TB-2	159	170945.00000	0.302	171267.00000	171217.00000	170350.00000

USP83 2586

Run Name: 1120308E03 Date/Time: 07/22/2011 22:19:00
Tube Number: 6
Sample Number: **ICB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	62349.60000	1.953	60963.00000	63244.30000	62841.70000
SC-3	45	1618990	4.888	1710280	1569700	1576990
AL	27	-0.55550	-56.886	-0.41662	-0.62493	-0.62495
B	11	66.15000	2.593	68.14190	65.67120	64.63690
BE	9	0.01913	81.338	0.01148	0.01492	0.03099
CA	44	-5.49300	-267.431	-5.31590	-6.16629	-4.99681
CR	52	-0.08845	-35.512	-0.08956	-0.07629	-0.09951
FE	57	-1.80900	-37.723	-1.49709	-1.87141	-2.05850
K	39	15.82000	95.259	16.03280	15.82960	15.59760
MG	24	0.24530	61.109	0.20442	0.20442	0.32707
MN	55	0.02050	184.829	0.01367	0.02050	0.02733
NA	23	-0.35760	-599.553	-0.35108	-0.36073	-0.36099
TI	47	0.40920	96.408	0.40920	0.61380	0.20460
V	51	-0.12530	-34.956	-0.17542	-0.11277	-0.08771
IN-1	115	279315.00000	2.614	285606.00000	271310.00000	281028.00000
IN-2	115	49526.30000	2.062	48743.10000	49154.10000	50681.70000
AG	107	0.03461	20.225	0.03894	0.03461	0.03028
AS	75	0.20490	111.371	0.19953	0.22371	0.19146
BA	137	0.10080	148.016	0.03024	0.09072	0.18144
CD	111	0.07870	50.038	0.07352	0.07634	0.08624
CO	59	0.02660	30.947	0.02902	0.02358	0.02720
CU	63	0.15060	49.363	0.14563	0.15500	0.15117
MO	98	0.07431	34.033	0.06859	0.09432	0.06002
NI	60	0.00331	970.393	0.00314	0.00418	0.00261
SB	121	0.00147	3803.400	0.00153	0.00096	0.00192
SE	78	0.01863	202.952	0.03144	0.01747	0.00699
SN	120	0.20080	46.524	0.15801	0.25676	0.18763
SR	88	0.03084	148.865	0.02177	0.04354	0.02721
ZN	66	-0.08928	-86.346	0.00000	0.00000	-0.26784
BI-2	209	103164.00000	0.930	103238.00000	102170.00000	104084.00000
PB	208	0.00572	232.652	0.00393	0.00608	0.00715
TL	203	0.07370	20.678	0.08040	0.06030	0.08040
SC-1	45	413868.00000	2.902	421809.00000	400050.00000	419745.00000
GE-1	72	40668.70000	4.696	42229.90000	38538.70000	41237.30000
GE-2	72	13254.00000	1.300	13197.20000	13117.10000	13447.50000
GE-3	72	110826.00000	3.472	114638.00000	110896.00000	106943.00000
TB-2	159	167588.00000	2.989	167740.00000	162503.00000	172519.00000

USP83 2687

Run Name: 1120308E03
Tube Number: 7
Sample Number: **LLC**

Date/Time: 07/22/2011 22:22:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	65588.90000	0.787	65364.50000	65223.20000	66179.00000
SC-3	45	1636950	4.800	1722210	1621210	1567430
AL	27	96.67000	1.229	95.01290	96.94620	98.05100
B	11	82.40000	2.823	84.27920	81.99340	80.92750
BE	9	0.49540	8.761	0.50698	0.45802	0.52120
CA	44	198.00000	19.783	203.52800	215.59000	174.88200
CR	52	1.67700	1.670	1.69771	1.64939	1.68390
FE	57	97.31000	4.049	93.92860	95.69300	102.30800
K	39	204.00000	8.676	206.44000	206.01300	199.54700
MG	24	93.31000	3.257	89.71090	95.44740	94.77170
MN	55	1.18900	8.579	1.22940	1.24673	1.09087
NA	23	174.20000	2.522	172.30300	174.44100	175.85600
TI	47	4.31200	22.583	3.49621	5.24434	4.19545
V	51	0.53650	21.696	0.47383	0.62425	0.51143
IN-1	115	292404.00000	1.046	295621.00000	292056.00000	289533.00000
IN-2	115	51386.20000	1.358	51493.20000	52024.30000	50641.00000
AG	107	0.48180	7.534	0.47801	0.45524	0.51215
AS	75	1.88600	7.450	1.88952	1.97397	1.79451
BA	137	2.11900	16.739	2.13775	2.47530	1.74395
CD	111	0.57910	23.744	0.56060	0.52730	0.64941
CO	59	0.44750	9.924	0.40230	0.47462	0.46558
CU	63	1.91600	6.383	1.97738	1.93875	1.83187
MO	98	0.45150	3.010	0.46561	0.44445	0.44444
NI	60	1.85900	1.849	1.84693	1.91936	1.81071
SB	121	1.07200	0.649	1.07843	1.07842	1.05916
SE	78	1.85900	2.622	1.83481	1.90738	1.83481
SN	120	2.29800	30.431	3.03664	2.09816	1.75920
SR	88	0.54300	9.770	0.57283	0.57284	0.48332
ZN	66	15.57000	16.635	12.93480	16.00560	17.76950
BI-2	209	105873.00000	1.134	105053.00000	107251.00000	105315.00000
PB	208	0.98350	2.338	0.95054	1.00823	0.99174
TL	203	0.51920	23.305	0.56485	0.39368	0.59908
SC-1	45	441066.00000	1.900	449312.00000	441332.00000	432554.00000
GE-1	72	44016.30000	1.994	45029.80000	43524.60000	43494.60000
GE-2	72	13747.80000	2.718	14178.30000	13507.40000	13557.70000
GE-3	72	112037.00000	5.404	118342.00000	111501.00000	106267.00000
TB-2	159	172760.00000	1.323	175193.00000	172426.00000	170660.00000

USP83 2688

Run Name: 1120308E03
Tube Number: 8
Sample Number: **ICSA**

Date/Time: 07/22/2011 22:25:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	63049.40000	1.949	62018.10000	62720.80000	64409.40000
SC-3	45	1585810	1.599	1601390	1556560	1599480
AL	27	9983.00000	1.093	9914.47000	9956.48000	10078.00000
B	11	28.15000	3.171	28.86690	28.09860	27.48450
BE	9	0.00286	187.500	0.00129	0.00343	0.00386
CA	44	9530.00000	1.902	9189.41000	9647.32000	9753.27000
CR	52	0.12820	52.317	0.11269	0.14943	0.12248
FE	57	10370.00000	1.145	10296.70000	10353.50000	10459.80000
K	39	11910.00000	1.016	11758.90000	11937.60000	12033.50000
MG	24	10010.00000	1.224	9986.35000	9884.25000	10159.40000
MN	55	0.37020	2.444	0.37020	0.37020	0.37020
NA	23	10090.00000	1.377	10038.30000	10072.10000	10159.60000
TI	47	202.60000	3.030	193.89300	200.22600	213.68200
V	51	-0.11510	-51.138	-0.16742	-0.11510	-0.06278
IN-1	115	286533.00000	1.247	283707.00000	290550.00000	285342.00000
IN-2	115	50176.90000	0.775	50430.40000	49729.00000	50371.40000
AG	107	0.02394	39.570	0.01890	0.03024	0.02268
AS	75	-0.16640	-17.837	-0.16576	-0.16767	-0.16576
BA	137	0.08028	77.043	0.05352	0.10704	0.08028
CD	111	0.06369	67.986	0.06716	0.05790	0.06601
CO	59	0.00837	252.449	0.00739	0.00591	0.01182
CU	63	0.10770	128.598	0.10811	0.11332	0.10168
MO	98	203.90000	2.679	198.64300	205.77100	207.28700
NI	60	0.06090	52.085	0.05220	0.07178	0.05872
SB	121	-0.00020	-26529.900	-0.00013	-0.00024	-0.00024
SE	78	0.01031	429.098	0.01988	0.00884	0.00221
SN	120	0.07755	50.600	0.08512	0.06242	0.08512
SR	88	0.48000	22.396	0.39600	0.46800	0.57600
ZN	66	0.15830	64.435	0.21919	0.14612	0.10959
BI-2	209	102683.00000	1.019	101604.00000	103692.00000	102753.00000
PB	208	0.01875	18.683	0.01936	0.01936	0.01752
TL	203	-0.00309	-173.950	-0.00348	-0.00348	-0.00232
SC-1	45	431561.00000	1.108	426046.00000	434536.00000	434100.00000
GE-1	72	42752.00000	4.063	41217.10000	44638.30000	42400.80000
GE-2	72	13604.50000	3.694	14158.30000	13177.40000	13477.70000
GE-3	72	108852.00000	1.785	110019.00000	106609.00000	109928.00000
TB-2	159	176566.00000	0.699	175556.00000	176200.00000	177942.00000

USP83 2699

Run Name: 1120308E03
Tube Number: 9
Sample Number: **ICSAB**

Date/Time: 07/22/2011 22:29:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	61686.40000	1.026	61686.60000	61053.50000	62319.00000
SC-3	45	1589250	2.650	1637530	1570180	1560040
AL	27	9899.00000	0.626	9830.58000	9848.93000	10017.50000
B	11	18.09000	3.078	18.28210	18.38880	17.59910
BE	9	0.00120	227.243	0.00085	0.00127	0.00149
CA	44	9449.00000	0.822	9401.06000	9439.72000	9506.22000
CR	52	19.38000	2.071	19.83590	18.94970	19.35430
FE	57	10180.00000	1.133	10245.10000	10144.20000	10150.70000
K	39	11980.00000	1.150	11898.60000	12009.40000	12032.10000
MG	24	10010.00000	2.035	9995.84000	10117.60000	9916.53000
MN	55	19.65000	1.519	19.94720	19.15470	19.84810
NA	23	10030.00000	0.435	9985.04000	9964.21000	10140.70000
TI	47	203.50000	5.685	200.39600	214.16400	195.94100
V	51	-0.12100	-44.736	-0.16394	-0.05855	-0.14052
IN-1	115	282364.00000	2.793	291104.00000	280208.00000	275781.00000
IN-2	115	49108.90000	0.929	49035.70000	49597.10000	48694.00000
AG	107	19.68000	1.857	19.40990	19.69830	19.93180
AS	75	19.51000	1.457	19.22170	19.95690	19.35140
BA	137	0.08470	147.816	0.08470	0.02823	0.14117
CD	111	19.21000	2.197	18.72310	19.52970	19.37710
CO	59	18.69000	3.668	18.60590	18.22180	19.24230
CU	63	19.45000	1.357	19.22470	19.57760	19.54770
MO	98	203.90000	0.781	201.76300	206.97200	202.96500
NI	60	19.66000	6.648	18.19220	20.22300	20.56480
SB	121	0.00329	1765.060	0.00214	0.00429	0.00343
SE	78	0.02169	49.977	0.02679	0.01914	0.01914
SN	120	0.07748	161.848	0.04649	0.06392	0.12203
SR	88	0.40520	17.643	0.39328	0.35753	0.46479
ZN	66	19.92000	6.185	21.28930	19.23530	19.23540
BI-2	209	102627.00000	0.764	103380.00000	101816.00000	102684.00000
PB	208	0.01879	33.614	0.01941	0.02033	0.01663
TL	203	0.00622	310.833	0.00339	0.00509	0.01018
SC-1	45	425345.00000	0.970	429895.00000	424299.00000	421842.00000
GE-1	72	42139.80000	0.378	42079.80000	42019.30000	42320.30000
GE-2	72	13063.80000	4.583	13597.70000	12416.60000	13177.20000
GE-3	72	108459.00000	2.126	111036.00000	107751.00000	106590.00000
TB-2	159	172452.00000	0.705	171064.00000	173318.00000	172975.00000

USP93 2618

Run Name: 1120308E03
Tube Number: 10
Sample Number: CCV

Date/Time: 07/22/2011 22:32:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	62218.60000	1.728	60982.80000	62741.00000	62932.10000
SC-3	45	1615090	1.484	1626030	1587610	1631640
AL	27	2500.00000	0.230	2456.81000	2518.75000	2524.45000
B	11	246.10000	1.826	248.38200	245.99100	243.92800
BE	9	24.81000	3.655	25.66800	24.73350	24.02860
CA	44	2517.00000	3.901	2560.82000	2447.77000	2542.41000
CR	52	233.70000	1.535	232.68200	235.54100	232.87800
FE	57	2545.00000	1.227	2511.86000	2530.26000	2592.89000
K	39	2485.00000	0.754	2453.69000	2496.73000	2504.58000
MG	24	2317.00000	1.258	2299.91000	2307.42000	2343.68000
MN	55	253.20000	1.604	251.25400	256.85500	251.49100
NA	23	2299.00000	1.044	2274.04000	2298.92000	2324.04000
TI	47	251.80000	1.158	245.24200	257.28900	252.87000
V	51	245.30000	1.576	243.64700	248.42600	243.82700
IN-1	115	281372.00000	2.900	275761.00000	290731.00000	277625.00000
IN-2	115	50232.40000	0.576	50254.60000	50510.00000	49932.60000
AG	107	24.16000	3.961	23.72960	23.63970	25.11080
AS	75	239.90000	1.046	238.42800	239.94700	241.32500
BA	137	246.50000	0.494	247.43000	246.45900	245.61100
CD	111	24.53000	3.057	24.28700	24.09410	25.20890
CO	59	230.70000	0.527	229.59600	231.96300	230.54100
CU	63	228.40000	0.597	227.50000	229.13400	228.56600
MO	98	24.36000	3.001	24.01960	24.00840	25.05200
NI	60	247.10000	1.195	249.51600	245.12600	246.65800
SB	121	24.87000	8.102	22.59870	26.47290	25.53850
SE	78	24.66000	3.225	24.93860	24.65270	24.38870
SN	120	24.44000	2.025	23.97040	25.07980	24.26980
SR	88	24.62000	4.171	25.78230	23.94270	24.13500
ZN	66	241.00000	2.512	244.77900	235.33000	242.89100
BI-2	209	102438.00000	2.176	100164.00000	102533.00000	104618.00000
PB	208	25.77000	1.780	25.70140	25.42230	26.18630
TL	203	25.88000	4.699	26.63160	25.61610	25.39220
SC-1	45	413743.00000	2.792	406317.00000	427050.00000	407861.00000
GE-1	72	40819.40000	3.209	40294.70000	42310.70000	39852.70000
GE-2	72	13564.30000	2.664	13147.20000	13767.90000	13777.90000
GE-3	72	106775.00000	2.505	106902.00000	104039.00000	109384.00000
TB-2	159	173828.00000	0.910	174180.00000	175204.00000	172100.00000

USPS3 2611

Run Name: 1120308E03
Tube Number: 11
Sample Number: CCB

Date/Time: 07/22/2011 22:35:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	61435.40000	1.729	62018.80000	60209.30000	62078.10000
SC-3	45	1540930	0.384	1547770	1537340	1537690
AL	27	-0.32340	-165.955	-0.37730	-0.37730	-0.21560
B	11	35.38000	2.708	36.36490	35.36390	34.41120
BE	9	0.00940	27.860	0.00909	0.00818	0.01091
CA	44	20.14000	271.450	27.18910	19.13280	14.09800
CR	52	-0.12630	-23.238	-0.14926	-0.10908	-0.12056
FE	57	0.61440	283.040	0.47151	0.60011	0.77158
K	39	17.54000	95.382	18.36350	17.10130	17.15520
MG	24	0.43620	44.108	0.32715	0.54525	0.43620
MN	55	0.01606	78.705	0.01700	0.01700	0.01417
NA	23	-2.56600	-458.301	-2.51479	-2.57805	-2.60516
TI	47	-0.25790	-90.268	-0.77370	0.00000	0.00000
V	51	-0.16270	-11.567	-0.12203	-0.19524	-0.17083
IN-1	115	283479.00000	0.434	284674.00000	282216.00000	283545.00000
IN-2	115	49935.80000	3.072	49748.50000	48504.00000	51555.00000
AG	107	-0.00007	-4232.380	-0.00006	-0.00006	-0.00009
AS	75	0.13310	294.515	0.11657	0.15409	0.12863
BA	137	-0.02077	-449.591	-0.04673	0.00000	-0.01558
CD	111	-0.02700	-306.519	-0.02622	-0.03088	-0.02389
CO	59	-0.01376	-29.549	-0.01376	-0.01179	-0.01573
CU	63	0.08777	8.337	0.08752	0.08549	0.09030
MO	98	0.08548	37.775	0.08843	0.10611	0.06190
NI	60	-0.03071	-83.556	-0.02632	-0.03948	-0.02632
SB	121	0.03224	206.793	0.02508	0.04299	0.02866
SE	78	0.03619	29.704	0.04136	0.03619	0.03102
SN	120	0.05476	37.126	0.05328	0.04884	0.06216
SR	88	-0.02077	-49.591	-0.01869	-0.01869	-0.02492
ZN	66	0.06940	169.164	0.02313	0.09253	0.09253
BI-2	209	102018.00000	1.248	100564.00000	102553.00000	102937.00000
PB	208	0.00027	4615.670	0.00023	0.00021	0.00037
TL	203	0.01569	121.734	0.01345	0.01009	0.02353
SC-1	45	421406.00000	1.037	418062.00000	419807.00000	426348.00000
GE-1	72	42012.90000	3.144	43374.20000	41929.10000	40735.50000
GE-2	72	13177.20000	3.357	13447.50000	13417.50000	12666.70000
GE-3	72	104837.00000	1.899	107075.00000	103264.00000	104171.00000
TB-2	159	170571.00000	1.566	171110.00000	167672.00000	172932.00000

USF03 2512

Run Name: 1120308E03
Tube Number: 12
Sample Number: **PBS**

Date/Time: 07/22/2011 22:38:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	60357.20000	2.305	58974.20000	60340.40000	61756.90000
SC-3	45	1501090	3.266	1552140	1496740	1454390
AL	27	13.23000	23.386	15.87600	11.11310	12.70080
B	11	24.20000	3.208	24.27590	24.71370	23.61040
BE	9	0.00466	118.970	0.00508	0.00254	0.00635
CA	44	48.10000	13.611	46.93250	49.73440	47.63310
CR	52	0.04407	234.400	0.03684	0.05852	0.03685
FE	57	18.33000	8.434	19.20860	17.70240	18.07900
K	39	1.17800	1237.690	1.19322	1.15448	1.18630
MG	24	2.34900	27.510	2.78604	1.72077	2.54019
MN	55	0.51190	19.316	0.40952	0.58016	0.54603
NA	23	-0.38910	-835.261	-0.38353	-0.38716	-0.39661
TI	47	0.14760	633.604	0.00000	0.00000	0.44280
V	51	0.07214	94.414	0.08766	0.06849	0.06027
IN-1	115	275360.00000	1.142	272581.00000	274728.00000	278772.00000
IN-2	115	48495.20000	0.825	48567.80000	48063.80000	48853.90000
AG	107	0.00866	108.634	0.00473	0.00945	0.01181
AS	75	-0.20070	-152.217	-0.23455	-0.19103	-0.17652
BA	137	0.14850	40.781	0.14850	0.11137	0.18563
CD	111	0.01694	476.860	0.01936	0.01694	0.01452
CO	59	-0.00723	-197.095	-0.00904	-0.00813	-0.00452
CU	63	1.32600	15.633	1.30989	1.24630	1.42180
MO	98	0.03272	1.500	0.03272	0.03272	0.03272
NI	60	0.24560	81.026	0.16373	0.39569	0.17738
SB	121	0.10880	58.621	0.08160	0.12693	0.11787
SE	78	0.04217	66.991	0.02875	0.05750	0.04025
SN	120	9.78900	5.026	10.30020	9.23569	9.83110
SR	88	0.20380	41.659	0.13757	0.24456	0.22927
ZN	66	21.80000	6.560	23.30270	20.25100	21.84630
BI-2	209	105471.00000	0.244	105417.00000	105751.00000	105245.00000
PB	208	0.08328	19.308	0.09033	0.07111	0.08841
TL	203	0.02633	90.239	0.02194	0.03950	0.01755
SC-1	45	400105.00000	1.946	397034.00000	394322.00000	408958.00000
GE-1	72	39692.30000	1.792	40244.20000	38889.80000	39942.90000
GE-2	72	13284.00000	1.937	13437.60000	12986.90000	13427.40000
GE-3	72	105902.00000	3.109	109030.00000	106208.00000	102468.00000
TB-2	159	169183.00000	0.813	167829.00000	169139.00000	170580.00000

USP83 2613

Run Name: 1120308E03
Tube Number: 13
Sample Number: **6339384**

Date/Time: 07/22/2011 22:41:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.00 Final Vol: 1.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	59282.40000	2.218	57779.40000	59848.30000	60219.50000
SC-3	45	1510630	1.587	1516540	1531090	1484250
AL	27	129.80000	9.638	137.49100	117.80200	134.10700
B	11	69.71000	0.956	70.69670	70.41830	68.01490
BE	9	0.47170	0.204	0.47455	0.47796	0.46260
CA	44	176.20000	6.680	169.34100	185.16800	174.09100
CR	52	1.86900	3.777	1.87937	1.82499	1.90264
FE	57	131.60000	2.823	126.97000	136.89000	130.93900
K	39	216.60000	8.578	217.53100	213.60800	218.66000
MG	24	89.75000	5.454	81.91900	93.47880	93.85220
MN	55	1.44500	13.315	1.61348	1.34132	1.38020
NA	23	187.80000	5.210	186.38800	187.49200	189.52100
TI	47	4.96200	21.080	5.48432	5.48432	3.91735
V	51	0.53230	28.799	0.62379	0.43249	0.54062
IN-1	115	277338.00000	2.615	284572.00000	277373.00000	270068.00000
IN-2	115	47658.50000	0.439	47695.60000	47433.40000	47846.50000
AG	107	0.47820	5.893	0.44754	0.49660	0.49046
AS	75	1.79600	22.082	1.61862	1.96230	1.80708
BA	137	2.12600	5.536	2.12599	2.00452	2.24748
CD	111	0.52670	26.030	0.45064	0.54762	0.58184
CO	59	0.40150	3.589	0.39507	0.41435	0.39508
CU	63	3.17700	1.977	3.14179	3.19870	3.19052
MO	98	0.50110	22.052	0.59673	0.51640	0.39017
NI	60	2.07000	10.478	2.22067	1.82761	2.16171
SB	121	0.95110	20.671	0.89675	0.81522	1.14132
SE	78	1.79800	12.703	1.74704	2.05278	1.59418
SN	120	10.99000	6.438	10.73860	10.40760	11.82380
SR	88	0.63080	3.297	0.65052	0.61109	0.63080
ZN	66	19.16000	7.985	17.42020	19.88890	20.17090
BI-2	209	103030.00000	1.122	102552.00000	102189.00000	104348.00000
PB	208	1.02200	3.692	1.02294	0.97491	1.06816
TL	203	0.49380	11.434	0.51718	0.52594	0.43828
SC-1	45	403464.00000	1.343	406649.00000	406536.00000	397208.00000
GE-1	72	40604.90000	0.278	40544.70000	40734.90000	40535.00000
GE-2	72	12856.90000	0.743	12796.80000	12967.00000	12806.90000
GE-3	72	107756.00000	2.440	108859.00000	109654.00000	104755.00000
TB-2	159	168465.00000	2.523	163678.00000	169923.00000	171795.00000

US883 2614

Run Name: 1120308E03 Date/Time: 07/22/2011 22:44:00
Tube Number: 14 Batch: 111931026003A
Sample Number: **LCSS** Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 25.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

				INTEGRATIONS		
Element	MASS	CONC. MEAN (ppb)	%RSD	#1	#2	#3
SC-2	45	63099.80000	2.209	62570.50000	62047.90000	64680.80000
SC-3	45	1574890	2.497	1609170	1583520	1531980
AL	27	6186.00000	2.509	6126.21000	6242.30000	6189.48000
B	11	77.90000	1.261	79.06500	79.40900	75.22610
BE	9	40.82000	1.783	41.03300	41.82850	39.59850
CA	44	4910.00000	0.640	4881.58000	4793.53000	5054.88000
CR	52	40.57000	4.843	38.89190	42.10630	40.71180
FE	57	9321.00000	3.217	9298.59000	9435.85000	9228.57000
K	39	908.50000	4.101	904.13100	916.43300	904.93700
MG	24	1447.00000	3.337	1436.07000	1470.76000	1434.17000
MN	55	252.70000	1.387	252.13100	250.99300	254.97700
NA	23	287.90000	2.894	286.89200	285.54300	291.26500
TI	47	262.10000	2.803	268.04200	255.76200	262.49500
V	51	46.63000	1.887	47.16850	45.74510	46.97640
IN-1	115	287000.00000	0.433	287554.00000	287869.00000	285576.00000
IN-2	115	48999.50000	1.088	48383.90000	49318.00000	49296.80000
AG	107	22.99000	2.713	23.36130	22.56770	23.04110
AS	75	52.66000	1.712	51.93400	52.16570	53.88030
BA	137	137.80000	0.951	137.55200	137.73900	138.11000
CD	111	51.12000	2.203	51.74270	50.65310	50.96430
CO	59	55.90000	2.277	56.20750	54.83420	56.65840
CU	63	34.39000	1.604	33.62390	35.21260	34.33340
MO	98	39.66000	2.006	39.98550	39.16160	39.83290
NI	60	53.39000	1.345	53.51190	53.53200	53.12620
SB	121	30.63000	2.684	29.41450	30.86330	31.61210
SE	78	88.02000	1.272	87.51280	87.67470	88.87250
SN	120	57.15000	2.273	57.66450	56.17680	57.60870
SR	88	32.72000	1.749	32.88840	32.91020	32.36140
ZN	66	122.10000	2.135	123.50500	120.94800	121.84700
BI-2	209	103569.00000	1.955	105689.00000	101654.00000	103362.00000
PB	208	59.14000	1.098	59.70120	58.69590	59.02290
TL	203	99.92000	2.212	100.05000	100.47800	99.23270
SC-1	45	426297.00000	0.805	422603.00000	426900.00000	429387.00000
GE-1	72	42257.20000	0.923	41809.00000	42441.10000	42521.60000
GE-2	72	13547.60000	3.469	13858.00000	13777.80000	13006.90000
GE-3	72	107847.00000	3.784	112005.00000	107689.00000	103848.00000
TB-2	159	173128.00000	0.559	172041.00000	173898.00000	173445.00000

USF03 2615

Run Name: 1120308E03 Date/Time: 07/22/2011 22:47:00
Tube Number: 15 Batch: 111931026003A
Sample Number: **LCSSD** Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 25.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	63187.10000	1.439	62269.80000	63203.50000	64088.00000
SC-3	45	1598440	1.054	1586640	1590970	1617720
AL	27	5943.00000	0.548	5892.70000	5918.05000	6018.25000
B	11	77.16000	2.693	78.23190	77.36620	75.88190
BE	9	38.78000	3.146	39.80300	38.39610	38.14090
CA	44	4572.00000	0.813	4473.66000	4611.88000	4630.46000
CR	52	38.04000	1.689	37.50260	37.40100	39.21640
FE	57	8837.00000	1.189	8735.32000	8929.38000	8846.30000
K	39	843.30000	2.570	845.91700	841.52400	842.45900
MG	24	1366.00000	3.336	1397.56000	1349.19000	1351.24000
MN	55	253.70000	1.430	253.58900	250.13700	257.37400
NA	23	280.00000	4.746	281.90500	277.64700	280.44800
TI	47	245.60000	3.577	237.95600	255.75000	243.09500
V	51	45.77000	3.247	46.77420	44.69820	45.83760
IN-1	115	281193.00000	0.626	283175.00000	279811.00000	280592.00000
IN-2	115	49415.10000	0.465	49155.30000	49499.10000	49591.00000
AG	107	22.04000	3.337	22.71710	21.42380	21.97910
AS	75	51.16000	3.344	51.76430	52.26920	49.44640
BA	137	131.90000	0.678	130.91800	131.40800	133.37400
CD	111	47.43000	1.725	47.58050	46.57820	48.13130
CO	59	55.42000	2.021	56.04780	54.26940	55.94280
CU	63	33.36000	2.158	32.69710	33.13180	34.25110
MO	98	38.32000	0.283	38.14860	38.47560	38.33580
NI	60	52.47000	2.373	53.38060	51.27100	52.75840
SB	121	29.62000	2.817	30.32360	29.60430	28.93210
SE	78	86.04000	2.570	84.57140	87.94180	85.60680
SN	120	54.25000	1.877	54.76560	53.20080	54.78360
SR	88	30.70000	2.422	30.16300	30.27190	31.66510
ZN	66	192.00000	0.883	189.34800	192.22900	194.42300
BI-2	209	104966.00000	1.083	106243.00000	104065.00000	104590.00000
PB	208	56.64000	0.522	57.62160	56.16210	56.13620
TL	203	97.59000	0.638	99.14470	97.10210	96.52310
SC-1	45	421201.00000	1.266	424987.00000	423513.00000	415104.00000
GE-1	72	41558.00000	1.328	41367.30000	42180.20000	41126.60000
GE-2	72	13477.50000	2.909	13347.40000	13167.10000	13918.00000
GE-3	72	106970.00000	0.949	107649.00000	107457.00000	105803.00000
TB-2	159	172406.00000	0.537	173469.00000	171960.00000	171788.00000

USP63 2612

Run Name: 1120308E03
Tube Number: 16
Sample Number: **6339377**

Date/Time: 07/22/2011 22:51:00
Batch: 111931026003A
Class: U*********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	65505.10000	1.502	64761.70000	65132.80000	66620.80000
SC-3	45	1702580	3.703	1751960	1724220	1631560
AL	27	155800.00000	0.751	153993.00000	156110.00000	157297.00000
B	11	93.82000	3.320	94.50930	93.68270	93.26800
BE	9	4.64800	3.027	4.64852	4.69779	4.59769
CA	44	23390.00000	1.162	22821.30000	23349.00000	23999.70000
CR	52	171.30000	1.236	169.19800	172.52500	172.17700
FE	57	184600.00000	0.533	183635.00000	182996.00000	187168.00000
K	39	32610.00000	1.213	32360.20000	32743.50000	32726.30000
MG	24	43700.00000	1.246	43447.50000	43837.00000	43815.50000
MN	55	1802.00000	0.553	1776.47000	1785.27000	1844.26000
NA	23	555.30000	2.166	551.13300	557.65100	557.11700
TI	47	8686.00000	1.455	8731.00000	8585.09000	8741.92000
V	51	362.90000	0.222	358.59900	360.13200	369.97000
IN-1	115	262240.00000	0.659	261950.00000	264096.00000	260674.00000
IN-2	115	45496.20000	1.650	45118.10000	46360.70000	45009.90000
AG	107	0.16840	24.228	0.15826	0.21304	0.13391
AS	75	36.88000	1.838	36.57760	38.22040	35.84200
BA	137	659.30000	2.187	647.15900	662.00200	668.74000
CD	111	0.90370	5.233	0.92390	0.92389	0.86331
CO	59	57.76000	1.290	57.43210	58.04360	57.80430
CU	63	88.35000	0.920	87.42350	89.34950	88.27700
MO	98	2.19800	6.137	2.11457	2.15213	2.32729
NI	60	125.90000	1.256	123.98000	127.35200	126.36800
SB	121	0.79700	38.695	0.74848	0.58216	1.06036
SE	78	1.57700	5.973	1.54247	1.69211	1.49642
SN	120	15.50000	2.917	15.29340	15.39030	15.81630
SR	88	325.20000	3.383	317.18200	324.10000	334.31800
ZN	66	485.90000	1.429	488.94200	488.26500	480.49300
BI-2	209	98954.50000	0.596	99314.40000	98274.00000	99275.00000
PB	208	66.92000	0.536	66.80010	66.81290	67.14700
TL	203	2.46400	7.054	2.66724	2.31474	2.41002
SC-1	45	454094.00000	1.183	460294.00000	451200.00000	450786.00000
GE-1	72	37371.60000	1.466	36742.80000	37746.60000	37625.50000
GE-2	72	13374.00000	1.880	13347.30000	13137.10000	13637.80000
GE-3	72	99299.20000	4.349	103888.00000	98698.50000	95311.50000
TB-2	159	161140.00000	0.339	161770.00000	160809.00000	160842.00000

USP83 2617

Run Name: 1120308E03
Tube Number: 17
Sample Number: **6339377**

Date/Time: 07/22/2011 22:54:00
Batch: 111931026003A
Class: UP********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	65035.90000	1.433	64177.80000	66027.80000	64902.00000
SC-3	45	1694670	3.205	1712950	1737480	1633580
AL	27	151700.00000	1.765	146630.00000	155648.00000	152821.00000
B	11	184.80000	2.236	186.93800	185.37200	182.09000
BE	9	5.50500	4.605	5.54833	5.40128	5.56539
CA	44	22940.00000	1.965	23079.20000	23295.10000	22445.70000
CR	52	170.20000	0.438	167.22300	173.55300	169.82400
FE	57	176500.00000	0.423	175028.00000	178772.00000	175700.00000
K	39	31790.00000	1.646	30780.40000	32539.70000	32049.90000
MG	24	42440.00000	0.665	41594.30000	43365.90000	42359.90000
MN	55	1754.00000	0.999	1737.61000	1760.70000	1763.70000
NA	23	870.80000	2.522	874.00700	869.36800	869.02500
TI	47	8363.00000	1.263	8368.65000	8400.82000	8319.53000
V	51	353.10000	0.574	350.64900	356.72400	351.92700
IN-1	115	263957.00000	1.994	269599.00000	263094.00000	259178.00000
IN-2	115	44477.60000	0.681	44826.50000	44281.00000	44325.40000
AG	107	1.18000	8.983	1.24903	1.23565	1.05532
AS	75	39.20000	2.628	38.43640	39.87130	39.29230
BA	137	653.70000	0.591	655.23100	654.90100	650.96800
CD	111	2.00000	7.080	2.04546	2.08441	1.87013
CO	59	57.56000	2.766	56.28240	58.71880	57.67880
CU	63	91.39000	0.470	91.87980	90.72970	91.56050
MO	98	3.13800	9.538	2.82547	3.35206	3.23647
NI	60	127.90000	0.578	128.40800	128.18300	127.10800
SB	121	2.50100	9.060	2.27511	2.61394	2.61395
SE	78	5.35600	1.297	5.54230	5.33271	5.19299
SN	120	19.58000	2.894	19.08390	19.77840	19.87770
SR	88	323.70000	2.015	322.21300	329.77800	319.10900
ZN	66	512.70000	1.325	510.25100	517.51700	510.33200
BI-2	209	97321.90000	2.667	94958.60000	100101.00000	96905.70000
PB	208	67.45000	0.489	66.18480	69.13860	67.02660
TL	203	3.45800	4.641	3.53905	3.53902	3.29593
SC-1	45	453802.00000	1.485	461057.00000	452612.00000	447737.00000
GE-1	72	37555.60000	3.462	38919.80000	36331.90000	37415.20000
GE-2	72	13123.70000	1.938	12976.80000	13417.40000	12977.00000
GE-3	72	99775.30000	2.818	102396.00000	100126.00000	96804.10000
TB-2	159	157486.00000	1.935	159794.00000	158632.00000	154033.00000

USF83 2618

Run Name: 1120308E03
Tube Number: 18
Sample Number: **6339380**

Date/Time: 07/22/2011 22:57:00
Batch: 111931026003A
Class: D*********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	64779.60000	1.488	65886.60000	64322.90000	64129.20000
SC-3	45	1696400	1.015	1709150	1676830	1703230
AL	27	150700.00000	1.481	154773.00000	150694.00000	146633.00000
B	11	96.18000	2.327	96.75970	97.27890	94.50130
BE	9	4.75000	0.218	4.78347	4.68616	4.78037
CA	44	22940.00000	1.401	23703.70000	22580.30000	22536.00000
CR	52	166.90000	2.830	174.32800	166.01000	160.36300
FE	57	182400.00000	1.828	187630.00000	182828.00000	176742.00000
K	39	31760.00000	1.561	32837.00000	31102.00000	31341.00000
MG	24	43410.00000	1.461	44472.70000	43509.60000	42247.70000
MN	55	1869.00000	2.032	1905.72000	1816.00000	1885.28000
NA	23	561.20000	4.027	555.91600	564.17500	563.50900
TI	47	8247.00000	1.434	8524.36000	8136.81000	8079.83000
V	51	353.20000	2.024	367.53500	347.03300	345.03200
IN-1	115	256176.00000	2.033	250950.00000	261363.00000	256214.00000
IN-2	115	43629.90000	1.670	44439.10000	43425.30000	43025.40000
AG	107	0.24130	24.497	0.22826	0.19565	0.29999
AS	75	38.16000	3.399	39.85040	38.36490	36.26460
BA	137	677.50000	1.345	679.81800	677.12800	675.55400
CD	111	0.94490	10.206	0.95561	0.88333	0.99576
CO	59	60.70000	2.092	63.08670	60.43450	58.57880
CU	63	89.23000	1.013	90.61910	89.79050	87.28040
MO	98	2.04300	11.150	2.34230	1.91285	1.87384
NI	60	130.90000	1.296	134.78900	128.42000	129.49100
SB	121	0.88850	31.885	0.83710	1.14551	0.68289
SE	78	1.53800	12.919	1.72288	1.41606	1.47506
SN	120	15.64000	1.450	15.72070	15.53910	15.66020
SR	88	336.40000	1.344	347.33300	334.48100	327.38600
ZN	66	517.30000	0.723	524.45900	519.17300	508.26800
BI-2	209	95160.90000	3.125	98296.20000	94805.40000	92381.00000
PB	208	67.50000	0.929	70.36370	66.61620	65.52020
TL	203	2.48300	6.367	2.40034	2.48962	2.55904
SC-1	45	447546.00000	1.556	439523.00000	451994.00000	451121.00000
GE-1	72	36282.40000	2.612	35339.80000	37235.10000	36272.30000
GE-2	72	12730.10000	2.439	13047.10000	12716.80000	12426.50000
GE-3	72	100045.00000	0.242	100320.00000	99866.40000	99947.70000
TB-2	159	157296.00000	1.008	159126.00000	156422.00000	156342.00000

USF83 2619

Run Name: 1120308E03
Tube Number: 19
Sample Number: **6339378**

Date/Time: 07/22/2011 23:00:00
Batch: 111931026003A
Class: R*********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	66157.90000	0.147	66118.10000	66086.90000	66268.60000
SC-3	45	1658840	2.337	1654600	1699560	1622370
AL	27	159300.00000	2.539	154612.00000	160685.00000	162603.00000
B	11	310.30000	3.081	317.07800	307.16200	306.66000
BE	9	8.11900	3.923	8.11478	7.99139	8.25083
CA	44	26010.00000	2.357	25703.10000	25572.40000	26754.50000
CR	52	206.80000	0.957	204.89400	206.23000	209.27600
FE	57	182300.00000	0.634	180865.00000	182891.00000	183143.00000
K	39	40060.00000	1.142	39595.10000	40479.20000	40105.70000
MG	24	44030.00000	1.450	43271.50000	44422.20000	44396.30000
MN	55	1840.00000	0.698	1835.08000	1827.51000	1857.41000
NA	23	8656.00000	2.426	8501.17000	8568.91000	8897.92000
TI	47	8938.00000	0.876	8844.09000	8988.47000	8981.44000
V	51	406.70000	0.309	407.04800	407.11600	405.93600
IN-1	115	259875.00000	0.236	260524.00000	259795.00000	259307.00000
IN-2	115	45236.90000	1.842	45128.50000	44462.90000	46119.20000
AG	107	47.78000	1.859	46.64650	47.54130	49.15220
AS	75	48.18000	1.718	48.23010	48.05500	48.25500
BA	137	709.40000	1.156	704.55100	706.51900	717.13000
CD	111	5.89700	3.364	6.07156	5.62591	5.99354
CO	59	282.90000	1.516	281.84200	282.52300	284.33600
CU	63	130.00000	1.627	130.98900	128.90000	130.11100
MO	98	42.25000	2.954	40.78740	42.58580	43.37680
NI	60	172.00000	1.125	172.50000	170.38300	173.11600
SB	121	2.40700	8.970	2.44658	2.54161	2.23281
SE	78	10.43000	2.728	10.69510	10.11340	10.48140
SN	120	59.40000	1.611	58.64630	59.47230	60.08140
SR	88	359.40000	1.675	353.82000	359.94300	364.43700
ZN	66	549.00000	1.254	542.70700	547.37100	556.92200
BI-2	209	96942.00000	1.066	95775.20000	97741.60000	97309.10000
PB	208	79.82000	2.513	80.99770	78.65870	79.80360
TL	203	4.22000	3.564	4.03433	4.22981	4.39586
SC-1	45	448216.00000	1.001	446242.00000	445056.00000	453350.00000
GE-1	72	36887.20000	1.927	37636.20000	36803.50000	36221.90000
GE-2	72	12917.00000	2.346	12676.60000	13257.30000	12816.90000
GE-3	72	98379.30000	0.264	98658.40000	98144.90000	98334.60000
TB-2	159	158676.00000	0.634	158156.00000	159835.00000	158035.00000

USF03 2529

Run Name: 1120308E03
Tube Number: 20
Sample Number: **6339379**

Date/Time: 07/22/2011 23:03:00
Batch: 111931026003A
Class: M*********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	64653.80000	0.559	64559.80000	64349.00000	65052.70000
SC-3	45	1690850	1.998	1727960	1661900	1682680
AL	27	166200.00000	1.225	164074.00000	167566.00000	166960.00000
B	11	321.70000	0.128	328.54600	316.65800	319.89600
BE	9	8.16600	1.135	8.24305	8.10653	8.14842
CA	44	26430.00000	1.252	26059.80000	26309.50000	26920.60000
CR	52	215.00000	1.803	210.26000	216.68800	218.05300
FE	57	181600.00000	1.317	178632.00000	182557.00000	183611.00000
K	39	43600.00000	1.470	42858.40000	43491.90000	44449.70000
MG	24	44560.00000	1.582	44156.70000	45158.80000	44364.50000
MN	55	1844.00000	1.030	1819.98000	1850.20000	1861.82000
NA	23	8708.00000	2.137	8650.17000	8862.38000	8611.45000
TI	47	9310.00000	1.235	9226.97000	9398.50000	9304.54000
V	51	412.80000	1.498	405.24100	412.93400	420.22500
IN-1	115	256755.00000	0.981	259115.00000	257050.00000	254100.00000
IN-2	115	43998.50000	1.089	44281.20000	43445.20000	44269.00000
AG	107	48.95000	2.176	49.88700	48.94540	48.01760
AS	75	48.81000	2.874	48.69000	49.69310	48.04690
BA	137	732.70000	1.767	729.44800	716.45600	752.19600
CD	111	5.97500	6.254	5.66535	5.90618	6.35347
CO	59	285.20000	0.629	285.09800	281.91100	288.59100
CU	63	133.00000	1.852	131.65000	133.90500	133.44500
MO	98	43.72000	1.593	44.24040	43.71530	43.20430
NI	60	175.10000	2.271	171.62100	175.09300	178.58600
SB	121	2.29300	4.119	2.40645	2.23629	2.23626
SE	78	10.02000	7.766	10.33650	9.17063	10.55290
SN	120	59.71000	2.460	59.63630	57.77730	61.71630
SR	88	366.10000	0.529	366.21200	362.65400	369.43400
ZN	66	548.40000	2.642	535.20500	548.50600	561.48900
BI-2	209	95574.50000	2.405	94738.50000	98174.10000	93810.90000
PB	208	88.26000	2.487	88.07410	88.21120	88.49470
TL	203	4.10800	9.766	4.37592	3.76068	4.18740
SC-1	45	447865.00000	0.352	449076.00000	448437.00000	446082.00000
GE-1	72	37117.90000	1.942	36342.10000	37766.70000	37244.90000
GE-2	72	13430.90000	1.850	13227.30000	13707.80000	13357.50000
GE-3	72	97912.00000	4.350	102829.00000	95382.60000	95524.50000
TB-2	159	157019.00000	1.289	154771.00000	158698.00000	157587.00000

USP83 2621

Run Name: 1120308E03 Date/Time: 07/22/2011 23:06:00
Tube Number: 21 Batch: 111931026003A
Sample Number: **6339377** Class: UL********

Initial Vol: 1.01 Final Vol: 100.00 DF: 10.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	60678.30000	0.967	61345.00000	60239.40000	60450.40000
SC-3	45	1553900	2.986	1558160	1598030	1505520
AL	27	39420.00000	1.686	39086.40000	39440.50000	39733.10000
B	11	58.20000	1.463	59.18640	59.06180	56.35170
BE	9	1.12500	2.167	1.13898	1.12891	1.10711
CA	44	5628.00000	1.197	5668.80000	5660.51000	5554.69000
CR	52	40.53000	2.800	39.82000	40.28820	41.48190
FE	57	41710.00000	1.938	41240.80000	41992.80000	41896.40000
K	39	7325.00000	1.768	7272.23000	7379.10000	7323.67000
MG	24	10950.00000	3.330	10656.00000	11001.80000	11192.10000
MN	55	433.10000	2.501	425.61300	438.50500	435.18100
NA	23	114.20000	7.675	113.41100	113.87400	115.31600
TI	47	2037.00000	3.189	1984.75000	2068.72000	2057.54000
V	51	85.78000	2.110	84.65900	85.87410	86.80690
IN-1	115	265378.00000	0.425	264253.00000	266512.00000	265370.00000
IN-2	115	45725.30000	3.287	44028.50000	46257.40000	46890.00000
AG	107	0.05134	34.651	0.03594	0.05134	0.06674
AS	75	8.37500	10.740	8.86647	8.14974	8.10879
BA	137	148.20000	2.796	146.89400	149.74900	147.95700
CD	111	0.28190	49.947	0.31921	0.28605	0.24044
CO	59	13.11000	2.982	12.76080	13.57200	12.99730
CU	63	20.03000	3.776	20.00210	19.64750	20.44040
MO	98	0.57970	16.533	0.64009	0.60385	0.49516
NI	60	28.40000	0.725	27.29620	28.55140	29.35250
SB	121	0.13440	74.554	0.14166	0.08718	0.17436
SE	78	0.32160	10.040	0.34235	0.29048	0.33197
SN	120	3.57200	5.543	3.46035	3.79525	3.46040
SR	88	72.82000	3.215	72.51340	73.50410	72.44250
ZN	66	113.60000	4.349	113.69900	115.99500	111.10600
BI-2	209	97121.10000	1.020	96069.20000	97258.10000	98036.20000
PB	208	14.64000	0.653	14.54660	14.70540	14.66800
TL	203	0.45960	12.820	0.47194	0.39790	0.50896
SC-1	45	413202.00000	0.725	416391.00000	412763.00000	410451.00000
GE-1	72	38779.50000	1.765	38980.30000	38017.00000	39341.10000
GE-2	72	12780.20000	0.666	12776.90000	12696.70000	12866.90000
GE-3	72	103515.00000	2.476	106136.00000	103394.00000	101015.00000
TB-2	159	165343.00000	1.229	166990.00000	163071.00000	165966.00000

USP03 2622

Run Name: 1120308E03 Date/Time: 07/22/2011 23:09:00
Tube Number: 22
Sample Number: **CCV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	59513.00000	1.574	58461.70000	59817.70000	60259.70000
SC-3	45	1553470	2.600	1599890	1534050	1526460
AL	27	2499.00000	2.000	2494.83000	2527.98000	2474.20000
B	11	264.30000	0.964	270.28100	263.83500	258.78400
BE	9	25.19000	0.746	25.78620	25.08390	24.69980
CA	44	2507.00000	4.771	2580.29000	2508.84000	2431.87000
CR	52	237.50000	2.675	239.95900	237.97600	234.56500
FE	57	2573.00000	3.880	2641.09000	2538.69000	2539.22000
K	39	2510.00000	0.521	2476.90000	2512.19000	2540.91000
MG	24	2325.00000	0.639	2300.88000	2327.44000	2346.68000
MN	55	255.30000	1.394	254.25300	256.77200	254.87400
NA	23	2335.00000	1.695	2322.98000	2354.16000	2327.86000
TI	47	258.40000	3.167	257.28200	265.67700	252.24200
V	51	250.20000	1.844	250.08000	252.04000	248.48000
IN-1	115	276029.00000	0.613	277390.00000	276564.00000	274132.00000
IN-2	115	47522.00000	0.950	47997.80000	47468.90000	47099.20000
AG	107	25.39000	1.053	25.33520	25.53800	25.29680
AS	75	250.10000	1.285	250.19100	248.63300	251.47600
BA	137	250.80000	1.834	250.52300	248.02500	253.85200
CD	111	25.32000	3.373	24.70020	26.09470	25.16510
CO	59	238.80000	0.918	238.96200	238.60800	238.83000
CU	63	235.60000	0.186	238.31500	234.85300	233.63200
MO	98	25.53000	2.260	25.78460	26.07550	24.72990
NI	60	259.30000	1.422	259.02600	257.73900	261.13500
SB	121	25.34000	2.630	24.88220	25.91830	25.21950
SE	78	25.43000	3.633	26.08720	26.00870	24.19410
SN	120	25.45000	5.497	24.12150	26.48680	25.74170
SR	88	25.90000	3.638	27.06770	24.89810	25.73420
ZN	66	251.80000	1.245	254.79800	254.36900	246.23400
BI-2	209	98756.30000	1.191	99899.20000	98818.90000	97550.70000
PB	208	25.44000	1.537	25.28370	25.72520	25.31110
TL	203	25.97000	0.134	26.30170	25.99250	25.61580
SC-1	45	411596.00000	1.887	414242.00000	417693.00000	402854.00000
GE-1	72	40615.00000	1.053	40976.40000	40725.50000	40143.10000
GE-2	72	13090.50000	2.638	12716.60000	13157.20000	13397.50000
GE-3	72	105461.00000	2.965	108707.00000	102467.00000	105210.00000
TB-2	159	166562.00000	1.574	163867.00000	166717.00000	169103.00000

USP03 2623

Run Name: 1120308E03
Tube Number: 23
Sample Number: **CCB**

Date/Time: 07/22/2011 23:12:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	59640.60000	2.134	58211.10000	60058.90000	60651.70000
SC-3	45	1516840	4.732	1596420	1497130	1456980
AL	27	2.61800	56.990	2.04888	3.58552	2.21960
B	11	43.36000	1.648	44.97400	43.46920	41.63680
BE	9	0.01041	70.010	0.00878	0.00781	0.01464
CA	44	-11.30000	-174.602	-12.65280	-9.78801	-11.45920
CR	52	-0.09982	-45.522	-0.07794	-0.09845	-0.12307
FE	57	4.78800	24.373	4.13507	5.22329	5.00565
K	39	46.02000	42.090	46.41640	46.77610	44.86750
MG	24	1.07600	13.271	1.10045	0.95373	1.17382
MN	55	0.08117	38.512	0.08429	0.06556	0.09366
NA	23	-11.52000	-90.191	-11.56800	-11.41500	-11.57700
TI	47	0.44650	4.049	0.44650	0.44650	0.44650
V	51	-0.06088	-102.760	-0.05276	-0.08523	-0.04465
IN-1	115	270902.00000	3.261	267973.00000	263905.00000	280828.00000
IN-2	115	47321.40000	1.666	46847.30000	48231.30000	46885.70000
AG	107	0.00494	122.596	0.00329	0.00659	0.00494
AS	75	-0.06861	-213.963	-0.06278	-0.07391	-0.06914
BA	137	0.11190	29.616	0.10071	0.13428	0.10071
CD	111	0.03415	270.337	0.03807	0.03669	0.02769
CO	59	0.00275	378.634	0.00228	0.00342	0.00256
CU	63	0.18560	40.286	0.19047	0.18614	0.18019
MO	98	0.06217	66.189	0.03391	0.09326	0.05934
NI	60	-0.01862	-232.223	-0.01862	-0.01117	-0.02607
SB	121	0.00974	602.094	0.00635	0.01271	0.01016
SE	78	0.01687	67.161	0.02024	0.01350	0.01687
SN	120	0.22390	46.539	0.16251	0.22751	0.28168
SR	88	0.00646	428.660	0.00745	0.00447	0.00745
ZN	66	0.00853	1445.490	0.00000	0.01280	0.01280
BI-2	209	97436.00000	1.610	97106.70000	99143.70000	96057.50000
PB	208	0.00541	102.938	0.00613	0.00505	0.00505
TL	203	0.01156	299.481	0.00578	0.00578	0.02312
SC-1	45	397126.00000	2.835	390701.00000	390544.00000	410133.00000
GE-1	72	39331.30000	0.900	38930.60000	39461.40000	39601.80000
GE-2	72	13133.90000	3.506	12716.70000	13057.00000	13628.10000
GE-3	72	106285.00000	4.929	111976.00000	105220.00000	101661.00000
TB-2	159	165445.00000	2.918	160387.00000	170001.00000	165947.00000

USF03 2624

Run Name: 1120308E03
Tube Number: 24
Sample Number: **6339368**

Date/Time: 07/22/2011 23:15:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	67709.50000	1.675	66489.80000	67907.20000	68731.40000
SC-3	45	1742410	1.383	1766470	1742470	1718280
AL	27	92120.00000	1.704	91216.30000	90578.20000	94565.40000
B	11	70.58000	2.111	72.93600	69.12640	69.67760
BE	9	2.77800	3.248	2.90514	2.68590	2.74296
CA	44	20450.00000	1.642	20324.60000	20649.10000	20376.20000
CR	52	154.90000	1.581	149.93200	157.97500	156.79300
FE	57	145600.00000	0.841	142334.00000	147439.00000	147027.00000
K	39	23730.00000	1.571	23561.70000	23381.70000	24246.70000
MG	24	41670.00000	0.639	40888.20000	42074.30000	42047.50000
MN	55	1371.00000	0.753	1336.56000	1385.69000	1390.76000
NA	23	677.60000	9.662	710.62700	663.62400	658.54900
TI	47	6593.00000	0.857	6499.86000	6547.26000	6731.88000
V	51	308.50000	1.164	304.91100	305.25200	315.33700
IN-1	115	260691.00000	2.231	267361.00000	256672.00000	258040.00000
IN-2	115	44257.20000	2.083	43405.00000	45235.70000	44130.90000
AG	107	0.13130	25.765	0.14771	0.09847	0.14771
AS	75	34.29000	2.839	33.18530	34.44060	35.24400
BA	137	430.60000	1.964	430.09500	441.18500	420.52000
CD	111	1.04000	11.144	1.07276	1.09732	0.94992
CO	59	44.11000	1.740	43.11780	44.39460	44.81760
CU	63	59.15000	1.899	59.17880	59.49320	58.77800
MO	98	2.10300	9.330	2.19723	2.23578	1.87599
NI	60	78.83000	3.317	80.26090	78.64280	77.58630
SB	121	0.49240	13.119	0.53716	0.47961	0.46043
SE	78	1.27900	4.701	1.26748	1.32509	1.24443
SN	120	15.33000	5.437	15.82110	14.80570	15.36320
SR	88	212.00000	1.990	209.72800	211.81400	214.45800
ZN	66	423.20000	2.211	422.74100	422.04700	424.81200
BI-2	209	94960.30000	4.206	94072.20000	91484.70000	99324.00000
PB	208	54.86000	3.451	55.23400	54.17890	55.16710
TL	203	1.60200	9.538	1.71077	1.59213	1.50310
SC-1	45	456422.00000	1.038	461890.00000	453601.00000	453775.00000
GE-1	72	36335.40000	3.245	37685.90000	35810.70000	35509.70000
GE-2	72	13420.80000	2.258	13097.10000	13467.60000	13697.60000
GE-3	72	98422.50000	2.064	100562.00000	96520.50000	98185.00000
TB-2	159	164728.00000	0.329	164113.00000	164935.00000	165136.00000

USF03 2625

Run Name: 1120308E03
Tube Number: 25
Sample Number: **6339369**

Date/Time: 07/22/2011 23:18:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	65856.40000	2.522	64750.80000	65052.20000	67766.30000
SC-3	45	1712200	3.442	1758010	1732880	1645710
AL	27	75690.00000	2.724	74916.80000	76559.30000	75593.90000
B	11	54.84000	1.126	55.69630	55.58350	53.24010
BE	9	2.39200	2.824	2.37723	2.46127	2.33750
CA	44	20520.00000	1.267	20401.70000	20328.30000	20829.90000
CR	52	161.10000	0.618	159.36200	159.19700	164.74100
FE	57	134100.00000	1.122	133345.00000	132496.00000	136459.00000
K	39	21890.00000	0.910	21743.70000	21544.70000	22381.60000
MG	24	39320.00000	0.490	38840.00000	38865.60000	40254.40000
MN	55	1334.00000	1.560	1320.71000	1332.73000	1348.56000
NA	23	439.20000	3.989	437.38600	438.62600	441.58900
TI	47	5607.00000	1.221	5590.00000	5513.98000	5717.02000
V	51	294.10000	2.766	295.79000	293.08600	293.42400
IN-1	115	255209.00000	1.015	256144.00000	252281.00000	257203.00000
IN-2	115	43829.00000	2.006	44798.20000	43082.80000	43606.20000
AG	107	0.15280	12.683	0.16954	0.15699	0.13187
AS	75	27.53000	4.094	26.95540	27.40510	28.22950
BA	137	382.70000	3.616	375.12500	382.48900	390.48600
CD	111	1.10100	15.059	1.07853	1.00270	1.22178
CO	59	38.29000	2.740	38.00010	37.81740	39.05250
CU	63	37.59000	3.490	37.01590	37.94040	37.81360
MO	98	1.56500	10.064	1.77999	1.44460	1.47041
NI	60	65.20000	4.779	63.36330	64.38420	67.85250
SB	121	0.65680	11.979	0.60149	0.66372	0.70520
SE	78	0.90970	12.037	0.88260	0.81292	1.03357
SN	120	14.92000	3.558	14.68550	15.14770	14.92670
SR	88	163.20000	3.244	160.77000	162.30400	166.52600
ZN	66	363.80000	3.279	359.20400	358.89200	373.30500
BI-2	209	95258.40000	0.732	96026.90000	95081.50000	94666.80000
PB	208	70.87000	0.506	71.02650	70.96320	70.62030
TL	203	1.21700	13.657	1.05712	1.37036	1.22352
SC-1	45	452208.00000	1.393	445370.00000	457780.00000	453474.00000
GE-1	72	36345.70000	1.987	36352.20000	37064.50000	35620.30000
GE-2	72	13217.30000	1.135	13367.40000	13067.30000	13217.30000
GE-3	72	98210.90000	2.617	100039.00000	99321.90000	95271.90000
TB-2	159	166430.00000	1.161	168644.00000	165086.00000	165559.00000

USPS 2626

Run Name: 1120308E03
Tube Number: 26
Sample Number: **6339370**

Date/Time: 07/22/2011 23:21:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.00 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	64479.60000	0.527	64791.50000	64117.50000	64529.70000
SC-3	45	1670480	2.243	1657800	1712640	1641000
AL	27	110100.00000	0.682	110058.00000	109205.00000	111036.00000
B	11	65.97000	3.100	66.82220	65.39350	65.69430
BE	9	3.42300	5.963	3.59293	3.29491	3.38117
CA	44	19350.00000	2.128	18989.20000	19353.40000	19707.40000
CR	52	152.10000	0.847	151.72900	152.65400	151.91700
FE	57	151000.00000	0.945	150231.00000	150299.00000	152469.00000
K	39	27910.00000	1.034	27716.70000	27925.20000	28088.10000
MG	24	35570.00000	1.695	35044.40000	35698.90000	35966.70000
MN	55	1613.00000	0.803	1605.95000	1613.14000	1619.91000
NA	23	433.60000	0.948	434.81700	429.69200	436.29100
TI	47	6820.00000	0.805	6790.33000	6821.73000	6847.95000
V	51	309.10000	0.564	311.52700	308.44400	307.32900
IN-1	115	255968.00000	0.415	256373.00000	254763.00000	256767.00000
IN-2	115	43238.60000	1.630	42491.90000	43892.30000	43331.50000
AG	107	0.12730	22.231	0.10643	0.11895	0.15652
AS	75	33.99000	3.625	34.52090	33.31360	34.13560
BA	137	542.40000	2.777	550.02400	539.43600	537.74000
CD	111	1.02300	12.522	1.06748	0.94238	1.05914
CO	59	48.41000	2.628	49.02800	48.38010	47.82180
CU	63	61.93000	2.779	62.49000	62.90760	60.39240
MO	98	2.31700	3.444	2.21167	2.33018	2.40915
NI	60	94.22000	3.680	96.55200	93.81330	92.29470
SB	121	0.67670	22.344	0.65555	0.57096	0.80359
SE	78	1.33900	9.686	1.31551	1.22154	1.47995
SN	120	14.57000	7.104	14.52250	15.70260	13.48490
SR	88	216.60000	1.572	216.40700	216.65900	216.73400
ZN	66	404.40000	2.044	401.33700	400.94300	410.91900
BI-2	209	94246.70000	1.450	95704.90000	92993.00000	94042.30000
PB	208	49.72000	0.449	50.52150	49.26200	49.37650
TL	203	1.82800	8.414	1.69505	1.94435	1.84461
SC-1	45	446013.00000	1.773	436896.00000	450982.00000	450161.00000
GE-1	72	36656.40000	0.454	36502.80000	36633.00000	36833.40000
GE-2	72	12579.90000	3.029	12166.20000	12916.80000	12656.60000
GE-3	72	98328.30000	1.749	97801.80000	100250.00000	96933.20000
TB-2	159	161366.00000	0.641	161009.00000	160556.00000	162531.00000

USP83 2627

Run Name: 1120308E03
Tube Number: 27
Sample Number: **6339371**

Date/Time: 07/22/2011 23:25:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	65005.50000	1.384	64128.10000	65926.60000	64961.80000
SC-3	45	1681720	2.684	1733600	1651420	1660150
AL	27	115500.00000	1.972	112699.00000	115749.00000	118053.00000
B	11	65.64000	3.236	67.73180	66.39690	62.79130
BE	9	3.57000	5.776	3.72930	3.67948	3.30122
CA	44	20210.00000	0.948	19929.10000	20309.30000	20391.70000
CR	52	158.30000	1.559	158.85100	159.94300	156.10700
FE	57	155500.00000	0.971	154911.00000	156193.00000	155396.00000
K	39	29470.00000	0.779	29329.40000	29784.70000	29295.80000
MG	24	36330.00000	1.846	36200.30000	36065.40000	36724.30000
MN	55	1705.00000	1.121	1697.99000	1707.88000	1709.13000
NA	23	503.70000	3.415	503.38800	500.15300	507.55900
TI	47	6725.00000	1.596	6706.86000	6696.24000	6771.90000
V	51	320.70000	0.821	313.36800	326.50500	322.22800
IN-1	115	254457.00000	1.203	256765.00000	255622.00000	250984.00000
IN-2	115	43422.70000	1.203	42860.00000	43516.00000	43892.20000
AG	107	0.18890	13.568	0.16099	0.19319	0.21251
AS	75	36.03000	5.598	36.55200	37.32210	34.21590
BA	137	580.20000	1.221	569.65000	576.33500	594.61500
CD	111	1.23500	23.425	1.34968	1.00564	1.34968
CO	59	51.10000	0.448	50.65590	51.22950	51.41460
CU	63	68.18000	2.364	69.02990	67.86520	67.64490
MO	98	2.64200	7.093	2.42765	2.63763	2.86072
NI	60	102.10000	1.696	102.48900	102.35200	101.45900
SB	121	0.68150	33.045	0.61124	0.88525	0.54801
SE	78	1.46800	6.596	1.46800	1.57455	1.36145
SN	120	15.22000	4.733	15.45000	15.65260	14.55740
SR	88	243.90000	2.522	235.88300	242.34800	253.46900
ZN	66	438.50000	1.520	440.27200	437.22300	438.00500
BI-2	209	93814.40000	1.245	92541.80000	94837.80000	94063.70000
PB	208	63.01000	1.182	62.98870	63.43880	62.60240
TL	203	1.99400	4.234	2.02404	2.05414	1.90382
SC-1	45	447656.00000	0.529	449816.00000	448032.00000	445121.00000
GE-1	72	35917.90000	2.041	35771.10000	36713.40000	35269.10000
GE-2	72	12950.30000	4.128	12787.00000	13547.60000	12516.50000
GE-3	72	98073.50000	4.012	102607.00000	96079.80000	95533.90000
TB-2	159	159398.00000	1.808	156099.00000	161429.00000	160667.00000

USF03 2625

Run Name: 1120308E03
Tube Number: 28
Sample Number: **6339372**

Date/Time: 07/22/2011 23:28:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	65290.40000	0.396	65253.70000	65052.20000	65565.20000
SC-3	45	1676550	2.808	1671970	1725740	1631930
AL	27	107800.00000	1.933	105381.00000	108166.00000	109853.00000
B	11	65.38000	1.387	66.18690	66.73650	63.21660
BE	9	3.31800	1.851	3.36847	3.41688	3.16865
CA	44	20790.00000	1.729	20469.70000	20630.80000	21269.40000
CR	52	169.20000	1.439	166.46900	169.06100	172.07000
FE	57	155500.00000	1.454	152824.00000	155922.00000	157754.00000
K	39	26520.00000	2.126	25986.80000	27005.50000	26567.70000
MG	24	36290.00000	2.322	35389.90000	36234.70000	37245.40000
MN	55	1765.00000	1.550	1732.71000	1770.47000	1791.82000
NA	23	434.20000	0.885	433.28200	431.11300	438.20500
TI	47	6717.00000	0.635	6686.18000	6670.29000	6794.53000
V	51	335.70000	1.210	331.09600	338.02600	337.97800
IN-1	115	253765.00000	2.926	255927.00000	245498.00000	259870.00000
IN-2	115	43698.30000	0.170	43654.20000	43656.80000	43784.00000
AG	107	0.12130	27.931	0.14186	0.08635	0.13569
AS	75	40.65000	2.524	41.71100	40.24780	39.99110
BA	137	513.90000	0.077	513.55200	513.69300	514.45500
CD	111	1.10200	11.688	1.17528	1.00617	1.12455
CO	59	48.33000	0.568	48.07870	48.17400	48.73730
CU	63	58.10000	1.033	57.95030	57.51680	58.83290
MO	98	2.86400	5.276	2.76824	2.78128	3.04248
NI	60	92.31000	1.256	91.74120	91.37690	93.81200
SB	121	0.49130	44.515	0.31029	0.54301	0.62059
SE	78	2.12900	8.690	2.33671	2.04911	2.00118
SN	120	14.38000	5.451	14.04450	13.80310	15.29240
SR	88	254.50000	2.836	246.05500	257.03600	260.41000
ZN	66	457.60000	2.701	444.25300	468.89600	459.65000
BI-2	209	94681.00000	0.340	94314.30000	94919.30000	94809.30000
PB	208	41.84000	1.178	42.04720	41.38600	42.08680
TL	203	1.89200	3.773	1.82583	1.97471	1.87547
SC-1	45	440995.00000	1.870	438551.00000	434245.00000	450187.00000
GE-1	72	36218.50000	3.460	36823.50000	34778.10000	37053.90000
GE-2	72	13370.80000	2.626	13707.80000	13007.10000	13397.40000
GE-3	72	99057.10000	2.867	97820.40000	102306.00000	97045.20000
TB-2	159	161172.00000	1.398	159137.00000	163593.00000	160787.00000

USF63 2629

Run Name: 1120308E03
Tube Number: 29
Sample Number: **6339373**

Date/Time: 07/22/2011 23:31:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	69170.20000	1.696	70460.00000	68168.00000	68882.50000
SC-3	45	1760830	1.714	1794240	1735550	1752710
AL	27	83560.00000	1.869	83331.10000	83531.00000	83817.80000
B	11	46.52000	3.472	47.99160	46.94740	44.62090
BE	9	2.60700	2.799	2.73870	2.51144	2.57086
CA	44	23070.00000	0.254	23444.70000	22796.30000	22969.00000
CR	52	149.90000	2.073	150.03600	151.12600	148.53800
FE	57	140600.00000	1.585	141060.00000	140856.00000	139883.00000
K	39	11880.00000	2.222	11805.40000	11852.50000	11982.10000
MG	24	44220.00000	2.352	44007.80000	44626.60000	44025.50000
MN	55	1220.00000	1.165	1226.19000	1210.48000	1223.33000
NA	23	464.40000	3.613	462.92200	462.38100	467.89700
TI	47	5887.00000	2.230	5919.30000	5952.23000	5789.48000
V	51	320.80000	1.000	323.53300	319.32600	319.54000
IN-1	115	260722.00000	1.936	265660.00000	260934.00000	255571.00000
IN-2	115	44623.80000	0.545	44453.60000	44902.20000	44515.60000
AG	107	0.14110	48.838	0.12883	0.08589	0.20858
AS	75	31.18000	1.930	30.58600	31.99670	30.95730
BA	137	477.40000	1.824	485.14500	478.17700	468.87800
CD	111	0.65690	15.253	0.71785	0.62981	0.62304
CO	59	42.41000	1.717	42.95230	41.92380	42.35380
CU	63	34.03000	0.867	34.02060	33.92440	34.14500
MO	98	1.44500	6.021	1.53374	1.38161	1.41965
NI	60	68.26000	0.620	68.48320	68.39350	67.90320
SB	121	0.42550	39.765	0.29177	0.52883	0.45590
SE	78	1.31400	3.363	1.31400	1.29095	1.33705
SN	120	14.44000	7.285	15.57740	14.03900	13.70360
SR	88	308.90000	1.098	311.56400	309.51900	305.61700
ZN	66	337.60000	1.041	340.21200	338.68900	333.90000
BI-2	209	93202.20000	2.251	95584.90000	91632.40000	92389.20000
PB	208	32.44000	2.297	32.75830	31.55250	33.00920
TL	203	1.28700	7.354	1.41036	1.17030	1.28034
SC-1	45	471163.00000	2.381	484013.00000	466189.00000	463288.00000
GE-1	72	36810.20000	2.507	37746.30000	35900.90000	36783.50000
GE-2	72	13681.10000	1.708	13427.50000	13727.80000	13888.00000
GE-3	72	100747.00000	2.768	103806.00000	98344.50000	100089.00000
TB-2	159	166666.00000	2.161	170720.00000	163838.00000	165440.00000

USF03 2638

Run Name: 1120308E03
Tube Number: 30
Sample Number: **6339374**

Date/Time: 07/22/2011 23:34:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	65772.90000	0.853	66007.50000	66178.60000	65132.60000
SC-3	45	1712410	3.320	1766120	1718260	1652850
AL	27	115400.00000	2.127	113431.00000	115986.00000	116783.00000
B	11	58.69000	1.934	59.42310	58.98440	57.66250
BE	9	3.63900	3.537	3.60330	3.71654	3.59716
CA	44	21730.00000	2.869	21702.80000	21305.60000	22181.60000
CR	52	171.40000	1.387	170.90800	170.84900	172.44300
FE	57	159200.00000	1.435	158576.00000	158751.00000	160273.00000
K	39	20150.00000	4.391	19510.80000	20027.90000	20911.40000
MG	24	38440.00000	1.030	38122.60000	38859.30000	38338.20000
MN	55	1553.00000	1.658	1566.50000	1533.77000	1558.73000
NA	23	422.00000	7.692	411.46400	418.51100	436.02500
TI	47	6375.00000	1.711	6297.41000	6399.18000	6428.41000
V	51	351.40000	2.310	346.60200	350.45100	357.14700
IN-1	115	252724.00000	1.341	252415.00000	249501.00000	256255.00000
IN-2	115	44516.30000	2.162	43681.50000	45568.80000	44298.70000
AG	107	0.18410	25.986	0.14435	0.17573	0.23222
AS	75	44.07000	4.325	44.13740	42.99850	45.07400
BA	137	603.10000	1.123	599.52900	613.18100	596.58900
CD	111	0.93300	11.576	0.97220	0.87812	0.94868
CO	59	45.07000	2.438	44.60320	44.88390	45.72280
CU	63	55.58000	2.024	54.63440	55.75550	56.35020
MO	98	2.69900	4.442	2.61360	2.66482	2.81859
NI	60	91.71000	1.776	90.92800	91.97800	92.22390
SB	121	0.75690	30.797	0.94613	0.73587	0.58870
SE	78	1.41400	8.897	1.28690	1.51330	1.44180
SN	120	15.52000	3.535	15.84990	15.55300	15.15710
SR	88	264.40000	3.064	262.08900	261.45300	269.65800
ZN	66	358.40000	3.817	355.73000	351.45800	368.01200
BI-2	209	94761.50000	1.195	94314.50000	93921.20000	96048.80000
PB	208	58.91000	1.300	58.78460	59.06870	58.87670
TL	203	1.66900	4.314	1.74156	1.60302	1.66241
SC-1	45	444093.00000	1.285	443501.00000	438707.00000	450071.00000
GE-1	72	36349.10000	1.228	36713.20000	35851.30000	36482.70000
GE-2	72	12973.70000	3.794	12586.40000	12807.00000	13527.60000
GE-3	72	98707.40000	2.352	101187.00000	98353.60000	96582.00000
TB-2	159	160608.00000	0.467	160910.00000	159754.00000	161161.00000

USF03 2631

Run Name: 1120308E03
Tube Number: 31
Sample Number: **6339375**

Date/Time: 07/22/2011 23:37:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	64453.60000	1.494	64239.30000	63616.00000	65505.30000
SC-3	45	1663080	0.769	1677740	1654240	1657240
AL	27	99940.00000	1.382	100731.00000	99076.70000	100012.00000
B	11	52.71000	1.159	53.71040	52.49310	51.92650
BE	9	3.11500	1.217	3.18477	3.08720	3.07303
CA	44	19740.00000	1.341	19820.40000	19643.40000	19756.20000
CR	52	158.00000	1.043	157.19300	157.71200	159.09500
FE	57	148000.00000	0.839	148335.00000	146690.00000	148975.00000
K	39	22490.00000	1.463	22183.70000	22562.80000	22723.50000
MG	24	35260.00000	0.777	35251.20000	35006.90000	35521.90000
MN	55	1538.00000	0.960	1517.19000	1531.36000	1565.45000
NA	23	390.00000	1.748	390.72300	386.68000	392.59700
TI	47	6207.00000	0.896	6122.75000	6150.09000	6348.16000
V	51	319.60000	0.576	316.42300	316.34000	326.03800
IN-1	115	254581.00000	1.989	253107.00000	260218.00000	250420.00000
IN-2	115	43570.80000	0.669	43355.00000	43902.70000	43454.60000
AG	107	0.11700	20.667	0.09237	0.13547	0.12316
AS	75	34.30000	1.814	34.63160	33.91740	34.35100
BA	137	479.60000	1.408	469.70900	485.31500	483.77600
CD	111	1.00900	11.794	0.93771	1.10222	0.98706
CO	59	44.58000	1.627	44.79420	44.07990	44.86590
CU	63	53.44000	0.818	53.51690	53.97240	52.83060
MO	98	2.20600	5.403	2.08851	2.34959	2.17990
NI	60	85.63000	1.840	86.35270	84.48080	86.05650
SB	121	0.60790	21.303	0.67620	0.65571	0.49178
SE	78	1.21400	10.733	1.17864	1.13149	1.33186
SN	120	14.86000	6.670	15.88420	14.18610	14.50970
SR	88	154.40000	1.966	154.93100	152.09900	156.17000
ZN	66	367.30000	1.726	368.98800	373.89700	359.01500
BI-2	209	94506.00000	0.587	95141.00000	94112.80000	94264.30000
PB	208	43.36000	0.749	43.93760	42.82690	43.31550
TL	203	1.67700	12.493	1.52814	1.59761	1.90524
SC-1	45	445069.00000	0.892	440586.00000	448131.00000	446490.00000
GE-1	72	36068.20000	2.256	35530.10000	37004.30000	35670.30000
GE-2	72	13130.50000	3.471	13147.10000	12666.60000	13577.70000
GE-3	72	96470.90000	1.661	98052.10000	94849.30000	96511.20000
TB-2	159	161648.00000	0.676	162904.00000	161123.00000	160918.00000

USF03 2632

Run Name: 1120308E03
Tube Number: 32
Sample Number: **6339376**

Date/Time: 07/22/2011 23:40:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	63971.00000	0.791	64509.70000	63896.80000	63506.40000
SC-3	45	1656920	4.139	1735740	1610900	1624120
AL	27	107900.00000	3.609	105570.00000	106702.00000	111428.00000
B	11	65.15000	1.708	67.01430	64.05010	64.38560
BE	9	3.33800	5.914	3.26415	3.37018	3.37967
CA	44	17390.00000	2.244	17095.40000	17521.00000	17553.70000
CR	52	161.10000	1.858	159.71800	160.46700	163.11500
FE	57	158400.00000	1.909	156291.00000	160518.00000	158391.00000
K	39	22970.00000	2.292	22570.80000	23171.20000	23168.00000
MG	24	40560.00000	2.303	40047.40000	40370.60000	41262.00000
MN	55	1473.00000	1.709	1462.25000	1467.66000	1489.09000
NA	23	584.60000	1.923	582.02900	587.97100	583.80000
TI	47	6145.00000	1.140	6119.42000	6155.41000	6160.18000
V	51	292.40000	1.409	290.67500	292.19900	294.32700
IN-1	115	254027.00000	2.364	248161.00000	260162.00000	253760.00000
IN-2	115	43504.60000	1.232	42895.50000	43713.80000	43904.60000
AG	107	0.09446	29.272	0.12059	0.07838	0.08441
AS	75	31.83000	7.392	33.72050	29.98190	31.78760
BA	137	443.10000	1.019	436.09600	441.13800	452.06700
CD	111	0.57720	26.438	0.53581	0.52275	0.67304
CO	59	57.59000	1.152	57.37300	57.99470	57.40230
CU	63	64.78000	0.445	63.87020	65.37330	65.09640
MO	98	2.22900	7.290	2.34242	2.06761	2.27698
NI	60	101.90000	1.469	99.15540	102.08200	104.46200
SB	121	0.68930	16.510	0.73854	0.73854	0.59082
SE	78	0.87300	8.048	0.79152	0.96612	0.86136
SN	120	13.83000	3.106	13.58070	14.34880	13.56040
SR	88	145.10000	0.550	143.48300	144.87600	146.94100
ZN	66	426.60000	0.572	423.42500	427.25000	429.12500
BI-2	209	92957.10000	1.934	93336.20000	90999.60000	94535.70000
PB	208	45.75000	2.380	45.37680	46.02810	45.84510
TL	203	1.93900	7.200	1.80074	2.02330	1.99296
SC-1	45	438163.00000	1.275	431829.00000	440270.00000	442390.00000
GE-1	72	35533.30000	1.484	34927.80000	35780.90000	35891.20000
GE-2	72	12559.90000	2.992	12196.30000	12946.90000	12536.60000
GE-3	72	97327.60000	3.430	100572.00000	93902.80000	97508.10000
TB-2	159	158793.00000	0.424	158400.00000	158409.00000	159571.00000

USP83 2633

Run Name: 1120308E03
Tube Number: 33
Sample Number: **6339385**

Date/Time: 07/22/2011 23:43:00
Batch: 111931026003A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	63779.40000	1.966	62961.80000	63153.00000	65223.30000
SC-3	45	1666330	3.611	1730650	1656920	1611420
AL	27	145200.00000	1.224	141707.00000	145636.00000	148257.00000
B	11	81.30000	0.853	84.04720	80.48040	79.37230
BE	9	4.32900	0.475	4.51240	4.28131	4.19329
CA	44	22880.00000	2.982	23163.40000	22834.30000	22642.20000
CR	52	168.00000	2.396	170.32100	165.16000	168.51900
FE	57	178700.00000	2.499	177758.00000	180628.00000	177714.00000
K	39	30270.00000	1.499	29701.60000	30480.90000	30627.40000
MG	24	43330.00000	1.117	43122.70000	43115.80000	43751.60000
MN	55	1746.00000	1.717	1755.55000	1724.62000	1757.83000
NA	23	759.30000	2.784	744.81200	767.05800	766.03000
TI	47	8093.00000	1.381	8071.50000	8060.04000	8147.46000
V	51	354.10000	1.966	350.69200	357.00500	354.60300
IN-1	115	257315.00000	1.959	263129.00000	254641.00000	254173.00000
IN-2	115	44058.00000	1.140	44410.20000	43482.70000	44281.30000
AG	107	0.16370	37.831	0.18259	0.20777	0.10074
AS	75	36.38000	1.810	36.28720	36.61620	36.23660
BA	137	638.40000	2.614	641.72500	647.49000	625.98600
CD	111	1.00600	18.797	0.87855	1.09820	1.04125
CO	59	56.59000	1.201	57.63840	56.00030	56.13130
CU	63	84.93000	1.660	84.61440	85.37970	84.79590
MO	98	1.55000	6.929	1.68273	1.45153	1.51574
NI	60	120.00000	1.857	123.42600	117.86900	118.70500
SB	121	0.66790	23.941	0.72299	0.51642	0.76430
SE	78	1.36100	8.428	1.26351	1.39220	1.42729
SN	120	15.35000	4.138	15.58990	15.70990	14.75020
SR	88	334.00000	0.582	334.43100	330.51800	337.05100
ZN	66	490.30000	2.099	505.52300	481.60900	483.76800
BI-2	209	95261.00000	1.317	95543.10000	93889.00000	96350.80000
PB	208	61.68000	2.046	62.01500	61.96940	61.05570
TL	203	2.32000	15.573	2.07907	2.69293	2.18799
SC-1	45	441129.00000	1.992	451232.00000	435263.00000	436891.00000
GE-1	72	36606.30000	1.964	37415.30000	36362.20000	36041.40000
GE-2	72	13007.00000	2.879	13437.50000	12826.80000	12756.70000
GE-3	72	97713.60000	3.369	100612.00000	98394.90000	94133.80000
TB-2	159	155867.00000	1.537	158215.00000	155962.00000	153425.00000

US593 2634

Run Name: 1120308E03
Tube Number: 34
Sample Number: **CCV**

Date/Time: 07/22/2011 23:46:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	59499.80000	0.490	59586.40000	59174.60000	59738.40000
SC-3	45	1494660	3.080	1540650	1448570	1494760
AL	27	2400.00000	3.068	2348.92000	2470.26000	2380.82000
B	11	244.70000	1.431	249.07800	240.80500	244.21700
BE	9	24.83000	3.248	25.22870	24.97360	24.28770
CA	44	2400.00000	1.914	2450.26000	2378.98000	2370.76000
CR	52	231.00000	0.924	232.20000	227.31600	233.48400
FE	57	2552.00000	0.951	2529.13000	2558.76000	2568.12000
K	39	2486.00000	0.562	2478.77000	2484.91000	2494.32000
MG	24	2241.00000	1.640	2206.06000	2263.73000	2253.21000
MN	55	246.80000	1.609	246.20500	249.80400	244.39100
NA	23	2196.00000	2.399	2149.29000	2217.36000	2221.35000
TI	47	246.40000	3.274	239.26100	253.53700	246.40100
V	51	247.00000	2.688	239.80000	248.30000	252.90000
IN-1	115	272604.00000	2.021	268374.00000	278832.00000	270604.00000
IN-2	115	47244.30000	0.651	47044.70000	47089.40000	47598.60000
AG	107	25.10000	0.245	24.97450	24.96830	25.35720
AS	75	249.10000	1.495	245.14000	252.42200	249.73800
BA	137	252.10000	2.065	256.19800	251.37200	248.73000
CD	111	25.06000	0.944	25.20830	24.92310	25.04860
CO	59	235.30000	0.371	233.30100	235.04000	237.55900
CU	63	233.30000	1.045	233.70600	233.94400	232.25000
MO	98	24.83000	4.487	24.54960	25.93960	24.00080
NI	60	255.20000	1.936	254.81900	258.93000	251.85100
SB	121	25.27000	3.005	25.92430	24.44600	25.43970
SE	78	25.06000	1.355	24.94280	25.73680	24.50040
SN	120	25.52000	0.979	25.60730	25.15800	25.79460
SR	88	24.56000	4.707	24.87080	25.37090	23.43830
ZN	66	243.10000	2.560	234.91800	245.47000	248.91100
BI-2	209	96074.90000	1.059	96179.60000	95009.50000	97035.80000
PB	208	26.16000	1.992	26.49390	26.16830	25.81790
TL	203	26.10000	3.267	26.89800	25.96440	25.43770
SC-1	45	392884.00000	2.937	386518.00000	406206.00000	385928.00000
GE-1	72	38776.20000	1.934	38699.70000	39561.70000	38067.30000
GE-2	72	12446.50000	2.160	12296.40000	12286.20000	12756.80000
GE-3	72	102128.00000	2.727	104502.00000	99061.50000	102819.00000
TB-2	159	162044.00000	1.159	163527.00000	162672.00000	159933.00000

USP83 2635

Run Name: 1120308E03 Date/Time: 07/22/2011 23:49:00
Tube Number: 35
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	59868.40000	1.724	59065.60000	59506.70000	61033.00000
SC-3	45	1510170	3.404	1564910	1502670	1462930
AL	27	3.63000	18.986	3.11142	3.69481	4.08378
B	11	33.11000	2.127	33.57560	33.24850	32.50580
BE	9	0.01558	33.145	0.01368	0.01938	0.01368
CA	44	-3.30900	-608.945	-2.95839	-3.81303	-3.15558
CR	52	-0.10590	-12.455	-0.11187	-0.10292	-0.10292
FE	57	8.71100	20.308	7.63440	9.68973	8.80886
K	39	71.19000	20.874	72.50360	69.80200	71.26440
MG	24	1.71900	17.260	1.90412	1.42809	1.82479
MN	55	0.10100	42.881	0.08359	0.12538	0.09404
NA	23	-35.62000	-21.870	-35.30720	-36.01590	-35.53690
TI	47	0.99970	87.516	1.49954	0.29991	1.19965
V	51	-0.00980	-190.403	-0.00912	-0.01064	-0.00963
IN-1	115	273572.00000	2.017	277545.00000	267273.00000	275897.00000
IN-2	115	47201.20000	0.959	47640.00000	47228.00000	46735.70000
AG	107	0.00080	919.027	0.00103	0.00034	0.00103
AS	75	0.31600	145.506	0.30872	0.26507	0.37421
BA	137	0.02739	238.226	0.02739	0.01369	0.04109
CD	111	0.12080	70.050	0.13430	0.12577	0.10232
CO	59	-0.00983	-124.682	-0.01340	-0.00804	-0.00804
CU	63	0.25550	22.203	0.25744	0.26178	0.24728
MO	98	0.00992	120.815	0.01322	0.00661	0.00992
NI	60	-0.01191	-734.425	-0.00893	-0.02233	-0.00447
SB	121	0.05216	279.141	0.03912	0.02794	0.08942
SE	78	0.00889	85.546	0.00821	0.01026	0.00821
SN	120	0.15560	47.609	0.15560	0.19221	0.11899
SR	88	0.01386	247.835	0.01485	0.01782	0.00891
ZN	66	-0.03847	-284.637	-0.02885	-0.08656	0.00000
BI-2	209	97351.90000	0.264	97055.20000	97491.90000	97508.60000
PB	208	0.00854	35.121	0.00801	0.00854	0.00908
TL	203	0.04401	78.596	0.06602	0.04201	0.02401
SC-1	45	389783.00000	1.529	390318.00000	383573.00000	395458.00000
GE-1	72	39678.90000	2.417	38950.10000	39320.90000	40765.60000
GE-2	72	13057.10000	2.610	13077.10000	12706.70000	13387.40000
GE-3	72	104722.00000	3.297	108194.00000	104684.00000	101288.00000
TB-2	159	163952.00000	2.117	165492.00000	159978.00000	166386.00000

USF03 2635

Run Name: 1120308E03 Date/Time: 07/22/2011 23:52:00
Tube Number: 36 Batch: 111931026003A
Sample Number: **6339386** Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	65718.80000	1.042	65152.10000	66480.00000	65524.20000
SC-3	45	1715580	3.569	1757750	1743640	1645340
AL	27	98110.00000	2.109	96882.90000	97388.60000	100059.00000
B	11	63.02000	1.173	65.20430	63.28650	60.56920
BE	9	3.00400	1.939	3.09303	2.98924	2.92973
CA	44	20470.00000	1.996	20438.20000	20246.50000	20725.30000
CR	52	160.60000	0.364	159.43800	161.79500	160.56800
FE	57	151800.00000	1.495	152346.00000	151015.00000	152039.00000
K	39	25360.00000	2.737	24952.80000	25084.70000	26042.50000
MG	24	39440.00000	0.967	39538.30000	39676.70000	39104.90000
MN	55	1883.00000	1.648	1869.18000	1872.48000	1907.34000
NA	23	440.40000	4.108	430.09500	456.00700	435.09800
TI	47	6722.00000	1.508	6757.46000	6691.56000	6716.98000
V	51	327.10000	0.870	327.40000	328.45700	325.44400
IN-1	115	252779.00000	1.861	258184.00000	250541.00000	249612.00000
IN-2	115	43695.60000	3.021	44589.00000	42179.90000	44317.90000
AG	107	0.12770	46.797	0.19155	0.10504	0.08651
AS	75	38.44000	3.863	39.33640	38.44000	37.54360
BA	137	504.40000	3.606	497.34300	505.51800	510.33900
CD	111	1.08500	25.253	1.28686	1.05977	0.90837
CO	59	49.03000	1.329	50.17430	47.89450	49.02120
CU	63	49.63000	2.799	50.31560	49.35190	49.22240
MO	98	2.31800	3.221	2.43520	2.16173	2.35707
NI	60	86.45000	3.038	87.53580	86.30530	85.50890
SB	121	0.60610	19.584	0.69464	0.61291	0.51075
SE	78	0.91160	8.392	0.90377	0.98594	0.84509
SN	120	14.92000	4.568	14.75870	15.16200	14.83930
SR	88	153.30000	3.761	149.85000	152.27500	157.77600
ZN	66	412.30000	1.358	418.28800	404.29500	414.31700
BI-2	209	95426.80000	1.122	95947.00000	94195.50000	96137.90000
PB	208	43.29000	0.942	43.21120	43.18850	43.47030
TL	203	1.81100	9.608	1.87005	1.92913	1.63382
SC-1	45	451003.00000	0.495	452448.00000	448433.00000	452129.00000
GE-1	72	36131.70000	1.980	36803.40000	36212.20000	35379.50000
GE-2	72	12559.90000	4.069	12586.60000	12036.10000	13057.10000
GE-3	72	98875.60000	1.433	100259.00000	98939.70000	97427.90000
TB-2	159	159165.00000	1.646	160990.00000	156163.00000	160342.00000

USF83 2537

Run Name: 1120308E03 Date/Time: 07/22/2011 23:55:00
Tube Number: 37 Batch: 111931026003A
Sample Number: **6339387** Class: **********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	65498.60000	1.815	64260.40000	66630.60000	65604.90000
SC-3	45	1677230	5.397	1772260	1667400	1592020
AL	27	103300.00000	1.728	102526.00000	103017.00000	104357.00000
B	11	64.48000	1.420	67.41400	65.07440	60.95160
BE	9	3.11200	3.535	3.18383	3.21195	2.94022
CA	44	21110.00000	3.418	20871.50000	20683.90000	21774.70000
CR	52	158.90000	0.733	156.03800	160.40700	160.25500
FE	57	153700.00000	0.360	150309.00000	156961.00000	153830.00000
K	39	19770.00000	0.819	19332.70000	19994.40000	19982.90000
MG	24	41660.00000	1.018	41070.80000	41888.60000	42020.60000
MN	55	2251.00000	1.120	2212.86000	2262.52000	2277.62000
NA	23	600.30000	5.142	598.25000	589.77100	612.87900
TI	47	6782.00000	1.457	6740.38000	6791.10000	6814.53000
V	51	315.60000	1.739	313.03100	314.67500	319.09500
IN-1	115	252647.00000	3.681	250617.00000	262795.00000	244529.00000
IN-2	115	44248.10000	2.716	42871.20000	44783.80000	45089.40000
AG	107	0.16910	11.189	0.14405	0.18163	0.18163
AS	75	38.67000	2.547	38.28220	38.13050	39.59720
BA	137	479.60000	2.302	476.73200	476.31800	485.75000
CD	111	0.76700	5.136	0.76700	0.77430	0.75970
CO	59	48.70000	2.914	48.77060	48.75830	48.57110
CU	63	54.10000	1.861	53.14060	55.13570	54.02370
MO	98	1.97200	9.660	1.86078	1.83512	2.22011
NI	60	87.36000	3.075	87.15670	88.70970	86.21360
SB	121	0.57120	13.071	0.61769	0.53799	0.55791
SE	78	0.84000	9.031	0.82047	0.80874	0.89079
SN	120	14.40000	4.074	14.34030	14.85770	14.00200
SR	88	182.80000	1.939	179.99400	181.07200	187.33400
ZN	66	394.60000	1.526	388.25800	399.46200	396.08000
BI-2	209	94901.30000	1.100	96005.80000	94767.70000	93930.30000
PB	208	39.92000	1.422	39.98920	39.61230	40.15850
TL	203	2.03200	11.112	1.98244	1.85358	2.25998
SC-1	45	449368.00000	2.281	443666.00000	461200.00000	443238.00000
GE-1	72	36225.30000	1.502	36011.40000	36843.80000	35820.60000
GE-2	72	12880.20000	0.972	12756.80000	13007.10000	12876.90000
GE-3	72	97055.50000	5.377	102084.00000	97417.40000	91665.20000
TB-2	159	160465.00000	0.798	161489.00000	159029.00000	160878.00000

USF83 2639

Run Name: 1120308E03 Date/Time: 07/22/2011 23:59:00
Tube Number: 38
Sample Number: LLC

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	58790.10000	1.446	58160.80000	58452.30000	59757.10000
SC-3	45	1496650	3.333	1525290	1525620	1439050
AL	27	110.70000	3.797	113.48400	110.39000	108.22600
B	11	60.05000	2.929	62.69000	59.39110	58.06890
BE	9	0.48040	5.779	0.51545	0.46029	0.46546
CA	44	228.00000	3.672	227.99800	220.87600	235.12600
CR	52	1.83500	9.700	1.72567	1.99898	1.78035
FE	57	119.00000	8.723	110.53500	129.45700	117.00800
K	39	269.40000	7.216	270.81000	271.89300	265.49800
MG	24	98.44000	1.517	95.77400	99.16140	100.38500
MN	55	1.43600	17.145	1.68405	1.27280	1.35115
NA	23	148.70000	6.566	146.08500	150.69900	149.31600
TI	47	8.10600	12.386	7.70071	7.29538	9.32192
V	51	0.37170	26.621	0.43570	0.34708	0.33231
IN-1	115	273139.00000	2.702	280849.00000	272429.00000	266140.00000
IN-2	115	47447.60000	2.930	46045.80000	48826.00000	47470.90000
AG	107	0.51710	12.375	0.56861	0.51916	0.46353
AS	75	2.33100	16.358	2.42458	2.45011	2.11831
BA	137	2.15200	11.966	1.82716	2.43624	2.19259
CD	111	0.57330	35.374	0.48372	0.54344	0.69274
CO	59	0.47490	7.275	0.49298	0.45846	0.47326
CU	63	2.05800	5.437	1.98009	2.07357	2.12035
MO	98	0.53110	10.943	0.51956	0.60038	0.47337
NI	60	1.92700	8.537	1.96633	2.06465	1.75002
SB	121	0.97180	40.687	0.71858	0.84177	1.35505
SE	78	1.96000	13.990	2.10079	1.65618	2.12303
SN	120	2.03000	22.887	2.45343	1.91400	1.72258
SR	88	0.54500	17.739	0.62287	0.50606	0.50607
ZN	66	16.12000	4.020	16.35600	16.07290	15.93110
BI-2	209	95013.90000	0.939	94001.90000	95685.30000	95354.40000
PB	208	1.01800	8.917	1.01186	0.93521	1.10693
TL	203	0.58400	8.599	0.56485	0.64145	0.54570
SC-1	45	391436.00000	0.732	394051.00000	391884.00000	388372.00000
GE-1	72	38702.60000	1.618	39150.50000	38970.40000	37986.90000
GE-2	72	12877.00000	3.715	12356.50000	12977.00000	13297.40000
GE-3	72	104423.00000	1.116	104675.00000	105441.00000	103153.00000
TB-2	159	161625.00000	0.918	160426.00000	161165.00000	163285.00000

USF83 2639

Run Name: 1120308E03
Tube Number: 39
Sample Number: **ICSA**

Date/Time: 07/23/2011 0:02:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	58616.00000	1.880	57377.10000	58983.90000	59486.80000
SC-3	45	1520320	4.175	1573050	1449870	1538040
AL	27	9762.00000	0.848	9627.04000	9842.85000	9816.12000
B	11	15.63000	3.280	16.12370	15.32890	15.43740
BE	9	0.00163	171.262	0.00115	0.00172	0.00201
CA	44	9682.00000	2.576	9300.12000	10023.00000	9722.84000
CR	52	0.12500	27.656	0.12155	0.11638	0.13707
FE	57	10400.00000	1.501	10282.20000	10544.00000	10373.80000
K	39	12050.00000	0.218	11794.40000	12100.50000	12255.10000
MG	24	9828.00000	3.015	9821.29000	10031.10000	9631.57000
MN	55	0.52410	17.632	0.52999	0.44166	0.60065
NA	23	9876.00000	1.024	9629.30000	10048.80000	9949.91000
TI	47	210.20000	2.825	210.48300	213.46900	206.64800
V	51	-0.03301	-166.071	-0.03884	-0.02330	-0.03689
IN-1	115	269694.00000	2.121	269506.00000	275504.00000	264071.00000
IN-2	115	47375.90000	1.010	46917.00000	47339.20000	47871.50000
AG	107	0.01122	148.128	0.00281	0.01403	0.01683
AS	75	0.13020	228.111	0.14216	0.11180	0.13664
BA	137	0.17460	127.033	0.04029	0.16116	0.32234
CD	111	0.11120	45.621	0.10524	0.12113	0.10723
CO	59	-0.00633	-142.155	-0.00554	-0.00554	-0.00791
CU	63	-0.06430	-225.194	-0.06849	-0.06325	-0.06116
MO	98	205.50000	0.147	203.24000	205.28200	207.97800
NI	60	0.06498	87.181	0.07220	0.07942	0.04332
SB	121	-0.00637	-1138.690	-0.00364	-0.00911	-0.00637
SE	78	-0.02495	-26.625	-0.03743	-0.01871	-0.01871
SN	120	0.10540	130.361	0.13236	0.13972	0.04412
SR	88	0.49190	22.017	0.57495	0.49829	0.40246
ZN	66	0.48540	47.548	0.61608	0.28004	0.56008
BI-2	209	98391.40000	3.724	94645.40000	101967.00000	98561.60000
PB	208	0.00883	101.314	0.00702	0.01081	0.00865
TL	203	-0.00524	-106.705	-0.00449	-0.00449	-0.00673
SC-1	45	396214.00000	0.108	395755.00000	396281.00000	396604.00000
GE-1	72	39524.90000	2.839	39421.20000	40695.10000	38458.40000
GE-2	72	12793.40000	1.513	12676.70000	13016.90000	12686.70000
GE-3	72	106631.00000	1.974	108586.00000	104402.00000	106905.00000
TB-2	159	165322.00000	1.712	162066.00000	166696.00000	167204.00000

USP03 2648

Run Name: 1120308E03 Date/Time: 07/23/2011 0:05:00
Tube Number: 40
Sample Number: **ICSAB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	57835.70000	1.093	57357.00000	57597.80000	58552.10000
SC-3	45	1501530	4.093	1572470	1464550	1467550
AL	27	9931.00000	0.899	9797.67000	9993.03000	10002.30000
B	11	9.60300	5.333	9.62901	9.61194	9.56805
BE	9	-0.00073	-502.275	-0.00117	-0.00050	-0.00050
CA	44	9655.00000	1.656	9434.40000	9585.05000	9945.55000
CR	52	19.51000	2.932	19.79460	19.62020	19.11520
FE	57	10400.00000	0.584	10354.90000	10287.80000	10557.40000
K	39	12120.00000	0.262	11985.50000	12094.00000	12280.50000
MG	24	9620.00000	2.243	9303.05000	9760.26000	9796.69000
MN	55	20.81000	3.700	20.16860	21.60660	20.65470
NA	23	9974.00000	1.087	9825.64000	10052.40000	10044.00000
TI	47	210.40000	2.704	214.57500	204.20900	212.41600
V	51	-0.00201	-2022.340	-0.00167	-0.00198	-0.00240
IN-1	115	274154.00000	1.264	276659.00000	270199.00000	275605.00000
IN-2	115	47081.00000	1.288	46626.30000	47769.40000	46847.20000
AG	107	20.12000	1.617	20.28000	20.33740	19.74270
AS	75	21.04000	6.060	20.68390	20.27470	22.16140
BA	137	0.22020	49.728	0.13212	0.26424	0.26424
CD	111	20.18000	1.016	20.20660	20.30900	20.02440
CO	59	18.73000	1.419	18.85060	18.81220	18.52710
CU	63	18.87000	0.759	18.79950	19.00480	18.80570
MO	98	205.90000	0.706	205.54900	207.78800	204.36300
NI	60	20.66000	2.094	20.19150	20.73690	21.05160
SB	121	0.02786	210.014	0.03678	0.02340	0.02340
SE	78	-0.00273	-616.764	-0.00410	-0.00164	-0.00246
SN	120	0.16330	49.712	0.20727	0.15074	0.13190
SR	88	0.49480	6.710	0.46267	0.50123	0.52050
ZN	66	19.88000	4.731	19.21320	19.57050	20.85630
BI-2	209	97993.00000	1.231	97104.50000	97509.00000	99365.60000
PB	208	0.01654	51.034	0.01861	0.01684	0.01418
TL	203	-0.00173	-1307.510	-0.00260	-0.00260	0.00000
SC-1	45	397246.00000	1.910	396102.00000	390293.00000	405342.00000
GE-1	72	39698.90000	2.655	40514.60000	38508.50000	40073.60000
GE-2	72	12790.10000	2.063	13007.00000	12496.40000	12866.90000
GE-3	72	105982.00000	3.784	110533.00000	104442.00000	102970.00000
TB-2	159	163763.00000	1.514	162390.00000	162273.00000	166627.00000

USPB3 2641

Run Name: 1120308E03
Tube Number: 41
Sample Number: **CCV**

Date/Time: 07/23/2011 0:08:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	59144.80000	1.190	59286.60000	58380.90000	59766.90000
SC-3	45	1516640	1.987	1523700	1542610	1483610
AL	27	2403.00000	0.683	2401.65000	2390.61000	2416.73000
B	11	230.50000	2.068	236.67200	230.20400	224.62400
BE	9	23.91000	1.785	24.38200	23.84130	23.50670
CA	44	2499.00000	5.118	2548.76000	2559.87000	2388.37000
CR	52	234.60000	1.419	231.32100	233.57800	238.90200
FE	57	2562.00000	0.633	2568.82000	2544.72000	2572.46000
K	39	2507.00000	0.908	2497.68000	2496.00000	2527.32000
MG	24	2258.00000	1.165	2233.08000	2245.27000	2295.65000
MN	55	250.80000	1.501	247.25100	250.71100	254.43900
NA	23	2215.00000	1.314	2215.24000	2212.80000	2216.96000
TI	47	246.40000	3.904	240.20700	238.94100	260.05200
V	51	248.60000	1.558	252.57900	246.26600	246.95400
IN-1	115	278514.00000	1.303	282575.00000	277373.00000	275594.00000
IN-2	115	47256.50000	2.427	47315.30000	46080.90000	48373.20000
AG	107	25.90000	4.595	25.62740	26.55970	25.51290
AS	75	245.90000	2.716	246.11500	246.43800	245.14600
BA	137	253.50000	2.337	258.11200	240.54900	261.84000
CD	111	25.47000	2.697	25.94910	25.17340	25.28750
CO	59	235.00000	1.410	233.33100	232.92900	238.74000
CU	63	233.10000	1.973	231.31300	232.47200	235.51600
MO	98	25.56000	4.550	26.74720	24.96640	24.96640
NI	60	253.60000	2.212	253.03100	253.26000	254.50900
SB	121	25.68000	2.440	25.21950	25.72870	26.09180
SE	78	24.90000	1.415	25.18130	25.18130	24.33740
SN	120	25.30000	1.783	25.28740	25.13770	25.47490
SR	88	25.59000	1.438	25.51430	24.65050	26.60520
ZN	66	246.60000	1.637	246.52900	244.66200	248.60900
BI-2	209	98999.00000	1.159	98336.40000	98337.00000	100324.00000
PB	208	25.44000	0.508	25.19770	25.19200	25.93030
TL	203	25.28000	1.568	25.40520	24.66340	25.77140
SC-1	45	401414.00000	1.363	406129.00000	402696.00000	395417.00000
GE-1	72	40049.70000	2.841	41196.50000	40032.80000	38919.80000
GE-2	72	12820.20000	1.138	12987.00000	12756.90000	12716.70000
GE-3	72	103735.00000	4.258	107448.00000	104906.00000	98850.50000
TB-2	159	165557.00000	2.294	169236.00000	161650.00000	165786.00000

USP03 2442

Run Name: 1120308E03 Date/Time: 07/23/2011 0:11:00
Tube Number: 42
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	57624.80000	0.900	58220.80000	57276.50000	57377.00000
SC-3	45	1468210	2.832	1513110	1460500	1431030
AL	27	1.82900	28.163	1.63126	1.77956	2.07618
B	11	29.51000	2.551	30.58830	28.62820	29.31360
BE	9	0.01214	47.933	0.00857	0.01500	0.01285
CA	44	-25.60000	-88.242	-20.60470	-26.84900	-29.34630
CR	52	-0.11010	-19.283	-0.09860	-0.11832	-0.11339
FE	57	4.30600	13.230	4.44716	4.02369	4.44715
K	39	65.24000	2.020	65.74810	65.00570	64.96620
MG	24	0.54730	81.948	0.37890	0.37890	0.88410
MN	55	0.00245	2036.780	0.00105	0.00315	0.00315
NA	23	-38.61000	-20.653	-38.10770	-38.71670	-39.00560
TI	47	0.04375	996.343	0.00000	0.04375	0.08750
V	51	-0.01735	-542.248	-0.01639	-0.01060	-0.02506
IN-1	115	272539.00000	1.937	273986.00000	276943.00000	266687.00000
IN-2	115	47727.00000	0.409	47589.90000	47950.80000	47640.30000
AG	107	0.00273	353.025	0.00102	0.00307	0.00409
AS	75	0.26170	132.709	0.30256	0.24779	0.23475
BA	137	0.08887	187.915	0.05925	0.17774	0.02962
CD	111	0.10630	35.014	0.10250	0.11389	0.10250
CO	59	0.00606	228.076	0.00762	0.00469	0.00586
CU	63	0.04881	225.773	0.04911	0.05121	0.04611
MO	98	0.07802	99.718	0.05401	0.03601	0.14404
NI	60	-0.01288	-338.742	-0.01449	-0.00724	-0.01691
SB	121	-0.03975	-194.340	-0.01403	-0.05612	-0.04910
SE	78	-0.00596	-392.318	-0.00199	-0.00596	-0.00994
SN	120	0.20190	74.591	0.11293	0.21559	0.27719
SR	88	0.02780	122.194	0.02606	0.03649	0.02085
ZN	66	0.05517	196.302	0.02069	0.06207	0.08275
BI-2	209	97909.60000	1.704	96240.40000	99576.00000	97912.30000
PB	208	0.01660	47.922	0.01779	0.01423	0.01779
TL	203	0.02716	71.465	0.02396	0.03834	0.01917
SC-1	45	392951.00000	2.860	389615.00000	405480.00000	383756.00000
GE-1	72	39571.90000	2.265	39752.40000	40364.20000	38599.00000
GE-2	72	12816.90000	6.272	13427.40000	13117.30000	11906.00000
GE-3	72	104575.00000	3.075	107973.00000	104172.00000	101580.00000
TB-2	159	164547.00000	0.957	163151.00000	164235.00000	166254.00000

USP83 2543

Run Name: 1120308E03
Tube Number: 43
Sample Number: **LRS**

Date/Time: 07/23/2011 0:14:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	58856.60000	0.378	58883.40000	58622.10000	59064.30000
SC-3	45	1488220	3.428	1521580	1513590	1429480
AL	27	49930.00000	2.403	48641.20000	50770.50000	50378.20000
B	11	507.50000	1.943	519.03300	506.40000	497.06700
BE	9	478.20000	2.152	494.05300	474.44600	466.10100
CA	44	47500.00000	1.076	47023.40000	47287.10000	48189.50000
CR	52	447.50000	0.617	447.60300	448.52400	446.37300
FE	57	48350.00000	0.915	47960.00000	48623.50000	48466.50000
K	39	49840.00000	2.484	48465.90000	50537.90000	50516.20000
MG	24	43890.00000	1.168	43532.00000	44297.40000	43840.60000
MN	55	474.40000	0.819	472.02700	476.96600	474.20700
NA	23	44630.00000	1.754	43760.00000	44976.00000	45153.90000
TI	47	491.80000	5.077	477.78000	475.22700	522.39300
V	51	475.90000	1.341	468.79600	478.37300	480.53100
IN-1	115	263626.00000	1.259	265750.00000	259802.00000	265327.00000
IN-2	115	44386.10000	1.828	43647.00000	44257.00000	45254.30000
AG	107	561.70000	2.622	568.02300	557.89800	559.18000
AS	75	509.30000	0.169	501.04100	506.87000	519.98900
BA	137	518.60000	1.197	516.95100	514.82300	524.02500
CD	111	495.50000	1.594	496.00200	491.75300	498.74500
CO	59	468.90000	1.575	467.31400	469.53900	469.84700
CU	63	458.30000	1.590	457.91400	456.99500	459.99100
MO	98	518.30000	2.176	522.11100	513.78900	518.99900
NI	60	499.80000	2.049	497.58200	504.17700	497.64100
SB	121	527.10000	1.284	520.18600	531.27600	529.83800
SE	78	476.20000	1.140	481.00700	474.15600	473.43700
SN	120	518.40000	1.671	516.40000	520.14100	518.65900
SR	88	509.90000	1.478	509.31500	501.51200	518.87300
ZN	66	474.50000	1.400	473.02300	473.56000	476.91700
BI-2	209	91559.40000	2.004	90815.40000	93649.40000	90213.30000
PB	208	513.30000	1.784	510.59800	515.15600	514.14600
TL	203	514.70000	2.032	510.33000	516.05000	517.72000
SC-1	45	393162.00000	1.447	394350.00000	386972.00000	398163.00000
GE-1	72	38655.70000	2.511	38739.20000	37645.80000	39582.00000
GE-2	72	12066.10000	2.906	12046.00000	11725.90000	12426.40000
GE-3	72	98741.50000	3.854	101147.00000	100723.00000	94354.80000
TB-2	159	157266.00000	0.788	157416.00000	155958.00000	158425.00000

USF93 2644

Run Name: 1120308E03
Tube Number: 44
Sample Number: **RINSE**

Date/Time: 07/23/2011 0:17:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-2	45	58742.60000	2.000	57417.00000	59153.90000	59656.70000
SC-3	45	1526910	2.362	1564510	1492610	1523610
AL	27	5.12000	12.690	5.34257	5.34266	4.67477
B	11	45.48000	2.247	46.74830	45.30670	44.38510
BE	9	0.15880	35.466	0.11624	0.14243	0.21774
CA	44	-2.63900	-763.926	-2.49730	-2.33790	-3.08180
CR	52	-0.09570	-14.577	-0.09832	-0.09832	-0.09046
FE	57	6.18900	24.059	5.59551	5.84991	7.12159
K	39	55.26000	38.961	56.58990	53.92430	55.26570
MG	24	2.57100	33.205	2.03419	3.47511	2.20370
MN	55	-0.00569	-1697.310	-0.01182	0.00000	-0.00525
NA	23	-47.29000	-5.441	-46.47140	-47.26490	-48.13370
TI	47	1.17400	91.141	1.28074	1.92108	0.32018
V	51	-0.04947	-79.381	-0.06000	-0.04421	-0.04421
IN-1	115	270712.00000	2.014	274109.00000	273603.00000	264424.00000
IN-2	115	48562.90000	2.195	47465.20000	48628.70000	49594.90000
AG	107	0.10590	22.427	0.12598	0.08764	0.10407
AS	75	0.11200	130.089	0.10967	0.10500	0.12133
BA	137	0.25050	68.663	0.17682	0.17682	0.39785
CD	111	0.17700	109.379	0.22757	0.14610	0.15733
CO	59	0.00705	236.070	0.00926	0.00595	0.00595
CU	63	0.08027	51.975	0.07971	0.07876	0.08234
MO	98	0.63330	4.642	0.62571	0.60296	0.67122
NI	60	0.00634	860.186	0.00901	0.00600	0.00400
SB	121	0.39170	43.528	0.37538	0.27745	0.52227
SE	78	0.12700	35.339	0.13854	0.15586	0.08659
SN	120	0.79920	19.657	0.66769	0.94084	0.78908
SR	88	-0.01890	-294.127	-0.00567	-0.03402	-0.01701
ZN	66	0.07530	6.109	0.07530	0.07530	0.07530
BI-2	209	98646.40000	0.739	98438.60000	98043.70000	99456.80000
PB	208	0.06120	34.706	0.07528	0.05692	0.05141
TL	203	0.21710	14.233	0.23995	0.22281	0.18854
SC-1	45	387974.00000	0.421	389217.00000	388582.00000	386121.00000
GE-1	72	38866.50000	2.635	39512.20000	39401.30000	37686.10000
GE-2	72	12806.90000	1.715	12716.80000	12646.70000	13057.20000
GE-3	72	104702.00000	1.471	106400.00000	103394.00000	104311.00000
TB-2	159	165438.00000	0.727	164224.00000	165463.00000	166627.00000

USF03 2645

Lancaster Laboratories

Instrument Tuning Report (ICPMS #11332)

File Name: default.tun

File Path: C:\elandata\Tuning

Sample Date/Time: 7/22/2011 9:23:00AM

Number of Replicates: 6

Method File: c:\elandata\Method\dailytune.mth

Measured Mass must be within +/- 0.1 amu of the Exact Mass.

Measured Peak Width must be > or = to 0.640 AND < or = to 0.660.

Analyte	EXACT MASS	MEAS. MASS	Mass DAC	RES. DAC	MEAS. PK. WIDTH
Ce	140.000	140.050	0	0	0.650
In	115.000	115.050	0	0	0.650
Li	6.000	6.100	0	0	0.650
Mg	24.000	24.050	0	0	0.650
Pb	208.000	208.000	0	0	0.650
Rh	103.000	103.050	0	0	0.650
U	238.000	237.950	0	0	0.600

Summary: Verify that the RSD is less than 5 for the following masses.

Mass	Meas. Intens. Mean	Meas. Intens. RSD
140.000	43543.000	1.430
115.000	48706.000	1.920
6.000	34384.000	3.080
24.000	42566.000	2.150
208.000	12794.000	2.310
103.000	50203.000	1.430
238.000	18230.000	1.900

USF03 2646

Lancaster Laboratories

ICP-MS Run Data Report

1120703E03

Method Reference Name(s):
SW-846 6020

Date File Name: 11G26G00.E03

Run Name: 1120703E03

Analyst: 1242

Reviewed By: Choon Y Tian
Reviewed Date: 07/26/2011 08:04

Verified By: Jennifer L Moyer
Verified Date: 07/27/2011 10:21

Instrument Parameters:

Rinse Time (sec): 25.00

INTERNAL STD.	ELEMENT	MASS
SC-1		45
	NA	23
	MG	24
	AL	27
	K	39
	CA	44
	TI	47
	V	51
	CR	52
	MN	55
	FE	57
IN-1		115
	CO	59
	NI	60
	CU	63
	ZN	66
	AS	75
	SR	88
	MO	98
	AG	107
	CD	111
	SN	120
	SB	121
	BA	137
BI-1		209
	TL	203
	PB	208

USP03 2647

Run Name: 1120703E03
Tube Number: 1
Sample Number: **S0**

Date/Time: 07/26/2011 6:22:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
NA	23	-0.00001	-21246400	-0.00001	-0.00001	-0.00001
MG	24	0.00000	-716053000	0.00000	0.00000	0.00000
AL	27	0.00000	-1314810000	0.00000	0.00000	0.00000
K	39	0.00001	152577000	0.00001	0.00001	0.00001
CA	44	-0.00001	-136762000	-0.00001	0.00000	-0.00001
SC-1	45	93802.30000	1.413	95315.60000	93242.70000	92848.70000
TI	47	0.00000	-2431470000	0.00000	0.00000	0.00000
V	51	0.00000	294542000	0.00000	0.00000	0.00000
CR	52	0.00000	661615000	0.00000	0.00000	0.00000
MN	55	0.00000	-1061910000	0.00000	0.00000	0.00000
FE	57	0.00000	2735580000	0.00000	0.00000	0.00000
CO	59	0.00000	13270700000	0.00000	0.00000	0.00000
NI	60	0.00000	1121950000	0.00000	0.00000	0.00000
CU	63	0.00000	202232000	0.00000	0.00000	0.00000
ZN	66	0.00000	718420000	0.00000	0.00000	0.00000
GE-1	72	20713.90000	0.229	20697.20000	20677.10000	20767.40000
AS	75	0.00000	270992000	0.00000	0.00000	0.00000
SR	88	0.00000	1850170000	0.00000	0.00000	0.00000
MO	98	0.00000	1287010000	0.00000	0.00000	0.00000
AG	107	0.00000	610180000	0.00000	0.00000	0.00000
CD	111	0.00000	1416060000	0.00000	0.00000	0.00000
IN-1	115	82556.20000	0.465	82478.70000	82972.70000	82217.20000
SN	120	0.00000	4148970000	0.00000	0.00000	0.00000
SB	121	0.00000	901066000	0.00000	0.00000	0.00000
BA	137	0.00000	396574000	0.00000	0.00000	0.00000
TB-1	159	281889.00000	0.139	281443.00000	282041.00000	282183.00000
TL	203	0.00000	1837330000	0.00000	0.00000	0.00000
PB	208	0.00000	-348114000	0.00000	0.00000	0.00000
BI-1	209	185926.00000	2.545	190853.00000	185505.00000	181419.00000

USP83 2649

Run Name: 1120703E03
Tube Number: 2
Sample Number: **S1**

Date/Time: 07/26/2011 6:24:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92359.40000	2.539	89879.00000	92658.40000	94541.00000
AL	27	10000.00000	2.759	10042.30000	9839.22000	10118.50000
CA	44	10000.00000	2.781	10033.00000	9959.94000	10007.00000
CR	52	1000.00000	2.488	998.17700	1002.80000	999.02100
FE	57	10000.00000	3.610	10140.50000	9794.70000	10064.80000
K	39	10000.00000	3.068	10069.60000	9857.22000	10073.10000
MG	24	10000.00000	2.881	10059.60000	9869.90000	10070.50000
MN	55	1000.00000	3.625	1011.96000	996.77700	991.25900
NA	23	10000.00000	2.494	10005.90000	9887.36000	10106.70000
TI	47	1000.00000	2.030	995.70800	987.71700	1016.57000
V	51	1000.00000	3.051	1004.96000	1000.12000	994.92100
IN-1	115	81103.90000	1.078	80146.70000	81861.20000	81303.80000
AG	107	100.00000	1.709	100.69500	99.48570	99.81890
AS	75	1000.00000	2.123	1010.21000	989.12000	1000.67000
BA	137	1000.00000	1.122	995.50300	996.36600	1008.13000
CD	111	100.00000	1.160	99.90730	99.71730	100.37500
CO	59	1000.00000	1.598	992.97800	991.41300	1015.61000
CU	63	1000.00000	2.282	993.41600	984.22900	1022.35000
MO	98	100.00000	2.202	100.99200	98.70790	100.30000
NI	60	1000.00000	1.513	999.88900	992.19500	1007.92000
SB	121	100.00000	1.891	100.72700	100.87600	98.39680
SN	120	100.00000	0.403	99.27570	100.64100	100.08400
SR	88	100.00000	1.542	100.58700	99.99060	99.42190
ZN	66	1000.00000	1.717	990.89000	990.87200	1018.24000
BI-1	209	179451.00000	1.257	181940.00000	177542.00000	178869.00000
PB	208	100.00000	0.050	101.40400	98.97600	99.62050
TL	203	100.00000	0.330	101.13800	99.30930	99.55250
GE-1	72	19942.80000	5.380	19876.00000	18904.60000	21047.70000
TB-1	159	279128.00000	1.977	277319.00000	274742.00000	285323.00000

USTS3 2649

Run Name: 1120703E03
Tube Number: 3
Sample Number: **LRS**

Date/Time: 07/26/2011 6:26:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	90069.60000	2.063	87924.50000	91187.30000	91097.00000
AL	27	51200.00000	1.982	50818.40000	50707.50000	52074.10000
CA	44	49000.00000	2.165	49024.40000	48833.00000	49142.60000
CR	52	453.40000	2.479	455.28900	454.30200	450.60800
FE	57	51710.00000	2.274	51716.40000	51272.00000	52141.60000
K	39	47440.00000	1.965	47359.30000	47395.90000	47564.90000
MG	24	46350.00000	1.615	46055.10000	46277.90000	46717.00000
MN	55	490.50000	2.483	492.66800	488.69100	490.14100
NA	23	48060.00000	1.797	47882.70000	48042.70000	48254.60000
TI	47	499.60000	2.720	503.20800	497.92500	497.66700
V	51	452.70000	2.812	456.39800	451.96700	449.73500
IN-1	115	73851.60000	2.551	72882.90000	76023.40000	72648.40000
AG	107	638.60000	2.817	643.72800	636.62700	635.44500
AS	75	513.40000	2.164	512.66900	515.51400	512.01700
BA	137	530.20000	2.139	529.85700	532.50500	528.23900
CD	111	508.50000	1.857	508.79800	512.53800	504.16400
CO	59	523.60000	2.469	514.51000	527.29200	528.99800
CU	63	486.90000	3.288	492.05700	482.67500	485.96800
MO	98	526.80000	2.735	531.29000	525.83000	523.28100
NI	60	510.90000	2.625	511.53600	510.23200	510.93300
SB	121	519.20000	2.523	522.61800	519.46500	515.51700
SN	120	523.20000	3.075	521.52800	520.33000	527.74200
SR	88	517.00000	2.909	519.99100	514.61800	516.39100
ZN	66	491.00000	3.210	494.83800	487.01900	491.14300
BI-1	209	165148.00000	0.724	164559.00000	166523.00000	164361.00000
PB	208	532.40000	0.362	528.62800	536.74700	531.82500
TL	203	516.90000	0.983	516.19500	515.63500	518.87000
GE-1	72	19328.60000	1.322	19325.20000	19074.80000	19585.70000
TB-1	159	267954.00000	0.979	264967.00000	269013.00000	269882.00000

USP63 2658

Run Name: 1120703E03
Tube Number: 4
Sample Number: **CCS**

Date/Time: 07/26/2011 6:27:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	88546.40000	1.466	88328.00000	87371.20000	89939.90000
AL	27	7.02200	19.966	7.60276	7.60283	5.86042
CA	44	1.22100	1686.320	1.43419	0.98843	1.24038
CR	52	-0.00129	-3656.110	-0.00156	-0.00098	-0.00134
FE	57	9.21900	26.554	10.83240	7.37514	9.44946
K	39	-0.63510	-1095.260	-0.64207	-0.63371	-0.62952
MG	24	7.83900	21.776	9.04509	8.35883	6.11308
MN	55	0.15590	14.131	0.16868	0.15334	0.14568
NA	23	3.71300	376.246	3.72420	3.80217	3.61262
TI	47	-0.07801	-195.231	0.00000	0.00000	-0.23403
V	51	0.05206	152.632	0.07702	0.04707	0.03209
IN-1	115	79945.50000	1.366	80356.80000	78707.80000	80771.80000
AG	107	0.13390	25.975	0.16480	0.13390	0.10300
AS	75	0.20940	5.497	0.20845	0.20845	0.21130
BA	137	0.07426	167.520	0.03713	0.06188	0.12377
CD	111	0.02532	65.798	0.02387	0.02460	0.02749
CO	59	0.09183	25.525	0.09356	0.10656	0.07537
CU	63	0.03384	237.352	0.03915	0.03213	0.03024
MO	98	0.67790	9.354	0.71179	0.59559	0.72632
NI	60	0.11920	8.532	0.11598	0.12564	0.11598
SB	121	0.39110	42.674	0.25599	0.39465	0.52266
SN	120	0.82210	6.084	0.78267	0.80995	0.87368
SR	88	0.06198	95.499	0.06412	0.08976	0.03206
ZN	66	0.30430	36.904	0.22035	0.31479	0.37775
BI-1	209	182975.00000	1.199	182018.00000	181422.00000	185486.00000
PB	208	0.11920	20.000	0.14076	0.10779	0.10906
TL	203	0.41420	15.367	0.47200	0.41420	0.35640
GE-1	72	19966.10000	4.589	18924.40000	20326.70000	20647.10000
TB-1	159	275695.00000	1.063	275212.00000	273034.00000	278839.00000

USP83 2651

Run Name: 1120703E03 Date/Time: 07/26/2011 6:29:00
Tube Number: 5
Sample Number: **ICV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	88797.40000	0.352	89123.10000	88498.90000	88770.20000
AL	27	5112.00000	1.424	5109.22000	5035.33000	5191.45000
CA	44	5097.00000	3.194	4938.93000	5212.78000	5139.29000
CR	52	481.20000	0.783	478.76800	480.66000	484.17200
FE	57	5191.00000	0.584	5174.97000	5191.33000	5206.70000
K	39	4797.00000	0.481	4801.09000	4769.47000	4820.44000
MG	24	4902.00000	0.657	4883.32000	4909.54000	4913.13000
MN	55	521.70000	1.039	517.34600	522.89700	524.85700
NA	23	5265.00000	1.695	5191.70000	5268.82000	5334.48000
TI	47	516.60000	1.133	511.87100	519.36500	518.56400
V	51	473.60000	0.173	474.64600	472.91100	473.24300
IN-1	115	79162.60000	0.491	79496.00000	79255.90000	78736.00000
AG	107	50.98000	0.677	51.19580	51.38390	50.36040
AS	75	495.60000	0.288	499.13500	494.78000	492.88600
BA	137	516.50000	0.240	519.37000	515.67900	514.45000
CD	111	51.65000	0.685	51.50930	51.72370	51.71700
CO	59	521.20000	0.944	518.81800	521.19400	523.58800
CU	63	490.80000	0.300	491.37400	492.83600	488.19000
MO	98	50.45000	0.371	50.46340	50.53650	50.35010
NI	60	508.00000	0.830	511.83200	503.80200	508.36600
SB	121	50.64000	2.532	50.83610	51.98430	49.09950
SN	120	51.12000	0.691	51.46590	50.78140	51.11260
SR	88	50.50000	0.882	50.21590	50.92590	50.35820
ZN	66	501.30000	0.073	503.67200	501.47000	498.75700
BI-1	209	179535.00000	1.682	177956.00000	177632.00000	183017.00000
PB	208	50.90000	1.192	51.01000	50.45530	51.23470
TL	203	51.59000	2.838	52.54930	51.15670	51.06410
GE-1	72	20159.80000	1.497	20476.90000	19876.00000	20126.40000
TB-1	159	276151.00000	1.119	274431.00000	274304.00000	279719.00000

USF83 2652

Run Name: 1120703E03 Date/Time: 07/26/2011 6:31:00
Tube Number: 6
Sample Number: **ICB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	89026.10000	1.166	88056.60000	90120.60000	88901.10000
AL	27	0.84970	189.714	1.39594	0.54623	0.60693
CA	44	4.40100	280.164	4.87497	4.13018	4.19785
CR	52	-0.02802	-15.107	-0.02772	-0.02772	-0.02862
FE	57	1.09000	71.165	0.90447	1.25234	1.11319
K	39	-8.52400	-69.862	-8.50177	-8.44694	-8.62329
MG	24	0.96460	17.800	1.06849	0.97944	0.84587
MN	55	0.07168	56.362	0.08704	0.07168	0.05632
NA	23	-1.92200	-458.169	-1.94066	-1.88988	-1.93546
TI	47	0.09938	264.943	0.09938	0.19876	0.00000
V	51	0.08763	53.030	0.10456	0.06871	0.08962
IN-1	115	79014.60000	0.395	78692.80000	79034.00000	79317.00000
AG	107	0.02021	95.794	0.03248	0.01299	0.01516
AS	75	0.28280	52.263	0.24501	0.28524	0.31815
BA	137	0.01818	494.609	0.02937	0.00839	0.01678
CD	111	-0.00884	-712.620	-0.00864	-0.01161	-0.00625
CO	59	0.11150	28.036	0.13822	0.09676	0.09952
CU	63	0.04701	86.194	0.04528	0.04491	0.05085
MO	98	0.14580	25.178	0.10756	0.15058	0.17926
NI	60	0.13510	68.305	0.21278	0.09119	0.10132
SB	121	0.07322	36.930	0.06196	0.08448	0.07322
SN	120	0.29130	30.796	0.32312	0.22031	0.33047
SR	88	0.00698	911.487	0.00262	0.01440	0.00393
ZN	66	0.08149	84.477	0.05239	0.08731	0.10477
BI-1	209	183772.00000	1.570	180542.00000	186098.00000	184677.00000
PB	208	0.02119	32.444	0.02208	0.01807	0.02342
TL	203	0.07457	17.795	0.07871	0.08286	0.06214
GE-1	72	20300.00000	0.723	20166.50000	20276.50000	20457.10000
TB-1	159	275526.00000	0.617	275317.00000	273939.00000	277322.00000

USP83 3653

Run Name: 1120703E03
Tube Number: 7
Sample Number: **LLC**

Date/Time: 07/26/2011 6:33:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	88147.30000	0.637	87713.90000	87946.70000	88781.20000
AL	27	104.30000	4.141	107.83500	104.43300	100.63200
CA	44	207.10000	8.730	196.82300	202.75300	221.72400
CR	52	1.81100	4.004	1.83969	1.73210	1.86121
FE	57	102.90000	4.475	101.39800	107.51400	99.78790
K	39	178.30000	8.093	183.24900	175.07400	176.57700
MG	24	100.50000	2.732	102.52300	97.37800	101.59900
MN	55	1.07300	4.991	1.02913	1.12485	1.06502
NA	23	208.50000	2.329	207.62600	209.78300	208.09100
TI	47	4.95200	19.404	5.47325	5.47331	3.90944
V	51	0.45340	10.629	0.41497	0.44956	0.49567
IN-1	115	80037.50000	1.291	80952.00000	80242.90000	78917.60000
AG	107	0.50390	5.199	0.48032	0.51755	0.51383
AS	75	2.04900	11.684	2.16400	2.15354	1.82946
BA	137	1.74300	22.524	2.17605	1.46152	1.59143
CD	111	0.44840	13.149	0.49633	0.41284	0.43603
CO	59	0.46730	4.597	0.47960	0.44606	0.47624
CU	63	1.95100	7.647	1.84889	2.06407	1.94004
MO	98	0.49040	8.383	0.46383	0.47832	0.52906
NI	60	1.91800	11.079	2.11643	1.69313	1.94445
SB	121	0.97550	15.100	0.98769	1.10964	0.82917
SN	120	2.09900	6.179	2.26456	2.03609	1.99635
SR	88	0.52050	13.245	0.45591	0.54709	0.55850
ZN	66	14.94000	2.133	14.76150	15.25230	14.80620
BI-1	209	184446.00000	0.781	185907.00000	184405.00000	183025.00000
PB	208	1.03600	5.230	1.00619	1.01377	1.08804
TL	203	0.49300	13.822	0.48019	0.43697	0.56183
GE-1	72	20386.70000	2.916	20556.90000	20877.50000	19725.80000
TB-1	159	274828.00000	1.179	277873.00000	271423.00000	275189.00000

USP63 2654

Run Name: 1120703E03
Tube Number: 8
Sample Number: **ICSA**

Date/Time: 07/26/2011 6:35:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	89630.50000	1.421	88166.60000	90231.90000	90493.00000
AL	27	10100.00000	1.896	10154.40000	10061.50000	10084.10000
CA	44	9625.00000	2.017	9686.72000	9564.52000	9623.75000
CR	52	0.10740	60.466	0.13046	0.09686	0.09488
FE	57	10300.00000	2.902	10473.40000	10179.50000	10247.10000
K	39	12100.00000	1.698	12120.50000	12134.30000	12045.20000
MG	24	10180.00000	1.130	10061.50000	10116.40000	10362.10000
MN	55	0.39410	30.043	0.29305	0.48505	0.40420
NA	23	10170.00000	1.232	10135.10000	10133.10000	10241.80000
TI	47	204.20000	4.735	198.38000	197.32100	216.90000
V	51	-0.03504	-87.100	-0.03873	-0.04426	-0.02213
IN-1	115	79029.00000	0.378	78984.10000	78755.50000	79347.40000
AG	107	0.01239	48.547	0.01014	0.01521	0.01183
AS	75	0.10550	156.493	0.12531	0.09800	0.09318
BA	137	-0.04128	-130.596	-0.04644	-0.01548	-0.06192
CD	111	-0.02061	-321.009	-0.02723	-0.01325	-0.02135
CO	59	0.01992	84.739	0.01299	0.02338	0.02338
CU	63	-0.02882	-102.255	-0.02708	-0.03021	-0.02917
MO	98	200.30000	1.661	199.79900	203.10800	197.99300
NI	60	0.08451	83.623	0.03497	0.12239	0.09617
SB	121	0.08219	84.694	0.09021	0.04811	0.10825
SN	120	0.29150	40.103	0.25721	0.38214	0.23516
SR	88	0.46290	14.122	0.39840	0.47807	0.51223
ZN	66	0.24860	52.856	0.14916	0.29832	0.29832
BI-1	209	182461.00000	0.360	182950.00000	181713.00000	182720.00000
PB	208	0.02516	44.674	0.02368	0.02072	0.03108
TL	203	0.00855	121.109	0.01282	0.00733	0.00549
GE-1	72	19929.40000	3.539	20737.30000	19615.70000	19435.20000
TB-1	159	279430.00000	1.034	279266.00000	282399.00000	276626.00000

USF03 2655

Run Name: 1120703E03
Tube Number: 9
Sample Number: **ICSAB**

Date/Time: 07/26/2011 6:37:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	89751.70000	0.902	89336.60000	90684.30000	89234.30000
AL	27	10040.00000	1.463	10131.60000	9989.10000	9999.33000
CA	44	9581.00000	3.681	9594.24000	9305.55000	9843.21000
CR	52	18.95000	1.604	18.52260	19.37750	18.94980
FE	57	10160.00000	1.833	9970.98000	10198.00000	10311.00000
K	39	12000.00000	0.779	11939.90000	12036.00000	12024.10000
MG	24	10070.00000	1.085	10139.40000	10158.20000	9912.41000
MN	55	20.42000	3.583	19.57190	20.69550	20.99260
NA	23	10110.00000	0.663	9996.04000	10221.00000	10112.90000
TI	47	197.10000	0.822	197.89400	197.62700	195.77900
V	51	-0.01583	-194.757	-0.02065	-0.01239	-0.01445
IN-1	115	80237.80000	0.984	79569.90000	80033.70000	81109.60000
AG	107	19.71000	1.572	19.88820	19.57680	19.66500
AS	75	19.73000	4.831	19.89740	20.38520	18.90740
BA	137	-0.07718	-69.707	-0.13892	-0.09262	0.00000
CD	111	19.91000	1.514	19.43310	20.13830	20.15860
CO	59	19.02000	1.353	19.08010	18.69030	19.28970
CU	63	18.85000	1.181	18.68470	18.58930	19.27600
MO	98	200.40000	0.910	200.39700	197.95600	202.84800
NI	60	19.49000	1.648	18.99460	19.46760	20.00780
SB	121	0.02074	286.596	0.01111	0.02000	0.03111
SN	120	0.07371	95.143	0.04498	0.08246	0.09370
SR	88	0.44260	26.480	0.40169	0.55790	0.36822
ZN	66	20.05000	2.121	19.88650	20.42160	19.84190
BI-1	209	181777.00000	0.625	182889.00000	180618.00000	181823.00000
PB	208	0.02118	27.177	0.02095	0.02366	0.01893
TL	203	0.01704	75.059	0.01614	0.02421	0.01076
GE-1	72	20864.20000	2.006	20957.70000	20406.70000	21228.10000
TB-1	159	279412.00000	0.793	278577.00000	281926.00000	277734.00000

USPB3 2656

Run Name: 1120703E03
Tube Number: 10
Sample Number: **CCV**

Date/Time: 07/26/2011 6:38:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	88083.00000	1.186	87984.60000	89173.60000	87090.70000
AL	27	2515.00000	2.452	2491.92000	2497.43000	2555.65000
CA	44	2530.00000	1.541	2521.78000	2527.05000	2541.17000
CR	52	233.80000	0.224	233.02200	236.69000	231.68800
FE	57	2536.00000	0.832	2529.17000	2548.65000	2530.17000
K	39	2349.00000	1.843	2343.47000	2341.67000	2361.86000
MG	24	2394.00000	1.281	2396.03000	2390.83000	2395.13000
MN	55	257.00000	1.437	256.89000	256.40300	257.70700
NA	23	2411.00000	2.443	2411.14000	2387.89000	2433.97000
TI	47	252.20000	0.837	250.40700	254.44200	251.75000
V	51	231.90000	1.138	229.93500	233.45800	232.30700
IN-1	115	77785.80000	0.887	77646.00000	78534.80000	77176.60000
AG	107	24.99000	0.519	24.97680	25.08780	24.90540
AS	75	246.70000	0.519	247.28100	247.63700	245.18200
BA	137	253.60000	2.130	258.47900	250.54100	251.78000
CD	111	25.50000	0.768	25.64260	25.54440	25.31300
CO	59	244.00000	0.980	246.26400	244.49900	241.23800
CU	63	241.10000	0.495	241.44400	242.04400	239.81200
MO	98	25.11000	1.529	25.18540	25.66020	24.48450
NI	60	252.10000	0.983	254.45300	252.62900	249.21800
SB	121	25.35000	1.014	25.59510	25.40070	25.05430
SN	120	25.60000	0.456	25.68670	25.79510	25.31820
SR	88	24.43000	3.144	24.53920	23.83200	24.91880
ZN	66	247.10000	1.481	245.16500	253.66200	242.47400
BI-1	209	180100.00000	0.646	180151.00000	181238.00000	178913.00000
PB	208	25.14000	2.106	25.50080	24.68860	25.23050
TL	203	25.23000	2.472	25.89910	25.29930	24.49160
GE-1	72	19535.70000	0.336	19525.80000	19475.50000	19605.70000
TB-1	159	271723.00000	0.450	270544.00000	271642.00000	272983.00000

USF93 2657

Run Name: 1120703E03 Date/Time: 07/26/2011 6:40:00
Tube Number: 11
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	88717.60000	0.933	89575.90000	88652.10000	87925.00000
AL	27	-0.23290	-126.277	-0.26873	-0.24186	-0.18811
CA	44	-3.20900	-241.384	-3.43825	-2.96214	-3.22661
CR	52	-0.04150	-85.012	-0.04579	-0.04722	-0.03148
FE	57	1.44500	33.287	1.47388	1.56061	1.30051
K	39	-17.67000	-19.576	-17.80780	-17.48120	-17.72100
MG	24	1.05600	15.313	1.14783	1.10191	0.91826
MN	55	0.05460	25.110	0.06035	0.05173	0.05173
NA	23	-6.84800	-120.488	-6.73916	-6.85867	-6.94616
TI	47	-0.07765	-196.909	-0.23295	0.00000	0.00000
V	51	0.06357	50.291	0.05868	0.07579	0.05624
IN-1	115	79388.70000	0.662	79630.50000	79750.00000	78785.60000
AG	107	0.00715	197.985	0.00357	0.00596	0.01191
AS	75	-0.06077	-160.869	-0.05414	-0.06850	-0.05967
BA	137	-0.04111	-264.899	-0.03083	0.00000	-0.09250
CD	111	0.02501	245.542	0.02381	0.01948	0.03174
CO	59	0.04150	21.034	0.04085	0.04669	0.03696
CU	63	-0.03436	-125.029	-0.03748	-0.03186	-0.03374
MO	98	0.09846	14.849	0.08439	0.11253	0.09846
NI	60	0.07018	22.029	0.08098	0.06478	0.06478
SB	121	0.02255	175.654	0.01450	0.02658	0.02658
SN	120	0.18260	40.175	0.22774	0.17850	0.14157
SR	88	-0.02323	-56.393	-0.02323	-0.01549	-0.03097
ZN	66	0.05063	91.902	0.05063	0.03797	0.06329
BI-1	209	184419.00000	1.075	185626.00000	185501.00000	182130.00000
PB	208	0.01062	29.510	0.01020	0.01020	0.01147
TL	203	0.03635	28.583	0.04221	0.02814	0.03870
GE-1	72	20310.00000	4.884	19335.10000	20276.60000	21318.30000
TB-1	159	277099.00000	0.317	277238.00000	277899.00000	276158.00000

USP93 2658

Run Name: 1120703E03 Date/Time: 07/26/2011 6:42:00
Tube Number: 12 Batch: 112041026002A
Sample Number: **PBS** Class: **********

Initial Vol: 1.00 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	91408.90000	1.086	92486.70000	91207.80000	90532.30000
AL	27	8.95500	6.647	8.84789	9.49116	8.52595
CA	44	21.21000	98.963	23.34010	23.06250	17.22740
CR	52	0.06586	51.184	0.05859	0.07358	0.06541
FE	57	22.92000	11.968	21.09350	22.46350	25.20300
K	39	-38.71000	-4.756	-38.88410	-38.79190	-38.45410
MG	24	1.94900	7.435	1.86276	2.06973	1.91451
MN	55	0.25330	30.138	0.26508	0.30042	0.19439
NA	23	-20.50000	-11.337	-20.75570	-20.30200	-20.44230
TI	47	0.35560	146.288	0.00000	0.71120	0.35560
V	51	0.05080	35.886	0.05486	0.04470	0.05283
IN-1	115	84538.50000	1.713	86075.10000	83200.00000	84340.50000
AG	107	-0.00284	-192.862	-0.00310	-0.00155	-0.00388
AS	75	-0.07339	-125.548	-0.07000	-0.06745	-0.08272
BA	137	0.01792	548.493	0.03072	0.00768	0.01536
CD	111	-0.07288	-90.958	-0.09607	-0.03313	-0.08944
CO	59	0.01172	6.976	0.01172	0.01172	0.01172
CU	63	0.58810	32.954	0.57363	0.68790	0.50277
MO	98	0.05547	33.153	0.03840	0.07040	0.05760
NI	60	0.13990	28.949	0.16216	0.15262	0.10493
SB	121	-0.00681	-654.241	-0.00711	-0.00356	-0.00978
SN	120	9.38800	6.553	9.47358	9.87821	8.81220
SR	88	0.07098	62.313	0.07743	0.09034	0.04517
ZN	66	1.36200	15.367	1.24525	1.55657	1.28418
BI-1	209	209482.00000	0.495	210306.00000	208318.00000	209822.00000
PB	208	0.21520	5.730	0.20349	0.21924	0.22287
TL	203	0.02010	58.309	0.01507	0.02764	0.01759
GE-1	72	21906.00000	2.037	22420.10000	21618.90000	21679.00000
TB-1	159	296284.00000	2.125	302978.00000	290483.00000	295390.00000

USFWS 2659

Run Name: 1120703E03
Tube Number: 13
Sample Number: **6339384**

Date/Time: 07/26/2011 6:44:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.00 Final Vol: 1.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	85338.20000	2.211	84121.50000	84381.10000	87512.00000
AL	27	136.60000	5.422	130.57900	143.45200	135.77000
CA	44	251.80000	18.948	214.33400	279.68300	261.38400
CR	52	2.33800	5.607	2.44238	2.24309	2.32853
FE	57	154.20000	3.402	155.99800	154.31200	152.29000
K	39	209.00000	8.330	208.92500	211.55400	206.52100
MG	24	116.00000	1.038	114.02300	113.68100	120.29600
MN	55	2.05000	5.766	2.12338	2.04568	1.98094
NA	23	238.50000	2.347	234.20500	238.42500	242.86900
TI	47	6.90900	32.610	8.72715	7.36357	4.63628
V	51	0.58480	4.337	0.57018	0.60151	0.58271
IN-1	115	76644.50000	1.414	75515.10000	76742.20000	77676.30000
AG	107	0.62290	9.199	0.57859	0.68806	0.60204
AS	75	2.23500	6.680	2.25369	2.30975	2.14156
BA	137	2.45100	4.925	2.49726	2.32384	2.53191
CD	111	0.55270	10.081	0.58886	0.54237	0.52687
CO	59	0.59390	1.768	0.59034	0.58323	0.60812
CU	63	2.88200	3.938	2.83004	2.98593	2.83003
MO	98	0.56550	11.496	0.54530	0.63619	0.51501
NI	60	2.63700	12.146	2.40525	3.00316	2.50258
SB	121	1.21300	3.608	1.22167	1.23466	1.18266
SN	120	12.90000	0.164	12.71780	12.89270	13.08950
SR	88	0.72410	21.268	0.85910	0.58910	0.72410
ZN	66	26.10000	7.280	27.87780	24.93040	25.49180
BI-1	209	187608.00000	3.323	180434.00000	190672.00000	191717.00000
PB	208	1.30000	4.418	1.28552	1.35145	1.26304
TL	203	0.59230	10.218	0.62239	0.61289	0.54162
GE-1	72	20941.00000	2.824	20296.60000	21458.70000	21067.80000
TB-1	159	275185.00000	2.490	267476.00000	277505.00000	280575.00000

USP63 2668

Run Name: 1120703E03
Tube Number: 14
Sample Number: **LCSS**

Date/Time: 07/26/2011 6:46:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 25.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	87982.00000	0.718	87261.00000	88437.70000	88247.40000
AL	27	6418.00000	0.966	6431.80000	6440.57000	6381.63000
CA	44	4921.00000	0.688	4913.82000	4946.24000	4902.94000
CR	52	40.99000	2.813	41.92860	40.86100	40.18030
FE	57	9486.00000	1.032	9519.98000	9490.60000	9447.22000
K	39	869.50000	1.757	875.11000	867.46000	865.93000
MG	24	1515.00000	1.921	1532.97000	1495.42000	1516.61000
MN	55	276.60000	2.159	279.53800	271.51600	278.74600
NA	23	312.70000	1.244	311.53400	315.02400	311.54200
TI	47	282.50000	1.834	274.94900	284.11600	288.43500
V	51	45.56000	0.257	45.08520	45.92360	45.67120
IN-1	115	77581.10000	3.996	74776.20000	77058.00000	80909.30000
AG	107	22.54000	4.485	22.52550	22.74440	22.35010
AS	75	53.96000	5.187	53.26250	55.56890	53.04860
BA	137	139.30000	3.109	138.66000	138.22500	141.01500
CD	111	49.37000	4.223	49.65520	49.06110	49.39360
CO	59	58.80000	2.998	57.69090	59.46460	59.24440
CU	63	34.79000	2.964	34.24630	35.02600	35.09760
MO	98	37.88000	3.572	37.20050	38.52660	37.91290
NI	60	54.22000	6.075	55.31530	54.33200	53.01270
SB	121	27.83000	3.848	28.03170	27.14050	28.31780
SN	120	56.39000	3.596	55.59670	57.14780	56.42560
SR	88	31.63000	3.421	30.84070	32.30080	31.74840
ZN	66	119.60000	4.423	119.47700	120.63900	118.68400
BI-1	209	183377.00000	2.096	180073.00000	182464.00000	187594.00000
PB	208	57.37000	2.480	57.20360	57.87690	57.02940
TL	203	98.42000	1.339	98.10810	97.54750	99.60430
GE-1	72	20133.20000	2.900	19665.70000	19946.20000	20787.60000
TB-1	159	271194.00000	2.192	267429.00000	268106.00000	278046.00000

USP93 2661

Run Name: 1120703E03
Tube Number: 15
Sample Number: **LCSSD**

Date/Time: 07/26/2011 6:48:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 25.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	90701.20000	1.501	89266.70000	91973.20000	90863.60000
AL	27	6941.00000	1.314	6890.41000	6932.66000	6999.93000
CA	44	5622.00000	0.963	5486.80000	5758.93000	5620.27000
CR	52	43.23000	0.544	42.70510	43.56570	43.41920
FE	57	9995.00000	1.789	9838.38000	9954.32000	10192.30000
K	39	893.90000	3.385	896.40000	881.23100	904.06900
MG	24	1614.00000	2.540	1596.20000	1591.97000	1653.83000
MN	55	271.50000	1.201	269.06400	271.52000	273.91700
NA	23	328.90000	1.061	325.25000	333.77300	327.67700
TI	47	294.80000	1.224	286.86600	298.37500	299.15900
V	51	47.02000	2.352	45.78330	46.90480	48.37190
IN-1	115	79354.80000	0.785	78717.20000	79385.60000	79961.60000
AG	107	24.43000	1.166	24.42340	24.11220	24.75440
AS	75	55.75000	2.034	56.58590	55.10820	55.55590
BA	137	143.60000	2.140	140.81300	141.73500	148.25200
CD	111	53.08000	0.491	52.86820	52.81280	53.55900
CO	59	60.38000	1.584	60.36150	59.30320	61.47530
CU	63	37.57000	1.147	37.72600	37.50600	37.47790
MO	98	40.38000	0.490	39.83190	40.54290	40.76520
NI	60	57.79000	0.424	57.60250	57.63050	58.13700
SB	121	28.59000	3.680	28.35420	27.55190	29.86390
SN	120	60.68000	0.534	60.49140	60.74780	60.80080
SR	88	33.42000	2.002	33.09870	32.79030	34.37100
ZN	66	127.60000	1.412	124.58800	128.13000	130.08300
BI-1	209	187610.00000	0.879	187743.00000	185897.00000	189190.00000
PB	208	61.42000	0.904	60.82250	61.18560	62.25180
TL	203	104.50000	0.485	104.61000	104.03400	104.85600
GE-1	72	19956.10000	3.489	19265.10000	19946.00000	20657.30000
TB-1	159	276497.00000	0.877	274090.00000	278939.00000	276461.00000

USF03 2662

Run Name: 1120703E03
Tube Number: 16
Sample Number: **Z339377**

Date/Time: 07/26/2011 6:50:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	132112.00000	0.423	132739.00000	131930.00000	131667.00000
AL	27	154700.00000	3.588	149929.00000	154388.00000	159783.00000
CA	44	22840.00000	3.979	22050.30000	22794.70000	23675.00000
CR	52	168.10000	3.645	162.80600	167.79800	173.69500
FE	57	185700.00000	3.011	181785.00000	184104.00000	191211.00000
K	39	30780.00000	3.525	29741.30000	31009.20000	31589.50000
MG	24	43400.00000	2.892	42220.00000	43657.70000	44322.30000
MN	55	1936.00000	4.014	1858.48000	1956.09000	1993.43000
NA	23	498.40000	4.161	487.24100	500.75900	507.20000
TI	47	8462.00000	3.276	8204.75000	8495.62000	8685.63000
V	51	335.20000	2.578	327.26200	336.90000	341.43800
IN-1	115	94533.00000	2.620	97327.60000	93663.90000	92607.50000
AG	107	0.19180	8.264	0.20978	0.17382	0.19180
AS	75	38.95000	3.769	38.43950	39.21140	39.19910
BA	137	721.70000	4.182	709.19000	723.53300	732.37700
CD	111	0.97830	12.409	0.91149	1.07375	0.94967
CO	59	62.69000	4.947	61.00800	63.19870	63.86330
CU	63	95.63000	5.594	93.34940	94.32400	99.21660
MO	98	2.09100	10.435	1.91157	2.26425	2.09718
NI	60	130.40000	5.723	125.94700	131.10300	134.15000
SB	121	0.66320	12.013	0.60381	0.68299	0.70280
SN	120	16.67000	3.713	16.76500	16.21350	17.03150
SR	88	349.40000	4.811	341.50100	349.11400	357.58500
ZN	66	497.00000	5.374	482.45100	497.80600	510.74200
BI-1	209	231203.00000	1.472	234589.00000	231239.00000	227782.00000
PB	208	67.81000	3.446	66.31580	68.14830	68.96590
TL	203	2.37400	5.476	2.27463	2.38444	2.46293
GE-1	72	29370.80000	0.904	29584.50000	29073.60000	29454.20000
TB-1	159	347013.00000	2.659	356031.00000	347420.00000	337589.00000

USPS 2663

Run Name: 1120703E03
Tube Number: 17
Sample Number: **6339377**

Date/Time: 07/26/2011 6:51:00
Batch: 112041026002A
Class: UP********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	114579.00000	2.627	111291.00000	115245.00000	117201.00000
AL	27	178500.00000	0.701	173162.00000	178389.00000	183949.00000
CA	44	26770.00000	1.272	26351.70000	26898.90000	27059.40000
CR	52	197.50000	1.051	194.15300	197.88800	200.45900
FE	57	216100.00000	0.774	211727.00000	216931.00000	219641.00000
K	39	35670.00000	0.300	34527.90000	35954.50000	36527.60000
MG	24	50730.00000	0.692	49543.90000	51155.30000	51490.70000
MN	55	2263.00000	0.498	2207.44000	2279.36000	2302.20000
NA	23	803.50000	2.861	797.83600	804.76700	807.89700
TI	47	9817.00000	1.316	9668.59000	9753.36000	10029.10000
V	51	389.50000	1.809	385.28500	391.88500	391.33000
IN-1	115	78481.40000	4.957	75959.50000	76523.70000	82961.00000
AG	107	0.77650	7.788	0.81879	0.73037	0.78034
AS	75	49.31000	4.417	49.49600	48.75710	49.67700
BA	137	882.50000	4.704	861.44700	898.77600	887.27700
CD	111	1.84000	10.391	1.95526	1.79180	1.77294
CO	59	77.69000	2.942	76.58490	77.07220	79.41290
CU	63	119.30000	3.307	117.87600	118.57500	121.45000
MO	98	3.28700	10.362	3.52610	3.20481	3.13009
NI	60	160.90000	3.339	160.00900	158.81100	163.88000
SB	121	2.13400	11.012	2.04177	2.31845	2.04178
SN	120	22.56000	2.804	22.54560	21.74040	23.39400
SR	88	422.00000	3.353	415.70700	420.94700	429.34600
ZN	66	615.30000	4.161	615.07100	610.23900	620.59000
BI-1	209	191488.00000	2.943	186484.00000	190387.00000	197593.00000
PB	208	83.20000	2.416	82.90130	82.98700	83.71180
TL	203	3.47800	7.332	3.67596	3.33863	3.41941
GE-1	72	25325.60000	2.784	24864.70000	24974.80000	26137.20000
TB-1	159	286205.00000	3.058	276841.00000	287593.00000	294181.00000

USF03 2664

Run Name: 1120703E03
Tube Number: 18
Sample Number: **6339380**

Date/Time: 07/26/2011 6:53:00
Batch: 112041026002A
Class: D*********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	99363.50000	2.878	97079.80000	98439.40000	102571.00000
AL	27	181700.00000	0.413	176689.00000	180240.00000	188171.00000
CA	44	27480.00000	2.434	26903.20000	27870.00000	27666.70000
CR	52	204.30000	1.687	202.92000	202.68200	207.29800
FE	57	204300.00000	1.277	200827.00000	204219.00000	207854.00000
K	39	35870.00000	1.227	34890.30000	36029.70000	36690.00000
MG	24	51500.00000	1.368	50754.80000	51408.10000	52337.00000
MN	55	2317.00000	1.897	2300.65000	2307.88000	2342.47000
NA	23	710.10000	3.142	704.89600	709.74300	715.66000
TI	47	10220.00000	0.925	10021.90000	10197.20000	10441.00000
V	51	399.50000	1.119	392.90800	398.43800	407.15400
IN-1	115	69231.40000	3.991	66949.80000	68440.70000	72303.70000
AG	107	0.22570	11.848	0.22431	0.24509	0.20770
AS	75	45.51000	3.735	45.52130	45.29960	45.70900
BA	137	876.10000	1.674	857.86400	872.53900	897.89700
CD	111	1.29500	16.973	1.43132	1.09052	1.36316
CO	59	76.51000	2.899	75.54100	76.67780	77.31120
CU	63	116.40000	3.226	115.52900	116.39000	117.28100
MO	98	2.69800	6.683	2.81347	2.57690	2.70364
NI	60	159.20000	1.665	156.49700	154.74400	166.35900
SB	121	0.82010	15.608	0.84790	0.88960	0.72280
SN	120	19.75000	5.453	19.37310	20.45530	19.42160
SR	88	426.50000	2.973	422.90100	425.55400	431.04500
ZN	66	610.10000	2.832	608.88000	598.99900	622.42100
BI-1	209	164117.00000	2.594	159529.00000	164882.00000	167942.00000
PB	208	84.79000	2.056	84.40250	84.15950	85.80810
TL	203	3.18400	6.583	2.98115	3.44033	3.13052
GE-1	72	22059.60000	2.956	21328.30000	22269.80000	22580.60000
TB-1	159	252342.00000	2.777	245436.00000	252142.00000	259448.00000

USP83 2665

Run Name: 1120703E03
Tube Number: 19
Sample Number: **6339378**

Date/Time: 07/26/2011 6:55:00
Batch: 112041026002A
Class: R*********

Initial Vol: 1.05 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	127123.00000	0.695	126386.00000	128103.00000	126881.00000
AL	27	168800.00000	1.779	164722.00000	170331.00000	171347.00000
CA	44	26790.00000	1.798	26427.00000	26655.30000	27287.70000
CR	52	210.40000	1.309	206.54200	211.82100	212.83700
FE	57	173600.00000	1.965	168886.00000	175686.00000	176229.00000
K	39	38330.00000	1.489	37508.90000	38704.20000	38776.90000
MG	24	45670.00000	1.836	44642.10000	45891.70000	46476.20000
MN	55	1950.00000	2.392	1890.89000	1967.81000	1991.30000
NA	23	8294.00000	1.868	8100.45000	8352.63000	8428.92000
TI	47	9420.00000	1.936	9216.19000	9439.16000	9604.66000
V	51	385.80000	1.333	378.79200	388.13000	390.47800
IN-1	115	90378.10000	2.349	88835.00000	89500.20000	92799.20000
AG	107	48.09000	1.771	47.65620	48.22430	48.38950
AS	75	46.06000	4.462	47.10560	45.96850	45.10590
BA	137	785.30000	0.586	774.74800	780.19600	800.95600
CD	111	5.88400	0.195	5.77444	5.83902	6.03855
CO	59	298.10000	1.360	292.35300	299.56700	302.38000
CU	63	139.70000	1.008	138.79900	138.16500	142.13500
MO	98	43.10000	2.933	42.37940	43.94850	42.97220
NI	60	179.30000	1.036	174.84600	176.81400	186.24000
SB	121	2.00100	3.806	2.01236	1.89869	2.09195
SN	120	61.19000	3.036	60.07660	62.49780	60.99560
SR	88	392.90000	1.485	390.37200	391.65900	396.67000
ZN	66	538.80000	1.176	528.34700	540.46200	547.59100
BI-1	209	215723.00000	1.440	212725.00000	218928.00000	215516.00000
PB	208	82.89000	1.545	82.75100	82.67290	83.24610
TL	203	4.34200	4.304	4.15375	4.62156	4.25069
GE-1	72	28869.90000	3.963	28111.60000	30185.80000	28312.40000
TB-1	159	329559.00000	0.544	330061.00000	331049.00000	327568.00000

USF03 2665

Run Name: 1120703E03
Tube Number: 20
Sample Number: **6339379**

Date/Time: 07/26/2011 6:57:00
Batch: 112041026002A
Class: M*********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	123024.00000	1.592	121156.00000	122852.00000	125063.00000
AL	27	184300.00000	1.734	184763.00000	183906.00000	184232.00000
CA	44	28880.00000	2.161	28640.00000	29343.70000	28656.20000
CR	52	226.50000	1.251	226.24800	225.14900	228.10300
FE	57	189100.00000	0.732	186870.00000	189797.00000	190633.00000
K	39	41490.00000	1.031	40577.10000	41918.90000	41974.00000
MG	24	49550.00000	0.713	48762.70000	49852.60000	50034.80000
MN	55	2203.00000	1.769	2212.51000	2189.58000	2206.91000
NA	23	9183.00000	1.706	9004.51000	9337.65000	9206.84000
TI	47	10250.00000	0.578	10161.90000	10196.00000	10392.10000
V	51	417.80000	1.356	413.64700	421.51400	418.23900
IN-1	115	86866.60000	2.489	85581.90000	85654.60000	89363.20000
AG	107	52.01000	3.890	52.72280	52.14280	51.16450
AS	75	50.86000	2.241	51.35920	49.80710	51.41380
BA	137	853.80000	2.091	850.82700	853.11700	857.45600
CD	111	6.11500	3.259	6.16598	6.11092	6.06809
CO	59	330.60000	2.868	329.51500	333.11400	329.17100
CU	63	152.70000	1.781	151.22600	152.83600	154.03800
MO	98	47.71000	1.345	47.19290	47.57890	48.35820
NI	60	195.70000	2.574	194.79600	196.77800	195.52600
SB	121	2.25300	2.332	2.26091	2.23712	2.26097
SN	120	67.34000	1.590	67.38270	66.47370	68.16350
SR	88	433.80000	1.816	430.62900	433.59600	437.17500
ZN	66	593.30000	1.155	581.96200	592.76700	605.17200
BI-1	209	203765.00000	0.745	202838.00000	202940.00000	205517.00000
PB	208	90.88000	0.507	90.21660	91.04330	91.38010
TL	203	4.75600	1.824	4.80657	4.64139	4.82004
GE-1	72	27944.30000	1.858	27459.90000	28492.20000	27880.80000
TB-1	159	311722.00000	0.882	310116.00000	314894.00000	310155.00000

USP83 2567

Run Name: 1120703E03
Tube Number: 21
Sample Number: **6339377**

Date/Time: 07/26/2011 6:59:00
Batch: 112041026002A
Class: UL********

Initial Vol: 1.01 Final Vol: 100.00 DF: 10.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	82323.40000	2.824	80136.40000	82068.40000	84765.40000
AL	27	50810.00000	2.393	50350.60000	51166.20000	50913.20000
CA	44	7381.00000	2.303	7315.52000	7418.61000	7408.88000
CR	52	54.69000	4.319	55.86570	53.72070	54.48360
FE	57	61650.00000	2.749	61811.30000	61215.00000	61923.70000
K	39	10210.00000	3.528	10179.90000	10343.00000	10107.10000
MG	24	14490.00000	3.579	14538.80000	14592.60000	14338.70000
MN	55	588.80000	3.200	593.47500	583.31600	589.60900
NA	23	409.80000	9.646	418.94600	411.38800	399.06600
TI	47	2688.00000	2.998	2680.09000	2707.95000	2675.96000
V	51	106.20000	2.834	106.27300	106.10400	106.22300
IN-1	115	66948.90000	0.981	66221.60000	67125.50000	67499.70000
AG	107	0.96430	13.616	1.05772	1.00799	0.82718
AS	75	11.55000	1.278	11.27210	11.62230	11.75560
BA	137	204.40000	1.844	198.15100	208.32300	206.72600
CD	111	0.36000	25.689	0.42172	0.31886	0.33943
CO	59	22.83000	3.816	23.56210	22.23230	22.69560
CU	63	28.90000	0.309	28.61680	29.04320	29.03800
MO	98	1.34800	9.629	1.42936	1.40320	1.21144
NI	60	37.61000	1.494	37.33420	37.09120	38.40460
SB	121	0.13250	51.676	0.16261	0.09034	0.14454
SN	120	5.37000	2.894	5.44805	5.41109	5.25086
SR	88	95.06000	0.986	94.68330	94.23860	96.25800
ZN	66	148.80000	1.327	149.24800	148.98000	148.17200
BI-1	209	154282.00000	0.514	154809.00000	154667.00000	153370.00000
PB	208	20.30000	0.780	20.19960	20.49480	20.20560
TL	203	0.81310	14.758	0.69113	0.83052	0.91764
GE-1	72	17906.40000	2.464	18093.40000	18223.40000	17402.50000
TB-1	159	241987.00000	0.986	239777.00000	241667.00000	244518.00000

USPB3 2668

Run Name: 1120703E03
Tube Number: 22
Sample Number: **CCV**

Date/Time: 07/26/2011 7:01:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	87657.50000	0.607	88037.40000	87049.40000	87885.60000
AL	27	4048.00000	10.712	4541.78000	3919.46000	3682.75000
CA	44	2923.00000	2.281	2958.04000	2952.71000	2858.26000
CR	52	251.70000	0.393	253.92300	249.54200	251.63500
FE	57	4072.00000	11.486	4543.25000	4072.82000	3599.92000
K	39	2604.00000	2.847	2680.93000	2586.67000	2544.40000
MG	24	2845.00000	3.835	2975.30000	2805.76000	2753.94000
MN	55	286.70000	2.988	295.89700	285.86800	278.33500
NA	23	2593.00000	1.223	2627.46000	2583.00000	2568.54000
TI	47	344.20000	7.214	371.10200	340.77000	320.72900
V	51	248.10000	0.905	246.89300	248.57700	248.83000
IN-1	115	77553.80000	1.773	76391.20000	77198.30000	79071.70000
AG	107	26.64000	3.729	27.24720	26.49370	26.17900
AS	75	260.30000	2.159	262.78500	256.55500	261.56000
BA	137	266.10000	4.359	274.27300	263.64900	260.37700
CD	111	26.89000	3.672	27.17860	27.20680	26.28460
CO	59	259.40000	2.657	263.36500	255.10900	259.72600
CU	63	255.50000	2.601	258.20600	254.55200	253.74200
MO	98	25.67000	4.153	26.19210	25.82900	24.98890
NI	60	268.60000	3.074	273.75900	264.88900	267.15200
SB	121	27.13000	3.959	27.64970	27.25990	26.48040
SN	120	27.08000	3.866	27.69280	27.00750	26.53980
SR	88	28.41000	6.163	29.63330	28.47570	27.12100
ZN	66	259.40000	1.889	260.87400	257.05400	260.27100
BI-1	209	171657.00000	0.166	171423.00000	171975.00000	171572.00000
PB	208	27.57000	1.765	27.90270	27.80090	27.00640
TL	203	27.15000	3.978	28.23050	26.16200	27.05750
GE-1	72	19331.90000	1.158	19135.00000	19575.40000	19285.20000
TB-1	159	265918.00000	2.102	267502.00000	259708.00000	270544.00000

USF03 2669

Run Name: 1120703E03
Tube Number: 23
Sample Number: **CCB**

Date/Time: 07/26/2011 7:03:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93853.30000	3.514	91066.20000	97493.80000	93000.00000
AL	27	14.42000	38.467	19.43340	13.18070	10.64580
CA	44	6.22900	397.174	7.45690	5.39043	5.83967
CR	52	-0.02573	-245.084	-0.03396	-0.02547	-0.01775
FE	57	16.72000	22.028	19.50660	14.94660	15.70680
K	39	-21.40000	-54.299	-21.64870	-21.55380	-20.99750
MG	24	2.79200	26.855	3.43634	2.41614	2.52352
MN	55	0.25130	58.217	0.35529	0.17331	0.22530
NA	23	-0.83550	-2204.670	-0.84766	-0.81715	-0.84170
TI	47	1.45000	47.566	2.06053	0.91579	1.37368
V	51	0.04757	85.075	0.03756	0.06197	0.04319
IN-1	115	83627.00000	1.400	82570.30000	84885.40000	83425.40000
AG	107	0.00964	155.155	0.01515	0.00964	0.00413
AS	75	0.05087	128.504	0.05035	0.04803	0.05423
BA	137	-0.02310	-474.892	-0.04851	-0.00693	-0.01386
CD	111	-0.06650	-46.932	-0.04987	-0.07335	-0.07628
CO	59	0.04340	17.521	0.04340	0.03963	0.04717
CU	63	0.07645	33.093	0.07283	0.08098	0.07554
MO	98	0.04920	93.191	0.09626	0.03209	0.01925
NI	60	0.05134	31.535	0.06027	0.04688	0.04688
SB	121	-0.01793	-348.187	-0.03227	-0.00807	-0.01345
SN	120	0.17070	32.865	0.18777	0.13656	0.18777
SR	88	0.05999	38.723	0.05999	0.07199	0.04799
ZN	66	0.05555	89.109	0.06410	0.06410	0.03846
BI-1	209	183138.00000	1.960	179571.00000	186749.00000	183095.00000
PB	208	0.02555	46.497	0.02977	0.02753	0.01935
TL	203	0.04184	40.774	0.05538	0.03692	0.03323
GE-1	72	21024.50000	2.530	21629.00000	20817.40000	20627.20000
TB-1	159	279514.00000	2.016	277556.00000	285866.00000	275121.00000

USPB3 2678

Run Name: 1120703E03
Tube Number: 24
Sample Number: **6339368**

Date/Time: 07/26/2011 7:05:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	105548.00000	0.711	106402.00000	105251.00000	104992.00000
AL	27	88690.00000	1.149	88380.60000	88452.30000	89237.20000
CA	44	18750.00000	1.481	18607.60000	18952.80000	18689.60000
CR	52	157.10000	1.045	160.09900	155.11300	156.08900
FE	57	133700.00000	1.291	134008.00000	132126.00000	134966.00000
K	39	21470.00000	1.100	21386.10000	21469.90000	21553.90000
MG	24	40010.00000	0.536	40208.80000	40144.70000	39676.50000
MN	55	1425.00000	0.826	1450.17000	1414.53000	1410.30000
NA	23	567.30000	3.926	577.82800	575.55200	548.51900
TI	47	6525.00000	1.101	6567.04000	6441.07000	6566.89000
V	51	283.70000	0.719	288.09200	280.91300	282.09500
IN-1	115	74866.00000	2.082	76536.50000	74611.10000	73450.50000
AG	107	0.10310	17.178	0.10310	0.08888	0.11732
AS	75	35.32000	1.873	35.56560	35.03260	35.36180
BA	137	423.10000	0.714	432.92900	418.49200	417.87900
CD	111	0.82860	14.374	0.74691	0.91613	0.82276
CO	59	43.98000	3.085	44.24920	42.99450	44.69630
CU	63	49.97000	2.273	50.43580	49.16350	50.31070
MO	98	2.33100	6.130	2.24774	2.47410	2.27116
NI	60	76.08000	2.311	76.90380	74.69250	76.64370
SB	121	0.32890	6.382	0.31794	0.33986	0.32890
SN	120	14.63000	4.528	14.57760	14.20780	15.10470
SR	88	181.70000	1.648	183.24400	180.29500	181.56200
ZN	66	397.00000	1.302	401.14300	394.85500	395.00200
BI-1	209	174685.00000	1.265	177147.00000	174033.00000	172876.00000
PB	208	54.47000	0.942	54.64950	54.64670	54.11380
TL	203	1.55300	2.901	1.54094	1.59781	1.52025
GE-1	72	21171.40000	2.645	21789.10000	21027.80000	20697.30000
TB-1	159	281373.00000	1.657	285954.00000	281531.00000	276635.00000

USP03 2671

Run Name: 1120703E03 Date/Time: 07/26/2011 7:07:00
Tube Number: 25 Batch: 112041026002A
Sample Number: **6339369** Class: **********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	122735.00000	1.222	124177.00000	121183.00000	122845.00000
AL	27	82550.00000	1.889	82049.00000	81328.80000	84272.30000
CA	44	23700.00000	2.890	23196.40000	23679.70000	24223.90000
CR	52	173.40000	2.854	169.77400	173.18900	177.23700
FE	57	136000.00000	3.737	131785.00000	138026.00000	138189.00000
K	39	21240.00000	3.466	20656.40000	21277.20000	21786.40000
MG	24	43080.00000	2.827	42328.60000	42600.60000	44310.80000
MN	55	1653.00000	2.350	1627.36000	1656.35000	1675.29000
NA	23	445.90000	2.505	444.50700	440.87400	452.31900
TI	47	6437.00000	2.487	6335.29000	6395.24000	6580.47000
V	51	307.00000	2.814	301.26500	304.60000	315.13600
IN-1	115	87048.80000	1.233	88181.90000	86047.00000	86917.40000
AG	107	0.15090	15.938	0.15303	0.12752	0.17215
AS	75	31.49000	0.827	31.61550	31.33320	31.52130
BA	137	427.20000	2.612	420.04900	426.36300	435.18900
CD	111	0.98090	6.061	0.93773	1.00508	0.99990
CO	59	45.77000	3.358	44.69230	45.54080	47.07700
CU	63	44.04000	2.752	43.25530	43.94410	44.92060
MO	98	2.13900	5.096	2.04054	2.18152	2.19494
NI	60	79.09000	1.669	78.59410	79.06810	79.60780
SB	121	0.52860	6.983	0.57006	0.49751	0.51823
SN	120	16.34000	2.083	16.25960	16.52020	16.24020
SR	88	189.30000	2.499	186.33200	189.09400	192.47400
ZN	66	397.00000	2.723	389.68100	399.76900	401.54900
BI-1	209	200816.00000	0.328	201551.00000	200620.00000	200278.00000
PB	208	98.26000	1.871	97.18980	97.52240	100.06800
TL	203	1.41900	6.100	1.32610	1.47894	1.45196
GE-1	72	26257.50000	2.469	25977.10000	25796.40000	26998.90000
TB-1	159	330250.00000	1.552	336060.00000	326362.00000	328327.00000

USF03 2672

Run Name: 1120703E03
Tube Number: 26
Sample Number: **6339370**

Date/Time: 07/26/2011 7:08:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	91878.90000	0.478	91791.40000	91490.20000	92355.00000
AL	27	134000.00000	0.170	133617.00000	133505.00000	134878.00000
CA	44	24730.00000	1.174	24486.10000	24951.70000	24752.30000
CR	52	188.80000	0.585	189.88300	187.24300	189.27400
FE	57	176900.00000	0.921	174864.00000	176881.00000	178955.00000
K	39	31920.00000	0.891	31685.00000	32104.90000	31970.00000
MG	24	45000.00000	0.490	44897.20000	45053.50000	45049.30000
MN	55	2183.00000	0.472	2169.07000	2178.94000	2201.00000
NA	23	619.00000	1.811	611.60600	623.89200	621.50100
TI	47	8162.00000	0.946	8161.43000	8200.89000	8123.67000
V	51	351.60000	0.477	349.61400	351.80300	353.38300
IN-1	115	63372.50000	0.288	63582.90000	63276.80000	63257.70000
AG	107	0.15850	20.328	0.13208	0.15410	0.18932
AS	75	45.11000	0.540	45.51950	44.83070	44.97980
BA	137	732.60000	1.117	743.69900	723.88600	730.21500
CD	111	1.34300	7.520	1.27074	1.32307	1.43519
CO	59	66.01000	0.783	65.83320	65.72250	66.47430
CU	63	85.46000	0.572	86.20400	85.37850	84.79750
MO	98	3.29300	6.960	3.05317	3.48670	3.33913
NI	60	128.60000	0.858	129.95400	128.69800	127.14800
SB	121	0.64600	12.901	0.71941	0.64600	0.57259
SN	120	18.36000	1.143	18.19650	18.36890	18.51450
SR	88	291.90000	0.679	293.04800	293.34300	289.30900
ZN	66	543.90000	0.843	540.80600	547.27600	543.61800
BI-1	209	149197.00000	0.272	149389.00000	148732.00000	149471.00000
PB	208	67.15000	0.534	67.46830	67.12190	66.85980
TL	203	2.41200	3.052	2.49706	2.38163	2.35732
GE-1	72	19071.40000	2.863	19675.80000	18924.40000	18614.00000
TB-1	159	241263.00000	0.812	243008.00000	241637.00000	239143.00000

USF03 2673

Run Name: 1120703E03
Tube Number: 27
Sample Number: **6339371**

Date/Time: 07/26/2011 7:10:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.00 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	107785.00000	1.393	108536.00000	106057.00000	108762.00000
AL	27	126100.00000	2.052	125001.00000	126982.00000	126317.00000
CA	44	22050.00000	1.229	22244.30000	21943.00000	21962.70000
CR	52	167.00000	1.672	165.81800	167.37800	167.80400
FE	57	158700.00000	1.849	156616.00000	158722.00000	160762.00000
K	39	29310.00000	3.128	28846.30000	29863.10000	29220.60000
MG	24	39100.00000	2.160	38498.40000	39278.00000	39523.60000
MN	55	1900.00000	2.774	1858.30000	1919.22000	1922.49000
NA	23	560.90000	3.157	553.99500	562.93500	565.77000
TI	47	7545.00000	1.620	7504.16000	7561.03000	7569.81000
V	51	324.20000	1.961	320.56900	325.67500	326.35600
IN-1	115	77219.40000	2.695	79500.20000	75422.70000	76735.20000
AG	107	0.14370	28.288	0.10777	0.14729	0.17603
AS	75	38.06000	4.419	37.59810	37.03440	39.54750
BA	137	655.50000	2.294	658.60900	642.50900	665.38300
CD	111	1.17300	0.246	1.20909	1.14292	1.16699
CO	59	56.02000	2.963	55.78100	56.01640	56.26260
CU	63	76.63000	3.226	76.03240	76.50190	77.35570
MO	98	2.74600	6.992	2.64250	2.66524	2.93026
NI	60	108.30000	1.934	109.75600	108.08800	107.05600
SB	121	0.53170	31.089	0.51607	0.66853	0.41050
SN	120	16.05000	4.265	15.73080	16.01380	16.40540
SR	88	271.90000	2.366	272.39200	269.27700	274.03000
ZN	66	464.80000	2.330	466.38300	456.89300	471.12400
BI-1	209	180786.00000	1.709	184040.00000	177894.00000	180422.00000
PB	208	71.50000	1.569	71.52620	70.68660	72.28720
TL	203	2.11700	4.504	2.04514	2.14540	2.16046
GE-1	72	22934.60000	2.784	23652.60000	22430.10000	22720.90000
TB-1	159	288060.00000	2.036	294758.00000	285572.00000	283849.00000

USP83 2374

Run Name: 1120703E03
Tube Number: 28
Sample Number: **6339372**

Date/Time: 07/26/2011 7:12:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.01 | Final Vol: 100.00 | DF: 2.00 | Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	111930.00000	0.779	112118.00000	110980.00000	112693.00000
AL	27	117100.00000	2.375	114081.00000	117688.00000	119531.00000
CA	44	23170.00000	1.632	22844.30000	22947.70000	23718.00000
CR	52	175.80000	1.580	172.96500	175.24100	179.19400
FE	57	153900.00000	1.459	152393.00000	151819.00000	157488.00000
K	39	26720.00000	2.752	25929.00000	26837.00000	27394.00000
MG	24	38800.00000	1.678	38123.60000	38724.10000	39552.30000
MN	55	2007.00000	1.383	1983.15000	1988.68000	2049.17000
NA	23	475.40000	1.500	471.59500	474.76000	479.84500
TI	47	7351.00000	1.838	7209.33000	7341.99000	7501.68000
V	51	325.90000	1.162	322.65900	323.10300	331.93900
IN-1	115	78682.80000	0.520	78570.50000	78341.20000	79136.70000
AG	107	0.16220	11.862	0.16694	0.14207	0.17759
AS	75	42.20000	1.972	42.21490	41.16690	43.21810
BA	137	589.80000	1.435	586.04800	580.59500	602.75800
CD	111	1.08000	9.472	0.98482	1.14799	1.10719
CO	59	54.58000	2.424	53.85960	53.46170	56.41870
CU	63	65.08000	2.820	62.92300	66.15180	66.16520
MO	98	2.86400	3.781	2.86648	2.74023	2.98530
NI	60	101.00000	0.219	101.10700	100.39900	101.49500
SB	121	0.51830	11.831	0.54879	0.45732	0.54879
SN	120	15.87000	1.627	16.13670	15.71000	15.76330
SR	88	290.30000	1.231	285.88500	290.14800	294.86700
ZN	66	426.80000	1.804	426.06100	417.30900	437.02900
BI-1	209	182053.00000	1.419	184985.00000	180109.00000	181064.00000
PB	208	46.78000	1.160	46.95450	46.35410	47.03140
TL	203	1.99600	4.806	1.95952	1.93466	2.09383
GE-1	72	23508.90000	1.151	23522.30000	23772.50000	23231.80000
TB-1	159	295472.00000	0.521	295840.00000	293782.00000	296794.00000

USF03 2675

Run Name: 1120703E03
Tube Number: 29
Sample Number: **Z339373**

Date/Time: 07/26/2011 7:14:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	132399.00000	1.221	134193.00000	131951.00000	131052.00000
AL	27	87250.00000	2.030	86407.90000	87655.40000	87686.70000
CA	44	25400.00000	2.047	25527.10000	24944.00000	25728.80000
CR	52	158.50000	3.479	154.34900	160.15700	160.99400
FE	57	145500.00000	4.108	141639.00000	144720.00000	150141.00000
K	39	12450.00000	3.914	12188.80000	12328.60000	12832.60000
MG	24	48600.00000	3.541	47514.00000	48476.80000	49809.30000
MN	55	1448.00000	3.200	1419.95000	1445.70000	1478.35000
NA	23	516.80000	3.547	511.01800	521.08600	518.29600
TI	47	6436.00000	3.830	6290.34000	6388.67000	6628.99000
V	51	325.90000	3.437	318.58000	325.88700	333.23300
IN-1	115	89602.00000	3.067	92722.30000	88539.30000	87544.50000
AG	107	0.12570	13.365	0.12773	0.13989	0.10948
AS	75	36.88000	4.531	36.65260	36.21950	37.76790
BA	137	538.30000	4.260	534.61100	530.78900	549.50100
CD	111	0.53780	5.487	0.53488	0.55241	0.52611
CO	59	49.54000	3.753	49.38560	48.97400	50.26040
CU	63	39.85000	4.427	39.27890	39.87770	40.39340
MO	98	2.00700	11.465	1.86767	1.94605	2.20729
NI	60	73.86000	3.733	73.26780	74.00940	74.30280
SB	121	0.43820	3.953	0.46741	0.41873	0.42846
SN	120	17.01000	5.249	16.83810	16.60330	17.58850
SR	88	341.30000	5.042	335.74600	337.49300	350.66000
ZN	66	376.40000	4.503	370.74600	375.84500	382.61000
BI-1	209	206814.00000	3.023	214033.00000	203147.00000	203263.00000
PB	208	34.37000	3.727	34.28600	33.74730	35.07670
TL	203	1.42000	3.170	1.43165	1.38361	1.44474
GE-1	72	28265.10000	2.013	28863.00000	28201.80000	27730.50000
TB-1	159	343845.00000	1.422	349324.00000	342282.00000	339929.00000

USP93 2676

Run Name: 1120703E03
Tube Number: 30
Sample Number: **6339374**

Date/Time: 07/26/2011 7:16:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	112145.00000	1.161	110867.00000	112097.00000	113471.00000
AL	27	140900.00000	0.830	140453.00000	139672.00000	142575.00000
CA	44	31410.00000	1.714	31466.10000	30792.60000	31971.30000
CR	52	211.40000	1.184	207.55700	209.83900	216.80400
FE	57	187800.00000	0.961	183771.00000	187906.00000	191723.00000
K	39	22710.00000	1.159	22176.20000	22736.70000	23217.20000
MG	24	48360.00000	0.486	47658.10000	48217.70000	49204.20000
MN	55	2129.00000	2.538	2081.25000	2089.40000	2216.35000
NA	23	546.60000	5.977	562.77100	539.97200	537.05600
TI	47	8001.00000	0.766	7941.77000	7926.94000	8134.29000
V	51	406.40000	1.113	396.89300	407.07800	415.22900
IN-1	115	76178.80000	2.514	74839.60000	75325.10000	78371.70000
AG	107	0.24390	19.623	0.22368	0.29192	0.21610
AS	75	59.75000	1.562	59.74990	58.52040	60.97960
BA	137	844.40000	1.078	832.45400	842.35900	858.38700
CD	111	0.99090	9.143	0.90010	0.97708	1.09552
CO	59	65.61000	1.164	64.82610	65.39470	66.60920
CU	63	78.51000	1.289	77.38080	78.49820	79.65100
MO	98	3.57700	6.503	3.75624	3.51809	3.45667
NI	60	123.40000	0.872	122.28600	122.07000	125.84400
SB	121	0.59060	3.629	0.57854	0.56650	0.62676
SN	120	20.47000	1.929	20.42570	20.37060	20.61360
SR	88	376.60000	2.629	378.35600	375.08600	376.35900
ZN	66	471.60000	2.369	472.02600	470.36600	472.40800
BI-1	209	179395.00000	1.929	176257.00000	178822.00000	183106.00000
PB	208	82.59000	1.023	81.80290	82.62970	83.33740
TL	203	2.15500	4.065	2.08091	2.24761	2.13649
GE-1	72	23932.80000	2.183	23782.50000	23502.00000	24514.00000
TB-1	159	289464.00000	2.624	286582.00000	283731.00000	298079.00000

USPS3 2627

Run Name: 1120703E03
Tube Number: 31
Sample Number: **6339375**

Date/Time: 07/26/2011 7:18:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	101761.00000	1.789	100515.00000	100918.00000	103851.00000
AL	27	119100.00000	0.872	116975.00000	119303.00000	121022.00000
CA	44	24630.00000	1.108	24620.40000	24188.70000	25080.90000
CR	52	192.50000	0.928	189.10500	192.95600	195.43900
FE	57	167500.00000	1.289	163513.00000	165697.00000	173290.00000
K	39	25210.00000	1.057	24678.20000	24931.40000	26020.40000
MG	24	43020.00000	0.953	42095.40000	43077.10000	43887.60000
MN	55	1944.00000	1.890	1888.84000	1967.83000	1975.34000
NA	23	527.70000	0.627	521.26700	521.30000	540.53300
TI	47	7488.00000	0.994	7481.70000	7386.89000	7595.41000
V	51	350.20000	0.226	346.29700	347.83100	356.47300
IN-1	115	69821.70000	2.120	68366.40000	69772.60000	71326.00000
AG	107	0.16130	6.094	0.14797	0.16797	0.16797
AS	75	43.12000	2.848	40.91500	44.10440	44.34070
BA	137	643.20000	1.688	641.57600	640.42500	647.60000
CD	111	1.09400	8.748	1.01288	1.18389	1.08523
CO	59	60.34000	0.441	59.31700	60.01180	61.69110
CU	63	73.92000	1.802	73.88170	72.99450	74.88380
MO	98	2.89300	0.738	2.81209	2.91253	2.95438
NI	60	112.60000	1.919	112.56300	112.15800	113.07900
SB	121	0.47920	17.621	0.53433	0.40711	0.49616
SN	120	18.65000	1.041	18.21280	18.85060	18.88670
SR	88	214.30000	0.278	210.51400	213.79400	218.59200
ZN	66	473.50000	1.995	463.11500	482.94900	474.43500
BI-1	209	166616.00000	1.946	162906.00000	168036.00000	168906.00000
PB	208	59.85000	0.780	58.95900	60.40350	60.18740
TL	203	2.07600	1.526	2.06513	2.07057	2.09230
GE-1	72	21755.80000	1.026	21498.50000	21899.20000	21869.70000
TB-1	159	269249.00000	1.150	267386.00000	267536.00000	272823.00000

USP03 2678

Run Name: 1120703E03
Tube Number: 32
Sample Number: **6339376**

Date/Time: 07/26/2011 7:20:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	99131.30000	2.685	96333.60000	99427.30000	101633.00000
AL	27	108900.00000	1.009	107011.00000	109003.00000	110687.00000
CA	44	19350.00000	1.796	19122.10000	19458.10000	19469.80000
CR	52	186.90000	2.976	187.92700	184.85800	187.91500
FE	57	175700.00000	0.500	171489.00000	176451.00000	179160.00000
K	39	23000.00000	0.825	22529.90000	23084.10000	23386.00000
MG	24	44360.00000	0.556	43379.50000	44423.90000	45276.60000
MN	55	1375.00000	0.527	1344.43000	1375.56000	1405.01000
NA	23	655.60000	3.049	648.94100	659.86200	657.99800
TI	47	5748.00000	1.431	5679.37000	5721.15000	5843.49000
V	51	289.30000	1.382	285.63800	288.53700	293.72500
IN-1	115	71303.50000	1.160	72150.40000	70497.20000	71262.80000
AG	107	0.06573	10.234	0.06919	0.05881	0.06919
AS	75	50.29000	1.460	50.25680	50.50560	50.10770
BA	137	521.10000	1.121	521.65200	521.22400	520.42400
CD	111	0.48340	16.876	0.49051	0.42120	0.53849
CO	59	51.01000	0.695	51.22280	50.73190	51.07520
CU	63	85.00000	2.285	83.93800	85.79770	85.26420
MO	98	3.54000	5.444	3.37047	3.54275	3.70678
NI	60	110.80000	1.416	110.40200	110.92200	111.07600
SB	121	0.69870	10.302	0.75143	0.61961	0.72506
SN	120	16.11000	2.872	16.25910	15.49400	16.57690
SR	88	165.90000	1.843	166.69800	161.73600	169.26600
ZN	66	486.80000	1.201	485.85000	483.86800	490.68100
BI-1	209	169093.00000	1.789	165816.00000	171777.00000	169686.00000
PB	208	53.09000	2.221	53.28830	52.81970	53.16190
TL	203	2.33300	2.051	2.27760	2.42235	2.29905
GE-1	72	20557.10000	2.704	20006.40000	21118.00000	20546.90000
TB-1	159	269653.00000	1.718	264565.00000	273624.00000	270771.00000

USF03 2679

Run Name: 1120703E03 Date/Time: 07/26/2011 7:22:00
Tube Number: 33 Batch: 112041026002A
Sample Number: **6339385** Class: **********

Initial Vol: 1.00 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	100348.00000	1.955	98298.80000	100535.00000	102208.00000
AL	27	163600.00000	0.979	159821.00000	162553.00000	168426.00000
CA	44	27830.00000	1.852	27753.50000	27357.40000	28379.10000
CR	52	192.10000	0.330	188.08600	191.87100	196.34300
FE	57	195800.00000	1.350	191484.00000	193668.00000	202247.00000
K	39	30580.00000	1.474	29967.00000	30181.50000	31591.50000
MG	24	50920.00000	0.975	49469.20000	50871.90000	52418.90000
MN	55	2116.00000	1.523	2045.20000	2112.00000	2190.80000
NA	23	1259.00000	1.736	1250.19000	1244.24000	1282.58000
TI	47	8923.00000	0.804	8796.31000	8859.03000	9113.66000
V	51	368.80000	0.815	363.53800	366.09500	376.76700
IN-1	115	69840.90000	2.163	68108.20000	70880.70000	70533.90000
AG	107	0.22300	9.484	0.21753	0.24626	0.20521
AS	75	42.15000	3.117	41.48070	41.32890	43.64040
BA	137	795.10000	3.506	780.80100	776.39800	828.10000
CD	111	0.85430	15.018	0.76007	0.82289	0.97993
CO	59	74.65000	3.064	74.14690	73.10310	76.70000
CU	63	107.40000	2.136	106.69300	106.49200	109.01600
MO	98	1.89500	1.535	1.88107	1.90615	1.89778
NI	60	148.30000	2.469	145.73300	146.37600	152.79200
SB	121	0.52510	0.931	0.51649	0.52941	0.52940
SN	120	20.02000	3.048	19.44630	19.74680	20.86690
SR	88	460.90000	2.004	454.16300	457.03200	471.50500
ZN	66	584.60000	2.884	569.41600	576.59100	607.79300
BI-1	209	166806.00000	1.764	163453.00000	168962.00000	168004.00000
PB	208	73.30000	2.285	72.41980	72.34110	75.13900
TL	203	3.10900	7.012	3.00377	2.95479	3.36844
GE-1	72	21425.20000	4.031	20657.20000	21258.20000	22360.10000
TB-1	159	255972.00000	2.237	249405.00000	258578.00000	259933.00000

USP83 2686

Run Name: 1120703E03
Tube Number: 34
Sample Number: **CCV**

Date/Time: 07/26/2011 7:23:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	88515.60000	0.502	88599.90000	88035.00000	88911.90000
AL	27	2547.00000	1.671	2597.45000	2518.41000	2525.15000
CA	44	2617.00000	4.310	2494.63000	2666.77000	2689.60000
CR	52	236.60000	0.586	237.78700	235.94600	236.06700
FE	57	2624.00000	1.096	2641.74000	2627.69000	2602.57000
K	39	2349.00000	1.191	2350.09000	2361.31000	2335.60000
MG	24	2372.00000	2.412	2426.15000	2368.84000	2321.01000
MN	55	256.20000	0.162	256.83900	254.84800	256.91300
NA	23	2388.00000	0.655	2395.23000	2385.56000	2383.21000
TI	47	252.70000	2.489	251.89500	258.06200	248.14300
V	51	235.30000	1.507	237.40600	236.23600	232.25800
IN-1	115	79769.50000	1.046	80690.10000	79064.00000	79554.30000
AG	107	24.95000	1.184	25.43780	24.86860	24.54370
AS	75	244.90000	0.325	247.06400	242.51600	245.12100
BA	137	251.20000	0.982	256.93700	247.25400	249.40900
CD	111	25.39000	1.339	25.33990	25.49710	25.33300
CO	59	240.30000	1.190	240.90200	241.40500	238.59300
CU	63	239.00000	1.050	239.16000	237.06200	240.77800
MO	98	24.08000	1.626	24.22450	24.30550	23.70990
NI	60	250.80000	1.306	254.72600	251.20400	246.47000
SB	121	24.99000	0.843	25.08920	24.99450	24.88620
SN	120	25.46000	1.415	25.36490	25.55510	25.46000
SR	88	24.81000	1.744	25.59740	24.34610	24.48650
ZN	66	245.90000	1.007	246.92500	242.71600	248.05900
BI-1	209	183075.00000	1.799	186769.00000	182013.00000	180443.00000
PB	208	25.19000	1.962	25.12890	25.40300	25.03800
TL	203	24.69000	0.230	25.25130	24.53190	24.28680
GE-1	72	19612.40000	3.838	20477.40000	19104.70000	19255.20000
TB-1	159	274352.00000	3.021	282896.00000	273817.00000	266344.00000

USP63 2691

Run Name: 1120703E03
Tube Number: 35
Sample Number: **CCB**

Date/Time: 07/26/2011 7:25:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	90737.60000	1.305	90212.00000	92093.30000	89907.60000
AL	27	8.78600	22.570	8.24701	7.60017	10.51080
CA	44	8.01500	37.305	7.97586	8.32778	7.74137
CR	52	-0.07054	-28.863	-0.08007	-0.07149	-0.06005
FE	57	11.71000	20.231	12.27120	13.23400	9.62470
K	39	-26.22000	-20.195	-26.03970	-26.16910	-26.45110
MG	24	3.24800	16.687	3.32310	3.71736	2.70354
MN	55	0.23090	18.263	0.25976	0.20781	0.22513
NA	23	-6.35100	-74.760	-6.28776	-6.37290	-6.39234
TI	47	0.35680	73.599	0.53520	0.35680	0.17840
V	51	0.04971	93.885	0.06247	0.05038	0.03627
IN-1	115	82951.90000	0.254	82709.20000	83083.70000	83062.70000
AG	107	-0.00377	-317.157	-0.00792	-0.00113	-0.00226
AS	75	0.11100	148.739	0.08965	0.12167	0.12167
BA	137	0.01071	180.579	0.00989	0.00989	0.01236
CD	111	-0.04297	-41.843	-0.04793	-0.04132	-0.03966
CO	59	0.03937	37.186	0.04543	0.04179	0.03089
CU	63	0.01860	24.693	0.01850	0.01880	0.01850
MO	98	0.02584	31.664	0.02982	0.01789	0.02982
NI	60	0.07819	67.502	0.07280	0.04853	0.11324
SB	121	-0.02642	-130.621	-0.03082	-0.03523	-0.01321
SN	120	0.12160	44.104	0.11187	0.15078	0.10214
SR	88	-0.00037	-5678.710	-0.00030	-0.00030	-0.00052
ZN	66	0.07148	125.937	0.04595	0.06127	0.10722
BI-1	209	186013.00000	1.513	189077.00000	185419.00000	183543.00000
PB	208	0.00923	15.301	0.00948	0.00948	0.00872
TL	203	0.03571	53.038	0.05184	0.02765	0.02765
GE-1	72	21067.90000	1.789	20988.00000	20737.40000	21478.50000
TB-1	159	281441.00000	1.160	281890.00000	284459.00000	277973.00000

USF03 2682

Run Name: 1120703E03
Tube Number: 36
Sample Number: **6339386**

Date/Time: 07/26/2011 7:27:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	103895.00000	1.517	102419.00000	105554.00000	103711.00000
AL	27	135400.00000	1.787	131814.00000	136458.00000	137928.00000
CA	44	29720.00000	1.610	29771.00000	29713.50000	29675.60000
CR	52	218.50000	0.892	216.28900	219.73900	219.47100
FE	57	198000.00000	1.506	195446.00000	198037.00000	200518.00000
K	39	32610.00000	0.824	32347.80000	32827.00000	32655.20000
MG	24	55420.00000	0.757	54471.00000	55989.30000	55799.60000
MN	55	2392.00000	1.299	2344.92000	2407.78000	2423.30000
NA	23	682.30000	1.396	675.99600	685.83600	685.06900
TI	47	9436.00000	1.885	9417.91000	9380.30000	9509.80000
V	51	415.70000	0.807	412.75100	418.67300	415.67600
IN-1	115	71051.70000	0.695	71619.70000	70722.60000	70812.80000
AG	107	0.16710	20.036	0.14605	0.15394	0.20131
AS	75	54.44000	1.207	55.53410	53.55150	54.23450
BA	137	762.90000	1.450	756.91900	761.70300	770.07800
CD	111	1.21400	3.625	1.22934	1.24249	1.17017
CO	59	81.29000	1.393	80.70680	81.14490	82.01830
CU	63	76.72000	1.150	76.43900	76.39700	77.32390
MO	98	3.41200	4.282	3.28306	3.52996	3.42298
NI	60	126.50000	1.530	127.60100	123.94500	127.95400
SB	121	0.64670	17.257	0.55057	0.73409	0.65544
SN	120	22.05000	2.317	22.61850	21.37490	22.15660
SR	88	242.80000	2.053	239.54400	242.10300	246.75300
ZN	66	593.20000	0.550	594.17100	592.53200	592.89700
BI-1	209	164268.00000	0.853	164428.00000	162794.00000	165582.00000
PB	208	70.96000	0.626	70.51610	70.57390	71.79000
TL	203	2.70600	1.692	2.66184	2.68389	2.77227
GE-1	72	21912.70000	1.855	21518.60000	22330.30000	21889.00000
TB-1	159	265619.00000	0.648	263791.00000	267211.00000	265856.00000

USP63 2693

Run Name: 1120703E03
Tube Number: 37
Sample Number: **6339387**

Date/Time: 07/26/2011 7:29:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	106170.00000	1.579	104971.00000	108084.00000	105454.00000
AL	27	167100.00000	0.801	165852.00000	168562.00000	166886.00000
CA	44	34380.00000	1.108	34071.20000	34584.00000	34484.80000
CR	52	256.50000	1.207	254.64700	257.61700	257.23600
FE	57	238800.00000	1.662	234568.00000	240135.00000	241697.00000
K	39	29760.00000	1.742	29336.30000	29831.70000	30112.00000
MG	24	67430.00000	1.969	66668.30000	67310.40000	68311.30000
MN	55	3532.00000	0.743	3501.21000	3565.87000	3528.92000
NA	23	905.50000	3.025	903.95700	898.92100	913.62200
TI	47	11390.00000	1.238	11278.50000	11445.60000	11445.80000
V	51	491.30000	0.713	487.30000	496.11900	490.48100
IN-1	115	68566.20000	2.026	69181.80000	69540.90000	66975.70000
AG	107	0.25420	15.488	0.29914	0.23173	0.23173
AS	75	70.93000	1.611	70.88370	71.33450	70.57170
BA	137	978.60000	2.153	975.00600	980.84600	979.94800
CD	111	1.19500	6.274	1.26290	1.22216	1.09994
CO	59	112.10000	2.779	113.12700	110.58400	112.59000
CU	63	100.20000	1.845	100.11300	100.51400	99.97350
MO	98	3.22400	5.704	3.10456	3.21550	3.35194
NI	60	165.70000	0.930	167.94800	166.27400	162.87800
SB	121	0.72590	28.861	0.53753	0.90967	0.73050
SN	120	25.77000	1.776	25.96260	25.70430	25.64300
SR	88	320.70000	2.025	322.40900	319.48100	320.21000
ZN	66	690.80000	1.879	694.58400	689.12700	688.68900
BI-1	209	161561.00000	1.500	163392.00000	158811.00000	162479.00000
PB	208	74.34000	2.010	73.47010	74.15150	75.39840
TL	203	3.39000	1.355	3.40687	3.38439	3.37874
GE-1	72	23241.80000	2.266	23211.80000	23782.80000	22730.80000
TB-1	159	259353.00000	2.314	264586.00000	260672.00000	252801.00000

USF03 2894

Run Name: 1120703E03
Tube Number: 38
Sample Number: **6339377**

Date/Time: 07/26/2011 7:31:00
Batch: 112041026002A
Class: U*********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	99285.50000	2.399	96897.80000	101663.00000	99295.90000
AL	27	140500.00000	2.586	140614.00000	140098.00000	140789.00000
CA	44	21260.00000	2.451	21165.20000	21183.50000	21431.30000
CR	52	158.10000	2.665	158.81900	158.14100	157.34100
FE	57	174500.00000	1.786	173419.00000	175563.00000	174518.00000
K	39	28680.00000	1.715	28345.60000	28806.70000	28887.70000
MG	24	40190.00000	2.010	40012.60000	40325.70000	40231.70000
MN	55	1828.00000	2.430	1816.69000	1820.66000	1846.66000
NA	23	531.20000	4.806	533.97400	528.49500	531.13200
TI	47	7819.00000	2.060	7771.47000	7829.23000	7856.31000
V	51	314.60000	3.024	316.97100	313.17100	313.65900
IN-1	115	72357.80000	0.871	72998.90000	71738.40000	72336.10000
AG	107	0.13270	14.898	0.12133	0.15166	0.12512
AS	75	36.20000	2.330	36.69210	36.61110	35.29680
BA	137	673.40000	1.451	670.68800	678.19600	671.31600
CD	111	1.02100	5.003	1.00426	1.06075	0.99798
CO	59	58.14000	2.105	57.23780	58.38870	58.79350
CU	63	89.47000	1.020	89.34980	89.60610	89.45410
MO	98	1.97700	2.540	1.93663	1.99316	2.00121
NI	60	122.00000	2.506	119.68500	121.76900	124.54600
SB	121	0.60730	13.524	0.66251	0.52236	0.63703
SN	120	15.59000	2.076	16.01500	15.11090	15.64420
SR	88	318.50000	0.873	318.79900	318.74500	317.95600
ZN	66	475.50000	0.186	478.68800	471.87800	475.93400
BI-1	209	174244.00000	1.085	176267.00000	173947.00000	172519.00000
PB	208	64.40000	0.954	65.65360	63.60520	63.94120
TL	203	2.16100	7.450	2.25112	1.97556	2.25632
GE-1	72	21318.40000	4.601	21568.70000	22149.80000	20236.70000
TB-1	159	263535.00000	0.649	263627.00000	265197.00000	261780.00000

USP89 2685

Run Name: 1120703E03
Tube Number: 39
Sample Number: **6339373**

Date/Time: 07/26/2011 7:33:00
Batch: 112041026002A
Class: **********

Initial Vol: 1.00 Final Vol: 100.00 DF: 2.00 Protocol: MOBIL

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	108119.00000	0.385	107864.00000	108600.00000	107893.00000
AL	27	77340.00000	1.385	76250.70000	77412.30000	78357.00000
CA	44	22550.00000	0.614	22530.40000	22498.70000	22620.90000
CR	52	141.10000	1.345	139.22200	141.16300	142.91500
FE	57	132100.00000	1.277	130309.00000	132335.00000	133656.00000
K	39	11220.00000	1.176	11051.40000	11306.20000	11302.40000
MG	24	42730.00000	1.634	41976.10000	42839.40000	43374.50000
MN	55	1255.00000	4.667	1288.06000	1192.83000	1284.10000
NA	23	481.00000	2.042	484.67500	476.78900	481.53600
TI	47	5686.00000	0.617	5634.11000	5741.64000	5682.26000
V	51	289.10000	0.935	288.75400	287.52700	291.01900
IN-1	115	73095.00000	1.170	72962.40000	72313.70000	74008.90000
AG	107	0.09756	18.583	0.09756	0.11201	0.08311
AS	75	34.30000	2.948	34.72780	34.58350	33.58870
BA	137	478.60000	1.707	483.79600	476.78100	475.22300
CD	111	0.54670	14.033	0.60425	0.49095	0.54490
CO	59	44.79000	0.873	44.88020	44.58930	44.90060
CU	63	35.83000	1.951	35.26840	36.22760	35.99400
MO	98	1.78900	6.490	1.70113	1.90084	1.76503
NI	60	67.11000	1.068	67.79990	66.13190	67.39820
SB	121	0.34870	13.427	0.35249	0.30701	0.38660
SN	120	15.82000	3.446	15.57900	15.24610	16.63490
SR	88	310.70000	0.687	309.01000	306.03100	317.05900
ZN	66	344.60000	0.645	343.77800	343.22900	346.79300
BI-1	209	171704.00000	1.190	172834.00000	169346.00000	172932.00000
PB	208	30.42000	1.604	30.11420	30.46590	30.67990
TL	203	1.24400	4.567	1.21250	1.20201	1.31749
GE-1	72	22563.70000	1.425	22229.70000	22870.90000	22590.50000
TB-1	159	284173.00000	1.746	289266.00000	283898.00000	279354.00000

USF03 2686

Run Name: 1120703E03
Tube Number: 40
Sample Number: **LLC**

Date/Time: 07/26/2011 7:35:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	88354.50000	0.770	88055.50000	87874.50000	89133.50000
AL	27	126.10000	6.688	135.18100	119.75700	123.36200
CA	44	185.70000	8.196	179.63600	195.55500	181.90900
CR	52	1.94200	3.622	1.89155	1.90236	2.03209
FE	57	142.00000	8.965	149.03600	148.06100	128.90300
K	39	162.70000	3.029	161.40200	163.67900	163.02000
MG	24	110.50000	3.626	113.02500	111.57600	106.89900
MN	55	1.59300	6.767	1.69975	1.50267	1.57658
NA	23	192.50000	4.971	194.58700	192.58800	190.32600
TI	47	6.72000	21.280	6.80722	5.23634	8.11643
V	51	0.57240	6.178	0.59047	0.53625	0.59048
IN-1	115	78669.80000	0.602	78976.80000	78124.50000	78908.10000
AG	107	0.57660	3.699	0.55505	0.58167	0.59308
AS	75	2.15900	4.134	2.13016	2.21667	2.13017
BA	137	2.30100	3.669	2.32343	2.35712	2.22246
CD	111	0.44120	19.406	0.49283	0.37549	0.45528
CO	59	0.49320	7.451	0.45553	0.51032	0.51375
CU	63	2.10200	11.270	1.93100	2.28182	2.09318
MO	98	0.54570	6.973	0.58995	0.53095	0.51620
NI	60	2.13200	10.929	1.91608	2.34792	2.13200
SB	121	0.89000	15.888	0.93512	0.98433	0.75055
SN	120	2.08800	6.284	2.12167	1.93981	2.20253
SR	88	0.61220	10.524	0.67107	0.61220	0.55333
ZN	66	16.47000	2.660	16.21270	16.84850	16.34880
BI-1	209	182173.00000	0.125	182189.00000	182392.00000	181938.00000
PB	208	1.05400	3.196	1.01871	1.08469	1.05861
TL	203	0.51910	6.317	0.54019	0.53532	0.48179
GE-1	72	19595.70000	2.518	19655.80000	19074.90000	20056.40000
TB-1	159	277703.00000	1.156	280449.00000	274174.00000	278487.00000

USF03 2697

Run Name: 1120703E03
Tube Number: 41
Sample Number: **ICSA**

Date/Time: 07/26/2011 7:36:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	88146.60000	1.903	86505.80000	89858.10000	88075.80000
AL	27	9960.00000	1.710	9802.71000	9969.01000	10108.30000
CA	44	9645.00000	0.921	9460.07000	9746.57000	9728.36000
CR	52	0.10400	36.519	0.09223	0.10204	0.11774
FE	57	10240.00000	1.964	10178.60000	10204.90000	10336.50000
K	39	12160.00000	2.364	12154.00000	12078.70000	12247.30000
MG	24	9969.00000	2.208	9833.10000	9919.45000	10154.40000
MN	55	0.55770	1.326	0.55036	0.56136	0.56137
NA	23	9999.00000	2.593	10058.60000	9937.25000	10001.10000
TI	47	200.30000	5.886	208.82400	202.90200	189.17400
V	51	0.04307	76.039	0.05056	0.03558	0.04307
IN-1	115	78694.00000	2.261	77105.00000	78361.80000	80615.20000
AG	107	-0.00186	-315.558	-0.00102	-0.00254	-0.00203
AS	75	0.04269	408.995	0.04524	0.03341	0.04942
BA	137	0.00649	515.030	0.00649	0.00487	0.00811
CD	111	-0.03568	-60.342	-0.03892	-0.03614	-0.03197
CO	59	0.00423	74.751	0.00423	0.00384	0.00461
CU	63	-0.01695	-101.062	-0.01655	-0.01745	-0.01685
MO	98	200.30000	2.246	200.03300	200.70400	200.16300
NI	60	0.08967	40.950	0.07174	0.11657	0.08070
SB	121	-0.00450	-923.299	-0.00307	-0.00368	-0.00675
SN	120	0.08943	43.039	0.09520	0.09953	0.07356
SR	88	0.43120	19.351	0.49929	0.36311	0.43120
ZN	66	0.18970	26.057	0.21680	0.16260	0.18970
BI-1	209	181808.00000	1.101	182219.00000	179633.00000	183573.00000
PB	208	0.03587	14.204	0.03881	0.03264	0.03616
TL	203	0.00200	524.762	0.00300	0.00240	0.00060
GE-1	72	20817.40000	1.988	21258.10000	20436.90000	20757.30000
TB-1	159	275051.00000	0.955	272077.00000	276022.00000	277054.00000

USP83: 2699

Run Name: 1120703E03
Tube Number: 42
Sample Number: **ICSAB**

Date/Time: 07/26/2011 7:38:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	88227.70000	0.222	88449.50000	88076.90000	88156.80000
AL	27	10210.00000	0.184	10247.90000	10171.00000	10211.10000
CA	44	9692.00000	2.807	9815.95000	9371.21000	9888.84000
CR	52	19.36000	2.667	19.99780	19.06790	19.01430
FE	57	10380.00000	1.024	10293.00000	10460.30000	10386.80000
K	39	12340.00000	1.134	12452.10000	12161.80000	12406.00000
MG	24	10130.00000	1.975	9998.85000	10338.10000	10053.00000
MN	55	20.62000	1.628	20.93100	20.20830	20.72070
NA	23	10230.00000	0.641	10304.20000	10140.70000	10245.00000
TI	47	213.80000	1.164	217.20600	211.82800	212.36600
V	51	0.02776	116.138	0.02512	0.02379	0.03437
IN-1	115	79784.80000	0.501	80245.10000	79579.80000	79529.60000
AG	107	19.76000	0.649	20.02020	19.61450	19.64530
AS	75	19.82000	3.746	20.62790	19.04100	19.79110
BA	137	-0.01877	-282.579	-0.02816	-0.01126	-0.01689
CD	111	19.82000	1.164	20.15640	19.78140	19.52230
CO	59	19.44000	2.095	19.31070	19.85890	19.15040
CU	63	19.24000	1.885	19.75750	19.02020	18.94240
MO	98	201.60000	1.050	203.74800	198.65700	202.39500
NI	60	20.17000	2.126	20.59550	20.29680	19.61770
SB	121	0.00827	186.623	0.00893	0.00695	0.00893
SN	120	0.07169	83.833	0.07787	0.08899	0.04821
SR	88	0.44100	14.619	0.40363	0.50454	0.41484
ZN	66	19.26000	2.966	18.96130	19.85770	18.96100
BI-1	209	184320.00000	1.900	187950.00000	184049.00000	180961.00000
PB	208	0.02674	38.220	0.02876	0.02119	0.03027
TL	203	-0.00163	-332.619	-0.00245	-0.00123	-0.00123
GE-1	72	19932.80000	1.125	19675.60000	20086.60000	20036.40000
TB-1	159	278640.00000	1.062	281925.00000	277818.00000	276178.00000

USP93 2689

Run Name: 1120703E03
Tube Number: 43
Sample Number: **CCV**

Date/Time: 07/26/2011 7:40:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	87508.80000	0.944	86958.50000	87109.50000	88458.50000
AL	27	2497.00000	0.547	2495.60000	2484.22000	2511.18000
CA	44	2557.00000	2.378	2599.63000	2544.58000	2526.80000
CR	52	236.90000	2.841	241.04000	237.67700	231.98400
FE	57	2542.00000	1.461	2530.36000	2565.28000	2530.36000
K	39	2373.00000	1.051	2346.79000	2387.37000	2384.84000
MG	24	2376.00000	2.301	2386.38000	2402.91000	2338.71000
MN	55	259.50000	2.525	255.60200	265.69900	257.19900
NA	23	2380.00000	1.887	2373.29000	2403.77000	2362.95000
TI	47	240.80000	2.939	236.37100	247.76200	238.26800
V	51	234.70000	2.594	238.53200	235.00000	230.56700
IN-1	115	78075.80000	1.146	77219.90000	79005.30000	78002.20000
AG	107	25.15000	1.049	25.17500	25.32930	24.94570
AS	75	248.80000	0.630	247.76900	251.41500	247.21600
BA	137	259.60000	0.658	257.83600	263.97800	257.58500
CD	111	25.74000	2.618	26.20130	25.83780	25.18090
CO	59	243.90000	0.722	243.24200	245.93400	242.52300
CU	63	243.30000	1.331	243.93400	246.01000	239.95600
MO	98	25.19000	0.927	24.94700	25.70590	24.91710
NI	60	251.90000	1.699	253.47900	250.68600	251.53500
SB	121	25.59000	1.106	25.34590	25.59470	25.82930
SN	120	25.79000	2.028	26.09560	25.70730	25.56710
SR	88	24.91000	5.143	26.10220	24.53590	24.09200
ZN	66	250.80000	2.864	255.39900	246.78800	250.21300
BI-1	209	180439.00000	0.605	180320.00000	181586.00000	179411.00000
PB	208	25.51000	0.859	25.38880	25.52550	25.61570
TL	203	25.09000	1.807	24.91090	25.76250	24.59660
GE-1	72	19882.60000	2.660	19655.40000	20487.20000	19505.20000
TB-1	159	270565.00000	0.569	272319.00000	269432.00000	269946.00000

USF03 2698

Run Name: 1120703E03
Tube Number: 44
Sample Number: **CCB**

Date/Time: 07/26/2011 7:42:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	87992.50000	0.462	88428.80000	87925.60000	87623.20000
AL	27	3.66100	17.495	3.83744	3.96975	3.17580
CA	44	-9.12500	-338.521	-12.16670	-8.32456	-6.88371
CR	52	-0.04586	-83.319	-0.04258	-0.03767	-0.05733
FE	57	6.40400	21.127	7.35780	5.72273	6.13147
K	39	-30.67000	-4.594	-30.79120	-30.52080	-30.69800
MG	24	1.79800	20.300	1.85088	2.06242	1.48070
MN	55	0.09565	41.401	0.11600	0.07937	0.09158
NA	23	-0.13630	-1146.740	-0.13760	-0.13618	-0.13511
TI	47	-0.07568	-206.527	0.00000	0.00000	-0.22704
V	51	0.06757	59.997	0.06671	0.08211	0.05388
IN-1	115	80117.10000	0.770	80545.10000	80396.20000	79410.20000
AG	107	-0.00079	-967.644	-0.00040	-0.00119	-0.00079
AS	75	-0.15290	-91.171	-0.16426	-0.12087	-0.17356
BA	137	0.05068	157.419	0.07602	0.03801	0.03801
CD	111	-0.03941	-115.783	-0.04299	-0.04760	-0.02764
CO	59	0.03598	18.897	0.03598	0.03958	0.03238
CU	63	0.02175	106.161	0.02087	0.02246	0.02193
MO	98	0.07312	20.145	0.08912	0.06855	0.06169
NI	60	0.03758	75.466	0.02373	0.04747	0.04154
SB	121	0.02574	106.876	0.02396	0.03195	0.02130
SN	120	0.08510	41.257	0.07000	0.09059	0.09471
SR	88	0.00165	2023.070	0.00231	0.00198	0.00066
ZN	66	-0.02597	-103.466	-0.02226	-0.02226	-0.03339
BI-1	209	183403.00000	1.604	186737.00000	182295.00000	181177.00000
PB	208	0.00972	45.105	0.01119	0.00919	0.00879
TL	203	0.02816	59.695	0.03899	0.02924	0.01625
GE-1	72	20643.90000	4.754	21769.30000	19966.00000	20196.50000
TB-1	159	272486.00000	0.557	272089.00000	274163.00000	271204.00000

USF03 2691

Lancaster Laboratories

Instrument Tuning Report (ICPMS #11332)

File Name: default.tun

File Path: C:\elandata\Tuning

Sample Date/Time: 7/26/2011 5:56:00AM

Number of Replicates: 6

Method File: c:\elandata\Method\dailytune.mth

Measured Mass must be within +/- 0.1 amu of the Exact Mass.

Measured Peak Width must be > or = to 0.640 AND < or = to 0.660.

Analyte	EXACT MASS	MEAS. MASS	Mass DAC	RES. DAC	MEAS. PK. WIDTH
Ce	140.000	140.050	0	0	0.650
In	115.000	115.050	0	0	0.650
Li	6.000	6.100	0	0	0.650
Mg	24.000	24.050	0	0	0.650
Pb	208.000	208.000	0	0	0.650
Rh	103.000	103.050	0	0	0.650
U	238.000	237.950	0	0	0.600

Summary: Verify that the RSD is less than 5 for the following masses.

Mass	Meas. Intens. Mean	Meas. Intens. RSD
140.000	92933.000	1.660
115.000	100302.000	1.810
6.000	46279.000	1.650
24.000	62983.000	2.410
208.000	31766.000	2.190
103.000	102242.000	1.980
238.000	48967.000	2.060

USF93 2692

Lancaster Laboratories

ICP-MS Run Data Report

1120805E03

Date File Name: 11G27H00.E03

Run Name: 1120805E03

Analyst: 1242

Method Reference Name(s):
SW-846 6020

Reviewed By:
Choon Y Tian

Reviewed Date
07/27/2011 09:05

Verified By:
Jennifer L Moyer

Verified Date
07/27/2011 10:32

Instrument Parameters:

Rinse Time (sec): 25.00

INTERNAL STD.	ELEMENT	MASS
SC-1		45
	NA	23
	MG	24
	AL	27
	K	39
	CA	44
	TI	47
	V	51
	CR	52
	MN	55
	FE	57
IN-1		115
	CO	59
	NI	60
	CU	63
	ZN	66
	AS	75
	SR	88
	MO	98
	AG	107
	CD	111
	SN	120
	SB	121
	BA	137
BI-1		209
	TL	203
	PB	208

USF83 2693

Run Name: 1120805E03
Tube Number: 1
Sample Number: S0

Date/Time: 07/27/2011 7:33:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
NA	23	0.00000	-273695000	0.00000	0.00000	0.00000
MG	24	0.00000	-1041410000	0.00000	0.00000	0.00000
AL	27	0.00000	-21476000000	0.00000	0.00000	0.00000
K	39	0.00000	-99266600	0.00000	0.00000	0.00000
CA	44	0.00000	734504000	0.00000	0.00000	0.00000
SC-1	45	94454.60000	0.487	94894.80000	93976.90000	94492.10000
TI	47	0.00000	2661880000	0.00000	0.00000	0.00000
V	51	0.00000	777744000	0.00000	0.00000	0.00000
CR	52	0.00000	481854000	0.00000	0.00000	0.00000
MN	55	0.00000	3374030000	0.00000	0.00000	0.00000
FE	57	0.00000	-372990000	0.00000	0.00000	0.00000
CO	59	0.00000	-912626000	0.00000	0.00000	0.00000
NI	60	0.00000	13278300000	0.00000	0.00000	0.00000
CU	63	0.00000	-268230000	0.00000	0.00000	0.00000
ZN	66	0.00000	-4181160000	0.00000	0.00000	0.00000
GE-1	72	20607.30000	0.222	20597.40000	20657.20000	20567.30000
AS	75	0.00000	-1936820000	0.00000	0.00000	0.00000
SR	88	0.00000	8131380000	0.00000	0.00000	0.00000
MO	98	0.00000	705209000	0.00000	0.00000	0.00000
AG	107	0.00000	2113190000	0.00000	0.00000	0.00000
CD	111	0.00000	133589000000	0.00000	0.00000	0.00000
IN-1	115	94482.30000	1.684	96290.50000	93860.20000	93296.10000
SN	120	0.00000	-2816870000	0.00000	0.00000	0.00000
SB	121	0.00000	4070240000	0.00000	0.00000	0.00000
BA	137	0.00000	1676010000	0.00000	0.00000	0.00000
TB-1	159	282313.00000	1.452	286657.00000	278511.00000	281772.00000
TL	203	0.00000	-1958480000	0.00000	0.00000	0.00000
PB	208	0.00000	48711100000	0.00000	0.00000	0.00000
BI-1	209	204101.00000	0.289	204371.00000	204508.00000	203424.00000

USP83 2694

Run Name: 1120805E03
Tube Number: 2
Sample Number: **S1**

Date/Time: 07/27/2011 7:35:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92169.00000	1.856	94049.00000	90704.20000	91753.70000
AL	27	10000.00000	1.660	10013.20000	9907.80000	10079.00000
CA	44	10000.00000	0.063	10208.80000	9834.06000	9957.16000
CR	52	1000.00000	0.497	1018.21000	989.74100	992.04600
FE	57	10000.00000	1.144	10073.90000	9880.02000	10046.10000
K	39	10000.00000	0.745	10134.40000	9918.29000	9947.34000
MG	24	10000.00000	2.159	9975.66000	9863.83000	10160.50000
MN	55	1000.00000	0.578	1013.66000	987.20700	999.13100
NA	23	10000.00000	2.806	9892.58000	10067.00000	10040.40000
TI	47	1000.00000	1.901	998.70400	998.71300	1002.58000
V	51	1000.00000	1.494	1007.40000	1000.38000	992.21700
IN-1	115	90088.10000	0.777	90527.10000	89280.90000	90456.30000
AG	107	100.00000	0.670	101.25500	98.63190	100.11300
AS	75	1000.00000	0.385	1009.32000	988.97700	1001.70000
BA	137	1000.00000	0.549	1000.25000	989.56600	1010.19000
CD	111	100.00000	0.389	100.87000	99.11970	100.01100
CO	59	1000.00000	2.731	973.38100	1008.98000	1017.64000
CU	63	1000.00000	0.638	997.53700	993.91400	1008.55000
MO	98	100.00000	1.298	101.08700	99.99470	98.91810
NI	60	1000.00000	0.495	999.32000	994.97900	1005.70000
SB	121	100.00000	1.130	99.41320	100.27500	100.31200
SN	120	100.00000	1.055	99.72250	100.30000	99.97780
SR	88	100.00000	1.471	99.60280	100.79400	99.60290
ZN	66	1000.00000	1.359	1004.44000	1004.80000	990.75600
BI-1	209	193296.00000	2.020	196450.00000	194507.00000	188930.00000
PB	208	100.00000	1.836	100.79800	99.37880	99.82330
TL	203	100.00000	1.135	102.55800	99.34760	98.09470
GE-1	72	19508.80000	3.495	20286.70000	19014.70000	19225.00000
TB-1	159	274935.00000	0.982	277596.00000	275009.00000	272200.00000

USP83 2395

Run Name: 1120805E03
Tube Number: 3
Sample Number: **LRS**

Date/Time: 07/27/2011 7:36:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92387.40000	1.766	94170.70000	92024.90000	90966.70000
AL	27	51630.00000	1.807	51880.60000	51132.10000	51877.30000
CA	44	49670.00000	1.237	50220.70000	49182.30000	49606.90000
CR	52	455.20000	1.697	455.51200	455.13100	454.95700
FE	57	50250.00000	1.901	50125.30000	50432.20000	50192.40000
K	39	48050.00000	2.061	47903.60000	48050.30000	48196.10000
MG	24	46570.00000	1.850	47086.60000	45791.50000	46831.80000
MN	55	484.30000	2.019	482.99600	484.33700	485.56700
NA	23	47940.00000	2.326	47648.20000	47990.00000	48181.90000
TI	47	507.40000	3.126	510.81700	493.89600	517.48700
V	51	449.70000	2.411	447.10500	448.78100	453.21400
IN-1	115	84658.90000	0.178	84486.90000	84724.10000	84765.60000
AG	107	629.30000	1.842	632.74700	616.56600	638.58700
AS	75	507.90000	0.894	508.07800	503.26600	512.35600
BA	137	515.20000	0.097	513.66100	516.10200	515.83600
CD	111	499.60000	1.172	505.06600	495.08900	498.64500
CO	59	516.70000	1.277	512.30200	512.84200	524.95600
CU	63	483.80000	0.716	485.05600	480.18200	486.16200
MO	98	519.30000	2.207	528.03600	507.09800	522.76600
NI	60	498.30000	0.067	497.14200	499.06400	498.69400
SB	121	516.40000	1.400	522.46200	517.02400	509.71400
SN	120	514.60000	1.959	525.09800	508.07800	510.62400
SR	88	515.00000	0.683	512.40700	512.91800	519.67500
ZN	66	483.60000	1.799	490.87500	474.90100	485.02500
BI-1	209	179633.00000	2.495	183228.00000	181058.00000	174612.00000
PB	208	517.50000	2.680	524.33200	510.02600	518.14200
TL	203	513.60000	3.135	524.01100	501.66400	515.12500
GE-1	72	19522.20000	1.135	19495.30000	19315.20000	19756.10000
TB-1	159	267706.00000	1.118	270505.00000	268063.00000	264550.00000

USP83 2696

Run Name: 1120805E03 Date/Time: 07/27/2011 7:38:00
Tube Number: 4
Sample Number: **CCS**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93360.60000	2.305	91379.60000	93052.60000	95649.60000
AL	27	8.69100	43.114	12.12320	7.14094	6.80884
CA	44	10.25000	144.000	9.27656	9.27649	12.19690
CR	52	-0.04475	-48.760	-0.04680	-0.04680	-0.04064
FE	57	9.39200	37.756	12.00950	7.62129	8.54520
K	39	5.61200	131.646	5.79752	5.70538	5.33310
MG	24	7.18000	21.295	8.38627	7.18003	5.97371
MN	55	0.14560	16.800	0.12681	0.15499	0.15499
NA	23	-1.14300	-243.570	-1.14001	-1.14126	-1.14772
TI	47	0.17670	224.165	0.39758	0.13252	0.00000
V	51	0.15260	19.214	0.14431	0.17416	0.13933
IN-1	115	93428.10000	0.294	93110.70000	93576.70000	93596.90000
AG	107	0.11170	27.717	0.14361	0.09942	0.09206
AS	75	0.22450	20.116	0.18264	0.25114	0.23972
BA	137	0.16800	46.595	0.21000	0.18900	0.10500
CD	111	0.05865	12.709	0.06535	0.05530	0.05530
CO	59	0.14830	28.220	0.19019	0.12566	0.12906
CU	63	0.16140	54.145	0.18312	0.17255	0.12853
MO	98	0.59280	5.326	0.61642	0.55973	0.60225
NI	60	0.18780	34.579	0.22804	0.21463	0.12073
SB	121	0.65450	21.222	0.52680	0.74709	0.68962
SN	120	1.14600	10.244	1.23374	1.16793	1.03633
SR	88	0.06504	88.069	0.11382	0.03252	0.04878
ZN	66	0.80440	13.986	0.89102	0.70540	0.81678
BI-1	209	203844.00000	0.760	202836.00000	203069.00000	205627.00000
PB	208	0.10530	16.952	0.12034	0.10530	0.09026
TL	203	0.36210	16.012	0.37905	0.40678	0.30047
GE-1	72	20520.50000	3.497	19996.50000	21338.40000	20226.50000
TB-1	159	283047.00000	0.932	281646.00000	286090.00000	281405.00000

USP93 2697

Run Name: 1120805E03
Tube Number: 5
Sample Number: **ICV**

Date/Time: 07/27/2011 7:40:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92201.70000	2.581	94923.30000	90513.80000	91168.00000
AL	27	5041.00000	1.761	5088.50000	4979.43000	5055.07000
CA	44	5148.00000	2.551	5175.28000	5187.39000	5081.33000
CR	52	473.40000	1.484	479.62700	466.25900	474.31400
FE	57	5103.00000	1.639	5157.79000	5040.35000	5110.86000
K	39	4732.00000	1.672	4796.65000	4725.42000	4673.93000
MG	24	4782.00000	1.459	4845.67000	4711.13000	4789.21000
MN	55	508.20000	1.836	513.42000	507.85500	503.32500
NA	23	5192.00000	2.273	5227.39000	5210.06000	5138.55000
TI	47	514.20000	2.915	526.88100	491.41600	524.30400
V	51	467.40000	1.534	473.07300	461.07300	468.05400
IN-1	115	88923.30000	1.437	90169.80000	87615.80000	88984.50000
AG	107	51.48000	2.315	53.51970	50.43880	50.48150
AS	75	505.10000	1.170	515.03900	501.60100	498.66000
BA	137	512.50000	0.817	514.82400	507.09800	515.57800
CD	111	51.47000	0.943	51.67410	51.16070	51.57520
CO	59	529.80000	3.128	517.95600	531.31900	540.12400
CU	63	500.00000	0.892	504.26600	497.75100	497.98200
MO	98	50.19000	1.792	51.24380	50.12070	49.20550
NI	60	515.30000	0.682	526.60000	505.49800	513.80300
SB	121	51.45000	2.159	53.31670	49.62860	51.40470
SN	120	51.87000	1.117	52.01130	51.67640	51.92230
SR	88	52.10000	1.736	53.22270	50.30830	52.76900
ZN	66	503.80000	1.431	513.57800	488.28500	509.53700
BI-1	209	195250.00000	1.401	198409.00000	193660.00000	193680.00000
PB	208	50.30000	0.477	50.97360	50.16660	49.75980
TL	203	51.34000	1.946	51.85730	52.03310	50.12960
GE-1	72	18904.50000	0.992	19114.60000	18754.40000	18844.40000
TB-1	159	274773.00000	2.497	282180.00000	273499.00000	268639.00000

USP83 2698

Run Name: 1120805E03
Tube Number: 6
Sample Number: **ICB**

Date/Time: 07/27/2011 7:42:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	94330.50000	1.876	96326.00000	93715.20000	92950.30000
AL	27	0.45880	175.915	0.43013	0.30109	0.64518
CA	44	-9.60600	-141.266	-10.06660	-7.89531	-10.85610
CR	52	-0.09453	-34.095	-0.07674	-0.11010	-0.09675
FE	57	2.07300	43.618	1.77685	2.33213	2.11002
K	39	-2.87100	-88.157	-2.92943	-2.92284	-2.76072
MG	24	0.93450	18.791	0.92350	0.85754	1.02245
MN	55	0.10630	26.585	0.12034	0.09025	0.10831
NA	23	-19.21000	-20.255	-18.94940	-19.24320	-19.43740
TI	47	-0.00328	-8646.750	-0.00984	0.00000	0.00000
V	51	0.06779	31.701	0.07013	0.07714	0.05610
IN-1	115	92972.60000	1.495	94259.20000	93159.70000	91498.90000
AG	107	0.03643	48.367	0.04996	0.03747	0.02186
AS	75	0.06811	31.552	0.07859	0.05501	0.07073
BA	137	0.06983	103.909	0.10475	0.07482	0.02993
CD	111	0.00249	395.294	0.00093	0.00280	0.00373
CO	59	0.09478	13.811	0.09904	0.08307	0.10223
CU	63	0.04325	226.543	0.04450	0.05453	0.03071
MO	98	0.08588	32.417	0.07975	0.06748	0.11042
NI	60	0.09891	52.765	0.13600	0.11127	0.04945
SB	121	0.05328	77.271	0.04918	0.04611	0.06455
SN	120	0.39880	33.952	0.51082	0.37640	0.30918
SR	88	0.00031	6069.910	0.00046	0.00046	0.00000
ZN	66	0.07544	61.532	0.07544	0.06035	0.09053
BI-1	209	203887.00000	1.709	207380.00000	203869.00000	200412.00000
PB	208	0.03038	18.147	0.03006	0.02715	0.03394
TL	203	0.07925	16.486	0.06729	0.09420	0.07626
GE-1	72	20370.20000	2.846	20907.70000	19755.80000	20447.00000
TB-1	159	281300.00000	2.704	288522.00000	282019.00000	273358.00000

USP83 2699

Run Name: 1120805E03 Date/Time: 07/27/2011 7:44:00
Tube Number: 7
Sample Number: **LLC**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93510.70000	1.990	91439.30000	95043.80000	94049.00000
AL	27	108.00000	4.002	109.99500	109.41500	104.59000
CA	44	221.30000	9.010	227.83300	229.05900	207.00800
CR	52	1.91100	4.603	1.95671	1.90397	1.87231
FE	57	101.30000	8.914	103.50900	108.56000	91.83110
K	39	186.50000	3.109	185.67000	185.56800	188.26200
MG	24	99.48000	3.009	98.99310	97.65630	101.79100
MN	55	1.02900	13.013	1.12967	0.92834	1.02900
NA	23	179.30000	5.279	181.31700	178.96700	177.61600
TI	47	4.46800	32.117	3.65565	3.65561	6.09274
V	51	0.48830	6.045	0.45221	0.52226	0.49043
IN-1	115	94012.80000	1.858	94605.20000	95387.00000	92046.20000
AG	107	0.53830	6.955	0.58152	0.53830	0.49508
AS	75	2.00000	5.810	2.04138	2.12414	1.83448
BA	137	1.92800	11.053	2.11612	2.00323	1.66465
CD	111	0.48600	21.502	0.53018	0.56633	0.36149
CO	59	0.53800	10.552	0.50968	0.60941	0.49491
CU	63	2.15500	5.457	2.27937	2.09281	2.09282
MO	98	0.53150	13.560	0.45657	0.56194	0.57599
NI	60	2.17500	6.570	2.29180	2.04361	2.18959
SB	121	1.07300	3.183	1.11071	1.05929	1.04900
SN	120	2.22300	5.304	2.11010	2.30985	2.24905
SR	88	0.58850	1.942	0.58850	0.58850	0.58850
ZN	66	15.65000	10.090	14.44270	17.63350	14.87380
BI-1	209	205760.00000	2.761	200382.00000	211703.00000	205194.00000
PB	208	1.03900	8.378	1.10904	1.02973	0.97824
TL	203	0.50160	6.364	0.47254	0.49548	0.53677
GE-1	72	21258.30000	4.046	22180.00000	21118.10000	20477.00000
TB-1	159	287141.00000	0.708	287613.00000	288896.00000	284915.00000

USP83 2298

Run Name: 1120805E03
Tube Number: 8
Sample Number: **ICSA**

Date/Time: 07/27/2011 7:46:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	94014.60000	3.428	95004.80000	90412.90000	96625.90000
AL	27	10150.00000	2.844	10185.60000	10074.90000	10189.50000
CA	44	9826.00000	2.717	9901.90000	9724.25000	9851.85000
CR	52	0.06977	92.604	0.08472	0.05482	0.06977
FE	57	10350.00000	3.652	10495.80000	10310.70000	10243.50000
K	39	11950.00000	2.409	11935.20000	11814.70000	12100.10000
MG	24	9914.00000	2.669	10093.60000	9754.11000	9894.34000
MN	55	0.20170	13.897	0.18312	0.20701	0.21497
NA	23	10240.00000	3.645	10225.50000	10255.40000	10239.10000
TI	47	203.30000	7.398	212.87500	205.56900	191.45600
V	51	0.02943	13.622	0.02943	0.02733	0.03153
IN-1	115	92547.50000	1.437	92416.50000	91287.80000	93938.20000
AG	107	0.01638	55.885	0.01966	0.00983	0.01966
AS	75	0.08799	57.006	0.12319	0.07039	0.07039
BA	137	-0.01786	-192.441	-0.03215	-0.01072	-0.01072
CD	111	0.01926	36.106	0.02167	0.01444	0.02167
CO	59	0.01207	65.278	0.01448	0.00869	0.01304
CU	63	-0.01806	-47.104	-0.01838	-0.01806	-0.01774
MO	98	200.20000	2.985	203.07300	201.25800	196.26800
NI	60	0.07518	31.751	0.05935	0.09496	0.07122
SB	121	0.03009	30.638	0.02944	0.03140	0.02944
SN	120	0.28610	14.334	0.25567	0.29219	0.31045
SR	88	0.42710	18.185	0.40299	0.36166	0.51666
ZN	66	0.18050	72.576	0.22152	0.22152	0.09845
BI-1	209	200963.00000	2.457	203573.00000	195268.00000	204048.00000
PB	208	0.02883	53.729	0.02235	0.03984	0.02429
TL	203	0.01269	77.439	0.00381	0.01523	0.01904
GE-1	72	20550.60000	4.025	21018.10000	19595.60000	21038.00000
TB-1	159	280332.00000	2.854	281720.00000	271729.00000	287547.00000

USPS0 2781

Run Name: 1120805E03 Date/Time: 07/27/2011 7:48:00
Tube Number: 9
Sample Number: **ICSAB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93601.70000	1.697	93333.00000	92165.20000	95306.80000
AL	27	9979.00000	2.027	9805.21000	10054.60000	10077.20000
CA	44	9720.00000	0.668	9725.20000	9612.50000	9822.30000
CR	52	18.95000	2.018	19.14750	18.84550	18.85700
FE	57	10230.00000	1.181	10267.40000	10146.90000	10275.70000
K	39	11950.00000	1.393	11853.10000	11953.00000	12044.00000
MG	24	10080.00000	1.327	10078.00000	10044.20000	10117.90000
MN	55	20.11000	2.877	19.56880	20.42970	20.33150
NA	23	10090.00000	1.554	9884.81000	9996.73000	10388.50000
TI	47	198.60000	3.972	206.43500	188.49000	200.87600
V	51	0.00035	10874.800	0.00042	0.00014	0.00049
IN-1	115	90031.40000	3.378	92772.10000	86759.40000	90562.70000
AG	107	20.23000	2.586	20.41790	20.06870	20.20330
AS	75	20.07000	3.736	20.02560	20.14390	20.04040
BA	137	-0.04695	-37.764	-0.07043	-0.07043	0.00000
CD	111	20.61000	1.728	20.82650	20.11850	20.88500
CO	59	19.70000	2.547	20.07140	19.54830	19.48020
CU	63	19.63000	4.198	19.87040	19.82770	19.19190
MO	98	202.90000	1.448	206.05300	198.35700	204.28900
NI	60	20.58000	0.619	21.27740	19.90640	20.55420
SB	121	0.02316	139.378	0.01939	0.02262	0.02747
SN	120	0.09485	54.381	0.10944	0.10214	0.07296
SR	88	0.43620	21.676	0.53196	0.43620	0.34045
ZN	66	20.36000	1.231	20.85660	19.45700	20.76640
BI-1	209	197276.00000	2.189	200188.00000	192315.00000	199325.00000
PB	208	0.02447	3.553	0.02509	0.02323	0.02509
TL	203	0.01136	84.014	0.00379	0.01136	0.01893
GE-1	72	20333.50000	2.804	20637.40000	19675.80000	20687.40000
TB-1	159	279056.00000	2.393	281418.00000	271518.00000	284231.00000

USP83 2782

Run Name: 1120805E03 Date/Time: 07/27/2011 7:49:00
Tube Number: 10
Sample Number: **CCV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92281.50000	1.638	94027.10000	91399.40000	91418.00000
AL	27	2553.00000	2.844	2552.95000	2611.77000	2494.28000
CA	44	2550.00000	2.178	2536.34000	2563.68000	2549.98000
CR	52	240.00000	1.601	242.56200	242.10600	235.33200
FE	57	2547.00000	0.690	2575.46000	2537.10000	2528.44000
K	39	2375.00000	1.601	2380.50000	2358.70000	2385.80000
MG	24	2422.00000	0.660	2468.08000	2414.55000	2383.37000
MN	55	259.00000	0.379	263.25600	257.65000	256.09400
NA	23	2423.00000	2.051	2447.24000	2453.33000	2368.44000
TI	47	256.50000	3.597	251.02800	256.67000	261.80300
V	51	234.50000	1.256	236.64100	235.57500	231.28400
IN-1	115	91283.60000	2.327	93593.10000	90843.90000	89413.70000
AG	107	25.58000	0.906	26.11270	25.30750	25.31980
AS	75	247.40000	1.320	250.03700	247.03400	245.12900
BA	137	245.10000	3.363	242.13600	246.05400	247.11100
CD	111	25.59000	0.839	26.47400	25.27610	25.01990
CO	59	246.20000	2.370	246.80700	244.60700	247.18600
CU	63	246.30000	0.961	249.82700	246.97400	242.09800
MO	98	25.27000	3.157	25.32500	24.83130	25.65360
NI	60	253.30000	1.530	257.90000	256.50600	245.49400
SB	121	25.07000	1.238	25.39940	24.94150	24.86910
SN	120	24.93000	1.564	25.63580	25.14910	24.00520
SR	88	24.95000	0.414	25.51590	24.77730	24.55680
ZN	66	247.40000	0.997	253.67200	243.76800	244.76000
BI-1	209	198746.00000	1.080	199367.00000	200515.00000	196357.00000
PB	208	25.04000	1.041	25.28980	24.96140	24.86880
TL	203	25.23000	3.063	25.02800	24.86550	25.79660
GE-1	72	19625.60000	1.635	19956.00000	19605.70000	19315.20000
TB-1	159	275725.00000	1.612	280510.00000	274936.00000	271728.00000

USP93 2783

Run Name: 1120805E03 Date/Time: 07/27/2011 7:51:00
Tube Number: 11
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93343.80000	1.302	92698.50000	94745.10000	92587.60000
AL	27	0.94130	132.370	1.44817	0.57926	0.79648
CA	44	7.42500	270.572	7.68104	8.83321	5.76075
CR	52	-0.13490	-19.066	-0.13912	-0.10750	-0.15809
FE	57	1.47600	107.588	1.15128	1.32839	1.94833
K	39	-4.21600	-80.882	-4.25774	-4.11606	-4.27420
MG	24	0.45990	57.730	0.35605	0.48957	0.53408
MN	55	0.03003	138.795	0.02120	0.03975	0.02915
NA	23	-25.41000	-8.599	-25.47430	-25.24800	-25.50770
TI	47	0.08465	295.097	0.00000	0.16930	0.08465
V	51	0.02762	128.458	0.03234	0.03436	0.01617
IN-1	115	93149.50000	1.645	92185.10000	94916.40000	92347.00000
AG	107	0.00813	113.525	0.00349	0.01046	0.01046
AS	75	0.06854	96.236	0.07118	0.03163	0.10281
BA	137	-0.03788	-1.270	-0.03788	-0.03788	-0.03788
CD	111	-0.00387	-190.648	-0.00697	-0.00232	-0.00232
CO	59	0.03018	91.882	0.04875	0.01857	0.02322
CU	63	-0.03978	-125.289	-0.03133	-0.04550	-0.04252
MO	98	0.09539	17.706	0.10576	0.08087	0.09954
NI	60	0.07436	22.337	0.08219	0.08219	0.05870
SB	121	0.02898	174.189	0.02268	0.02646	0.03780
SN	120	0.08329	21.659	0.08762	0.07788	0.08437
SR	88	-0.01399	-44.332	0.00000	-0.02099	-0.02099
ZN	66	-0.07268	-123.239	-0.04361	-0.17443	0.00000
BI-1	209	203922.00000	0.779	205587.00000	202424.00000	203755.00000
PB	208	0.00902	51.120	0.00773	0.00828	0.01104
TL	203	0.01552	0.934	0.01552	0.01552	0.01552
GE-1	72	20443.60000	2.645	21068.00000	20126.50000	20136.40000
TB-1	159	281692.00000	1.773	286684.00000	281696.00000	276697.00000

USP83 2784

Run Name: 1120805E03
Tube Number: 12
Sample Number: **PBS**

Date/Time: 07/27/2011 7:53:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.01 | Final Vol: 100.00 | DF: 2.00 | Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	90631.50000	3.316	87201.70000	92800.40000	91892.40000
AL	27	39.61000	4.496	36.44350	40.51470	41.87180
CA	44	21.98000	1.610	21.18290	22.54950	22.20760
CR	52	0.13830	58.308	0.16254	0.13687	0.11549
FE	57	33.59000	16.701	28.05860	33.18780	39.52360
K	39	3.17900	132.998	3.19729	3.17583	3.16387
MG	24	1.64700	8.792	1.64702	1.73367	1.56031
MN	55	0.27350	22.910	0.29173	0.22792	0.30085
NA	23	-4.63900	-66.631	-4.53521	-4.63113	-4.75066
TI	47	0.00378	3915.340	0.00000	0.00567	0.00567
V	51	0.08717	52.002	0.11208	0.07472	0.07472
IN-1	115	91264.60000	1.512	90308.10000	90639.00000	92846.70000
AG	107	0.00568	256.343	0.00142	0.00426	0.01135
AS	75	0.05581	13.621	0.05096	0.05824	0.05824
BA	137	-0.03699	-82.265	-0.07398	-0.03699	0.00000
CD	111	-0.00371	-98.411	-0.00446	-0.00223	-0.00446
CO	59	0.00867	73.812	0.01064	0.00828	0.00710
CU	63	0.39790	29.580	0.46555	0.37900	0.34915
MO	98	0.05268	19.723	0.05080	0.04515	0.06209
NI	60	0.14710	31.040	0.10698	0.18722	0.14710
SB	121	0.01621	318.569	0.01853	0.01042	0.01968
SN	120	8.86900	3.800	8.58644	9.18927	8.83129
SR	88	0.12250	51.159	0.11308	0.17904	0.07538
ZN	66	0.70770	12.200	0.78219	0.67046	0.67046
BI-1	209	204087.00000	1.322	201003.00000	205232.00000	206024.00000
PB	208	0.07769	14.674	0.08410	0.06728	0.08169
TL	203	0.01394	17.812	0.01141	0.01521	0.01521
GE-1	72	20453.60000	2.577	19886.20000	20547.00000	20927.70000
TB-1	159	276153.00000	2.591	269127.00000	275903.00000	283429.00000

USF03 2785

Run Name: 1120805E03 Date/Time: 07/27/2011 7:56:00
Tube Number: 13 Batch: 112011026001A
Sample Number: **LCSS** Class: **********

Initial Vol: 1.00 Final Vol: 100.00 DF: 25.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	95296.00000	0.728	94711.20000	95114.40000	96062.40000
AL	27	5569.00000	1.753	5610.46000	5593.39000	5503.16000
CA	44	4510.00000	2.603	4604.53000	4396.44000	4529.03000
CR	52	37.80000	2.026	38.01540	38.16250	37.22220
FE	57	8393.00000	2.667	8538.79000	8423.62000	8216.60000
K	39	778.30000	2.602	788.49000	781.62700	764.78400
MG	24	1362.00000	1.728	1380.57000	1343.65000	1361.79000
MN	55	256.90000	3.111	263.48800	256.05800	251.15400
NA	23	262.50000	3.424	267.51700	257.97200	262.01100
TI	47	241.90000	2.324	244.05100	244.30000	237.35000
V	51	40.63000	3.729	42.10160	39.93410	39.85430
IN-1	115	93963.60000	1.340	93152.30000	93324.50000	95414.10000
AG	107	20.79000	2.447	21.19010	20.43290	20.74700
AS	75	48.41000	5.344	50.14200	48.82160	46.26640
BA	137	127.60000	2.544	128.65800	128.33400	125.80800
CD	111	45.77000	3.520	47.03250	45.36930	44.90820
CO	59	54.65000	2.864	55.34220	54.90780	53.70000
CU	63	32.77000	4.580	33.92240	32.65700	31.73060
MO	98	35.05000	2.970	35.18110	35.57320	34.39570
NI	60	49.62000	1.580	48.82280	50.18100	49.85630
SB	121	28.31000	2.362	28.37670	28.57550	27.97770
SN	120	52.16000	3.060	52.90530	52.43010	51.14450
SR	88	29.92000	4.656	30.42390	30.57400	28.76210
ZN	66	109.70000	3.270	112.44600	108.74200	107.91200
BI-1	209	207620.00000	1.416	210973.00000	205483.00000	206405.00000
PB	208	52.88000	0.522	53.97670	52.39370	52.26950
TL	203	91.28000	1.519	92.54960	91.80670	89.48370
GE-1	72	20777.40000	2.050	21198.30000	20346.60000	20787.30000
TB-1	159	288473.00000	0.651	290464.00000	288223.00000	286733.00000

USP93 2796

Run Name: 1120805E03
Tube Number: 14
Sample Number: **6349215**

Date/Time: 07/27/2011 7:58:00
Batch: 112011026001A
Class: U*********

Initial Vol: 1.05 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	94064.60000	0.324	94198.70000	94279.70000	93715.40000
AL	27	43930.00000	1.459	44312.60000	43292.00000	44185.40000
CA	44	19400.00000	1.274	19686.20000	19416.60000	19097.20000
CR	52	48.33000	1.407	47.85660	48.22660	48.90680
FE	57	56250.00000	1.142	55596.90000	56646.60000	56506.50000
K	39	10600.00000	0.355	10606.10000	10665.20000	10528.70000
MG	24	8990.00000	0.634	9064.59000	8959.67000	8945.75000
MN	55	683.40000	0.205	685.20900	683.34100	681.65100
NA	23	228700.00000	1.079	229507.00000	226553.00000	230040.00000
TI	47	335.70000	1.129	339.89500	332.59800	334.60600
V	51	97.00000	0.231	97.15650	97.43600	96.40760
IN-1	115	86399.40000	1.062	86117.60000	85656.10000	87424.70000
AG	107	0.63540	11.045	0.60535	0.70839	0.59246
AS	75	34.30000	0.584	34.41820	33.87840	34.60340
BA	137	807.40000	1.631	818.61700	799.05900	804.52400
CD	111	4.89600	2.945	4.97247	4.68909	5.02644
CO	59	15.23000	2.383	15.12000	15.48780	15.08230
CU	63	107.60000	1.241	108.34300	107.07400	107.38300
MO	98	4.63100	1.758	4.59433	4.68078	4.61789
NI	60	51.51000	2.188	51.93850	51.77760	50.81390
SB	121	1.44100	10.618	1.59512	1.36394	1.36394
SN	120	19.98000	1.927	20.35190	19.54760	20.04040
SR	88	113.90000	1.921	115.99800	112.15400	113.54800
ZN	66	791.50000	1.205	798.91900	783.76900	791.81300
BI-1	209	185354.00000	1.777	189067.00000	182783.00000	184212.00000
PB	208	266.70000	0.818	270.80000	265.50200	263.79800
TL	203	0.65560	9.602	0.72864	0.65221	0.58596
GE-1	72	20456.90000	1.283	20386.70000	20747.30000	20236.60000
TB-1	159	278089.00000	1.502	280836.00000	273282.00000	280148.00000

USF03 2797

Run Name: 1120805E03
Tube Number: 15
Sample Number: **6349215**

Date/Time: 07/27/2011 8:00:00
Batch: 112011026001A
Class: UP********

Initial Vol: 1.05 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93034.50000	1.165	93635.70000	93684.80000	91782.90000
AL	27	46630.00000	2.365	47209.70000	45741.20000	46939.10000
CA	44	21000.00000	2.425	20926.00000	20781.80000	21292.20000
CR	52	54.66000	1.234	55.63250	54.32100	54.02650
FE	57	59910.00000	2.207	60018.70000	59174.90000	60536.40000
K	39	11710.00000	1.690	11654.50000	11699.00000	11776.40000
MG	24	9716.00000	2.184	9670.20000	9649.61000	9828.19000
MN	55	726.00000	1.489	740.62300	719.44500	717.93200
NA	23	241700.00000	1.638	240999.00000	241113.00000	242988.00000
TI	47	379.90000	2.185	391.94500	378.20400	369.55000
V	51	101.90000	1.042	102.61300	101.52800	101.55900
IN-1	115	84317.20000	3.729	87897.10000	82004.10000	83050.40000
AG	107	1.83800	1.867	1.94612	1.75061	1.81727
AS	75	41.29000	1.105	42.72340	39.95680	41.18990
BA	137	864.50000	2.270	879.43200	858.01300	856.05500
CD	111	6.14200	8.448	5.97804	5.81873	6.62923
CO	59	17.37000	2.250	17.68710	16.94570	17.47720
CU	63	117.60000	2.715	119.46100	117.64100	115.69800
MO	98	5.70800	5.533	5.57894	5.74031	5.80475
NI	60	59.92000	2.485	60.80410	59.56840	59.38750
SB	121	3.49300	7.232	3.45529	3.66895	3.35476
SN	120	26.13000	3.511	26.17480	25.81350	26.40170
SR	88	122.60000	2.271	124.59200	120.27700	122.93100
ZN	66	870.70000	2.190	885.22000	856.94400	869.93700
BI-1	209	181959.00000	4.849	191574.00000	180068.00000	174234.00000
PB	208	286.40000	3.994	288.66500	286.55400	283.98000
TL	203	1.66100	12.637	1.58953	1.56862	1.82485
GE-1	72	20383.50000	0.951	20607.40000	20266.60000	20276.50000
TB-1	159	277675.00000	1.893	283715.00000	274142.00000	275167.00000

USF03 2788

Run Name: 1120805E03
Tube Number: 16
Sample Number: **6349218**

Date/Time: 07/27/2011 8:01:00
Batch: 112011026001A
Class: D*********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	89734.60000	1.035	89154.50000	90805.30000	89244.00000
AL	27	85230.00000	1.208	85527.50000	85093.00000	85069.50000
CA	44	45250.00000	1.494	45623.80000	45103.00000	45023.20000
CR	52	172.30000	2.180	174.08600	170.09500	172.72000
FE	57	119500.00000	1.011	117996.00000	120268.00000	120237.00000
K	39	22070.00000	1.068	21732.80000	22269.30000	22207.80000
MG	24	18670.00000	0.403	18635.10000	18838.70000	18536.20000
MN	55	1710.00000	2.082	1680.48000	1707.89000	1741.63000
NA	23	374100.00000	0.926	372399.00000	374779.00000	375121.00000
TI	47	706.40000	1.235	691.93300	721.32800	705.93900
V	51	206.20000	2.106	206.65900	203.68500	208.25700
IN-1	115	78554.60000	3.379	76223.90000	81442.90000	77997.00000
AG	107	2.06800	3.258	1.97726	2.09663	2.13011
AS	75	69.74000	1.682	68.47160	70.93480	69.81360
BA	137	1727.00000	4.395	1743.54000	1707.30000	1730.16000
CD	111	8.85200	4.119	8.95857	9.15190	8.44553
CO	59	36.55000	2.012	36.03440	37.05050	36.56510
CU	63	216.40000	3.857	219.30400	217.95100	211.94500
MO	98	13.66000	4.684	13.82770	13.46340	13.68880
NI	60	117.30000	4.761	118.90300	115.55100	117.44600
SB	121	2.86100	14.310	3.09686	3.07014	2.41600
SN	120	46.47000	4.465	47.30910	46.31770	45.78320
SR	88	243.20000	4.161	243.83900	240.52600	245.23500
ZN	66	1705.00000	3.635	1720.08000	1710.49000	1684.43000
BI-1	209	172407.00000	1.416	171796.00000	175096.00000	170328.00000
PB	208	590.20000	2.059	587.58200	587.51600	595.50200
TL	203	1.15200	3.110	1.10987	1.17581	1.17032
GE-1	72	22427.00000	0.246	22370.10000	22480.40000	22430.30000
TB-1	159	262745.00000	0.348	262425.00000	263776.00000	262035.00000

USP83 2799

Run Name: 1120805E03
Tube Number: 17
Sample Number: **6349216**

Date/Time: 07/27/2011 8:03:00
Batch: 112011026001A
Class: R*********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	94024.00000	1.910	91973.60000	94782.30000	95316.10000
AL	27	54570.00000	2.380	54818.40000	53975.40000	54916.10000
CA	44	26820.00000	2.028	26842.40000	26841.10000	26776.40000
CR	52	104.90000	2.654	105.47200	103.11000	106.11800
FE	57	65670.00000	1.815	65594.30000	65417.40000	65998.40000
K	39	26260.00000	2.513	26437.80000	26090.60000	26251.60000
MG	24	12880.00000	2.418	12948.50000	12750.60000	12940.80000
MN	55	829.40000	3.190	840.95400	816.11500	831.13200
NA	23	157900.00000	2.683	159265.00000	156336.00000	158099.00000
TI	47	626.20000	0.774	610.40200	627.79800	640.40000
V	51	176.70000	2.689	178.25300	175.83700	176.01000
IN-1	115	85983.20000	0.547	86443.40000	85502.60000	86003.70000
AG	107	48.09000	3.059	49.49620	48.33270	46.44110
AS	75	53.87000	1.029	54.79020	53.34790	53.47190
BA	137	1080.00000	1.494	1100.47000	1076.59000	1062.95000
CD	111	9.75800	3.393	9.84629	9.35731	10.07040
CO	59	249.50000	0.960	253.54800	246.26100	248.69100
CU	63	161.70000	1.096	164.33900	159.03300	161.72800
MO	98	52.27000	1.537	53.31220	51.14030	52.35750
NI	60	109.10000	0.124	109.75700	108.33500	109.20800
SB	121	3.50300	9.412	3.77786	3.58093	3.15021
SN	120	67.78000	1.788	68.99100	67.93910	66.40990
SR	88	180.30000	0.990	182.64800	179.92700	178.32600
ZN	66	1082.00000	1.262	1102.92000	1064.50000	1078.57000
BI-1	209	184556.00000	1.479	187330.00000	181875.00000	184461.00000
PB	208	308.90000	0.290	313.09100	305.43900	308.16900
TL	203	2.63700	3.596	2.77583	2.59073	2.54444
GE-1	72	20340.30000	0.930	20547.30000	20296.90000	20176.60000
TB-1	159	282631.00000	1.215	280029.00000	281341.00000	286524.00000

USP03 2719

Run Name: 1120805E03 Date/Time: 07/27/2011 8:05:00
Tube Number: 18 Batch: 112011026001A
Sample Number: **6349217** Class: M*********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	91772.00000	2.968	94903.40000	89949.60000	90463.00000
AL	27	56530.00000	2.825	56727.90000	56873.80000	55988.30000
CA	44	28010.00000	1.777	28872.20000	27981.60000	27176.20000
CR	52	108.70000	2.109	109.77100	107.43000	108.89900
FE	57	73110.00000	0.794	75020.30000	72241.70000	72068.00000
K	39	24160.00000	1.238	24650.70000	23933.40000	23895.90000
MG	24	13400.00000	2.007	13546.40000	13335.70000	13317.80000
MN	55	883.00000	2.020	892.32500	877.84600	878.82900
NA	23	162400.00000	3.265	161821.00000	163150.00000	162229.00000
TI	47	657.70000	1.186	674.05900	653.39300	645.64700
V	51	179.10000	2.038	181.25700	178.89100	177.15200
IN-1	115	84416.10000	1.624	85188.90000	85225.80000	82833.60000
AG	107	49.35000	0.678	50.05470	49.94590	48.04940
AS	75	54.69000	1.611	54.34760	55.15340	54.56890
BA	137	1165.00000	1.694	1166.74000	1162.69000	1165.57000
CD	111	10.40000	3.620	10.86820	10.11400	10.21780
CO	59	252.40000	1.117	255.67100	251.64400	249.88500
CU	63	178.20000	0.996	179.50700	178.33600	176.75700
MO	98	53.04000	1.811	53.42600	52.64820	53.04570
NI	60	117.80000	0.336	119.27900	118.91600	115.20600
SB	121	5.64500	7.022	6.13744	5.53885	5.25871
SN	120	87.46000	0.601	88.67040	87.70250	86.00710
SR	88	182.90000	2.365	186.31400	179.72200	182.66400
ZN	66	1195.00000	0.143	1204.62000	1205.87000	1174.50000
BI-1	209	181659.00000	2.694	187123.00000	177675.00000	180181.00000
PB	208	373.80000	3.044	374.32100	377.56500	369.51400
TL	203	2.60400	4.374	2.56567	2.54998	2.69636
GE-1	72	20577.00000	2.607	21007.80000	20747.30000	19976.00000
TB-1	159	273418.00000	2.002	279247.00000	268387.00000	272618.00000

USF03 2711

Run Name: 1120805E03
Tube Number: 19
Sample Number: **6349215**

Date/Time: 07/27/2011 8:07:00
Batch: 112011026001A
Class: UL********

Initial Vol: 1.05 Final Vol: 100.00 DF: 10.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

				INTEGRATIONS		
Element	MASS	CONC. MEAN (ppb)	%RSD	#1	#2	#3
SC-1	45	92812.60000	1.708	93524.10000	93917.50000	90996.20000
AL	27	10850.00000	1.937	10795.80000	10877.20000	10876.90000
CA	44	5109.00000	0.359	5128.04000	5185.04000	5013.93000
CR	52	12.55000	1.186	12.75750	12.75140	12.14110
FE	57	14640.00000	2.182	14694.40000	14529.90000	14695.70000
K	39	2552.00000	1.545	2574.64000	2543.18000	2538.19000
MG	24	2209.00000	1.748	2226.97000	2196.33000	2203.70000
MN	55	179.00000	0.582	180.39700	180.08200	176.52000
NA	23	58600.00000	1.991	58014.50000	59087.20000	58698.20000
TI	47	93.70000	3.034	93.70080	92.42600	94.97320
V	51	25.14000	1.628	25.57020	24.96530	24.88450
IN-1	115	91266.80000	1.797	91985.50000	92424.70000	89390.30000
AG	107	0.12980	27.049	0.16416	0.09926	0.12598
AS	75	8.74100	7.171	8.95422	8.16921	9.09957
BA	137	193.70000	2.130	196.20200	191.63200	193.26600
CD	111	1.18900	11.531	1.10241	1.14676	1.31783
CO	59	3.82400	1.264	3.90136	3.82270	3.74794
CU	63	26.73000	2.599	27.40640	26.27410	26.50940
MO	98	1.23300	3.756	1.21339	1.30164	1.18398
NI	60	13.54000	4.767	13.65630	13.06480	13.89890
SB	121	0.31430	22.771	0.29262	0.37391	0.27637
SN	120	4.89800	5.412	5.19486	4.95369	4.54545
SR	88	27.82000	2.049	27.62510	27.94490	27.89010
ZN	66	199.60000	2.070	197.33600	201.65500	199.80900
BI-1	209	195361.00000	2.377	198950.00000	197016.00000	190117.00000
PB	208	66.38000	2.358	66.73120	66.02900	66.37980
TL	203	0.14950	13.599	0.14791	0.13360	0.16699
GE-1	72	20877.90000	3.980	21248.60000	21458.90000	19926.10000
TB-1	159	282277.00000	2.457	287881.00000	284428.00000	274521.00000

USF03 2712

Run Name: 1120805E03 Date/Time: 07/27/2011 8:09:00
Tube Number: 20
Sample Number: **CCV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92426.50000	1.092	91460.30000	93473.70000	92345.60000
AL	27	2520.00000	2.123	2555.03000	2515.87000	2489.09000
CA	44	2606.00000	1.430	2618.49000	2625.31000	2574.20000
CR	52	237.60000	2.018	240.35900	239.09600	233.34400
FE	57	2580.00000	0.936	2571.54000	2617.89000	2550.57000
K	39	2349.00000	2.061	2377.57000	2351.00000	2318.43000
MG	24	2358.00000	2.202	2392.01000	2345.73000	2336.26000
MN	55	254.60000	2.778	258.71500	257.97400	247.11100
NA	23	2395.00000	2.027	2422.55000	2394.95000	2367.50000
TI	47	249.20000	2.906	252.70000	243.99200	250.90800
V	51	231.40000	2.713	236.06900	231.58900	226.54200
IN-1	115	92804.20000	1.162	93714.20000	93084.70000	91613.60000
AG	107	25.18000	2.079	25.40190	25.78900	24.34910
AS	75	244.10000	1.020	248.64900	245.39200	238.25900
BA	137	249.90000	0.291	251.51900	250.95500	247.22600
CD	111	24.94000	1.216	25.06390	25.35990	24.39620
CO	59	241.00000	0.516	244.37400	242.09800	236.52900
CU	63	242.70000	0.749	246.43600	244.12700	237.53700
MO	98	24.62000	1.325	25.09530	24.83070	23.93400
NI	60	249.60000	0.234	251.89100	250.99800	245.91100
SB	121	24.55000	2.325	24.82630	25.16970	23.65400
SN	120	24.57000	2.671	25.33600	23.91030	24.46370
SR	88	24.47000	1.465	24.90000	24.13060	24.37950
ZN	66	243.70000	0.583	245.76700	245.98500	239.34800
BI-1	209	198166.00000	2.077	202471.00000	197754.00000	194271.00000
PB	208	25.19000	0.175	25.73120	25.09760	24.74110
TL	203	24.90000	0.806	25.63320	24.63700	24.42990
GE-1	72	20079.80000	1.447	19785.90000	20366.80000	20086.60000
TB-1	159	278095.00000	1.288	282156.00000	275387.00000	276743.00000

USP83 2713

Run Name: 1120805E03 Date/Time: 07/27/2011 8:11:00
Tube Number: 21
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93873.40000	0.619	94500.70000	93352.30000	93767.20000
AL	27	4.04200	36.789	3.06632	3.90261	5.15707
CA	44	26.11000	81.578	23.08260	23.83960	31.40790
CR	52	-0.13400	-31.082	-0.17317	-0.08658	-0.14225
FE	57	7.65300	21.051	6.86630	8.79734	7.29536
K	39	-3.71500	-48.910	-3.80595	-3.69394	-3.64511
MG	24	1.02600	51.384	1.21045	0.69168	1.17587
MN	55	0.12790	54.214	0.15877	0.13893	0.08600
NA	23	5.63100	46.812	5.78346	5.53903	5.57050
TI	47	-0.00012	-243966.000	-0.00036	0.00000	0.00000
V	51	0.01500	142.133	0.01875	0.01125	0.01500
IN-1	115	94375.50000	0.345	94724.20000	94323.20000	94079.00000
AG	107	0.00262	88.451	0.00235	0.00314	0.00235
AS	75	0.05685	24.661	0.05685	0.06396	0.04974
BA	137	0.10730	26.757	0.12518	0.08942	0.10730
CD	111	-0.00819	-75.718	-0.00819	-0.01637	0.00000
CO	59	0.04077	24.324	0.04842	0.03567	0.03822
CU	63	-0.03789	-64.054	-0.04045	-0.03417	-0.03905
MO	98	0.03363	20.931	0.03843	0.03363	0.02883
NI	60	0.05360	47.108	0.06432	0.06432	0.03216
SB	121	0.00310	958.360	0.00256	0.00372	0.00302
SN	120	0.19100	22.351	0.21804	0.17241	0.18255
SR	88	-0.01051	-100.951	-0.02102	0.00000	-0.01051
ZN	66	0.01400	176.071	0.01527	0.01527	0.01145
BI-1	209	207079.00000	1.284	209305.00000	207797.00000	204136.00000
PB	208	0.05997	15.826	0.05544	0.06902	0.05544
TL	203	0.03063	39.210	0.02088	0.02924	0.04177
GE-1	72	20860.90000	4.356	20296.70000	20376.80000	21909.20000
TB-1	159	288432.00000	0.450	287781.00000	287587.00000	289928.00000

USP83 2714

Run Name: 1120805E03
Tube Number: 22
Sample Number: **6349202**

Date/Time: 07/27/2011 8:12:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.00 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	94195.10000	0.933	94933.30000	94429.70000	93222.20000
AL	27	59620.00000	1.336	59724.30000	59222.90000	59912.80000
CA	44	121400.00000	2.074	119718.00000	121961.00000	122521.00000
CR	52	76.80000	1.479	77.35560	75.88760	77.15670
FE	57	79240.00000	1.420	79524.30000	78524.90000	79670.80000
K	39	12390.00000	2.620	12449.60000	12120.80000	12599.60000
MG	24	29590.00000	2.578	29197.10000	29442.30000	30130.60000
MN	55	1629.00000	2.004	1637.91000	1602.67000	1646.42000
NA	23	356.00000	2.568	357.70700	351.01900	359.27400
TI	47	766.80000	2.264	765.28600	756.48100	778.63300
V	51	144.90000	1.516	146.45800	142.89100	145.35100
IN-1	115	85519.00000	1.146	84796.50000	85125.70000	86634.90000
AG	107	0.84870	6.465	0.86176	0.78341	0.90093
AS	75	39.79000	4.192	41.16660	38.01850	40.18490
BA	137	1459.00000	1.710	1474.20000	1431.71000	1471.09000
CD	111	2.34100	6.852	2.30251	2.18025	2.54024
CO	59	32.91000	3.400	33.89720	32.33540	32.49740
CU	63	138.90000	2.906	142.28700	136.72100	137.69200
MO	98	5.28100	7.279	5.50338	5.43189	4.90773
NI	60	94.58000	1.310	95.02530	92.92760	95.78720
SB	121	3.29600	5.030	3.28363	3.43184	3.17253
SN	120	17.96000	1.246	17.72330	18.12910	18.02760
SR	88	280.60000	1.019	281.34900	276.87300	283.57700
ZN	66	745.00000	1.387	748.58400	742.47500	743.94200
BI-1	209	188905.00000	1.891	192995.00000	187320.00000	186399.00000
PB	208	183.30000	1.885	183.55700	182.29300	184.05000
TL	203	1.10200	8.300	1.02340	1.16889	1.11371
GE-1	72	20403.40000	3.785	21258.20000	20196.40000	19755.70000
TB-1	159	278714.00000	2.729	286709.00000	271571.00000	277862.00000

USP<233> 2715

Run Name: 1120805E03
Tube Number: 23
Sample Number: **6349204**

Date/Time: 07/27/2011 8:14:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.03 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	94675.00000	0.128	94712.00000	94773.00000	94539.90000
AL	27	59430.00000	0.814	58904.50000	59856.40000	59529.10000
CA	44	97130.00000	1.404	98685.40000	96831.50000	95873.10000
CR	52	159.40000	1.526	160.53000	161.27700	156.39300
FE	57	132800.00000	0.792	133957.00000	132819.00000	131623.00000
K	39	14060.00000	0.750	14185.10000	13999.30000	13995.60000
MG	24	28930.00000	0.496	29079.20000	28811.30000	28899.50000
MN	55	1706.00000	0.180	1703.56000	1707.84000	1706.60000
NA	23	467.40000	1.525	468.73700	472.65900	460.80400
TI	47	700.00000	3.587	714.85400	715.10400	670.04200
V	51	176.50000	0.344	176.03300	176.56200	176.90500
IN-1	115	85247.40000	2.473	87209.70000	85513.10000	83019.20000
AG	107	0.56840	7.226	0.56406	0.61613	0.52501
AS	75	45.00000	1.218	46.39140	45.40650	43.20210
BA	137	1353.00000	1.497	1377.27000	1341.61000	1340.12000
CD	111	3.41900	0.746	3.49639	3.45542	3.30519
CO	59	42.81000	2.866	43.45270	41.94280	43.03450
CU	63	147.80000	1.892	150.22200	146.13500	147.04200
MO	98	5.32000	3.876	5.23235	5.54308	5.18456
NI	60	118.50000	1.781	118.80000	120.48200	116.21800
SB	121	4.78200	2.388	4.85733	4.92005	4.56861
SN	120	21.73000	2.234	21.76030	22.30150	21.12820
SR	88	595.20000	1.032	603.80100	595.41100	586.38800
ZN	66	14430.00000	2.061	14538.30000	14365.60000	14386.20000
BI-1	209	189815.00000	3.546	196954.00000	188908.00000	183584.00000
PB	208	161.50000	1.574	164.59800	162.02900	157.87300
TL	203	1.19500	9.431	1.11500	1.29001	1.18000
GE-1	72	20396.90000	4.471	21128.20000	20687.30000	19375.10000
TB-1	159	275763.00000	1.693	280916.00000	271813.00000	274560.00000

USP99 2716

Run Name: 1120805E03
Tube Number: 24
Sample Number: **6349206**

Date/Time: 07/27/2011 8:16:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93339.60000	0.860	94260.30000	92788.70000	92969.90000
AL	27	70140.00000	1.915	69334.60000	70844.00000	70241.40000
CA	44	281300.00000	0.689	282089.00000	281535.00000	280275.00000
CR	52	113.20000	1.078	113.97200	113.87800	111.75000
FE	57	80950.00000	1.365	80778.80000	81675.40000	80395.70000
K	39	20090.00000	0.569	20197.80000	20099.00000	19973.20000
MG	24	30770.00000	1.502	30937.60000	31100.90000	30271.40000
MN	55	1771.00000	1.620	1756.10000	1770.05000	1786.84000
NA	23	3712.00000	1.159	3717.91000	3673.72000	3744.37000
TI	47	2006.00000	0.663	2010.56000	1999.65000	2007.79000
V	51	166.50000	1.485	170.93200	164.69000	163.87900
IN-1	115	85785.50000	1.106	86629.10000	85969.10000	84758.20000
AG	107	1.07100	4.698	1.13913	1.04780	1.02606
AS	75	36.19000	1.210	36.44890	35.88970	36.23140
BA	137	4441.00000	1.073	4512.88000	4395.43000	4414.69000
CD	111	13.90000	2.088	14.14060	13.60270	13.95680
CO	59	34.08000	1.566	34.52260	33.57570	34.14170
CU	63	320.80000	1.694	320.01500	319.27100	323.11400
MO	98	4.42700	3.361	4.61673	4.28470	4.37958
NI	60	91.99000	2.030	94.96170	90.58470	90.42360
SB	121	8.09600	2.200	8.06238	8.31504	7.91058
SN	120	77.25000	1.011	78.83860	77.30530	75.60610
SR	88	1797.00000	0.929	1805.20000	1791.15000	1794.65000
ZN	66	6943.00000	2.042	6901.10000	6908.91000	7018.98000
BI-1	209	192399.00000	0.328	192543.00000	192947.00000	191709.00000
PB	208	2586.00000	0.916	2599.42000	2566.07000	2592.52000
TL	203	1.20000	3.110	1.16222	1.20657	1.23120
GE-1	72	19715.80000	1.748	19405.10000	20086.50000	19655.80000
TB-1	159	275757.00000	0.541	276419.00000	274049.00000	276804.00000

USP63 2717

Run Name: 1120805E03
Tube Number: 25
Sample Number: **6349208**

Date/Time: 07/27/2011 8:18:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92403.10000	1.641	93896.70000	92447.60000	90865.10000
AL	27	68380.00000	1.434	68427.20000	69316.50000	67396.30000
CA	44	141000.00000	0.799	142386.00000	142339.00000	138275.00000
CR	52	83.90000	0.354	84.92520	84.19060	82.58410
FE	57	81970.00000	1.777	82298.00000	81347.40000	82264.60000
K	39	13820.00000	2.216	13740.00000	14135.90000	13584.10000
MG	24	27960.00000	0.462	28330.10000	28122.70000	27427.30000
MN	55	1408.00000	3.126	1396.91000	1393.12000	1433.97000
NA	23	327.60000	3.260	326.14900	326.59200	330.05900
TI	47	810.90000	2.407	829.88400	789.60100	813.21500
V	51	177.00000	0.697	179.80900	175.88900	175.30200
IN-1	115	84624.90000	2.315	86885.20000	83579.10000	83410.50000
AG	107	0.42080	15.338	0.46852	0.45117	0.34271
AS	75	47.75000	1.980	47.95480	47.46630	47.82890
BA	137	1113.00000	2.183	1119.92000	1124.98000	1094.10000
CD	111	1.70000	1.761	1.71371	1.70686	1.67943
CO	59	33.41000	1.146	34.04910	33.43520	32.74570
CU	63	81.61000	2.554	82.93990	82.94640	78.94360
MO	98	4.52100	3.369	4.46751	4.52370	4.57179
NI	60	101.30000	2.027	102.10500	102.23700	99.55840
SB	121	0.72690	13.071	0.66932	0.79887	0.71251
SN	120	11.00000	2.475	11.08500	11.16640	10.74860
SR	88	250.20000	2.517	250.29800	253.19600	247.10600
ZN	66	287.20000	2.742	288.59200	292.47700	280.53100
BI-1	209	188913.00000	1.862	192817.00000	187928.00000	185993.00000
PB	208	74.34000	0.833	75.33830	74.63330	73.04840
TL	203	1.20800	1.724	1.24309	1.17791	1.20299
GE-1	72	19872.60000	3.344	20466.70000	19996.00000	19155.00000
TB-1	159	276137.00000	2.431	280665.00000	279323.00000	268423.00000

USP63 2718

Run Name: 1120805E03
Tube Number: 26
Sample Number: **6349210**

Date/Time: 07/27/2011 8:20:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	94108.10000	1.395	94612.20000	95094.80000	92617.50000
AL	27	60130.00000	2.712	59965.90000	59438.40000	60985.70000
CA	44	145000.00000	1.243	145390.00000	144955.00000	144656.00000
CR	52	73.94000	1.170	74.84160	73.71490	73.26360
FE	57	77670.00000	1.600	76781.70000	78629.70000	77598.60000
K	39	10900.00000	1.147	10884.70000	10946.20000	10869.10000
MG	24	33680.00000	1.957	33346.30000	33811.20000	33882.50000
MN	55	1699.00000	0.427	1700.30000	1718.11000	1678.58000
NA	23	302.50000	2.441	303.70500	300.91000	302.88600
TI	47	757.40000	1.067	753.53500	773.68900	744.97600
V	51	138.80000	0.717	140.29000	139.11700	136.99300
IN-1	115	86362.70000	2.212	87747.90000	87156.40000	84183.90000
AG	107	0.45570	15.429	0.38449	0.48703	0.49558
AS	75	41.75000	1.476	41.85290	42.05360	41.34350
BA	137	1302.00000	1.320	1317.23000	1300.55000	1288.23000
CD	111	1.64600	10.456	1.75349	1.46460	1.71991
CO	59	32.85000	1.221	33.22250	32.85660	32.47090
CU	63	78.99000	0.644	79.94930	79.44610	77.57460
MO	98	3.59200	3.399	3.50831	3.70450	3.56320
NI	60	98.43000	1.596	98.64010	99.00950	97.64040
SB	121	0.62880	21.056	0.52572	0.64942	0.71127
SN	120	10.65000	2.192	10.55680	10.84630	10.54690
SR	88	298.60000	0.689	302.07500	300.31900	293.40600
ZN	66	303.60000	3.337	314.36300	294.65100	301.78600
BI-1	209	193380.00000	1.598	193295.00000	196513.00000	190333.00000
PB	208	55.51000	0.906	55.03120	56.33060	55.16830
TL	203	1.16200	10.000	1.02817	1.25830	1.19953
GE-1	72	20907.70000	2.039	20987.60000	21288.40000	20446.90000
TB-1	159	283244.00000	1.529	285440.00000	286039.00000	278253.00000

USPB3 2719

Run Name: 1120805E03
Tube Number: 27
Sample Number: **6349212**

Date/Time: 07/27/2011 8:22:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.05 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	95736.30000	0.725	95870.30000	96354.00000	94984.70000
AL	27	68860.00000	2.199	68277.10000	68254.50000	70048.40000
CA	44	35590.00000	0.313	35648.00000	35926.20000	35195.80000
CR	52	89.56000	0.105	89.77820	90.13940	88.76230
FE	57	84710.00000	1.125	84075.90000	86332.80000	83721.30000
K	39	21300.00000	0.662	21226.40000	21382.00000	21291.70000
MG	24	23070.00000	0.298	23170.90000	23149.40000	22889.70000
MN	55	1464.00000	2.092	1430.74000	1493.49000	1467.77000
NA	23	362.20000	0.943	364.34600	361.71900	360.53600
TI	47	617.70000	1.035	611.18000	625.53800	616.38200
V	51	205.80000	0.979	203.77400	208.09200	205.53300
IN-1	115	84810.90000	1.503	86237.40000	84414.10000	83781.30000
AG	107	0.60570	1.262	0.61153	0.61152	0.59405
AS	75	53.12000	2.491	52.47530	53.67030	53.21440
BA	137	1289.00000	1.680	1296.41000	1307.87000	1262.71000
CD	111	2.41800	3.450	2.36543	2.47514	2.41343
CO	59	34.98000	0.609	35.46200	34.67920	34.79880
CU	63	93.78000	2.286	92.88650	94.83370	93.61990
MO	98	7.05300	3.492	7.28803	7.18386	6.68710
NI	60	107.60000	1.490	107.56100	108.25100	106.98800
SB	121	0.78050	4.132	0.76235	0.79502	0.78413
SN	120	12.28000	5.210	11.80820	12.80620	12.22560
SR	88	191.30000	1.104	193.09300	192.83000	187.97700
ZN	66	466.50000	1.294	467.57200	469.31400	462.61400
BI-1	209	188403.00000	1.273	190652.00000	188680.00000	185878.00000
PB	208	125.00000	1.394	124.67500	125.34200	124.98300
TL	203	1.33400	2.382	1.33232	1.37255	1.29713
GE-1	72	20383.50000	2.451	19945.90000	20276.80000	20927.80000
TB-1	159	282838.00000	1.552	286073.00000	284601.00000	277840.00000

USP03 2728

Run Name: 1120805E03
Tube Number: 28
Sample Number: **6349222**

Date/Time: 07/27/2011 8:23:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92305.40000	1.387	92738.10000	90865.30000	93312.70000
AL	27	84070.00000	0.797	84547.20000	83382.20000	84280.50000
CA	44	24130.00000	2.203	23968.90000	24359.60000	24061.50000
CR	52	71.57000	1.526	71.84330	71.56750	71.29930
FE	57	80410.00000	0.656	80921.80000	79603.20000	80705.00000
K	39	11460.00000	2.336	11371.80000	11585.00000	11423.20000
MG	24	13670.00000	0.549	13663.60000	13534.70000	13811.70000
MN	55	868.90000	1.141	879.93400	859.81200	866.95400
NA	23	216900.00000	1.021	218783.00000	215173.00000	216744.00000
TI	47	420.30000	3.067	426.54600	423.97900	410.37400
V	51	139.30000	1.397	139.49600	139.24900	139.15500
IN-1	115	83614.20000	2.256	85772.00000	82279.20000	82791.30000
AG	107	0.60720	4.018	0.60720	0.62493	0.58947
AS	75	49.44000	0.099	50.71030	48.60550	49.00420
BA	137	994.10000	1.473	1004.18000	979.95100	998.16400
CD	111	3.26900	9.370	3.18309	3.03682	3.58709
CO	59	26.09000	0.939	26.47680	25.81420	25.97900
CU	63	137.40000	1.006	139.56800	136.59800	136.03500
MO	98	6.78300	2.692	6.74507	6.77757	6.82636
NI	60	94.38000	0.636	96.24250	92.81670	94.08070
SB	121	1.25000	20.256	1.06131	1.46228	1.22641
SN	120	18.35000	2.635	18.52310	18.60620	17.92070
SR	88	149.10000	1.943	151.99000	149.93800	145.37200
ZN	66	724.10000	0.993	736.52300	720.39000	715.38800
BI-1	209	181085.00000	0.969	182709.00000	181321.00000	179225.00000
PB	208	299.30000	0.930	304.30900	296.59100	297.00000
TL	203	0.79550	8.255	0.81987	0.85121	0.71543
GE-1	72	19882.70000	1.942	20176.60000	19445.30000	20026.40000
TB-1	159	275007.00000	2.408	282590.00000	270371.00000	272058.00000

USPS3 2721

Run Name: 1120805E03
Tube Number: 29
Sample Number: **6349224**

Date/Time: 07/27/2011 8:25:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	91957.20000	0.285	91702.00000	92225.20000	91944.40000
AL	27	60020.00000	0.401	60034.10000	59921.60000	60104.30000
CA	44	21180.00000	0.758	21289.20000	21091.40000	21159.40000
CR	52	66.66000	0.715	67.01530	66.65960	66.30520
FE	57	93000.00000	1.003	93796.70000	92559.30000	92644.00000
K	39	12650.00000	1.089	12653.90000	12534.70000	12761.30000
MG	24	13790.00000	0.815	13881.00000	13756.30000	13732.80000
MN	55	1009.00000	1.503	1023.45000	1000.73000	1002.82000
NA	23	170100.00000	0.503	168864.00000	170438.00000	170997.00000
TI	47	499.90000	3.437	515.44800	501.79200	482.46100
V	51	159.00000	0.835	160.08500	158.61000	158.30500
IN-1	115	82595.60000	1.591	84108.70000	81939.90000	81738.30000
AG	107	0.54470	6.921	0.55067	0.50590	0.57753
AS	75	60.16000	1.409	60.46150	60.57450	59.44400
BA	137	1274.00000	0.604	1291.78000	1272.65000	1257.57000
CD	111	7.19800	0.871	7.26395	7.20036	7.12970
CO	59	26.20000	0.898	26.41040	26.08600	26.10360
CU	63	127.40000	1.465	127.61300	127.07000	127.51700
MO	98	6.60100	5.416	6.35134	6.89451	6.55715
NI	60	88.52000	1.201	91.20090	86.74210	87.61700
SB	121	2.23300	8.639	2.06604	2.29143	2.34153
SN	120	22.74000	1.967	22.97520	22.23820	23.00670
SR	88	155.60000	1.272	156.54800	156.42500	153.82800
ZN	66	882.20000	1.757	880.31900	883.63900	882.64200
BI-1	209	177934.00000	0.724	179347.00000	177633.00000	176822.00000
PB	208	733.30000	0.580	734.19900	734.35300	731.34900
TL	203	0.82780	2.762	0.81362	0.85085	0.81893
GE-1	72	19452.10000	2.345	19795.90000	19625.70000	18934.70000
TB-1	159	274598.00000	1.092	277970.00000	272234.00000	273589.00000

USF03 2722

Run Name: 1120805E03
Tube Number: 30
Sample Number: **6349226**

Date/Time: 07/27/2011 8:27:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	91990.70000	0.920	91066.90000	92729.40000	92176.00000
AL	27	35700.00000	0.649	35532.60000	35728.30000	35839.10000
CA	44	42520.00000	0.820	42409.80000	42915.00000	42235.10000
CR	52	57.54000	2.720	58.66120	57.63980	56.31900
FE	57	77080.00000	2.021	77751.60000	76047.80000	77440.70000
K	39	11860.00000	1.663	11963.30000	11815.90000	11800.80000
MG	24	16840.00000	1.717	16992.30000	16740.10000	16787.60000
MN	55	818.30000	2.489	832.53300	807.79600	814.57100
NA	23	313.90000	2.594	316.49400	316.01700	309.18900
TI	47	347.80000	4.980	363.84700	344.02200	335.53100
V	51	122.30000	2.778	124.88300	120.63400	121.38400
IN-1	115	86866.50000	1.253	85815.90000	87988.90000	86794.70000
AG	107	0.29320	11.119	0.28482	0.26807	0.32671
AS	75	43.04000	2.414	43.20880	42.39540	43.51580
BA	137	1077.00000	1.134	1077.98000	1084.16000	1068.86000
CD	111	2.46900	6.630	2.44224	2.66305	2.30171
CO	59	22.24000	1.453	22.25260	22.17340	22.29400
CU	63	110.70000	2.128	110.66700	109.40200	112.03100
MO	98	4.93500	3.986	5.08608	4.96106	4.75786
NI	60	75.84000	1.679	76.11110	75.47320	75.93570
SB	121	1.52500	4.570	1.45568	1.52500	1.59432
SN	120	14.47000	5.225	13.90510	14.18430	15.32060
SR	88	196.50000	0.341	194.83000	198.94700	195.72300
ZN	66	710.30000	1.688	714.63300	708.77300	707.49400
BI-1	209	194463.00000	0.976	192921.00000	193886.00000	196581.00000
PB	208	178.40000	1.903	180.71300	177.04400	177.44200
TL	203	0.64280	8.673	0.60232	0.61204	0.71405
GE-1	72	20283.30000	2.099	20116.50000	19966.00000	20767.30000
TB-1	159	280362.00000	0.829	278434.00000	282941.00000	279710.00000

USF03 2723

Run Name: 1120805E03
Tube Number: 31
Sample Number: **6349226**

Date/Time: 07/27/2011 8:29:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.02 Final Vol: 100.00 DF: 5.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

				INTEGRATIONS		
Element	MASS	CONC. MEAN (ppb)	%RSD	#1	#2	#3
SC-1	45	91896.90000	1.285	92528.00000	90534.80000	92627.90000
AL	27	15280.00000	1.289	15180.60000	15240.70000	15418.70000
CA	44	19140.00000	3.122	18712.80000	19476.50000	19230.70000
CR	52	25.55000	0.878	25.93540	25.19670	25.51790
FE	57	33860.00000	1.513	33547.40000	33826.50000	34206.10000
K	39	4851.00000	0.957	4865.84000	4830.52000	4856.65000
MG	24	7795.00000	1.714	7694.15000	7745.41000	7945.43000
MN	55	364.80000	1.990	366.20000	367.10100	361.09900
NA	23	121.10000	4.448	121.71500	121.85600	119.72900
TI	47	153.70000	8.380	168.02900	150.78200	142.29000
V	51	54.02000	0.152	54.35130	53.31270	54.39600
IN-1	115	89232.00000	0.507	89740.10000	89083.20000	88872.80000
AG	107	0.11600	18.845	0.13147	0.12373	0.09280
AS	75	17.81000	1.238	18.03360	17.52680	17.86960
BA	137	457.50000	1.822	452.52300	455.39300	464.58400
CD	111	1.13600	14.049	1.30629	0.98295	1.11876
CO	59	9.62900	0.912	9.77046	9.52394	9.59260
CU	63	48.26000	0.634	48.36660	47.99730	48.41610
MO	98	2.22900	8.277	2.03712	2.27949	2.37039
NI	60	32.48000	2.506	33.39640	31.54830	32.49530
SB	121	0.66410	14.642	0.59366	0.65403	0.74460
SN	120	6.03700	2.384	6.20566	5.88105	6.02429
SR	88	85.02000	2.337	83.90980	84.24880	86.90140
ZN	66	312.20000	0.964	310.54300	312.89200	313.16500
BI-1	209	196868.00000	0.823	198565.00000	195339.00000	196698.00000
PB	208	77.09000	0.619	77.56970	77.03110	76.66930
TL	203	0.28640	0.831	0.28640	0.28640	0.28640
GE-1	72	20146.30000	1.565	20236.40000	19795.70000	20406.80000
TB-1	159	277015.00000	1.862	276323.00000	272237.00000	282484.00000

USPB3 2724

Run Name: 1120805E03 Date/Time: 07/27/2011 8:31:00
Tube Number: 32
Sample Number: **CCV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93306.80000	1.750	94985.30000	93212.50000	91722.50000
AL	27	2476.00000	1.699	2474.18000	2483.61000	2470.21000
CA	44	2623.00000	2.597	2596.58000	2675.87000	2596.55000
CR	52	235.00000	0.611	238.21600	234.14600	232.63800
FE	57	2583.00000	2.422	2675.12000	2509.02000	2564.86000
K	39	2334.00000	0.749	2360.38000	2329.64000	2311.98000
MG	24	2369.00000	0.762	2400.95000	2356.61000	2349.44000
MN	55	255.10000	1.935	255.41400	253.74800	256.13900
NA	23	2348.00000	2.025	2344.36000	2347.73000	2351.90000
TI	47	256.10000	1.411	258.13000	254.32200	255.84800
V	51	231.90000	0.856	237.64200	229.42400	228.63300
IN-1	115	91228.80000	3.074	94465.90000	89666.70000	89553.80000
AG	107	25.46000	2.612	25.91090	25.78260	24.68650
AS	75	249.90000	1.555	254.21600	248.19000	247.29500
BA	137	258.80000	0.774	267.66400	256.47700	252.25900
CD	111	25.05000	1.448	25.60550	25.00940	24.53510
CO	59	247.50000	0.943	253.55000	244.43000	244.52000
CU	63	245.30000	2.244	247.61700	245.09100	243.19300
MO	98	24.92000	2.631	25.03980	24.80020	24.92000
NI	60	259.50000	1.428	264.40500	256.66900	257.42700
SB	121	25.13000	3.245	25.15800	24.79640	25.43560
SN	120	25.14000	1.669	25.63640	25.14930	24.63430
SR	88	25.23000	2.672	25.80750	24.35090	25.53160
ZN	66	250.60000	1.763	255.25400	250.93000	245.61600
BI-1	209	202734.00000	1.717	206688.00000	201383.00000	200132.00000
PB	208	25.03000	2.198	25.09530	25.48510	24.50960
TL	203	24.81000	1.729	24.81940	24.74890	24.86170
GE-1	72	20109.80000	3.639	20517.10000	19264.90000	20547.20000
TB-1	159	278479.00000	3.147	288546.00000	272566.00000	274324.00000

USF03 2725

Run Name: 1120805E03 Date/Time: 07/27/2011 8:33:00
Tube Number: 33
Sample Number: **CCB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93497.20000	1.039	93715.70000	94340.60000	92435.30000
AL	27	1.39200	51.717	1.36175	1.08936	1.72488
CA	44	6.19900	353.767	7.78486	5.51423	5.29791
CR	52	-0.11940	-17.596	-0.13930	-0.11443	-0.10447
FE	57	3.96400	48.562	3.74682	5.05000	3.09518
K	39	-7.65300	-54.867	-8.03796	-7.46359	-7.45745
MG	24	0.99130	28.538	0.85457	1.16222	0.95711
MN	55	0.06715	73.611	0.04685	0.08433	0.07027
NA	23	-29.07000	-5.057	-29.03320	-29.02550	-29.15130
TI	47	-0.08288	-175.917	-0.24864	0.00000	0.00000
V	51	0.03720	116.559	0.05208	0.03720	0.02232
IN-1	115	95071.20000	0.889	94161.80000	95218.00000	95833.80000
AG	107	-0.00012	-1855.070	-0.00014	-0.00009	-0.00014
AS	75	0.06080	27.895	0.06566	0.06566	0.05107
BA	137	0.05729	175.249	0.01322	0.05288	0.10576
CD	111	-0.00618	-57.233	-0.00464	-0.00927	-0.00464
CO	59	0.02264	53.754	0.01998	0.02996	0.01798
CU	63	-0.06426	-57.330	-0.05305	-0.06987	-0.06987
MO	98	0.01892	36.210	0.01514	0.01892	0.02270
NI	60	0.01923	89.548	0.02885	0.01442	0.01442
SB	121	0.02890	158.927	0.02767	0.02214	0.03689
SN	120	0.06272	61.065	0.05488	0.05749	0.07579
SR	88	-0.01759	-35.043	-0.05277	0.00000	0.00000
ZN	66	-0.02989	-170.325	-0.04484	-0.02242	-0.02242
BI-1	209	204328.00000	2.112	207666.00000	205865.00000	199455.00000
PB	208	0.07903	10.916	0.08063	0.07221	0.08425
TL	203	0.01855	12.210	0.01988	0.01988	0.01590
GE-1	72	19752.50000	0.443	19775.70000	19655.80000	19826.00000
TB-1	159	281653.00000	1.571	283699.00000	284685.00000	276573.00000

USP83 272#

Run Name: 1120805E03
Tube Number: 34
Sample Number: **6349228**

Date/Time: 07/27/2011 8:35:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93171.50000	2.617	95567.90000	93251.90000	90694.80000
AL	27	55610.00000	2.604	55643.80000	55565.60000	55620.70000
CA	44	103700.00000	2.104	105668.00000	102078.00000	103354.00000
CR	52	79.27000	1.108	81.71200	78.33690	77.76110
FE	57	80990.00000	1.582	81629.10000	81465.40000	79875.50000
K	39	15130.00000	1.863	15222.50000	15178.60000	14988.90000
MG	24	22110.00000	1.973	22210.40000	22198.30000	21921.30000
MN	55	1012.00000	1.145	1033.98000	1004.04000	997.97900
NA	23	981.90000	2.098	996.18500	973.25500	976.25900
TI	47	648.90000	2.250	664.76200	635.49500	646.44300
V	51	191.10000	1.929	196.66100	187.33700	189.30200
IN-1	115	85516.50000	3.084	88261.20000	85286.70000	83001.70000
AG	107	0.49710	6.164	0.54308	0.49567	0.45256
AS	75	51.50000	2.746	51.62470	51.60920	51.26600
BA	137	1372.00000	0.864	1416.04000	1356.65000	1343.32000
CD	111	2.73100	6.239	2.84442	2.54500	2.80358
CO	59	29.94000	1.442	30.39480	30.11940	29.30570
CU	63	96.66000	2.127	99.20740	94.72290	96.04960
MO	98	5.55100	2.239	5.63842	5.48741	5.52718
NI	60	98.57000	1.045	100.83700	98.08690	96.78630
SB	121	0.91360	7.190	1.00570	0.86202	0.87308
SN	120	13.60000	3.015	14.25060	13.09770	13.45170
SR	88	351.00000	2.335	352.66700	354.54700	345.78500
ZN	66	874.20000	1.727	894.28700	862.68200	865.63100
BI-1	209	190130.00000	1.963	194014.00000	189804.00000	186572.00000
PB	208	150.20000	0.834	154.08900	148.50000	148.01100
TL	203	1.02200	6.374	0.96715	1.06188	1.03697
GE-1	72	19588.90000	2.957	19795.70000	20036.20000	18934.70000
TB-1	159	276924.00000	2.769	284435.00000	277229.00000	269108.00000

USP83 2727

Run Name: 1120805E03
Tube Number: 35
Sample Number: **6349230**

Date/Time: 07/27/2011 8:36:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.04 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93813.30000	1.126	94581.60000	92608.70000	94249.70000
AL	27	86800.00000	1.006	86512.50000	86318.50000	87569.00000
CA	44	24770.00000	0.906	24907.40000	24699.40000	24703.20000
CR	52	123.20000	1.021	124.04700	120.45500	125.09800
FE	57	136300.00000	2.073	135467.00000	133247.00000	140186.00000
K	39	25230.00000	0.795	25355.20000	25132.10000	25202.60000
MG	24	22670.00000	1.776	22766.80000	22816.30000	22426.90000
MN	55	1825.00000	1.053	1831.09000	1788.37000	1855.54000
NA	23	417.70000	1.356	419.07000	417.15300	416.87700
TI	47	711.50000	3.703	689.08700	726.24600	719.16600
V	51	287.50000	1.280	287.59400	281.81100	293.09500
IN-1	115	83485.00000	1.218	84158.00000	82314.70000	83982.40000
AG	107	0.77930	5.483	0.76148	0.74368	0.83274
AS	75	74.11000	0.978	73.89680	73.65730	74.77590
BA	137	1543.00000	1.280	1532.68000	1530.27000	1566.05000
CD	111	4.26600	2.986	4.30789	4.32885	4.16126
CO	59	52.80000	0.863	52.70840	52.22030	53.47120
CU	63	161.20000	0.711	161.33700	158.96300	163.30100
MO	98	11.02000	4.313	10.91400	11.40330	10.74270
NI	60	149.60000	0.372	150.48100	148.14100	150.17900
SB	121	1.64700	6.940	1.59857	1.74389	1.59854
SN	120	25.09000	3.271	24.52730	25.59040	25.15230
SR	88	224.50000	1.451	226.57200	224.46000	222.46800
ZN	66	604.80000	1.248	612.07100	602.37300	599.95600
BI-1	209	186510.00000	2.293	191241.00000	182917.00000	185371.00000
PB	208	148.60000	1.856	149.16600	147.01400	149.62000
TL	203	1.81500	2.055	1.83025	1.76925	1.84550
GE-1	72	20897.60000	2.503	21248.20000	20296.40000	21148.30000
TB-1	159	275018.00000	2.003	280527.00000	269511.00000	275014.00000

USP83 2729

Run Name: 1120805E03
Tube Number: 36
Sample Number: **6349233**

Date/Time: 07/27/2011 8:38:00
Batch: 112011026001A
Class: **********

Initial Vol: 1.01 Final Vol: 100.00 DF: 2.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	90423.80000	1.712	92145.20000	89145.70000	89980.50000
AL	27	59930.00000	2.164	59590.90000	59554.50000	60644.60000
CA	44	21530.00000	2.267	21421.30000	21289.30000	21879.40000
CR	52	68.53000	1.030	69.01580	68.00590	68.56830
FE	57	106200.00000	1.562	106445.00000	104931.00000	107224.00000
K	39	11190.00000	2.138	11139.20000	11093.20000	11337.60000
MG	24	12270.00000	3.117	12058.00000	12328.30000	12423.70000
MN	55	1013.00000	1.646	1020.46000	991.44300	1027.09000
NA	23	187000.00000	2.072	186949.00000	188446.00000	185605.00000
TI	47	441.70000	3.097	434.18900	444.14500	446.76600
V	51	140.60000	1.728	140.70500	140.88900	140.20600
IN-1	115	84579.90000	2.482	86636.50000	84663.00000	82440.30000
AG	107	0.80670	6.266	0.84044	0.75243	0.82723
AS	75	59.90000	0.948	60.81990	59.90520	58.97490
BA	137	1042.00000	3.319	1038.61000	1033.72000	1053.67000
CD	111	6.01100	2.144	6.08917	6.16502	5.77881
CO	59	24.32000	2.259	24.33430	24.40270	24.22300
CU	63	134.00000	2.155	134.80600	133.43900	133.75500
MO	98	7.16100	5.175	6.91982	7.48261	7.08057
NI	60	79.24000	4.350	80.98770	76.00840	80.72400
SB	121	2.04800	8.105	1.94661	2.04394	2.15346
SN	120	23.92000	3.174	24.10170	23.48440	24.17390
SR	88	131.60000	3.328	132.46800	129.07400	133.25900
ZN	66	870.20000	1.209	887.44900	863.20800	859.94200
BI-1	209	177970.00000	2.180	181057.00000	179238.00000	173615.00000
PB	208	366.30000	1.278	369.12100	367.20000	362.58000
TL	203	0.73340	7.415	0.69619	0.79718	0.70683
GE-1	72	20136.50000	2.860	20146.60000	20707.30000	19555.50000
TB-1	159	271103.00000	1.081	274235.00000	270649.00000	268427.00000

USF03 2729

Run Name: 1120805E03 Date/Time: 07/27/2011 8:40:00
Tube Number: 37 Batch: 112041026002A
Sample Number: **6339377** Class: UL********

Initial Vol: 1.01 Final Vol: 100.00 DF: 10.00 Protocol: SW846

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	96320.30000	2.211	96696.90000	98237.30000	94026.70000
AL	27	40980.00000	3.846	41299.90000	40145.90000	41494.30000
CA	44	5820.00000	3.053	5753.72000	5825.60000	5880.68000
CR	52	42.41000	2.146	41.63810	43.34260	42.24940
FE	57	48510.00000	2.692	47881.60000	48806.40000	48842.10000
K	39	7450.00000	2.334	7443.60000	7448.47000	7457.94000
MG	24	11290.00000	1.703	11219.10000	11410.50000	11240.40000
MN	55	458.60000	2.606	463.78000	454.40500	457.61600
NA	23	142.40000	2.638	144.29000	143.07200	139.83800
TI	47	2124.00000	2.232	2109.99000	2134.71000	2127.29000
V	51	83.87000	1.483	84.29960	84.24950	83.06090
IN-1	115	91268.90000	0.896	91636.50000	91838.20000	90332.10000
AG	107	0.04989	5.496	0.05102	0.04762	0.05102
AS	75	8.25600	7.988	7.98967	7.85891	8.91943
BA	137	150.70000	0.520	152.06900	150.83100	149.20000
CD	111	0.24200	21.359	0.27830	0.18755	0.26015
CO	59	13.95000	1.918	13.73100	14.05560	14.06350
CU	63	21.62000	1.245	21.46750	22.04210	21.35040
MO	98	0.45280	12.728	0.43843	0.51749	0.40249
NI	60	28.35000	3.908	27.21150	29.39740	28.44110
SB	121	0.12560	51.131	0.14198	0.09283	0.14198
SN	120	3.53700	3.885	3.65928	3.41168	3.54004
SR	88	72.14000	1.096	73.13270	71.72720	71.56010
ZN	66	111.50000	1.165	113.04100	110.75200	110.70700
BI-1	209	196214.00000	0.998	197667.00000	196987.00000	193988.00000
PB	208	15.66000	0.727	15.65150	15.74800	15.58060
TL	203	0.57300	6.962	0.53448	0.61152	0.57300
GE-1	72	20607.20000	3.602	20096.30000	21458.50000	20266.60000
TB-1	159	283803.00000	2.039	280428.00000	290486.00000	280495.00000

USP63 2738

Run Name: 1120805E03
Tube Number: 38
Sample Number: **LLC**

Date/Time: 07/27/2011 8:42:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92467.40000	1.766	93152.10000	93646.20000	90604.00000
AL	27	118.10000	5.773	119.79200	125.84000	108.66800
CA	44	248.80000	6.330	262.45700	240.69200	243.25100
CR	52	1.82300	11.810	2.04560	1.68523	1.73818
FE	57	126.70000	11.500	143.62500	123.05700	113.41800
K	39	188.70000	1.881	191.86500	191.86600	182.36900
MG	24	102.00000	0.995	102.75000	102.30000	100.95000
MN	55	1.42000	6.315	1.45097	1.34648	1.46256
NA	23	172.90000	2.767	171.73000	174.84400	172.12600
TI	47	6.63300	39.349	9.20338	6.71589	3.97972
V	51	0.46710	14.601	0.50549	0.50549	0.39031
IN-1	115	93988.80000	3.048	93885.80000	96904.10000	91176.50000
AG	107	0.48220	9.791	0.47958	0.45206	0.51496
AS	75	2.10300	11.888	2.33309	2.18123	1.79468
BA	137	2.24600	7.801	2.21756	2.16070	2.35974
CD	111	0.51200	3.930	0.49587	0.55030	0.48983
CO	59	0.45060	3.751	0.46651	0.44816	0.43713
CU	63	2.10700	5.605	2.17513	2.05250	2.09337
MO	98	0.41730	8.615	0.38252	0.46598	0.40340
NI	60	2.03900	8.847	1.86866	2.08766	2.16068
SB	121	0.96850	10.299	1.04639	0.90415	0.95496
SN	120	1.75000	4.329	1.77561	1.72440	1.74999
SR	88	0.59250	3.787	0.57872	0.59939	0.59939
ZN	66	15.74000	0.865	15.71130	16.09970	15.40900
BI-1	209	200826.00000	1.521	202863.00000	202299.00000	197314.00000
PB	208	1.20500	4.096	1.19121	1.18407	1.23972
TL	203	0.49440	12.314	0.54447	0.52100	0.41773
GE-1	72	20607.20000	3.518	20737.20000	21258.20000	19826.10000
TB-1	159	282478.00000	1.255	284168.00000	278405.00000	284860.00000

USPB3 2734

Run Name: 1120805E03
Tube Number: 39
Sample Number: **ICSA**

Date/Time: 07/27/2011 8:44:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	91178.00000	0.161	91329.40000	91036.00000	91168.70000
AL	27	10100.00000	0.830	10020.20000	10139.50000	10140.30000
CA	44	9933.00000	1.584	9871.40000	9816.16000	10111.40000
CR	52	0.06672	34.113	0.07211	0.06340	0.06465
FE	57	10530.00000	0.980	10600.00000	10394.80000	10595.30000
K	39	12000.00000	1.448	11842.70000	11991.40000	12165.90000
MG	24	9968.00000	0.854	10017.60000	10016.10000	9870.35000
MN	55	0.29140	27.763	0.35888	0.26686	0.24846
NA	23	10070.00000	1.289	10224.10000	9938.62000	10047.30000
TI	47	201.80000	4.509	198.16800	195.05400	212.17700
V	51	0.01268	123.502	0.01343	0.01454	0.01007
IN-1	115	91648.00000	1.463	90645.00000	93171.70000	91127.40000
AG	107	0.00575	4.155	0.00575	0.00575	0.00575
AS	75	0.00151	3408.370	0.00038	0.00301	0.00113
BA	137	0.00264	670.958	0.00226	0.00226	0.00340
CD	111	0.01331	74.981	0.01843	0.01229	0.00921
CO	59	-0.00729	-79.559	-0.00656	-0.01094	-0.00438
CU	63	-0.06534	-70.156	-0.05209	-0.06854	-0.07539
MO	98	197.30000	1.594	198.33200	197.47100	196.09700
NI	60	0.09635	25.542	0.11311	0.07540	0.10054
SB	121	-0.06502	-74.762	-0.05320	-0.10640	-0.03547
SN	120	0.12210	32.138	0.13736	0.12487	0.10406
SR	88	0.51260	4.487	0.51611	0.53718	0.48451
ZN	66	0.21290	57.163	0.29274	0.18629	0.15968
BI-1	209	200163.00000	1.871	204413.00000	197339.00000	198737.00000
PB	208	0.06976	6.032	0.07217	0.06495	0.07217
TL	203	0.00004	7481.440	0.00005	0.00000	0.00005
GE-1	72	20283.30000	3.257	20737.40000	19525.40000	20587.20000
TB-1	159	277581.00000	0.619	278433.00000	278708.00000	275603.00000

USF03 2732

Run Name: 1120805E03 Date/Time: 07/27/2011 8:46:00
Tube Number: 40
Sample Number: **ICSAB**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	92033.90000	1.867	93664.90000	92196.10000	90240.70000
AL	27	10110.00000	2.548	10045.60000	10102.90000	10181.50000
CA	44	9798.00000	0.966	10004.00000	9709.98000	9680.06000
CR	52	18.94000	1.991	18.97010	18.86790	18.98200
FE	57	10300.00000	1.017	10380.40000	10427.10000	10092.50000
K	39	11980.00000	1.903	11985.20000	11968.40000	11986.40000
MG	24	10130.00000	2.464	10068.10000	10133.40000	10188.50000
MN	55	21.09000	1.816	21.56960	20.70630	20.99410
NA	23	9931.00000	1.744	9918.49000	9990.59000	9883.92000
TI	47	208.10000	2.978	206.38700	207.15700	210.75700
V	51	0.00680	146.170	0.00765	0.00701	0.00574
IN-1	115	92510.30000	0.952	91734.10000	92329.30000	93467.50000
AG	107	19.67000	1.157	19.76390	19.53530	19.71080
AS	75	19.74000	0.436	19.67290	19.65850	19.88860
BA	137	-0.01765	-257.847	-0.02118	-0.03177	0.00000
CD	111	19.98000	3.053	20.26010	20.19060	19.48920
CO	59	19.16000	0.638	19.01670	19.23550	19.22780
CU	63	19.49000	2.209	19.39740	19.83770	19.23490
MO	98	198.20000	2.227	200.85200	198.01400	195.73400
NI	60	20.33000	0.622	20.10540	20.43470	20.44980
SB	121	-0.03795	-170.382	-0.01570	-0.03926	-0.05889
SN	120	0.02474	139.208	0.01919	0.02687	0.02815
SR	88	0.46820	10.959	0.48901	0.49941	0.41618
ZN	66	20.26000	2.264	20.56760	20.17210	20.04030
BI-1	209	199827.00000	1.660	203598.00000	198531.00000	197352.00000
PB	208	0.04916	6.400	0.04728	0.05066	0.04954
TL	203	0.00005	5091.150	0.00008	0.00000	0.00008
GE-1	72	20256.50000	0.607	20306.50000	20116.50000	20346.60000
TB-1	159	279129.00000	0.671	278122.00000	281292.00000	277974.00000

USP83 2733

Run Name: 1120805E03 Date/Time: 07/27/2011 8:48:00
Tube Number: 41
Sample Number: **CCV**

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	91795.40000	0.501	91359.10000	91751.90000	92275.20000
AL	27	2494.00000	1.255	2517.83000	2479.47000	2484.69000
CA	44	2531.00000	3.987	2630.97000	2469.88000	2492.16000
CR	52	236.20000	1.106	237.97700	233.95400	236.66900
FE	57	2581.00000	1.388	2602.59000	2542.51000	2597.90000
K	39	2317.00000	0.702	2311.03000	2328.35000	2311.62000
MG	24	2359.00000	1.059	2375.33000	2351.44000	2350.23000
MN	55	253.70000	2.156	258.01500	253.47700	249.60800
NA	23	2329.00000	1.798	2356.86000	2328.92000	2301.22000
TI	47	249.40000	2.176	243.03800	254.89900	250.26200
V	51	231.10000	1.296	233.24000	230.40900	229.65100
IN-1	115	91320.00000	3.203	94385.00000	91015.70000	88559.20000
AG	107	25.46000	2.289	25.69510	25.45020	25.23470
AS	75	246.90000	2.539	249.16700	245.62000	245.91400
BA	137	253.70000	2.425	258.81200	249.26700	253.02200
CD	111	25.28000	1.848	25.66870	25.18170	24.98960
CO	59	242.90000	2.169	245.52300	242.60800	240.56900
CU	63	242.80000	2.319	244.73800	243.30100	240.36100
MO	98	24.70000	1.308	25.15290	24.77230	24.17480
NI	60	251.40000	2.653	253.17600	250.53500	250.48800
SB	121	25.28000	3.301	25.74170	24.64560	25.45260
SN	120	24.87000	3.939	24.65380	24.94950	25.00670
SR	88	25.11000	3.387	25.01440	25.22400	25.09160
ZN	66	249.50000	4.669	254.90000	239.01300	254.58700
BI-1	209	198533.00000	0.557	199064.00000	199273.00000	197262.00000
PB	208	25.16000	1.572	25.49940	24.79910	25.18150
TL	203	25.08000	0.981	25.34750	25.24650	24.64600
GE-1	72	19308.40000	1.512	19215.00000	19074.70000	19635.60000
TB-1	159	277323.00000	1.659	281905.00000	277366.00000	272700.00000

USP89 2734

Run Name: 1120805E03
Tube Number: 42
Sample Number: **CCB**

Date/Time: 07/27/2011 8:49:00

Note: All Analyte values are in ppb, except Internal Standards.

Element	MASS	CONC. MEAN (ppb)	%RSD	INTEGRATIONS #1	#2	#3
SC-1	45	93598.50000	1.673	93464.60000	92103.70000	95227.30000
AL	27	1.44000	53.472	1.56255	1.01107	1.74638
CA	44	17.79000	49.545	19.16010	17.51190	16.67800
CR	52	-0.12920	-30.867	-0.16777	-0.12727	-0.09256
FE	57	1.78200	55.314	2.11823	1.51302	1.71475
K	39	-6.94000	-53.256	-6.70848	-7.10858	-7.00295
MG	24	0.90270	63.288	1.20723	0.61992	0.88095
MN	55	-0.01126	-101.510	-0.00985	-0.01126	-0.01267
NA	23	-32.67000	-1.532	-32.65290	-32.40580	-33.55130
TI	47	-0.08141	-182.164	0.00000	-0.24423	0.00000
V	51	0.02026	117.473	0.01440	0.02399	0.02239
IN-1	115	93865.50000	0.334	94080.50000	93506.20000	94009.80000
AG	107	0.00134	297.386	0.00179	0.00089	0.00134
AS	75	0.06220	34.662	0.07464	0.05971	0.05225
BA	137	-0.01851	-242.355	0.00000	-0.03332	-0.02221
CD	111	-0.00607	-156.355	0.00000	-0.00456	-0.01367
CO	59	0.02833	42.040	0.02684	0.03579	0.02237
CU	63	-0.07816	-34.493	-0.07928	-0.08603	-0.06916
MO	98	0.08226	18.174	0.09631	0.07825	0.07223
NI	60	0.02463	159.277	0.01642	0.04926	0.00821
SB	121	-0.03128	-170.908	-0.03027	-0.04541	-0.01816
SN	120	0.07507	21.900	0.07807	0.07807	0.06906
SR	88	-0.00327	-380.385	-0.00196	-0.00589	-0.00196
ZN	66	-0.01433	-606.281	-0.02388	-0.00478	-0.01433
BI-1	209	204410.00000	0.868	206140.00000	202594.00000	204496.00000
PB	208	0.04437	11.796	0.04831	0.03972	0.04509
TL	203	0.02163	31.789	0.02839	0.01622	0.02028
GE-1	72	20416.80000	4.146	19565.50000	21258.30000	20426.80000
TB-1	159	283204.00000	1.659	279414.00000	288462.00000	281736.00000

USP83 2735

Lancaster Laboratories

Instrument Tuning Report (ICPMS #11332)

File Name: default.tun

File Path: C:\elandata\Tuning

Sample Date/Time: 7/27/2011 6:02:00AM

Number of Replicates: 6

Method File: c:\elandata\Method\dailytune.mth

Measured Mass must be within +/- 0.1 amu of the Exact Mass.

Measured Peak Width must be > or = to 0.640 AND < or = to 0.660.

Analyte	EXACT MASS	MEAS. MASS	Mass DAC	RES. DAC	MEAS. PK. WIDTH
Ce	140.000	140.050	0	0	0.650
In	115.000	115.050	0	0	0.650
Li	6.000	6.100	0	0	0.650
Mg	24.000	24.000	0	0	0.650
Pb	208.000	208.000	0	0	0.600
Rh	103.000	103.050	0	0	0.650
U	238.000	237.950	0	0	0.600

Summary: Verify that the RSD is less than 5 for the following masses.

Mass	Meas. Intens. Mean	Meas. Intens. RSD
140.000	81411.000	1.450
115.000	81362.000	0.940
6.000	41840.000	1.730
24.000	45348.000	1.930
208.000	39206.000	1.630
103.000	79259.000	1.200
238.000	81430.000	0.580

USP03 2736

Mercury Data

USF03 2737

1119403M06

Lancaster Laboratories

Mercury Run Data Report

Data File Name: 1119403.M06

Run Name: 1119403M06

Instrument No.: 62347

Element: Hg

Analyst Employee ID: 0823

Reviewed By
Nelli S Markaryan

Reviewed Date
07/13/2011 7:21PM

Method Reference Name(s):
SW-846 7471A

Verified By:
Robert Strocko

Verified Date
07/17/2011 8:40AM

USF03 2738

LANCASTER LABORATORIES

Run Name: 1119403M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

1 Burn Date/Time: 07/13/2011 17:39

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0		1	1	1.00

AVG (ppb)	Intensity
0.0000	9003.0

2 Burn Date/Time: 07/13/2011 17:40

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0.2		1	1	1.00

AVG (ppb)	Intensity
0.2000	33750.0

3 Burn Date/Time: 07/13/2011 17:42

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0.5		1	1	1.00

AVG (ppb)	Intensity
0.5000	72192.0

4 Burn Date/Time: 07/13/2011 17:43

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S1.0		1	1	1.00

AVG (ppb)	Intensity
1.0000	138348.0

5 Burn Date/Time: 07/13/2011 17:44

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S2.5		1	1	1.00

AVG (ppb)	Intensity
2.5000	339949.0

6 Burn Date/Time: 07/13/2011 17:45

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S5.0		1	1	1.00

AVG (ppb)	Intensity
5.0000	659171.0

CorrelationCoefficient = 0.99995

USF63 2739

LANCASTER LABORATORIES

Run Name: 1119403M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

7 Burn Date/Time: 07/13/2011 17:47

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
ICV		1	1	1.00

AVG (ppb)	Intensity	
2.5300	339176.0	% Recovery = 101.2%

8 Burn Date/Time: 07/13/2011 17:48

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
ICB		1	1	1.00

AVG (ppb)	Intensity
-0.0150	6629.0

9 Burn Date/Time: 07/13/2011 17:49

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CRA		1	1	1.00

AVG (ppb)	Intensity
0.1940	33804.0

10 Burn Date/Time: 07/13/2011 17:51

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 1		1	1	1.00

AVG (ppb)	Intensity	
1.0200	141975.0	% Recovery = 102.0%

11 Burn Date/Time: 07/13/2011 17:52

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 1		1	1	1.00

AVG (ppb)	Intensity
-0.0150	6609.0

12 Burn Date/Time: 07/13/2011 17:53

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBS	**********	0.6396	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0190	6024.0		

USF63 2748

LANCASTER LABORATORIES

Run Name: 1119403M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

13 Burn Date/Time: 07/13/2011 17:54

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSS	**********	0.6067	100	40.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	2.4000	322130.0		

14 Burn Date/Time: 07/13/2011 17:55

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSSD	**********	0.6067	100	40.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	2.4000	322147.0		

15 Burn Date/Time: 07/13/2011 17:57

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339368	**********	0.6112	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0520	15360.0		

16 Burn Date/Time: 07/13/2011 17:58

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339369	**********	0.6048	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0910	20430.0		

17 Burn Date/Time: 07/13/2011 17:59

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339370	**********	0.6157	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0620	16668.0		

18 Burn Date/Time: 07/13/2011 18:01

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339371	**********	0.6028	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0920	20517.0		

USP93 2741

LANCASTER LABORATORIES

Run Name: 1119403M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

19 Burn Date/Time: 07/13/2011 18:02

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339372	**********	0.6123	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0400	13705.0		

20 Burn Date/Time: 07/13/2011 18:03

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339373	**********	0.6210	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0380	13509.0		

21 Burn Date/Time: 07/13/2011 18:04

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339374	**********	0.6304	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1170	23859.0		

22 Burn Date/Time: 07/13/2011 18:05

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 2		1	1	1.00

AVG (ppb)	Intensity	
1.0400	143907.0	% Recovery = 104.0%

23 Burn Date/Time: 07/13/2011 18:06

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 2		1	1	1.00

AVG (ppb)	Intensity
-0.0350	3969.0

24 Burn Date/Time: 07/13/2011 18:08

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339375	**********	0.6049	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0620	16607.0		

USPB3 2742

LANCASTER LABORATORIES

Run Name: 1119403M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

25 Burn Date/Time: 07/13/2011 18:09

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339376	**********	0.6365	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1580	29182.0		

26 Burn Date/Time: 07/13/2011 18:10

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339377	U*********	0.6302	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1080	22593.0		

27 Burn Date/Time: 07/13/2011 18:11

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339380	D*********	0.6238	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0570	16037.0		

28 Burn Date/Time: 07/13/2011 18:12

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339378	R*********	0.6053	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0800	149077.0		

29 Burn Date/Time: 07/13/2011 18:14

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339379	M*********	0.6496	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0200	141925.0		

30 Burn Date/Time: 07/13/2011 18:15

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339384	**********	1.0000	1	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.5540	80926.0		

USP93 2743

LANCASTER LABORATORIES

Run Name: 1119403M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

31 Burn Date/Time: 07/13/2011 18:16

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339385	**********	0.6233	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0520	15328.0		

32 Burn Date/Time: 07/13/2011 18:17

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339386	**********	0.6076	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0530	15435.0		

33 Burn Date/Time: 07/13/2011 18:18

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339387	**********	0.6193	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0420	13963.0		

34 Burn Date/Time: 07/13/2011 18:19

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 3		1	1	1.00

AVG (ppb)	Intensity	
1.0400	144388.0	% Recovery = 104.0%

35 Burn Date/Time: 07/13/2011 18:20

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 3		1	1	1.00

AVG (ppb)	Intensity
-0.0210	5745.0

36 Burn Date/Time: 07/13/2011 18:21

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6339377	UP*********	0.6302	100	1.00	111935711004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.1400	156830.0		

USF83 2744

LANCASTER LABORATORIES

Run Name: 1119403M06

Analyst ID: 0823

Instrument ID: 62347

CV Element: Hg

37 Burn Date/Time: 07/13/2011 18:23

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 4		1	1	1.00

AVG (ppb)	Intensity	
0.9990	138970.0	% Recovery = 99.9%

38 Burn Date/Time: 07/13/2011 18:24

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 4		1	1	1.00

AVG (ppb)	Intensity
-0.0360	3796.0

USP63 2745

Extraction/Distillation/Digestion Logs

LLENS Worksheet for 5708 ICP SW-846 Solid

Batch# 11 193 5708 005

Balance ID#: 10685 **Start Time:** 7/13/11 13:56 **End Time:** 7/13/11 19:03 **Hot Block:** 4

Pipette ID: 10072846

Spike/Reagent	Lot#	Volume Added(mL)
1:1 HNO3	P11159C	10.00
30% H2O2	110251	4.00
HCL	4110060	10.00
HNO3	1110040	5.00
ICP Spike 1A	1106116#16	2.00
ICP Spike 1B	1106117#16	2.00
LCS	ERA073	1.04

Method Ref: SW-846 3050B

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBS	.							1012120	chemware boiling stones added
2)	LCSS	.							1012120	
3)	LCSSD	.							1012120	
4)	LCSW	.							1012120	1gr. boiling stones added, aqueous.
5)	LCSWD	.							1012120	1gr. boiling stones added, aqueous
6)	6339368	07/22/11 09:05		SW	S9			062a	1012120	
7)	6339369	07/22/11 09:05		SW	S9			062a	1012120	
8)	6339370	07/22/11 09:05		SW	S9			062a	1012120	
9)	6339371	07/22/11 09:05		SW	S9			062a	1012120	
10)	6339372	07/22/11 09:05		SW	S9			062a	1012120	
11)	6339373	07/22/11 09:05		SW	S9			062a	1012120	
12)	6339374	07/22/11 09:05		SW	S9			062a	1012120	
13)	6339375	07/22/11 09:05		SW	S9			062a	1012120	
14)	6339376	07/22/11 09:05		SW	S9			062a	1012120	
15)	**6339377U**	07/22/11 09:05		SW	S9			062a	1012120	
16)	**6339378R**	07/22/11 09:05		SW	S9			062a	1012120	
17)	**6339379M**	07/22/11 09:05		SW	S9			062a	1012120	
18)	**6339380D**	07/22/11 09:05		SW	S9			062a	1012120	
19)	6339384LRQ	07/22/11 09:05		SW	S9				1012120	BN: 0.2 to 100ml, multielement lot#1034910, 1g
20)	6339385	07/22/11 09:05		SW	S9			062a	1012120	
21)	6339386	07/22/11 09:05		SW	S9			062a	1012120	
22)	6339387	07/22/11 09:05		SW	S9			062a	1012120	

USF63 2747

Prep Employee: JLM01184

7/13/2011

Batch# 11 193 5708 005

LLENS Batch Chronology and Change Log - ICP SW-846 Solid

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/12/11 16:39	JLM01
2)	Sample Wt		7/13/11 13:40	01184
3)	Final Vol	10685	7/13/11 16:10	01184
4)	Trial		7/13/11 16:10	01184
5)	Upload Prep	USLANENV1-14	7/13/11 19:04	01184

					Original Entry				Data Changed		
Sample ID	Analysis	D	Operation	Measurement	Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason
6339374	05708	1	Sample Wt	Sample Wt	7/13/11 13:46	0.99	(g)	01184	7/13/11 13:46	01184	Wrong entry
6339384	05708	1	Final Vol	Final Volume	7/13/11 16:10	100	(g)	01184	7/13/11 16:10	01184	LRQ
LCSW		1	Final Vol	Final Volume	7/13/11 16:10	100	(g)	01184	7/13/11 16:10	01184	aqueous
LCSWD		1	Final Vol	Final Volume	7/13/11 16:10	100	(g)	01184	7/13/11 16:10	01184	aqueous

Analysis: 5708 ICP SW-846 Solid

Batch# 11 193 5708 005

Sample ID	Due Date	P	EPA#	SDG#	Sample Wt	Final Volume	Trial
PBS					1.0200	100.0000	1
LCSS					1.0400	100.0000	1
LCSSD					1.0300	100.0000	1
LCSW					1.0000	1.0000	1
LCSWD					1.0000	1.0000	1
6339368	07/22/11	S9	15S05	USF03-01	1.0200	100.0000	1
6339369	07/22/11	S9	16S-5	USF03-02	1.0100	100.0000	1
6339370	07/22/11	S9	17S05	USF03-03	1.0100	100.0000	1
6339371	07/22/11	S9	18S05	USF03-04	1.0200	100.0000	1
6339372	07/22/11	S9	19S05	USF03-05	1.0500	100.0000	1
6339373	07/22/11	S9	20S05	USF03-06	1.0300	100.0000	1
6339374	07/22/11	S9	21S05	USF03-07	1.0100	100.0000	1
6339375	07/22/11	S9	74S05	USF03-08	1.0100	100.0000	1
6339376	07/22/11	S9	74S45	USF03-09	1.0200	100.0000	1
6339377U	07/22/11	S9	82S05	USF03-10BKG	1.0000	100.0000	1
6339378R	07/22/11	S9	82S05	USF03-10MS	1.0000	100.0000	1
6339379M	07/22/11	S9	82S05	USF03-10MSD	1.0000	100.0000	1
6339380D	07/22/11	S9	82S05	USF03-10DUP	1.0200	100.0000	1
6339384LRQ	07/22/11	S9	82S05	USF03-10LRQ	1.0000	1.0000	1
6339385	07/22/11	S9	82S40	USF03-11	1.0200	100.0000	1
6339386	07/22/11	S9	87S05	USF03-12	1.0000	100.0000	1
6339387	07/22/11	S9	87S40	USF03-13	1.0000	100.0000	1

6339 6339

LLENS Worksheet for 1026 SW SW846 ICP-MS (for update III)

Batch# 11 193 1026 003

Balance ID#: 10685 **Start Time:** 7/13/11 13:22 **End Time:** 7/13/11 18:28 **Hot Block:** 6

Pipette ID: 10072846

Spike/Reagent	Lot#	Volume Added(mL)
1:1 HNO3	P11159C	10.00
30% H2O2	110251	4.00
HCL	4110060	10.00
HNO3	1110040	5.00
ICP/MS Spike	1115111#2	2.00
LCS	ERA073	1.05

Method Ref: SW-846 3050B

SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1) PBS	.							1012120	chemware boiling stones added
2) LCSS	.							1012120	
3) LCSSD	.							1012120	
4) 6339368	07/22/11 09:05		SW	S9			062a	1012120	
5) 6339369	07/22/11 09:05		SW	S9			062a	1012120	
6) 6339370	07/22/11 09:05		SW	S9			062a	1012120	
7) 6339371	07/22/11 09:05		SW	S9			062a	1012120	
8) 6339372	07/22/11 09:05		SW	S9			062a	1012120	
9) 6339373	07/22/11 09:05		SW	S9			062a	1012120	
10) 6339374	07/22/11 09:05		SW	S9			062a	1012120	
11) 6339375	07/22/11 09:05		SW	S9			062a	1012120	
12) 6339376	07/22/11 09:05		SW	S9			062a	1012120	
13) **6339377U**	07/22/11 09:05		SW	S9			062a	1012120	
14) **6339378R**	07/22/11 09:05		SW	S9			062a	1012120	
15) **6339379M**	07/22/11 09:05		SW	S9			062a	1012120	
16) **6339380D**	07/22/11 09:05		SW	S9			062a	1012120	
17) 6339384LRQ	07/22/11 09:05		SW	S9				1012120	BN: 0.2 to 100 ml 903stock lot#1114716, 1gr. bc
18) 6339385	07/22/11 09:05		SW	S9			062a	1012120	
19) 6339386	07/22/11 09:05		SW	S9			062a	1012120	
20) 6339387	07/22/11 09:05		SW	S9			062a	1012120	

USF03 2758

Prep Employee: JLM01184

7/13/2011

Batch# 11 193 1026 003

LLENS Batch Chronology and Change Log - SW SW846 ICP-MS (for update III)

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/12/11 16:43	JLM01
2)	Sample Vol		7/13/11 13:07	01184
3)	Final Vol	10685	7/13/11 16:11	01184
4)	Trial		7/13/11 16:11	01184
5)	Upload Prep	USLANENV1-14	7/13/11 18:31	01184

					Original Entry				Data Changed		
Sample ID	Analysis	D	Operation	Measurement	Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason
6339384	11026	1	Final Vol	Final Volume	7/13/11 16:11	100	(mL)	01184	7/13/11 16:11	01184	LRQ

ESAT 50150

Analysis: 1026 SW SW846 ICP-MS (for update Batch# 11 193 1026 003

Sample ID	Due Date	P	EPA#	SDG#	Initial Weight	Final Volume	Trial
PBS					1.0200	100.0000	1
LCSS					1.0500	100.0000	1
LCSSD					1.0200	100.0000	1
6339368	07/22/11	S9	15S05	USF03-01	1.0100	100.0000	1
6339369	07/22/11	S9	16S-5	USF03-02	1.0200	100.0000	1
6339370	07/22/11	S9	17S05	USF03-03	1.0000	100.0000	1
6339371	07/22/11	S9	18S05	USF03-04	1.0300	100.0000	1
6339372	07/22/11	S9	19S05	USF03-05	1.0100	100.0000	1
6339373	07/22/11	S9	20S05	USF03-06	1.0400	100.0000	1
6339374	07/22/11	S9	21S05	USF03-07	1.0100	100.0000	1
6339375	07/22/11	S9	74S05	USF03-08	1.0200	100.0000	1
6339376	07/22/11	S9	74S45	USF03-09	1.0400	100.0000	1
6339377U	07/22/11	S9	82S05	USF03-10BKG	1.0100	100.0000	1
6339378R	07/22/11	S9	82S05	USF03-10MS	1.0100	100.0000	1
6339379M	07/22/11	S9	82S05	USF03-10MSD	1.0300	100.0000	1
6339380D	07/22/11	S9	82S05	USF03-10DUP	1.0100	100.0000	1
6339384LRQ	07/22/11	S9	82S05	USF03-10LRQ	1.0000	1.0000	1
6339385	07/22/11	S9	82S40	USF03-11	1.0400	100.0000	1
6339386	07/22/11	S9	87S05	USF03-12	1.0400	100.0000	1
6339387	07/22/11	S9	87S40	USF03-13	1.0300	100.0000	1

25572 SDG

LLENS Worksheet for 1026 SW SW846 ICP-MS (for update III) Batch# 11 204 1026 002

Balance ID#: 10685 **Start Time:** 7/24/11 11:55 **End Time:** 7/24/11 16:57 **Hot Block:** 7

Pipette ID: 10072846 10135887

Spike/Reagent	Lot#	Volume Added(mL)
1:1 HNO3	P11194B	10.00
30% H2O2	110251	4.00
HCL	4110060	10.00
HNO3	1110040	5.00
ICP/MS Spike	1115111#3	2.00
LCS	ERA073	1.02

Method Ref: SW-846 3050B

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBS	.							1012120	Chemware boiling stones added
2)	LCSS	.							1012120	
3)	LCSSD	.							1012120	
4)	6339368	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
5)	6339369	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
6)	6339370	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
7)	6339371	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
8)	6339372	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
9)	6339373	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
10)	6339374	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
11)	6339375	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
12)	6339376	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
13)	**6339377U**	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
14)	**6339378R**	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
15)	**6339379M**	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
16)	**6339380D**	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
17)	**6339384RLQ**	07/27/11 09:05		SW	S12				1012120	T3-Zn,Cu,0.2ml-100ml Lot#1114716 903stock
18)	6339385	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
19)	6339386	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu
20)	6339387	07/27/11 09:05		SW	S12			062a	1012120	T3-Zn,Cu

USP63 2753

Prep Employee: JLM01184

7/24/2011

Batch# 11 204 1026 002

LLENS Batch Chronology and Change Log - SW SW846 ICP-MS (for update III)

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/23/11 6:30	JLM01
2)	Sample Vol		7/24/11 11:38	01184
3)	Final Vol	10685	7/24/11 12:07	01184
4)	Trial		7/24/11 12:07	01184
5)	Upload Prep	USLANENV1-42	7/24/11 16:58	01184

					Original Entry				Data Changed		
Sample ID	Analysis	D	Operation	Measurement	Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason
6339384	11026	1	Final Vol	Final Volume	7/24/11 12:07	100	(mL)	01184	7/24/11 12:07	01184	RLQ

ESAT 6868

Analysis: 1026 SW SW846 ICP-MS (for update Batch# 11 204 1026 002

Sample ID	Due Date	P	EPA#	SDG#	Initial Weight	Final Volume	Trial
PBS					1.0000	100.0000	1
LCSS					1.0200	100.0000	1
LCSSD					1.0200	100.0000	1
6339368	07/27/11		S1215S05	USF03-01	1.0100	100.0000	3
6339369	07/27/11		S1216S-5	USF03-02	1.0300	100.0000	3
6339370	07/27/11		S1217S05	USF03-03	1.0500	100.0000	3
6339371	07/27/11		S1218S05	USF03-04	1.0000	100.0000	3
6339372	07/27/11		S1219S05	USF03-05	1.0100	100.0000	3
6339373	07/27/11		S1220S05	USF03-06	1.0000	100.0000	3
6339374	07/27/11		S1221S05	USF03-07	1.0500	100.0000	3
6339375	07/27/11		S1274S05	USF03-08	1.0400	100.0000	3
6339376	07/27/11		S1274S45	USF03-09	1.0500	100.0000	3
6339377U	07/27/11		S1282S05	USF03-10BKG	1.0100	100.0000	3
6339378R	07/27/11		S1282S05	USF03-10MS	1.0500	100.0000	3
6339379M	07/27/11		S1282S05	USF03-10MSD	1.0300	100.0000	3
6339380D	07/27/11		S1282S05	USF03-10DUP	1.0300	100.0000	3
6339384RLQ	07/27/11		S1282S05	USF03-10RLQ	1.0000	1.0000	3
6339385	07/27/11		S1282S40	USF03-11	1.0000	100.0000	3
6339386	07/27/11		S1287S05	USF03-12	1.0200	100.0000	3
6339387	07/27/11		S1287S40	USF03-13	1.0500	100.0000	3

LLENS Worksheet for 5711 SW SW846 Hg Digest

Batch# 11 193 5711 004

Balance ID#: 10686 **Start Time:** 7/13/11 15:00 **End Time:** 7/13/11 16:05 **Hot Block:** 2

Pipette ID: 10135887

Spike/Reagent	Lot#	Volume Added(mL)
5%KMnO4	H11179Z	15.00
Aqua Regia	P11194C	5.00
LCS	ERA073	0.61
Spike 1ppm Hg	P11189B	0.10

Method Ref: SW-846 7471A modified

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBS	.							1012120	chemware boiling stones added
2)	LCSS	.							1012120	
3)	LCSSD	.							1012120	
4)	6339368	07/22/11 09:05		SW	S9			062a	1012120	
5)	6339369	07/22/11 09:05		SW	S9			062a	1012120	
6)	6339370	07/22/11 09:05		SW	S9			062a	1012120	
7)	6339371	07/22/11 09:05		SW	S9			062a	1012120	
8)	6339372	07/22/11 09:05		SW	S9			062a	1012120	
9)	6339373	07/22/11 09:05		SW	S9			062a	1012120	
10)	6339374	07/22/11 09:05		SW	S9			062a	1012120	
11)	6339375	07/22/11 09:05		SW	S9			062a	1012120	
12)	6339376	07/22/11 09:05		SW	S9			062a	1012120	
13)	**6339377U**	07/22/11 09:05		SW	S9			062a	1012120	
14)	**6339378R**	07/22/11 09:05		SW	S9			062a	1012120	
15)	**6339379M**	07/22/11 09:05		SW	S9			062a	1012120	
16)	**6339380D**	07/22/11 09:05		SW	S9			062a	1012120	
17)	6339384LRQ	07/22/11 09:05		SW	S9				1012120	BN: 0.6 to 100 ml lot# H11194D. 1 gr. boiling stc
18)	6339385	07/22/11 09:05		SW	S9			062a	1012120	
19)	6339386	07/22/11 09:05		SW	S9			062a	1012120	
20)	6339387	07/22/11 09:05		SW	S9			062a	1012120	

USF53 2756

Prep Employee: JLM01184

7/13/2011

Batch# 11 193 5711 004

LLENS Batch Chronology and Change Log - SW SW846 Hg Digest

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/12/11 16:41	JLM01
2)	Sample Wt	10686	7/13/11 14:17	01184
3)	Final Vol	10686	7/13/11 15:27	01184
4)	Trial		7/13/11 15:27	01184
5)	Upload Prep	USLANENV1-34	7/13/11 16:14	01184

					Original Entry				Data Changed		
Sample ID	Analysis	D	Operation	Measurement	Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason
6339384	05711	1	Sample Wt	Sample Wt	7/13/11 14:30	14	(g)	01184	7/13/11 14:30	01184	Wrong entry
6339384	05711	1	Final Vol	Final Volume	7/13/11 15:27	100	(g)	01184	7/13/11 15:27	01184	LRQ

USSES 27572

Analysis: 5711 SW SW846 Hg Digest

Batch# 11 193 5711 004

Sample ID	Due Date	P	EPA#	SDG#	Sample Wt	Final Volume	Trial
PBS					.6396	100.0000	1
LCSS					.6067	100.0000	1
LCSSD					.6120	100.0000	1
6339368	07/22/11	S9	15S05	USF03-01	.6112	100.0000	1
6339369	07/22/11	S9	16S-5	USF03-02	.6048	100.0000	1
6339370	07/22/11	S9	17S05	USF03-03	.6157	100.0000	1
6339371	07/22/11	S9	18S05	USF03-04	.6028	100.0000	1
6339372	07/22/11	S9	19S05	USF03-05	.6123	100.0000	1
6339373	07/22/11	S9	20S05	USF03-06	.6210	100.0000	1
6339374	07/22/11	S9	21S05	USF03-07	.6304	100.0000	1
6339375	07/22/11	S9	74S05	USF03-08	.6049	100.0000	1
6339376	07/22/11	S9	74S45	USF03-09	.6365	100.0000	1
6339377U	07/22/11	S9	82S05	USF03-10BKG	.6302	100.0000	1
6339378R	07/22/11	S9	82S05	USF03-10MS	.6053	100.0000	1
6339379M	07/22/11	S9	82S05	USF03-10MSD	.6496	100.0000	1
6339380D	07/22/11	S9	82S05	USF03-10DUP	.6238	100.0000	1
6339384LRQ	07/22/11	S9	82S05	USF03-10LRQ	1.0000	1.0000	1
6339385	07/22/11	S9	82S40	USF03-11	.6233	100.0000	1
6339386	07/22/11	S9	87S05	USF03-12	.6076	100.0000	1
6339387	07/22/11	S9	87S40	USF03-13	.6193	100.0000	1

USF03 27SS

Lancaster Laboratories

Standards/Reagent Preparation Log

	Standard/Reagent Prepared		Standards/Reagents Used					HNO_3 Used		
	Name	Lot #	Identification	M•	Expire Date (MM/YY)	Lot #	Init. Wt/Vol (Write g or mL)	Vol (mL)	M•	Lot #
1	Hg Manual Std Cal	H11-193 L	Hg-1.0mg/L Cal		7-13-11	H11-193A	.50ml	25	4	1110040
2	↓	M						↓	↓	↓
3	Aqua Regia	N						4	↓	↓
4	Hg-1.0mg/L InterCal	H11-194 A	Hg-10mg/L Cal		11-08-11	H11-174X	1.0ml			
5	0.1mg/L InterCal	B	1.0mg/L Cal		7-14-11	H11-194A	↓			
6	1.0mg/L InterCont	C	10mg/L Cont		11-08-11	H11-174Y				
7	↓ 0.1mg/L InterCont	D	↓ 1.0mg/L Cont		7-14-11	H11-194C	↓			
8	Hg 5711 ICV	E	↓		↓	↓	.85ml			
9	CCV	F	↓		↓	↓	.10			
10	↓ CRA	G	Hg-0.1mg/L Cont		↓	H11-194D	.20			
11	Hg 5711 Std Cal	H	Hg-0.1mg/L Cal		↓	H11-194B	.20			
12	↓	I	↓		↓	↓	.50			
13	↓	J	Hg-1.0mg/L Cal		↓	H11-194A	.10			
14	↓	K	↓		↓	↓	.25			
15	↓	L	↓		↓	↓	.50			
16	↓	m								
17	Aqua Regia	N						125	4	111006
18	Potassium Permang	H11-194P	$KMnO_4$ #1	6	6-10-12	K09592	100.04g			
19	Potassium Permang	S	#1	↓	↓	↓	100.00g			
20	Potassium Permang	↓ R	↓ #1+#2	↓	↓	↓	100.01g			

Key – Manufacturer (M•)

1 – Aldrich Chemical
2 – Conostan Specialty Products
3 – EM Science
4 – Fisher Scientific
5 – High-Purity Standards
6 – J. T. Baker
7 – Johnson Matthey
8 – Leeman Labs
9 – Mallinckrodt
10 – Plasma Pure
11 – Solutions Plus
12 – SPEX Industries
13 – VWR Scientific
XX – Other (footnote Manuf.)

Lancaster Laboratories

Standards/Reagent Preparation Log

	HCl Used			Other Used			Final Vol (mL)	Final Conc (mg/L**)	Init/ Emp #	Prep Date (MM/DD/YY)	Expire Date (MM/DD/YY)	Storage
	Vol (mL)	M•	Lot #	Vol (mL*)	•• M•	Lot #						
1	5mlHCl/04	4	110957	8ml $K_2S_2O_8$ 15ml KMnO4 Digested 08:30		HII-1286 HII-1792	100	5.0 ug/L	DJ354	7-12-11	7-13-11	RT
2	↓	↓	↓	↓		↓	↓	0.0 ↓				
3	12	4	4110060	—		—		1:3			7-12-11	
4	—			To vol w/ 0.15%	HNO3 HII-1285		10	1.0	DJ354	7-13-11	7-14-11	RT
5								0.1				
6								1.0				
7								0.1				
8				Aqua Regia 15ml KMnO4 Digested 06:30		HII-1914 HII-1792	100	2.5 ug/L				
9								1.0				
10								0.2				
11								0.2				
12								0.5				
13								1.0				
14								2.5				
15								5.0				
16								0.0 ↓				
17	37.5	4	4110060	—		—	50	1:3			7-13-11	
18	—			to volume w/ DI H2O			2000	5%	NSM823	7-13-11	1-13-12	RT
19												
20												

Footnotes

Key (••) – Other Used

A = $CaCl_2$ (0.053%)
B = CsCl (10%)
C = KCl
D = La_2O_3 (10%)
E = Al $(NO_3)_3$ (40%)
F = Element Specific

RT = Room Temperature Storage

* units are mL unless otherwise specified
** units are mg/L unless otherwise specified

1105a.01

Lancaster Laboratories

Standards/Reagent Preparation Log

	Standard/Reagent Prepared		Standards/Reagents Used					HNO_3 Used		
	Name	Lot #	Identification	M•	Expire Date (MM/YY)	Lot #	Init. Wt/Vol (Write g or mL)	Vol (mL)	M•	Lot #
1	Hg 5713 Std 0.0	HII-194 AA						2.5	4	11 100 40
2	0.2	BB	Hg 0.1 mg/L CAL		7-14-11	HII-194 B	0.2 mL			
3	0.5	CC	↓			↓	0.5			
4	1.0	DD	1.0 mg/L CAL			194A	0.1			
5	2.5	EE	↓			↓	0.25			
6	5.0	FF	↓			↓	0.5			
7	TCV 2.5	GG	1.0 mg/L CONT			194C	0.25			
8	CCV 1.0	HH	↓			↓	0.1			
9	CRA 0.2	II	0.1 mg/L CONT	L	↓	194D	0.2	↓	↓	↓
10	Hg 1.0 mg/L Inter Cal	HII-195A	Hg 10 mg/L Cal		11-08-11	HII-174X	1.0 mL			
11	0.1 mg/L Inter Cal	B	1.0 mg/L Cal		7-15-11	HII-195A	↓			
12	1.0 mg/L Inter Cont	C	10 mg/L Cont		11-08-11	HII-174Y				
13	0.1 mg/L Inter Cont	D	1.0 mg/L Cont		7-15-11	HII-195C	↓			
14	Hydroxylamine	HII-195E	$NH_2OH*HCl$	6	6-10-12	K08615 #4	240.0 g			
15	↓	↓	NaCl	6	12-29-11	J29468 #4	240.03 g			
16	Stannous Chloride	HII-195F	$SnCl_2*2H_2O$	6	6-10-12	K08617 #5	300.03 g			
17	Hg 5711 Std 0.0	HII-195G								
18	0.2	H	Hg 0.1 mg/L CAL		7-15-11	HII-195B	0.2 mL			
19	0.5	I	↓			↓	0.5			
20	1.0	J	1.0 mg/L CAL	L	↓	195A	0.1 ↓			

Key – Manufacturer (M•)

1 – Aldrich Chemical
2 – Conostan Specialty Products
3 – EM Science
4 – Fisher Scientific
5 – High-Purity Standards
6 – J. T. Baker
7 – Johnson Matthey
8 – Leeman Labs
9 – Mallinckrodt
10 – Plasma Pure
11 – Solutions Plus
12 – SPEX Industries
13 – VWR Scientific
XX – Other (footnote Manuf.)

44 131734

Lancaster Laboratories

Standards/Reagent Preparation Log

	HCl Used			Other Used			Final Vol (mL)	Final Conc (mg/L**)	Init/ Emp #	Prep Date (MM/DD/YY)	Expire Date (MM/DD/YY)	Storage
	Vol (mL)	M•	Lot #	Vol (mL*)	••	Lot #						
1	5mL H_2SO_4	4	110957	15mL KMnO4 8mL $K_2S_2O_8$		HII-1942 HII-188F	100	0.0	NSM823	7-13-11	7-14-11	RT
2								0.2ppb				
3								0.5				
4								1.0				
5								2.5				
6								5.0				
7								2.5				
8								1.0				
9	↓	↓	↓	↓		↓	↓	0.2	↓	↓	↓	↓
10				Trace w/ 0.15% HNO_3		HII-178C	10	1.0	DN354	7-14-11	7-15-11	RT
11				↓		↓	↓	0.1	↓	↓	↓	↓
12								1.0				
13								0.1				
14							2000	12%			12-29-11	
15							↓	↓			↓	
16	200	4	41100160				↓	10%	↓	↓	1-14-11	↓
17				5mL Aqua Regia 11-185P 15mL $KMnO_4$ 11-188P			100	0.0	NSM823	7-14-11	7-15-11	RT
18								0.2ppb				
19								0.5				
20							↓	1.0	↓	↓	↓	↓

Footnotes

Key (••) – Other Used

A = $CaCl_2$ (0.053%)
B = CsCl (10%)
C = KCl
D = La_2O_3 (10%)
E = Al $(NO_3)_3$ (40%)
F = Element Specific

RT = Room Temperature Storage

* units are mL unless otherwise specified
** units are mg/L unless otherwise specified

2932 CHISM

Instrumental Wet Chemistry Data

Case Narrative
Conformance/Nonconformance
Summary

USF93 2764

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Instrumental Water Quality

Sample #	Matrix Liquid	Matrix Solid	Comments
6339368		X	
6339369		X	
6339370		X	
6339371		X	
6339372		X	
6339373		X	
6339374		X	
6339375		X	
6339376		X	
6339377		X	Background/Unspiked
6339378		X	Matrix Spike
6339380		X	Duplicate
6339381		X	Soluble Spike
6339382		X	Insoluble Spike
6339383		X	Post Digestion Spike
6339384		X	RLQ
6339385		X	
6339386		X	
6339387		X	
6339388	X		Equipment Blank

ANALYSIS:

Dilutions are listed in the table below:

Samples	Cr VI by EPA 7199
6339381	SS/ DF5
6339382	IS/ DF100
6339383	PDS/ DF10
LCSS-IS	DF100

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

Method defined actions are taken for any failed matrix QC.

DATA INTERPRETATION:

Total Cyanide (soil) = result X dilution factor X 50 ml / weight of sample (g)

Total Cyanide (water) = result X dilution factor X 50 ml / volume of sample (ml)

IC (fluoride/nitrate nitrogen) = raw result X dilution factor

Hexavalent Chromium water (ug/l) = raw result (ug/l) X dilution factor

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Hexavalent Chromium soil:

For soils, the software takes the weight and extraction volume and DF and calculates the final result in mg/kg based on:

Final Result in mg/kg = ug/l Cr+6 in digestate X volume of digestate in L/ sample weight digested in grams X dilution factor

No further interpretation is necessary for the data submitted.

Abbreviation Key

U = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
R = Matrix Spike (MS)	MDL = Method Detection Limit
M = Matrix Spike Duplicate (MSD)	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	NA = Not Applicable
HS = High Spike	ME = Method
LS = Low Spike	CO = Colorimetric
SS = Soluble Spike	G = Gravimetric
IS = Insoluble Spike	IR = Infrared Spectrophotometry
ISD = Insoluble Spike Duplicate	MTR = Meter
PDS = Post Digestion Spike	OD = Oven Dried
* = Out of Specification	TI = Titration
V = Visual	TOC = Total Organic Carbon
AK = Alpkem	IC = Ion Chromatography
TC = Total Carbon	RA = Rapid Analyzer

Narrative Reviewed and Approved by:

Dana Kauffman
Manager of Data Deliverables

Date 8/1/11

Quality Control and Calibration Summary Forms

USFBB 2767

Lancaster Laboratories

Quality Control Reference List
Instrumental Water Quality

CLIENT: URS Corporation
SDG: USF03

Batch Number	Sample Number	Cr VI by EPA 7199	Anions by 300.0 - Fluoride	Anions by 300.0 - Nitrate	Cyanide by 9012
11190281401A	6339388	X			
	Blank	X			
	LCS/LCSD	X			
11190621201A	6339368		X	X	
	6339369		X	X	
	6339370		X	X	
	6339371		X	X	
	6339372		X	X	
	6339373		X	X	
	6339374		X	X	
	6339375		X	X	
	6339376		X	X	
	6339377 U/BKG		X	X	
	6339378 R		X	X	
	6339380 D		X	X	
	Blank		X	X	
	LCS/LCSD		X	X	
11190621201B	6339384 RLQ		X	X	
	6339385		X	X	
	6339386		X	X	
	6339387		X	X	
11190621901A	6339388		X	X	
	Blank		X	X	
	LCS/LCSD		X	X	
11193117101A	6339388				X
	Blank				X
	LCS/LCSD				X

6542 6535

Lancaster Laboratories

Quality Control Reference List
Instrumental Water Quality

CLIENT: URS Corporation
SDG: USF03

Batch Number	Sample Number	Cr VI by EPA 7199	Anions by 300.0 - Fluoride	Anions by 300.0 - Nitrate	Cyanide by 9012
11194102201A	6339368				X
	6339369				X
	6339370				X
	6339371				X
	6339372				X
	6339373				X
	6339374				X
	6339375				X
	6339376				X
	6339377 U/BKG				X
	6339378 R				X
	6339380 D				X
	6339384 RLQ				X
	Blank				X
	LCS/LCSD				X
11194102201B	6339385				X
	6339386				X
	6339387				X
11200243202A	6339368	X			
	6339369	X			
	6339370	X			
	6339371	X			
	6339372	X			
	6339373	X			
	6339374	X			
	6339375	X			
	6339376	X			
	6339377 U/BKG	X			
	6339380 D	X			
	6339381 SS	X			
	6339382 IS	X			
	6339383 PDS	X			
	6339384 RLQ	X			

6339 6339

Lancaster Laboratories

Quality Control Reference List
Instrumental Water Quality

CLIENT: URS Corporation
SDG: USF03

Batch Number	Sample Number	Cr VI by EPA 7199	Anions by 300.0 - Fluoride	Anions by 300.0 - Nitrate	Cyanide by 9012
	6339385	X			
	6339386	X			
	6339387	X			
	Blank	X			
	LCS/LCSD	X			
	LCSS-IS	X			

USGS 2778

Lancaster Laboratories

Quality Control Summary
Method Blank
Instrumental Water Quality
SDG: USF03
Matrix: LIQUID

Analyte	Analysis Date	Method	Batch Number	Blank Results	Units	MDL	LOQ
Anions by 300.0 - Fluoride	07/09/11	IC	11190621901	N.D.	mg/l	0.080	0.10
Anions by 300.0 - Nitrate	07/09/11	IC	11190621901	N.D.	mg/l	0.050	0.10
Cr VI by EPA 7199	07/09/11	IC	11190281401	N.D.	ug/l	5.0	10.0
Cyanide by 9012	07/13/11	AK	11193117101	N.D.	mg/l	0.0050	0.010

Comments: The blank is acceptable when the result is less than the limit of quantitation.

Lancaster Laboratories

Quality Control Summary
Method Blank
Instrumental Water Quality
SDG: USF03
Matrix: SOLID

Analyte	Analysis Date	Method	Batch Number	Blank Results	Units	MDL	LOQ
Anions by 300.0 - Fluoride	07/09/11	IC	11190621201	N.D.	mg/kg	0.80	1.0
Anions by 300.0 - Nitrate	07/09/11	IC	11190621201	N.D.	mg/kg	0.80	1.5
Cr VI by EPA 7199	07/20/11	IC	11200243202	N.D.	mg/kg	0.20	1.0
Cyanide by 9012	07/14/11	AK	11194102201	N.D.	mg/kg	0.18	0.50

USF03 2772

Comments: The blank is acceptable when the result is less than the limit of quantitation.

Lancaster Laboratories

Quality Control Summary
Matrix Spike Analysis/ Matrix Spike Duplicate (MS/MSD)
Instrumental Water Quality
SDG: USF03
Matrix: SOLID

Sample Number	Analyte	Spike Analysis Date	ME	Batch #	Unspiked Sample Result	MS Spike Added	MSD Spike Added	MS Result	MSD Result	Units	MS Rec (%)	MSD Rec (%)	Acceptance Window (%)	RPD (%)	% RPD Limits </=
6339378 R	Anions by 300.0 - Fluoride	07/09/11	IC	11190621201A	2.2	9.881422	NA	8.2	NA	mg/kg	60*	NA	90 - 110	NA	NA
6339378 R	Anions by 300.0 - Nitrate	07/09/11	IC	11190621201A	4.7	9.881422	NA	13.7	NA	mg/kg	91	NA	90 - 110	NA	NA
6339381 SS	Cr VI by EPA 7199	07/20/11	IC	11200243202A	0.59	40.5	NA	38.6	NA	mg/kg	94	NA	75 - 125	NA	NA
6339382 IS	Cr VI by EPA 7199	07/20/11	IC	11200243202A	0.59	1125	NA	1071	NA	mg/kg	95	NA	75 - 125	NA	NA
6339381 PDS	Cr VI by EPA 7199	07/20/11	IC	11200243202A	0.59	39.5	NA	40.8	NA	mg/kg	102	NA	75 - 125	NA	NA
6339378 R	Cyanide by 9012	07/14/11	AK	11194102201A	N.D.	4.878048	NA	5.5	NA	mg/kg	113	NA	75 - 125	NA	NA

Comments: (2) The unspiked sample result is greater than four times the spike added.
* = Out of Specification

5239358

Lancaster Laboratories

Quality Control Summary
Duplicate Analysis
Instrumental Water Quality
SDG: USF03
Matrix: SOLID

Sample Number	Analyte	Analysis Date	ME	Batch #	Sample Result	Duplicate Result	Units	RPD (%)	Control Limits %
6339380	Anions by 300.0 - Fluoride	07/09/11	IC	11190621201A	2.2	1.1	mg/kg	70(1)*	20
6339380	Anions by 300.0 - Nitrate	07/09/11	IC	11190621201A	4.7	3.5	mg/kg	29(1)*	20
6339380	Cr VI by EPA 7199	07/20/11	IC	11200243202A	0.59	0.35	mg/kg	51(1)*	20
6339380	Cyanide by 9012	07/14/11	AK	11194102201A	N.D.	N.D.	mg/kg	0(1)	20

USF03 2774

Comments: (1) The sample and/or duplicate result is less than five times the LOQ.
* = Out of Specification

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate (LCSD)
Instrumental Water Quality
SDG: USF03
Matrix: LIQUID

Batch #	Analyte	Analysis Date	ME	True LCS/LCSD Value	LCS Results	LCSD Results	Units	Acceptance Range	% RPD Results	% RPD Acceptance </=
11190621901	Anions by 300.0 - Fluoride	07/09/11	IC	1.5	1.6	1.6	mg/l	1.343 - 1.656	1	20
11190621901	Anions by 300.0 - Nitrate	07/09/11	IC	1.5	1.5	1.6	mg/l	1.343 - 1.656	0	20
11190281401	Cr VI by EPA 7199	07/09/11	IC	100	105	106	ug/l	89.5 - 110.4	1	20
11193117101	Cyanide by 9012	07/13/11	AK	0.2	0.22	0.21	mg/l	0.179 - 0.2208	5	20

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate (LCSD)
Instrumental Water Quality
SDG: USF03
Matrix: SOLID

Batch #	Analyte	Analysis Date	ME	True LCS/LCSD Value	LCS Results	LCSD Results	Units	Acceptance Range	% RPD Results	% RPD Acceptance </=
11190621201	Anions by 300.0 - Fluoride	07/09/11	IC	10	10.1	10.6	mg/kg	8.95 - 11	5	20
11190621201	Anions by 300.0 - Nitrate	07/09/11	IC	10	10.2	10.5	mg/kg	8.95 - 11	3	20
11200243202	Cr VI by EPA 7199	07/20/11	IC	5	4.7	4.7	mg/kg	3.976 - 6.02	0	20
11200243202	Cr VI by EPA 7199 LCSS-IS	07/20/11	IC	100	100	NA	%	80 - 120	NA	NA
11194102201	Cyanide by 9012	07/14/11	AK	10	10.7	10.9	mg/kg	8.95 - 11.04	2	20

Lancaster Laboratories

Quality Control Summary
Initial And Continuing Calibration
Instrumental Analysis/Anion Scan

SDG: USF03

Instrument ID: 17694
Calibration Date: 06/14/2011

Analysis	AUTO CAL1	AUTO CAL2	AUTO CAL3	AUTO CAL4	AUTO CAL5	R^2	CC
Fluoride	0.019890	0.076916	0.194561	0.391550	0.606861	0.9995	0.9997
Nitrate-N	0.027089	0.115507	0.315498	0.643624	0.984254	0.9998	0.9999

Acceptance Range:
ICV/CCV: 90%-110%
ICB/CCB: < MDL

Concentration units: mg/L

Batch Numbers: 11190621201A, 11190621201B, 11190621901A
Run Start Dates: 07/07/2011
Run Names: 1118801D09

	Fluoride			Nitrate-N		
Sample	True	Result	%Rec	True	Result	%Rec
ICV	1.5	1.5644	104	1.5	1.4860	99
ICB	0	ND	NA	0	ND	NA
CCV2	1.5	1.5698	105	1.5	1.5585	104
CCB	0	ND	NA	0	ND	NA
CCV2	1.5	1.5317	102	1.5	1.5608	104
CCB	0	ND	NA	0	ND	NA
CCV2	1.5	1.5629	104	1.5	1.5468	103
CCB	0	ND	NA	0	ND	NA
CCV2	1.5	1.5718	105	1.5	1.5677	105
CCB	0	ND	NA	0	ND	NA
CCV2	1.5	1.5394	103	1.5	1.5022	100
CCB	0	ND	NA	0	ND	NA
CCV2	1.5	1.5926	106	1.5	1.5719	105
CCB	0	ND	NA	0	ND	NA
CCV2	1.5	1.6025	107	1.5	1.6011	107
CCB	0	ND	NA	0	ND	NA

* = Out of Specifications

Lancaster Laboratories

Quality Control Summary
Initial And Continuing Calibration
Instrumental Analysis/SCN

SDG: USF03

Instrument ID: 09106
Calibration Date: 07/13/2011

Analysis	AUTO CAL1	AUTO CAL2	AUTO CAL3	AUTO CAL4	AUTO CAL5	AUTO CAL6	CC
Total Cyanide	0.4035	0.4520	0.6645	0.8836	1.5702	2.5612	0.9990

Acceptance Range:
ICV/CCV: +/- 10%
ICB/CCB: < MDL

Concentration units: mg/L

Batch Numbers: 11193117101A
Run Start Dates: 07/13/2011
Run Names: 1119403C02

	Total Cyanide		
Sample	True	Result	%Rec
ICV	0.15	0.15330	102
ICB	0	ND	NA
CCV2	0.15	0.15800	105
CCB 3	0	ND	NA
CCV2	0.15	0.15540	104
CCB 4	0	ND	NA
CCV2	0.15	0.16380	109
CCB 7	0	ND	NA
CCV2	0.15	0.16130	108
CCB 8	0	ND	NA

QC12 59656

* = Out of Specifications

Lancaster Laboratories

Quality Control Summary
Initial And Continuing Calibration
Instrumental Analysis/TCN

SDG: USF03

Instrument ID: 09037
Calibration Date: 07/14/2011

Analysis	AUTO CAL1	AUTO CAL2	AUTO CAL3	AUTO CAL4	AUTO CAL5	AUTO CAL6	CC
Total Cyanide	0.4032	0.4662	0.6617	0.9861	1.6395	2.5795	1.0000

Acceptance Range:
ICV/CCV: +/- 10%
ICB/CCB: < MDL

Concentration units: mg/L

Batch Numbers: 11194102201A, 11194102201B
Run Start Dates: 07/14/2011
Run Names: 1119502C01

	Total Cyanide		
Sample	True	Result	%Rec
ICV	0.15	0.14800	99
ICB	0	ND	NA
CCV2	0.15	0.15870	106
CCB 1	0	ND	NA
CCV2	0.15	0.15400	103
CCB 2	0	ND	NA
CCV2	0.15	0.15130	101
CCB 3	0	ND	NA

* = Out of Specifications

Lancaster Laboratories

Quality Control Summary
Initial And Continuing Calibration
Instrumental Analysis/Anion Scan

SDG: USF03

Instrument ID: 16539
Calibration Date: 07/09/2011

Analysis	AUTO CAL1	AUTO CAL2	AUTO CAL3	AUTO CAL4	AUTO CAL5	R^2	CC
Hex	0.126065	0.587554	1.166748	2.316217	3.482090	1.0000	1.0000

Acceptance Range:
ICV/CCV: 90%-110%
ICB/CCB: < MDL

Concentration units: mg/L

Batch Numbers: 11190281401A
Run Start Dates: 07/09/2011
Run Names: 1119001D08

	Hex		
Sample	True	Result	%Rec
ICV	50	51.4042	103
ICB	0	ND	NA
CCV	200	206.5059	103
CCB	0	ND	NA
CCV	200	204.1518	102
CCB	0	ND	NA
CCV	200	204.0652	102
CCB	0	ND	NA

* = Out Of Specifications

Lancaster Laboratories

Quality Control Summary
Initial And Continuing Calibration
Instrumental Analysis
Hexavalent Chromium
SDG: USF03

Instrument ID: 18213
Calibration Date: 07/20/2011

ICV/CCV Control Limits: 90 - 110
ICB/CCB < LOQ of the Analyte

Concentration units: ug/l

Batch Numbers: 11200243202A
Run Start Date: 07/20/2011

Analysis	10 PPB	50 PPB	100 PPB	200 PPB	300 PPB	CC
Hexavalent Chromium	0.0820	0.5209	1.0820	2.0743	3.3115	0.9992

Sample	True	Result	%Rec
ICV	50	53.01300	106
ICB	0	ND	NA
CCV	200	205.9709	103
CCB	0	ND	NA
CCV	200	207.1578	104
CCB	0	ND	NA
CCV	200	208.5911	104
CCB	0	ND	NA
CCV	3.0	217.3566	109
CCB	0	ND	NA

1642 6838

Raw Data

Lancaster Laboratories

LOQ/MDL Summary
Instrumental Water Quality

SDG: USF03

Fraction:

Parameter	Default MDL	Default LOQ	Units
Fluoride	0.080	0.10	mg/l
Fluoride by IC (solid)	0.80	1.0	mg/kg
Nitrate Nitrogen	0.050	0.10	mg/l
Nitrate Nitrogen by IC (solid)	0.80	1.5	mg/kg
Hexavalent Chromium by IC	0.20	1.0	mg/kg
Hexavalent Chromium (water)	5.0	10.0	ug/l
Total Cyanide (solid)	0.18	0.50	mg/kg
Total Cyanide (water)	0.0050	0.010	mg/l

USF03 2783

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Where quality is a science.

Inorganic Anions by Ion Chromatography

System Name ICS1100 Analyst amal963

Instrument ID 176694 Run Start Date 6.14.11

IDAT Run Number 111650101009 Run Name 111659

ICV/CCV/LCSW (mg/L)

Prep Book/Page: 131001/34

Anion	T.V.	LCSW /ICV/CCV2	DOD LCSW
Fluoride	1.5	1.343 - 1.656	1.193-1.806
Chloride	3.0	2.685 - 3.312	2.385-3.614
Nitrite-N	1.5	1.343 - 1.656	1.193-1.806
Bromide	7.5	6.71 - 8.28	5.963-9.037
Nitrate-N	1.5	1.343 - 1.656	1.193-1.806
O-Phos as P	7.5	6.71 - 8.28	5.963-9.037
Sulfate	7.5	6.71 - 8.28	5.963-9.037

CCB/PBW (mg/L)

F, NO_2	NO_3	Cl, P	Br	SO_4
< 0.08	< 0.05	< 0.2	< 0.4	< 0.3

LCSS (mg/kg) —

Prep Book/Page: _____

Anion	T.V.	Acceptance Range
Fluoride	10	8.95 - 11.0
Chloride	20	17.9 - 22.08
Nitrite-N	10	8.95 - 11.0
Bromide	50	44.75 - 55.2
Nitrate-N	10	8.95 - 11.0
O-Phos as P	50	44.75 - 55.2
Sulfate	50	44.75 - 55.2

CCB/PBS (mg/kg)

F, NO_2, NO_3	Cl	Br	P, SO_4
< 0.8	< 3.0	< 4.0	< 5.0

Independent QC Inorganic

Manufacturer Ventura Lot # D2-MED321042 Exp. Date 8.1.11

Anion	True Value (mg/L)	Range (mg/L)
Fluoride	20.0	17.9 - 22.08
Chloride	30.0	26.85 - 33.147
Nitrite-N	30.45	27.25 - 33.64
Bromide	100.0	89.5 - 110.44
Nitrate-N	22.6	20.23 - 24.97
O-Phos as P	48.9	43.81 - 54.03
Sulfate	150.0	134.25 - 165.74

Calibration Information – (mg/L)

Standard	F, NO_2, NO_3	Cl	Br,P	SO_4
Cal 1	0.1	0.4	0.5	1.0
Cal 2	0.4	0.8	2.0	2.0
Cal 3	1.0	2.0	5.0	5.0
Cal 4	2.0	4.0	10.0	10.0
Cal 5	3.0	6.0	15.0	15.0

Check Standards True Values (mg/L)

	F, NO_2, NO_3	Cl	Br, P, SO_4
Low	0.75	1.5	3.75
High	2.25	4.5	11.25

The dilution for solids is entered into the software by multiplying by 50 in order to calculate the result to mg/kg.

Sequence: 111659
Operator: Dept27IC
Printed: 6/22/2011 8:47:56 AM

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 105
Created: 6/14/2011 8:04:39 AM by Dept27IC
Last Update: 6/15/2011 11:42:51 AM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	Cal 0	Standard	1	25.0	Anion Program	Anion Method	Finished	6/14/2011 8:29:51 AM
2	Cal 1	Unknown	2	25.0	Anion Program	Anion Method	Finished	6/14/2011 8:45:03 AM
3	Cal 2	Standard	3	25.0	Anion Program	Anion Method	Finished	6/14/2011 9:00:15 AM
4	Cal 3	Standard	4	25.0	Anion Program	Anion Method	Finished	6/14/2011 9:15:27 AM
5	Cal 4	Standard	5	25.0	Anion Program	Anion Method	Finished	6/14/2011 9:30:39 AM
6	Cal 5	Standard	6	25.0	Anion Program	Anion Method	Finished	6/14/2011 9:45:51 AM
7	Cal 1	Standard	2	25.0	Anion Program	Anion Method	Finished	6/14/2011 10:20:17 AM
8	ICV	Unknown	7	25.0	Anion Program	Anion Method	Finished	6/14/2011 10:35:28 AM
9	ICB	Unknown	8	25.0	Anion Program	Anion Method	Finished	6/14/2011 10:50:40 AM
10	CRDL	Unknown	9	25.0	Anion Program	Anion Method	Finished	6/14/2011 11:05:52 AM
11	QCS	Unknown	9	25.0	Anion Program	Anion Method	Finished	6/14/2011 11:21:04 AM
12	INDEP. QC STD	Unknown	10	25.0	Anion Program	Anion Method	Finished	6/14/2011 11:36:16 AM
13	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished	6/14/2011 11:51:28 AM
14	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished	6/14/2011 12:12:44 PM
15	6299030	Unknown	11	25.0	Anion Program	Anion Method	Finished	6/14/2011 12:27:56 PM
16	6299031	Unknown	12	25.0	Anion Program	Anion Method	Finished	6/14/2011 12:43:08 PM
17	6299032	Unknown	13	25.0	Anion Program	Anion Method	Finished	6/14/2011 12:58:20 PM
18	6299036	Unknown	14	25.0	Anion Program	Anion Method	Finished	6/14/2011 1:13:32 PM
19	6299037-U	Unknown	15	25.0	Anion Program	Anion Method	Finished	6/14/2011 1:28:44 PM
20	6299037-D	Unknown	15	25.0	Anion Program	Anion Method	Finished	6/14/2011 1:43:56 PM
21	6299037-R	Unknown	16	25.0	Anion Program	Anion Method	Finished	6/14/2011 1:59:07 PM
22	6299038	Unknown	17	25.0	Anion Program	Anion Method	Finished	6/14/2011 2:14:19 PM
23	6299039	Unknown	18	25.0	Anion Program	Anion Method	Finished	6/14/2011 2:29:31 PM
24	6298761	Unknown	19	25.0	Anion Program	Anion Method	Finished	6/14/2011 2:44:42 PM
25	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished	6/14/2011 2:59:54 PM
26	CCB	Unknown	100	25.0	Anion Program	Anion Method	Finished	6/14/2011 3:15:06 PM
27	6298763	Unknown	20	25.0	Anion Program	Anion Method	Finished	6/14/2011 3:30:18 PM
28	6298765	Unknown	21	25.0	Anion Program	Anion Method	Finished	6/14/2011 3:45:30 PM
29	6298767	Unknown	22	25.0	Anion Program	Anion Method	Finished	6/14/2011 4:00:42 PM
30	6298769	Unknown	23	25.0	Anion Program	Anion Method	Finished	6/14/2011 4:15:53 PM
31	6298771	Unknown	24	25.0	Anion Program	Anion Method	Finished	6/14/2011 4:31:06 PM
32	6298773	Unknown	25	25.0	Anion Program	Anion Method	Finished	6/14/2011 4:46:18 PM
33	LCSW	Unknown	91	25.0	Anion Program	Anion Method	Finished	6/14/2011 5:01:30 PM
34	PBW	Unknown	99	25.0	Anion Program	Anion Method	Finished	6/14/2011 5:16:42 PM
35	6300298-U	Unknown	26	25.0	Anion Program	Anion Method	Finished	6/14/2011 5:31:54 PM
36	6300298-D	Unknown	26	25.0	Anion Program	Anion Method	Finished	6/14/2011 5:47:05 PM
37	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished	6/14/2011 6:02:17 PM
38	CCB	Unknown	100	25.0	Anion Program	Anion Method	Finished	6/14/2011 6:17:29 PM
39	6300298-R	Unknown	27	25.0	Anion Program	Anion Method	Finished	6/14/2011 6:32:41 PM
40	6300299	Unknown	28	25.0	Anion Program	Anion Method	Finished	6/14/2011 6:47:53 PM
41	6300300	Unknown	29	25.0	Anion Program	Anion Method	Finished	6/14/2011 7:03:05 PM
42	6300301	Unknown	30	25.0	Anion Program	Anion Method	Finished	6/14/2011 7:18:16 PM

USP83 2785

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 105
Created: 6/14/2011 8:04:39 AM by Dept27IC
Last Update: 6/15/2011 11:42:51 AM by Dept27IC

No.	Name	Weight	Dil. Factor	Comment
1	Cal 0	1.0000	1.0000	
2	Cal 1	1.0000	1.0000	
3	Cal 2	1.0000	1.0000	
4	Cal 3	1.0000	1.0000	
5	Cal 4	1.0000	1.0000	
6	Cal 5	1.0000	1.0000	
7	Cal 1	1.0000	1.0000	
8	ICV	1.0000	1.0000	
9	ICB	1.0000	1.0000	
10	CRDL	1.0000	1.0000	
11	QCS	1.0000	1.0000	
12	INDEP. QC STD	1.0000	20.0000	
13	CCV2	1.0000	1.0000	
14	CCB	1.0000	1.0000	
15	6299030	1.0000	5.0000	11158196901A-1963
16	6299031	1.0000	5.0000	11158196901A-1963
17	6299032	1.0000	5.0000	11158196901A-1963
18	6299036	1.0000	5.0000	11158196901A-1963
19	6299037-U	1.0000	5.0000	11158196901B-1963
20	6299037-D	1.0000	5.0000	11158196901B-1963
21	6299037-R	1.0000	10.0000	11158196901B-1963
22	6299038	1.0000	5.0000	11158196901B-1963
23	6299039	1.0000	5.0000	11158196901B-1963
24	6298761	1.0000	500.0000	11158196901B-1963
25	CCV2	1.0000	1.0000	
26	CCB	1.0000	1.0000	
27	6298763	1.0000	500.0000	11158196901B-1963
28	6298765	1.0000	100.0000	11158196901B-1963
29	6298767	1.0000	500.0000	11158196901B-1963
30	6298769	1.0000	500.0000	11158196901B-1963
31	6298771	1.0000	500.0000	11158196901B-1963
32	6298773	1.0000	200.0000	11158196901B-1963
33	LCSW	1.0000	1.0000	11158196902A-1963
34	PBW	1.0000	1.0000	11158196902A-1963
35	6300298-U	1.0000	5.0000	11158196902A-1963
36	6300298-D	1.0000	5.0000	11158196902A-1963
37	CCV2	1.0000	1.0000	
38	CCB	1.0000	1.0000	
39	6300298-R	1.0000	10.0000	11158196902A-1963
40	6300299	1.0000	5.0000	11158196902A-1963
41	6300300	1.0000	5.0000	11158196902A-1963
42	6300301	1.0000	5.0000	11158196902A-1963

USF03 2795

Title:
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences\111659.SEQ
Created: 4/8/2009 10:00:26 AM by Lancaster Labs
Last Update: 6/14/2011 12:27:40 PM by Dept27IC

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	All Channels
2	0.000	Void Volume Treatment	On	All Channels
3	0.010	Minimum Area	0.018 "[Signal]*min"	All Channels
4	2.000	Void Volume Treatment	Off	All Channels
5	2.650	Inhibit Integration	Off	All Channels
6	2.700	Valley to Valley	On	All Channels
7	14.000	Valley to Valley	Off	All Channels

USF83 2787

Title:
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences\111659.SEQ
Created: 4/8/2009 10:00:26 AM by Lancaster Labs
Last Update: 6/14/2011 12:27:40 PM by Dept27IC

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment
1	F	2.980 min	0.200 AG	External	Area	LOff	Auto		
2	Cl	4.260 min	0.200 AG	External	Area	LOff	Auto		
3	NO2	5.130 min	0.200 AG	External	Area	LOff	Auto		
4	Br	6.500 min	0.200 AG	External	Area	LOff	Auto		
5	NO3	7.700 min	0.200 AG	External	Area	LOff	Auto		
6	P	10.000 min	0.200 AG	External	Area	LOff	Auto		
7	SO4	12.500 min	0.200 AG	External	Area	LOff	Auto		

USF83 2299

Title:
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences\111659.SEQ
Created: 4/8/2009 10:00:26 AM by Lancaster Labs
Last Update: 6/14/2011 12:27:40 PM by Dept27IC

Amount Table:

Dimension of Amounts: mg/L mg/kg
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 6
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Amount Cal 0	Amount Cal 1	Amount Cal 2	Amount Cal 3	Amount Cal 4	Amount Cal 5	Comment
1	F	2.980 min	1.000000	0.000000	0.100000	0.400000	1.000000	2.000000	3.000000	
2	Cl	4.260 min	1.000000	0.000000	0.400000	0.800000	2.000000	4.000000	6.000000	
3	NO2	5.130 min	1.000000	0.000000	0.100000	0.400000	1.000000	2.000000	3.000000	
4	Br	6.500 min	1.000000	0.000000	0.500000	2.000000	5.000000	10.000000	15.000000	
5	NO3	7.700 min	1.000000	0.000000	0.100000	0.400000	1.000000	2.000000	3.000000	
6	P	10.000 min	1.000000	0.000000	0.500000	2.000000	5.000000	10.000000	15.000000	
7	SO4	12.500 min	1.000000	0.000000	1.000000	2.000000	5.000000	10.000000	15.000000	

USF83 2789

Title:
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences\111659.SEQ
Created: 4/8/2009 10:00:26 AM by Lancaster Labs
Last Update: 6/14/2011 12:27:40 PM by Dept27IC

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	*Cal 0*	*1*	*1*	*25.0*	*1.0000*	*1.0000*	*1.0000*	*6/14/2011 8:29:51 AM*	
2	☒	Cal 2	3	3	25.0	1.0000	1.0000	1.0000	6/14/2011 9:00:15 AM	
3	☒	Cal 3	4	4	25.0	1.0000	1.0000	1.0000	6/14/2011 9:15:27 AM	
4	☒	Cal 4	5	5	25.0	1.0000	1.0000	1.0000	6/14/2011 9:30:39 AM	
5	☒	Cal 5	6	6	25.0	1.0000	1.0000	1.0000	6/14/2011 9:45:51 AM	
6	☒	Cal 1	7	2	25.0	1.0000	1.0000	1.0000	6/14/2011 10:20:17 AM	

USF83 2798

Title:
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences\111659.SEQ
Created: 4/8/2009 10:00:26 AM by Lancaster Labs
Last Update: 6/14/2011 12:27:40 PM by Dept27IC

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib. Comment
1	☒	*Cal 0*	*Couldn't find the peak in the chromatogram.*
2	☒	Cal 2	Ok
3	☒	Cal 3	Ok
4	☒	Cal 4	Ok
5	☒	Cal 5	Ok
6	☒	Cal 1	Ok

USP63 2791

Title:
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences\111659.SEQ
Created: 4/8/2009 10:00:26 AM by Lancaster Labs
Last Update: 6/14/2011 12:27:40 PM by Dept27IC

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Rounding	Channel	Peak
1									

Chromeleon © Dionex Corporation, Version 6.80 SR9a Build 2680 (163077)

Title:
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences\111659.SEQ
Created: 4/8/2009 10:00:26 AM by Lancaster Labs
Last Update: 6/14/2011 12:27:40 PM by Dept27IC

System Suitability Test:

No.	Name	N.A.	Fail-Action	Result	SST Message
1					

Chromeleon © Dionex Corporation, Version 6.80 SR9a Build 2680 (163077)

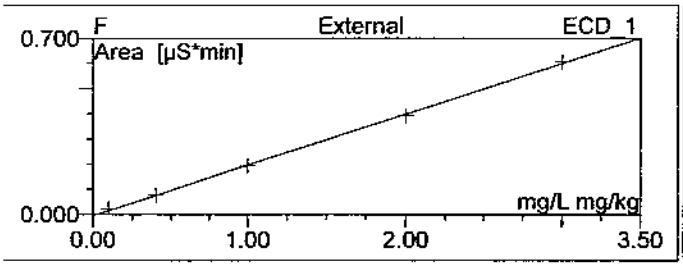
Lancaster Laboratories

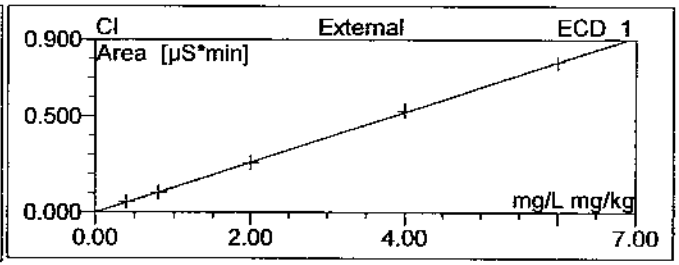
Inorganic Anions by IC

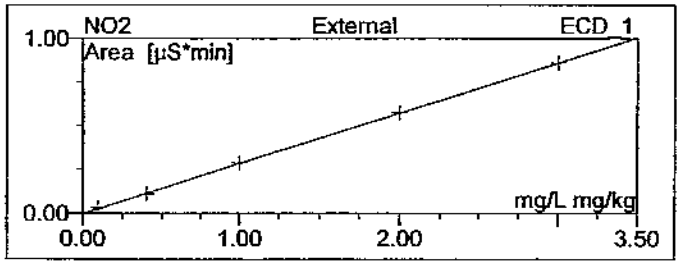
Reviewer/Entered: Ashley Adams Ashley Adams

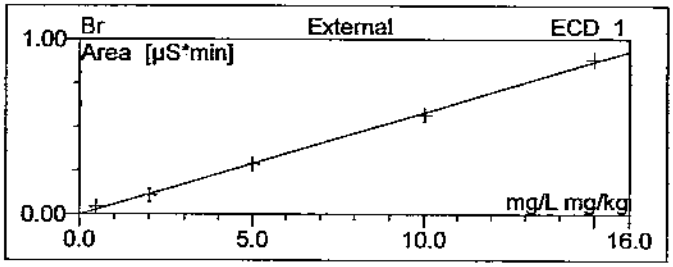
Date: JUN 15 2011

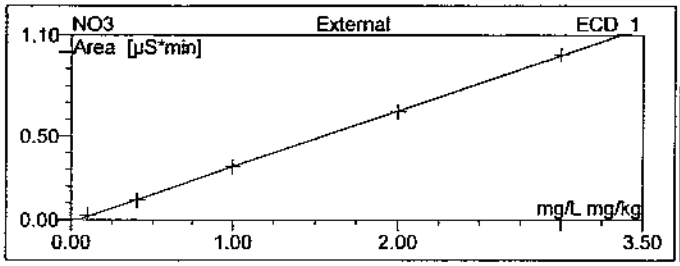
Sample Name:	**Cal 5**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 09:45**	Schedule File Name:	**111659**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**6**		**AS14-028590**

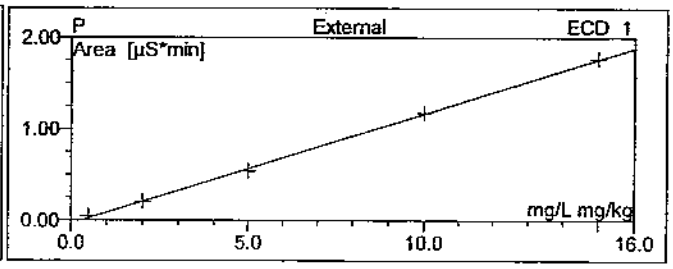


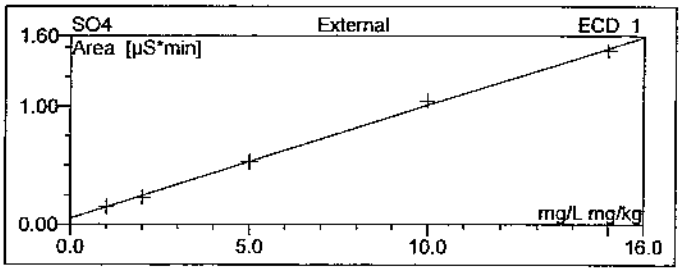












No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.99	F	LOff	5	99.9493	-0.0044	0.2018	0.0000
2	4.27	Cl	LOff	5	99.9752	-0.0007	0.1307	0.0000
3	5.13	NO2	LOff	5	99.9967	-0.0023	0.2875	0.0000
4	6.53	Br	LOff	5	99.8690	-0.0024	0.0584	0.0000
5	7.65	NO3	LOff	5	99.9813	-0.0130	0.3309	0.0000
6	10.06	P	LOff	5	99.9426	-0.0347	0.1200	0.0000
7	12.58	SO4	LOff	5	99.8584	0.0491	0.0962	0.0000

6/15/11

Lancaster Laboratories

Inorganic Anions by IC

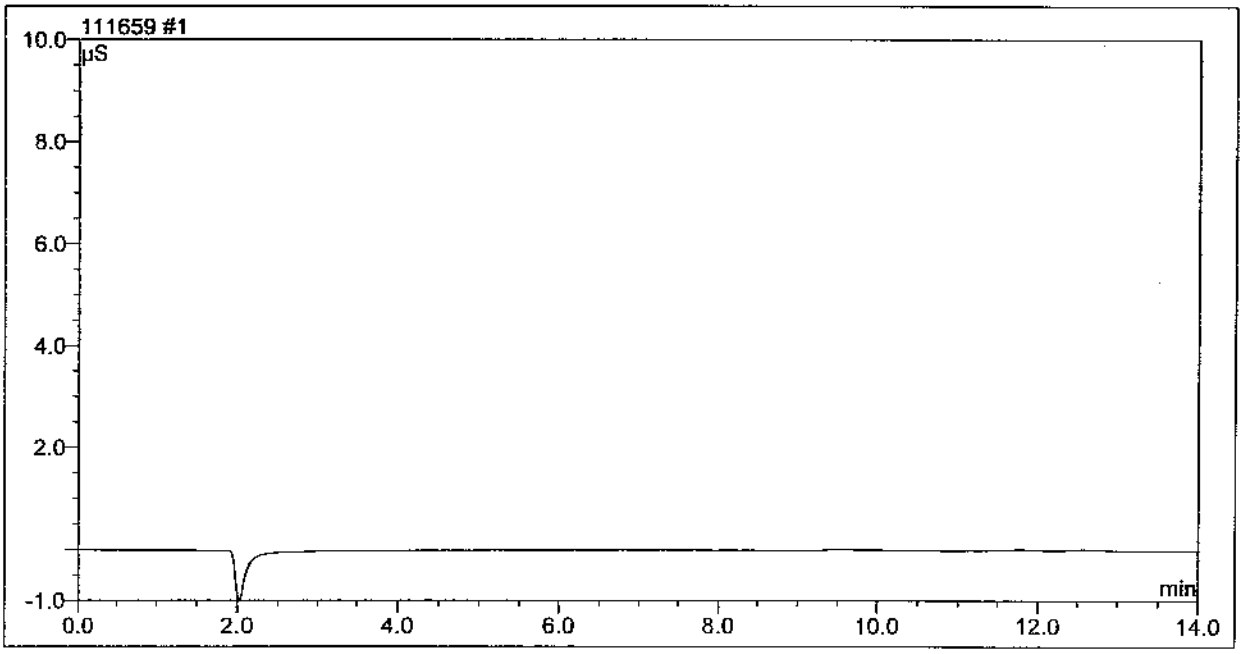
Reviewer/Enterer: Ashley Adams (Ashley Adams)

Date: JUN 15 2011

Sample Name:	**Cal 0**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 08:29**	Schedule File Name:	**111659**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**1**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg



Reviewed/Verified By:

Date: 6/15/11

USF03 2795

Lancaster Laboratories

Inorganic Anions by IC

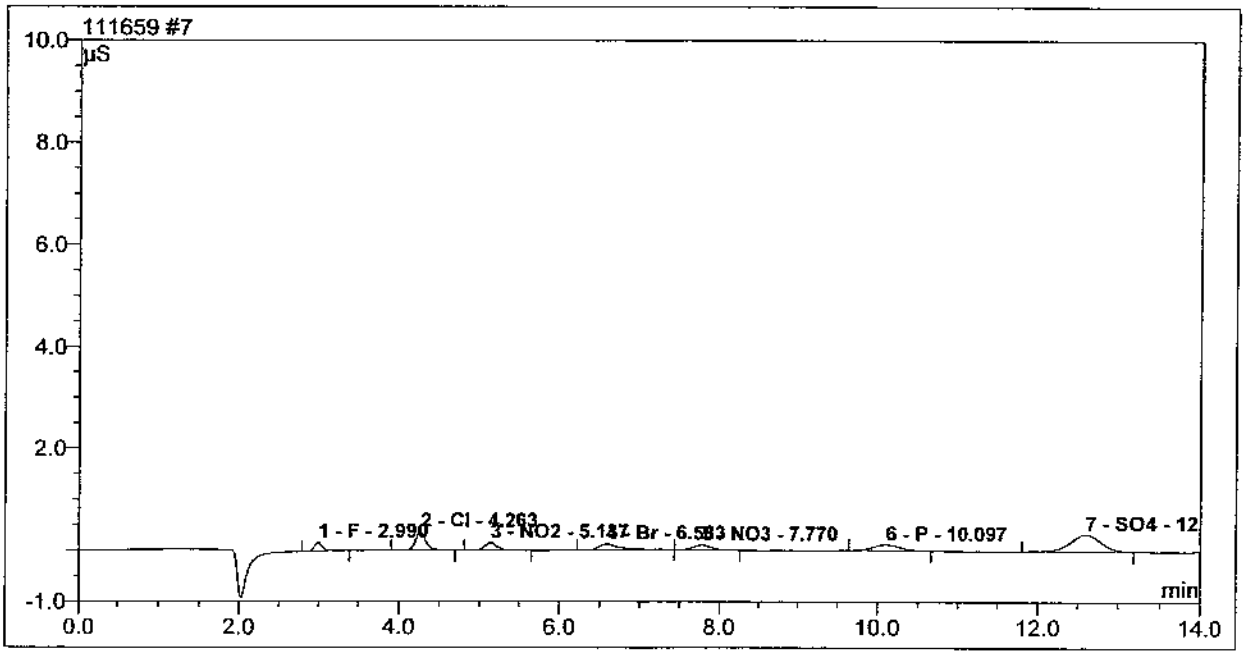
Reviewer/Enterer: Ashley Adams (Ashley Adams)

Date: JUN 15 2011

Sample Name:	**Cal 1**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 10:20**	Schedule File Name:	**111659**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**7**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.020	0.120281
2	Cl	4.26	0.053	0.412337
3	NO2	5.14	0.028	0.105879
4	Br	6.58	0.042	0.754699
5	NO3	7.77	0.027	0.121019
6	P	10.10	0.044	0.656005
7	SO4	12.60	0.151	1.060164



Reviewed/Verified By: [signature]

Date: 6/15/11

USF83 2796

6/15/2011 8:23 AM

Lancaster Laboratories

Inorganic Anions by IC

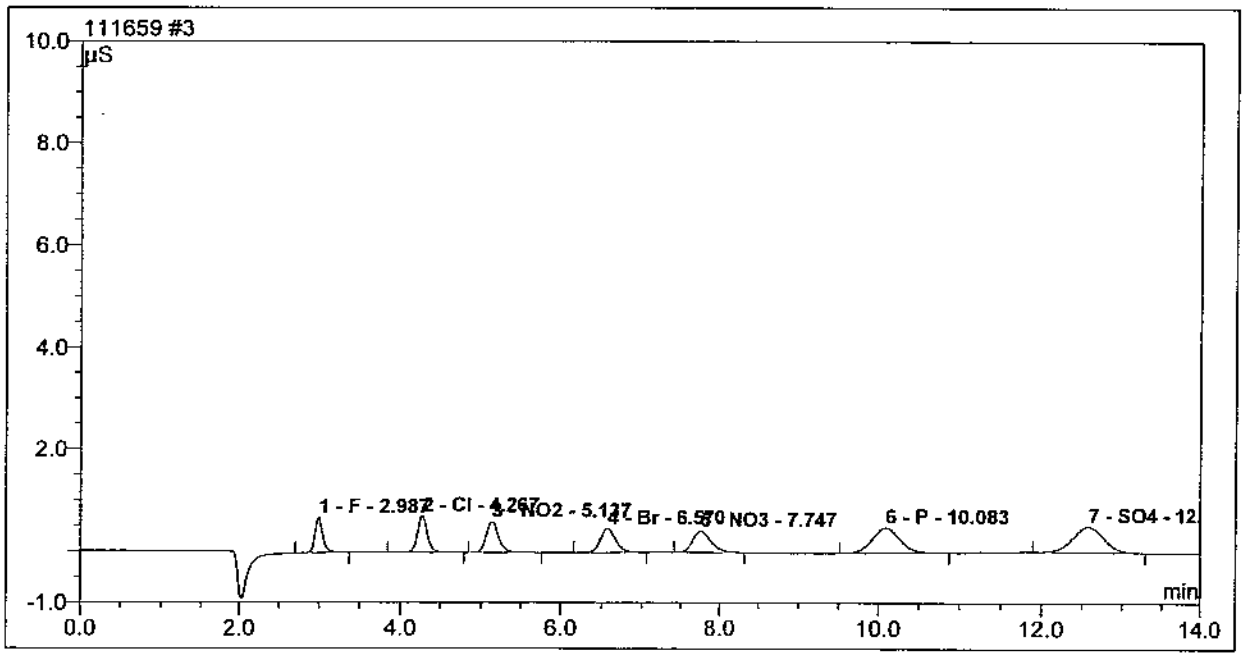
Reviewer/Enterer: Ashley Adams (Ashley Adams)

Date: JUN 15 2011

Sample Name:	**Cal 2**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 09:00**	Schedule File Name:	**111659**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**3**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.077	0.402871
2	Cl	4.27	0.102	0.786046
3	NO2	5.14	0.110	0.390421
4	Br	6.57	0.107	1.877779
5	NO3	7.75	0.116	0.388239
6	P	10.08	0.203	1.979976
7	SO4	12.58	0.225	1.830450



Reviewed/Verified By:

Date: 6/15/11

USP83 2797

Lancaster Laboratories

Inorganic Anions by IC

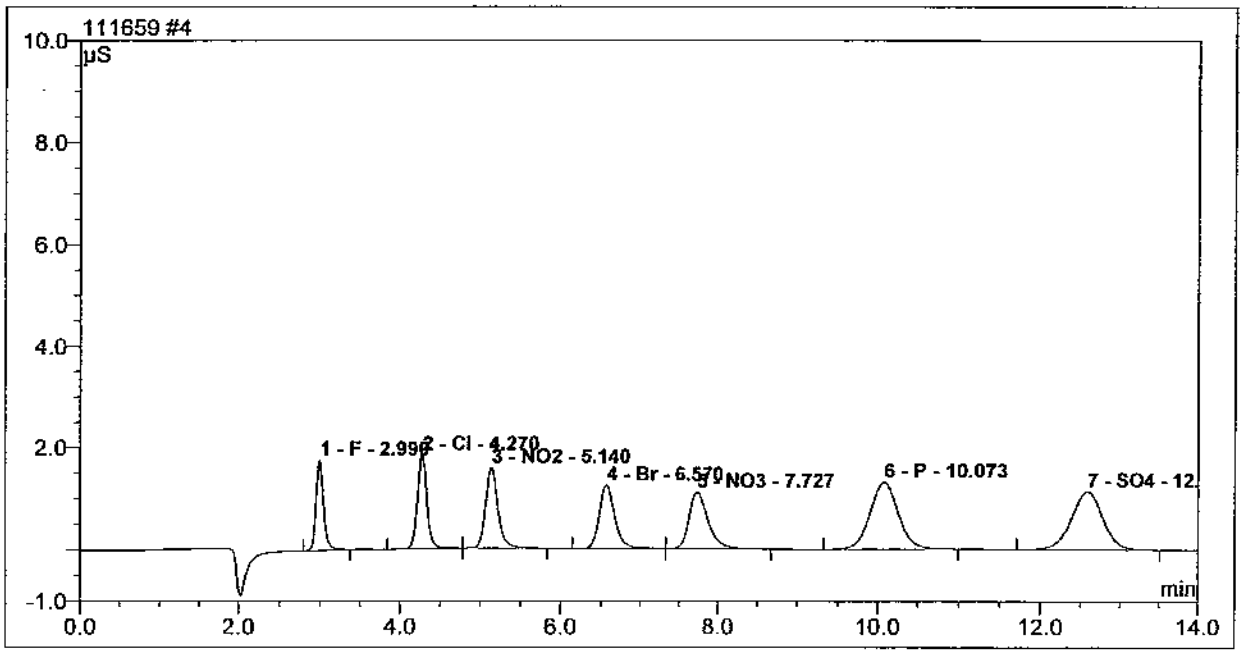
Reviewer/Enterer: Ashley Adams
Ashley Adams

Date: JUN 15 2011

Sample Name:	**Cal 3**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 09:15**	Schedule File Name:	**111659**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**4**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.195	0.985851
2	Cl	4.27	0.257	1.971423
3	NO2	5.14	0.285	1.000517
4	Br	6.57	0.284	4.911934
5	NO3	7.73	0.315	0.992652
6	P	10.07	0.538	4.770282
7	SO4	12.58	0.526	4.962580



Reviewed/Verified By:

Date: 6/15/11

USF63 2790

Lancaster Laboratories

Inorganic Anions by IC

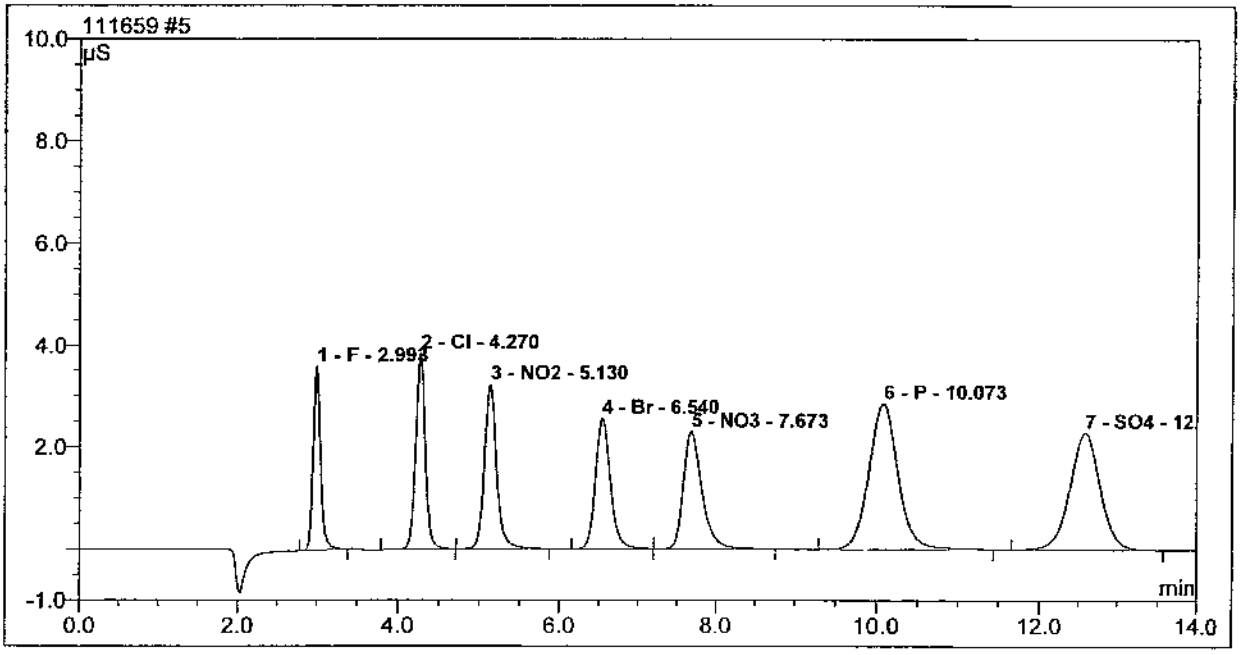
Reviewer/Enterer: Ashley Adams (Ashley Adams)

Date: JUN 15 2011

Sample Name:	**Cal 4**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 09:30**	Schedule File Name:	**111659**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**5**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.392	1.962017
2	Cl	4.27	0.530	4.058890
3	NO2	5.13	0.575	2.006821
4	Br	6.54	0.567	9.755280
5	NO3	7.67	0.644	1.984318
6	P	10.07	1.172	10.059083
7	SO4	12.59	1.044	10.347210



Reviewed/Verified By: [signature]

Date: 6/15/11

USF83 2799

Lancaster Laboratories

Inorganic Anions by IC

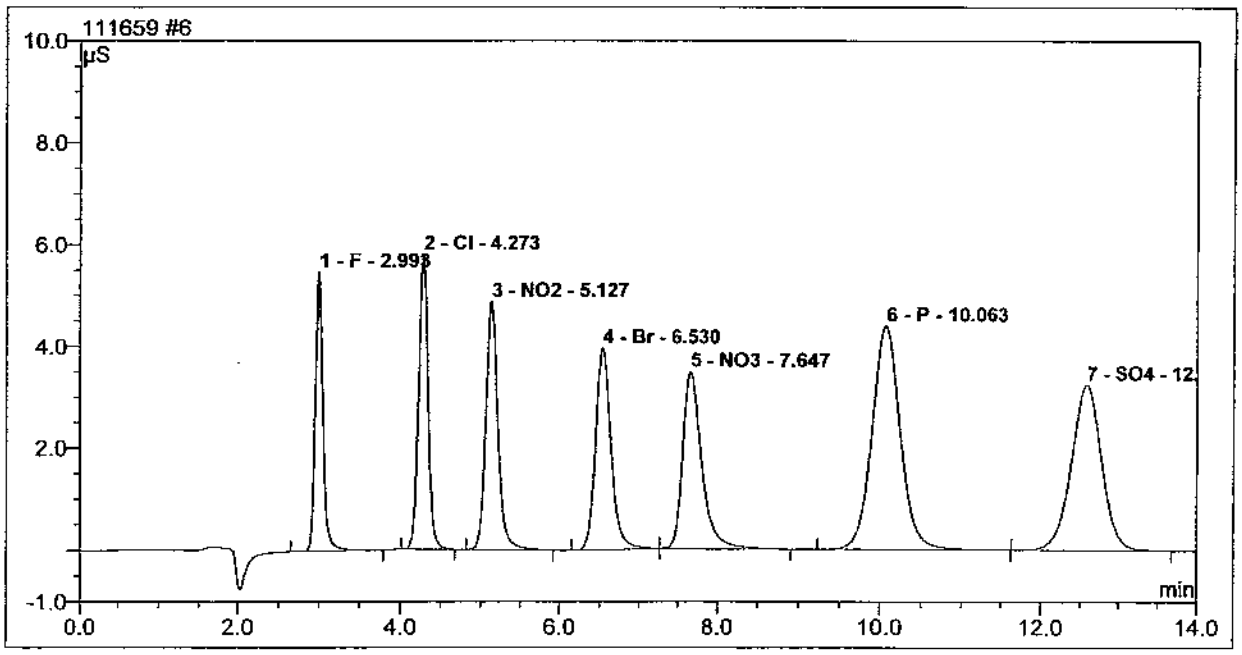
Reviewer/Enterer: Ashley Adams
Ashley Adams

Date: JUN 15 2011

Sample Name:	**Cal 5**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 09:45**	Schedule File Name:	**111659**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**6**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.607	3.028980
2	Cl	4.27	0.779	5.971304
3	NO2	5.13	0.859	2.996362
4	Br	6.53	0.885	15.200308
5	NO3	7.65	0.984	3.013772
6	P	10.06	1.769	15.034653
7	SO4	12.58	1.472	14.799596



Reviewed/Verified By:

Date: 6/15/11

USF03 2868

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

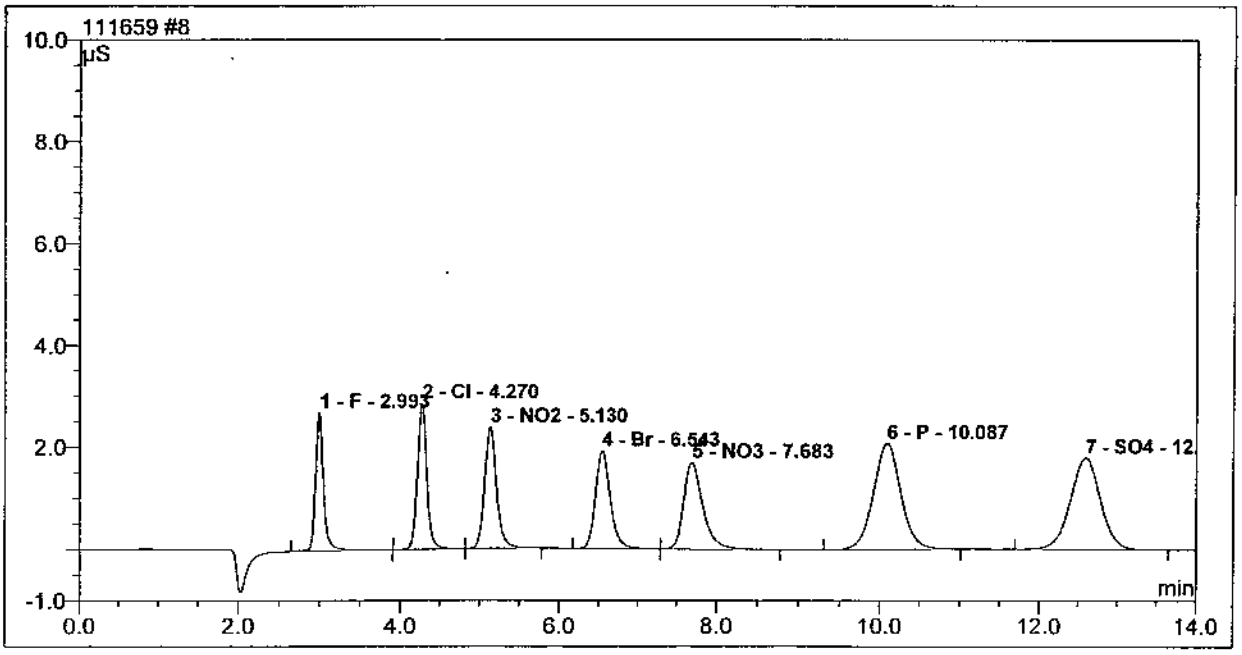
Date: JUN 15 2011

Sample Name:	**ICV**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 10:35**	Schedule File Name:	**111659**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**8**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.311	1.564425
2	Cl	4.27	0.402	3.084344
3	NO2	5.13	0.422	1.476989
4	Br	6.54	0.429	7.383075
5	NO3	7.68	0.479	1.486022
6	P	10.09	0.843	7.311235
7	SO4	12.59	0.818	7.994114

5



Reviewed/Verified By: [signature]

Date: 6/15/11

USF83 2881

Lancaster Laboratories

Inorganic Anions by IC

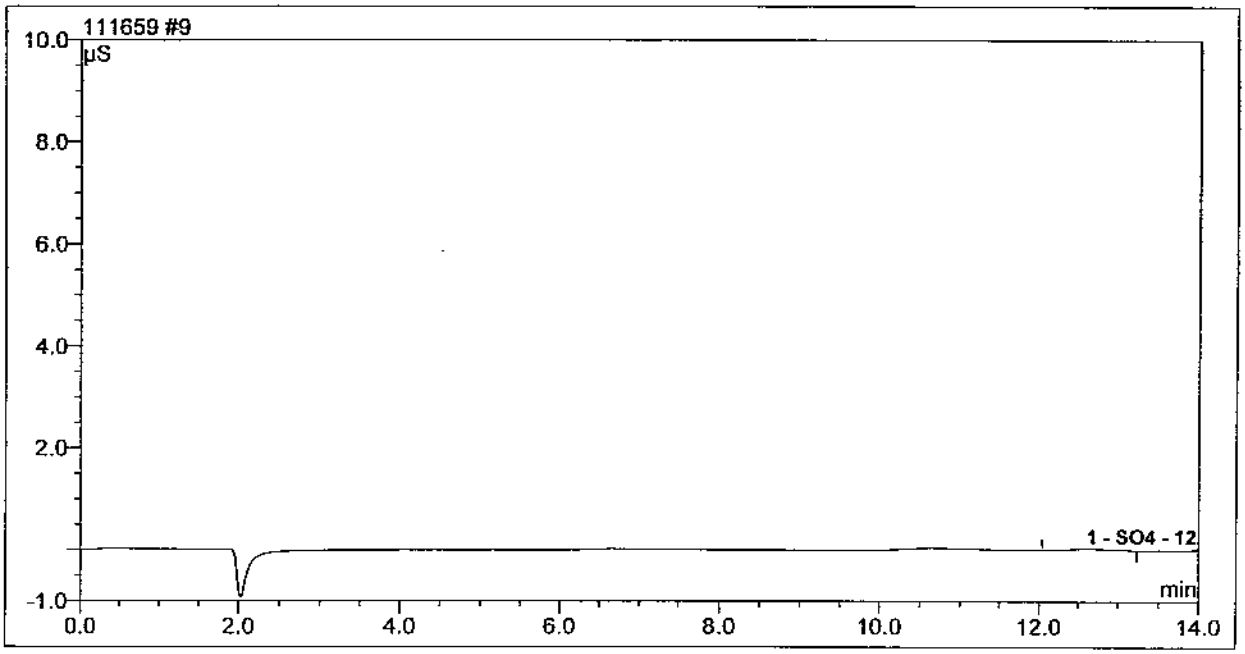
Reviewer/Enterer: Ashley Adams
Ashley Adams

Date: JUN 15 2011

Sample Name:	**ICB**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 10:50**	Schedule File Name:	**111659**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**9**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	SO4	12.60	0.021	-0.293853



Reviewed/Verified By: [signature]

Date: 6/15/11

USF63 2862

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

Date: JUN 15 2011

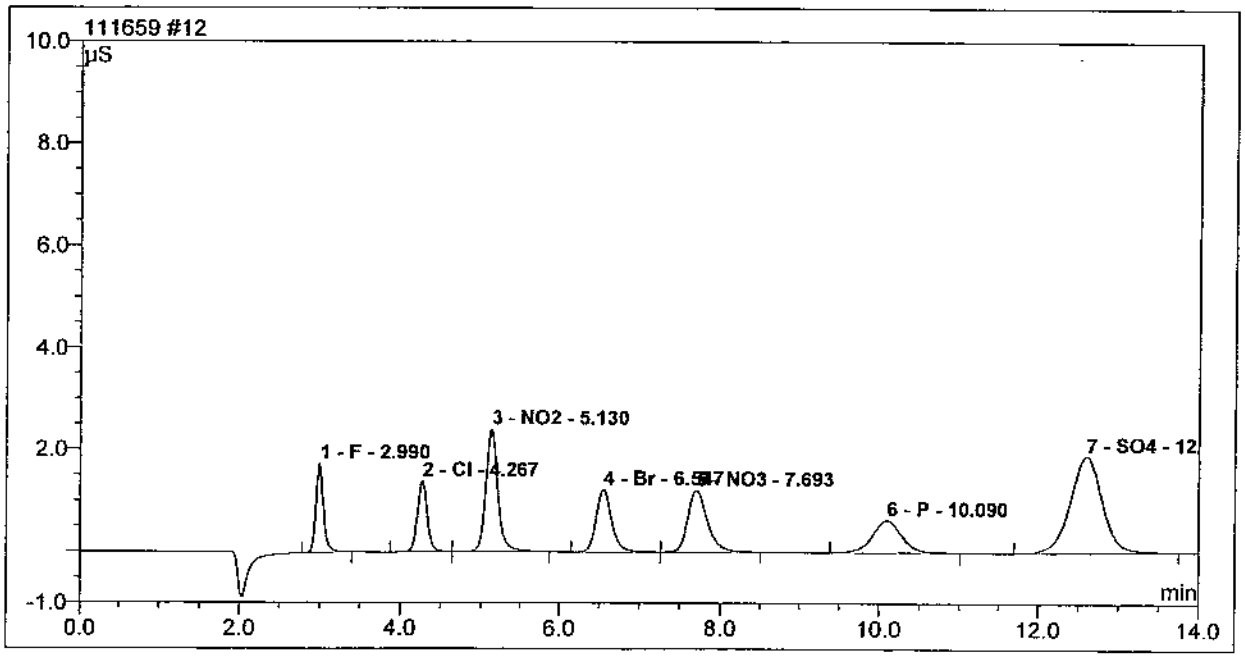
Sample Name:	**INDEP. QC STD**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/14/2011 11:36**	Schedule File Name:	**111659**
Dilution Factor:	**20**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**12**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.192	19.486086
2	Cl	4.27	0.194	29.764198
3	NO2	5.13	0.432	30.218419
4	Br	6.55	0.276	95.224913
5	NO3	7.69	0.339	21.297154
6	P	10.09	0.267	50.359552
7	SO4	12.60	0.882	173.204860

(E)

repeat @ inj # 78



Reviewed/Verified By:

Date: 6/15/11

USF63 2883

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

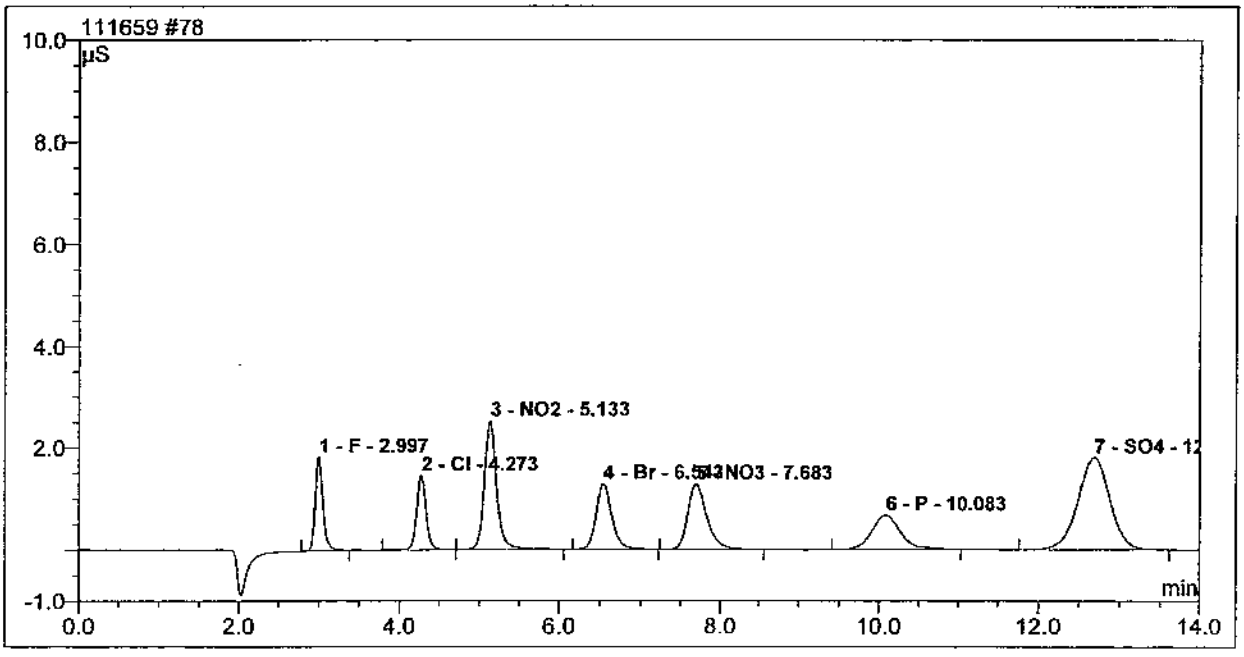
Date: JUN 15 2011

Sample Name:	**INDEP. QC STD**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**06/15/2011 04:25**	Schedule File Name:	**111659**
Dilution Factor:	**20**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**78**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	3.00	0.201	20.395792
2	Cl	4.27	0.206	31.674937
3	NO2	5.13	0.457	31.931390
4	Br	6.54	0.289	99.883550
5	NO3	7.68	0.357	22.350276
6	P	10.08	0.285	53.254978
7	SO4	12.68	0.831	162.650881

IS



Reviewed/Verified By:

Date: 6/15/11

USP#3 2884

Lancaster Laboratories

Where quality is a science.

Inorganic Anions by Ion Chromatography

System Name ICS1100 Analyst AMA1963 / BH1021

Instrument ID 176094 Run Start Date 7-7-11 - 7-9-11

IDAT Run Number 111801D09 Run Name 111889

ICV/CCV/LCSW (mg/L)

Prep Book/Page: 131001 / 48-50

Anion	T.V.	LCSW /ICV/CCV2	DOD LCSW
Fluoride	1.5	1.343 - 1.656	1.193-1.806
Chloride	3.0	2.685 - 3.312	2.385-3.614
Nitrite-N	1.5	1.343 - 1.656	1.193-1.806
Bromide	7.5	6.71 - 8.28	5.963-9.037
Nitrate-N	1.5	1.343 - 1.656	1.193-1.806
O-Phos as P	7.5	6.71 - 8.28	5.963-9.037
Sulfate	7.5	6.71 - 8.28	5.963-9.037

CCB/PBW (mg/L)

F, NO_2	NO_3	Cl, P	Br	SO_4
< 0.08	< 0.05	< 0.2	< 0.4	< 0.3

LCSS (mg/kg)

Prep Book/Page: 131001 / 47-50

Anion	T.V.	Acceptance Range
Fluoride	10	8.95 - 11.0
Chloride	20	17.9 - 22.08
Nitrite-N	10	8.95 - 11.0
Bromide	50	44.75 - 55.2
Nitrate-N	10	8.95 - 11.0
O-Phos as P	50	44.75 - 55.2
Sulfate	50	44.75 - 55.2

CCB/PBS (mg/kg)

F, NO_2, NO_3	Cl	Br	P, SO_4
< 0.8	< 3.0	< 4.0	< 5.0

Independent QC

Manufacturer _____ Lot # _____ Exp. Date _____

Anion	True Value (mg/L)	Range (mg/L)
Fluoride	20.0	17.9 - 22.08
Chloride	30.0	26.85 - 33.147
Nitrite-N	30.45	27.25 - 33.64
Bromide	100.0	89.5 - 110.44
Nitrate-N	22.6	20.23 - 24.97
O-Phos as P	48.9	43.81 - 54.03
Sulfate	150.0	134.25 - 165.74

Calibration Information – (mg/L)

Standard	F, NO_2, NO_3	Cl	Br,P	SO_4
Cal 1	0.1	0.4	0.5	1.0
Cal 2	0.4	0.8	2.0	2.0
Cal 3	1.0	2.0	5.0	5.0
Cal 4	2.0	4.0	10.0	10.0
Cal 5	3.0	6.0	15.0	15.0

Check Standards True Values (mg/L)

	F, NO_2, NO_3	Cl	Br, P, SO_4
Low	0.75	1.5	3.75
High	2.25	4.5	11.25

The dilution for solids is entered into the software by multiplying by 50 in order to calculate the result to mg/kg.

USF83 2885

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 266
Created: 7/7/2011 9:13:07 AM by Dept27IC
Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
2	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
3	LCSW	Unknown	91	25.0	Anion Program	Anion Method	Finished
4	PBW	Unknown	100	25.0	Anion Program	Anion Method	Finished
5	6336672-U	Unknown	71	25.0	Anion Program	Anion Method	Finished
6	6336672-D	Unknown	71	25.0	Anion Program	Anion Method	Finished
7	6336672-R	Unknown	72	25.0	Anion Program	Anion Method	Finished
8	6336674	Unknown	73	25.0	Anion Program	Anion Method	Finished
9	6336676	Unknown	74	25.0	Anion Program	Anion Method	Finished
10	6336678	Unknown	75	25.0	Anion Program	Anion Method	Finished
11	6336680	Unknown	76	25.0	Anion Program	Anion Method	Finished
12	6336682	Unknown	77	25.0	Anion Program	Anion Method	Finished
13	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
14	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
15	6336421	Unknown	78	25.0	Anion Program	Anion Method	Finished
16	6336678	Unknown	75	25.0	Anion Program	Anion Method	Finished
17	6337018-U	Unknown	79	25.0	Anion Program	Anion Method	Finished
18	6337018-D	Unknown	79	25.0	Anion Program	Anion Method	Finished
19	6337018-R	Unknown	80	25.0	Anion Program	Anion Method	Finished
20	6337019	Unknown	81	25.0	Anion Program	Anion Method	Finished
21	6337020	Unknown	82	25.0	Anion Program	Anion Method	Finished
22	6337021	Unknown	83	25.0	Anion Program	Anion Method	Finished
23	6337022	Unknown	84	25.0	Anion Program	Anion Method	Finished
24	6337168	Unknown	85	25.0	Anion Program	Anion Method	Finished
25	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
26	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
27	6337169	Unknown	86	25.0	Anion Program	Anion Method	Finished
28	6337171	Unknown	87	25.0	Anion Program	Anion Method	Finished
29	LCSW	Unknown	91	25.0	Anion Program	Anion Method	Finished
30	LCSDW	Unknown	91	25.0	Anion Program	Anion Method	Finished
31	PBW	Unknown	100	25.0	Anion Program	Anion Method	Finished
32	6337026-U	Unknown	88	25.0	Anion Program	Anion Method	Finished
33	6337026-D	Unknown	88	25.0	Anion Program	Anion Method	Finished
34	6337026-R	Unknown	89	25.0	Anion Program	Anion Method	Finished
35	6337027	Unknown	90	25.0	Anion Program	Anion Method	Finished
36	6337028	Unknown	95	25.0	Anion Program	Anion Method	Finished
37	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
38	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
39	6337222	Unknown	77	25.0	Anion Program	Anion Method	Finished
40	LCSW LOD	Unknown	78	25.0	Anion Program	Anion Method	Finished
41	F MDL	Unknown	79	25.0	Anion Program	Anion Method	Finished
42	NO3 MDL	Unknown	80	25.0	Anion Program	Anion Method	Finished

USP63 2886

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1 Created: 7/7/2011 9:13:07 AM by Dept27IC
#Samples: 266 Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Inj. Date/Time	Weight	Dil. Factor	Comment
1	CCV2	7/7/2011 11:59:26 AM	1.0000	1.0000	
2	CCB	7/7/2011 12:14:09 PM	1.0000	1.0000	
3	LCSW	7/7/2011 12:28:50 PM	1.0000	1.0000	11188196901A-1963
4	PBW	7/7/2011 12:43:32 PM	1.0000	1.0000	11188196901A-1963
5	6336672-U	7/7/2011 12:58:14 PM	1.0000	5.0000	11188196901A-1963
6	6336672-D	7/7/2011 1:12:56 PM	1.0000	5.0000	11188196901A-1963
7	6336672-R	7/7/2011 1:27:38 PM	1.0000	10.0000	11188196901A-1963
8	6336674	7/7/2011 1:42:21 PM	1.0000	100.0000	11188196901A-1963
9	6336676	7/7/2011 1:57:03 PM	1.0000	100.0000	11188196901A-1963
10	6336678	7/7/2011 2:11:45 PM	1.0000	5.0000	11188196901A-1963
11	6336680	7/7/2011 2:26:27 PM	1.0000	100.0000	11188196901A-1963
12	6336682	7/7/2011 2:41:09 PM	1.0000	100.0000	11188196901A-1963
13	CCV2	7/7/2011 2:55:51 PM	1.0000	1.0000	
14	CCB	7/7/2011 3:10:32 PM	1.0000	1.0000	
15	6336421	7/7/2011 3:25:15 PM	1.0000	5.0000	11188196901B-1963
16	6336678	7/7/2011 3:39:57 PM	1.0000	500.0000	11188196901A-1963
17	6337018-U	7/7/2011 4:09:20 PM	1.0000	5.0000	11188196901B-1963
18	6337018-D	7/7/2011 4:24:01 PM	1.0000	5.0000	11188196901B-1963
19	6337018-R	7/7/2011 4:38:43 PM	1.0000	10.0000	11188196901B-1963
20	6337019	7/7/2011 4:53:25 PM	1.0000	5.0000	11188196901B-1963
21	6337020	7/7/2011 5:08:07 PM	1.0000	5.0000	11188196901B-1963
22	6337021	7/7/2011 5:22:50 PM	1.0000	5.0000	11188196901B-1963
23	6337022	7/7/2011 5:37:31 PM	1.0000	5.0000	11188196901B-1963
24	6337168	7/7/2011 5:52:13 PM	1.0000	5.0000	11188196901B-1963
25	CCV2	7/7/2011 6:10:01 PM	1.0000	1.0000	
26	CCB	7/7/2011 6:24:43 PM	1.0000	1.0000	
27	6337169	7/7/2011 6:39:25 PM	1.0000	5.0000	11188196901B-1963
28	6337171	7/7/2011 6:54:07 PM	1.0000	5.0000	11188196901B-1963
29	LCSW	7/7/2011 7:08:49 PM	1.0000	1.0000	11188196902A-1963
30	LCSDW	7/7/2011 7:23:31 PM	1.0000	1.0000	11188196902A-1963
31	PBW	7/7/2011 7:38:12 PM	1.0000	1.0000	11188196902A-1963
32	6337026-U	7/7/2011 7:52:55 PM	1.0000	5.0000	11188196902A-1963
33	6337026-D	7/7/2011 8:07:37 PM	1.0000	5.0000	11188196902A-1963
34	6337026-R	7/7/2011 8:22:18 PM	1.0000	10.0000	11188196902A-1963
35	6337027	7/7/2011 8:37:01 PM	1.0000	5.0000	11188196902A-1963
36	6337028	7/7/2011 8:51:43 PM	1.0000	5.0000	11188196902A-1963
37	CCV2	7/7/2011 9:06:24 PM	1.0000	1.0000	
38	CCB	7/7/2011 9:21:06 PM	1.0000	1.0000	
39	6337222	7/7/2011 9:35:48 PM	1.0000	1.0000	11188196902B-1963
40	LCSW LOD	7/7/2011 9:50:30 PM	1.0000	1.0000	11188196902A-1963
41	F MDL	7/7/2011 10:05:12 PM	1.0000	1.0000	11188196902A-1963
42	NO3 MDL	7/7/2011 10:19:54 PM	1.0000	1.0000	11188196902A-1963

USF03 2887

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 266
Created: 7/7/2011 9:13:07 AM by Dept27IC
Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
43	6331381	Unknown	15	25.0	Anion Program	Anion Method	Finished
44	6331382	Unknown	16	25.0	Anion Program	Anion Method	Finished
45	6333530-U	Unknown	44	25.0	Anion Program	Anion Method	Finished
46	6333530-D	Unknown	45	25.0	Anion Program	Anion Method	Finished
47	6333530-R	Unknown	46	25.0	Anion Program	Anion Method	Finished
48	6333531	Unknown	47	25.0	Anion Program	Anion Method	Finished
49	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
50	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
51	PBS	Unknown	51	25.0	Anion Program	Anion Method	Finished
52	LCSS	Unknown	52	25.0	Anion Program	Anion Method	Finished
53	LCSDS	Unknown	53	25.0	Anion Program	Anion Method	Finished
54	6337211-U	Unknown	54	25.0	Anion Program	Anion Method	Finished
55	6337211-D	Unknown	55	25.0	Anion Program	Anion Method	Finished
56	6337211-R	Unknown	56	25.0	Anion Program	Anion Method	Finished
57	6337203	Unknown	57	25.0	Anion Program	Anion Method	Finished
58	6337204	Unknown	58	25.0	Anion Program	Anion Method	Finished
59	6337205	Unknown	59	25.0	Anion Program	Anion Method	Finished
60	6337206	Unknown	60	25.0	Anion Program	Anion Method	Finished
61	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
62	CCB	Unknown	100	25.0	Anion Program	Anion Method	Finished
63	6337207	Unknown	61	25.0	Anion Program	Anion Method	Finished
64	6337208	Unknown	62	25.0	Anion Program	Anion Method	Finished
65	6337209	Unknown	63	25.0	Anion Program	Anion Method	Finished
66	6337210	Unknown	64	25.0	Anion Program	Anion Method	Finished
67	6337212	Unknown	65	25.0	Anion Program	Anion Method	Finished
68	6337213-U	Unknown	66	25.0	Anion Program	Anion Method	Finished
69	6337216-D	Unknown	67	25.0	Anion Program	Anion Method	Finished
70	6337214-R	Unknown	68	25.0	Anion Program	Anion Method	Finished
71	6337221	Unknown	69	25.0	Anion Program	Anion Method	Finished
72	6337220 (LCSW LOQ)	Unknown	70	25.0	Anion Program	Anion Method	Finished
73	CCV2	Unknown	92	25.0	Anion Program	Anion Method	Finished
74	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
75	MDL	Unknown	71	25.0	Anion Program	Anion Method	Finished
76	PBS	Unknown	1	25.0	Anion Program	Anion Method	Finished
77	LCSS	Unknown	2	25.0	Anion Program	Anion Method	Finished
78	6329374-U	Unknown	3	25.0	Anion Program	Anion Method	Finished
79	6329374-D	Unknown	4	25.0	Anion Program	Anion Method	Finished
80	6329374-R	Unknown	5	25.0	Anion Program	Anion Method	Finished
81	6329375	Unknown	6	25.0	Anion Program	Anion Method	Finished
82	6329376	Unknown	7	25.0	Anion Program	Anion Method	Finished
83	6329377	Unknown	8	25.0	Anion Program	Anion Method	Finished
84	6329378	Unknown	9	25.0	Anion Program	Anion Method	Finished

USF03 2865

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1 Created: 7/7/2011 9:13:07 AM by Dept27IC
#Samples: 266 Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Inj. Date/Time	Weight	Dil. Factor	Comment
43	6331381	7/7/2011 10:34:35 PM	4.9300	50.0000	11187621201B-1963
44	6331382	7/7/2011 10:49:18 PM	4.9400	50.0000	11187621201B-1963
45	6333530-U	7/7/2011 11:04:00 PM	4.9200	50.0000	11187621203B-1963
46	6333530-D	7/7/2011 11:18:42 PM	5.0700	50.0000	11187621203B-1963
47	6333530-R	7/7/2011 11:33:24 PM	5.0800	50.0000	11187621203B-1963
48	6333531	7/7/2011 11:48:06 PM	5.0000	50.0000	11187621203B-1963
49	CCV2	7/8/2011 12:02:48 AM	1.0000	1.0000	
50	CCB	7/8/2011 12:17:31 AM	1.0000	1.0000	
51	PBS	7/8/2011 12:32:13 AM	5.0000	50.0000	11188188201A-1963
52	LCSS	7/8/2011 12:46:55 AM	5.0000	50.0000	11188188201A-1963
53	LCSDS	7/8/2011 1:01:37 AM	5.0000	50.0000	11188188201A-1963
54	6337211-U	7/8/2011 1:16:20 AM	5.0200	50.0000	11188188201A-1963
55	6337211-D	7/8/2011 1:31:02 AM	5.0000	50.0000	11188188201A-1963
56	6337211-R	7/8/2011 1:45:43 AM	5.1300	50.0000	11188188201A-1963
57	6337203	7/8/2011 2:00:25 AM	5.1100	50.0000	11188188201A-1963
58	6337204	7/8/2011 2:15:07 AM	5.0000	50.0000	11188188201A-1963
59	6337205	7/8/2011 2:29:49 AM	5.0800	50.0000	11188188201A-1963
60	6337206	7/8/2011 2:44:31 AM	5.0100	50.0000	11188188201A-1963
61	CCV2	7/8/2011 2:59:13 AM	1.0000	1.0000	
62	CCB	7/8/2011 3:13:55 AM	1.0000	1.0000	
63	6337207	7/8/2011 3:28:37 AM	5.0300	50.0000	11188188201A-1963
64	6337208	7/8/2011 3:43:19 AM	5.1400	50.0000	11188188201A-1963
65	6337209	7/8/2011 3:58:01 AM	5.1500	50.0000	11188188201A-1963
66	6337210	7/8/2011 4:12:44 AM	5.0000	50.0000	11188188201A-1963
67	6337212	7/8/2011 4:27:25 AM	5.1300	50.0000	11188188201A-1963
68	6337213-U	7/8/2011 4:42:08 AM	5.0100	50.0000	11188188201B-1963
69	6337216-D	7/8/2011 4:56:50 AM	5.1600	50.0000	11188188201B-1963
70	6337214-R	7/8/2011 5:11:32 AM	5.1100	50.0000	11188188201B-1963
71	6337221	7/8/2011 5:26:14 AM	5.0800	50.0000	11188188201B-1963
72	6337220 (LCSW LOQ)	7/8/2011 5:40:55 AM	5.0000	50.0000	11188188201B-1963
73	CCV2	7/8/2011 5:55:37 AM	1.0000	1.0000	
74	CCB	7/8/2011 6:10:20 AM	1.0000	1.0000	
75	MDL	7/8/2011 6:25:02 AM	5.0000	50.0000	11188188201B-1963
76	PBS	7/8/2011 6:39:44 AM	5.0000	50.0000	11187621201A-1963
77	LCSS	7/8/2011 6:54:26 AM	5.0000	50.0000	11187621201A-1963
78	6329374-U	7/8/2011 7:09:09 AM	5.0800	50.0000	11187621201A-1963
79	6329374-D	7/8/2011 7:23:51 AM	5.0800	50.0000	11187621201A-1963
80	6329374-R	7/8/2011 7:38:33 AM	4.9300	50.0000	11187621201A-1963
81	6329375	7/8/2011 7:53:15 AM	5.0400	50.0000	11187621201A-1963
82	6329376	7/8/2011 8:07:57 AM	5.0000	50.0000	11187621201A-1963
83	6329377	7/8/2011 8:22:38 AM	4.9700	50.0000	11187621201A-1963
84	6329378	7/8/2011 8:37:21 AM	5.0900	50.0000	11187621201A-1963

USF03 2889

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 266
Created: 7/7/2011 9:13:07 AM by Dept27IC
Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
85	CCV2	Unknown	92	25.0	Anion Program	Anion Method	Finished
86	CCB	Unknown	100	25.0	Anion Program	Anion Method	Finished
87	6329379	Unknown	10	25.0	Anion Program	Anion Method	Finished
88	6331376-U	Unknown	11	25.0	Anion Program	Anion Method	Finished
89	6331379-D	Unknown	12	25.0	Anion Program	Anion Method	Finished
90	6331377-R	Unknown	13	25.0	Anion Program	Anion Method	Finished
91	6331380	Unknown	14	25.0	Anion Program	Anion Method	Finished
92	6331383	Unknown	17	25.0	Anion Program	Anion Method	Finished
93	6331384	Unknown	18	25.0	Anion Program	Anion Method	Finished
94	LCSS	Unknown	53	25.0	Anion Program	Anion Method	Finished
95	6337022	Unknown	84	25.0	Anion Program	Anion Method	Finished
96	CCV2	Unknown	92	25.0	Anion Program	Anion Method	Finished
97	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
98	PBS	Unknown	30	25.0	Anion Program	Anion Method	Finished
99	LCSS	Unknown	31	25.0	Anion Program	Anion Method	Finished
100	6333520-U	Unknown	32	25.0	Anion Program	Anion Method	Finished
101	6333520-D	Unknown	33	25.0	Anion Program	Anion Method	Finished
102	6333520-R	Unknown	34	25.0	Anion Program	Anion Method	Finished
103	6333521	Unknown	35	25.0	Anion Program	Anion Method	Finished
104	6333522	Unknown	36	25.0	Anion Program	Anion Method	Finished
105	6333523	Unknown	37	25.0	Anion Program	Anion Method	Finished
106	6333524	Unknown	38	25.0	Anion Program	Anion Method	Finished
107	6333525	Unknown	39	25.0	Anion Program	Anion Method	Finished
108	CCV2	Unknown	92	25.0	Anion Program	Anion Method	Finished
109	CCB	Unknown	100	25.0	Anion Program	Anion Method	Finished
110	6333526	Unknown	40	25.0	Anion Program	Anion Method	Finished
111	6333527	Unknown	41	25.0	Anion Program	Anion Method	Finished
112	6333528	Unknown	42	25.0	Anion Program	Anion Method	Finished
113	6333529	Unknown	43	25.0	Anion Program	Anion Method	Finished
114	6333532	Unknown	48	25.0	Anion Program	Anion Method	Finished
115	6333533	Unknown	49	25.0	Anion Program	Anion Method	Finished
116	6337924	Unknown	51	25.0	Anion Program	Anion Method	Finished
117	6338193	Unknown	52	25.0	Anion Program	Anion Method	Finished
118	6338194	Unknown	53	25.0	Anion Program	Anion Method	Finished
119	6338195	Unknown	54	25.0	Anion Program	Anion Method	Finished
120	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
121	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
122	6338269	Unknown	55	25.0	Anion Program	Anion Method	Finished
123	LCSW	Unknown	91	25.0	Anion Program	Anion Method	Finished
124	PBW	Unknown	100	25.0	Anion Program	Anion Method	Finished
125	6338175-U	Unknown	56	25.0	Anion Program	Anion Method	Finished
126	6338175-D	Unknown	56	25.0	Anion Program	Anion Method	Finished

USP83 2819

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1 Created: 7/7/2011 9:13:07 AM by Dept27IC
#Samples: 266 Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Inj. Date/Time	Weight	Dil. Factor	Comment
85	CCV2	7/8/2011 8:52:03 AM	1.0000	1.0000	
86	CCB	7/8/2011 9:06:45 AM	1.0000	1.0000	
87	6329379	7/8/2011 9:21:27 AM	5.1000	50.0000	11187621201A-1963
88	6331376-U	7/8/2011 9:36:10 AM	4.9500	50.0000	11187621201B-1963
89	6331379-D	7/8/2011 9:50:51 AM	4.9400	50.0000	11187621201B-1963
90	6331377-R	7/8/2011 10:05:33 AM	4.9400	50.0000	11187621201B-1963
91	6331380	7/8/2011 10:20:15 AM	5.0100	50.0000	11187621201B-1963
92	6331383	7/8/2011 10:34:58 AM	5.0400	50.0000	11187621201B-1963
93	6331384	7/8/2011 10:49:40 AM	5.1000	50.0000	11187621201B-1963
94	LCSS	7/8/2011 11:04:22 AM	5.0000	50.0000	11188188201A-1963
95	6337022	7/8/2011 11:33:47 AM	1.0000	50.0000	11188196901B-1963
96	CCV2	7/8/2011 11:48:29 AM	1.0000	1.0000	
97	CCB	7/8/2011 12:03:11 PM	1.0000	1.0000	
98	PBS	7/8/2011 12:17:52 PM	5.0000	50.0000	11187621203A-1963
99	LCSS	7/8/2011 12:32:35 PM	5.0000	50.0000	11187621203A-1963
100	6333520-U	7/8/2011 12:47:16 PM	4.9300	50.0000	11187621203A-1963
101	6333520-D	7/8/2011 1:01:58 PM	4.9200	50.0000	11187621203A-1963
102	6333520-R	7/8/2011 1:16:41 PM	4.9100	50.0000	11187621203A-1963
103	6333521	7/8/2011 1:31:23 PM	4.9500	50.0000	11187621203A-1963
104	6333522	7/8/2011 1:46:05 PM	5.0700	50.0000	11187621203A-1963
105	6333523	7/8/2011 2:00:47 PM	4.9500	50.0000	11187621203A-1963
106	6333524	7/8/2011 2:15:29 PM	4.9000	50.0000	11187621203A-1963
107	6333525	7/8/2011 2:30:11 PM	5.0700	50.0000	11187621203A-1963
108	CCV2	7/8/2011 2:44:53 PM	1.0000	1.0000	
109	CCB	7/8/2011 2:59:35 PM	1.0000	1.0000	
110	6333526	7/8/2011 3:14:17 PM	5.0100	50.0000	11187621203A-1963
111	6333527	7/8/2011 3:28:59 PM	5.0000	50.0000	11187621203A-1963
112	6333528	7/8/2011 3:43:41 PM	5.0700	50.0000	11187621203A-1963
113	6333529	7/8/2011 3:58:24 PM	4.9800	50.0000	11187621203A-1963
114	6333532	7/8/2011 4:13:05 PM	4.9600	50.0000	11187621203B-1963
115	6333533	7/8/2011 4:27:47 PM	5.0900	50.0000	11187621203B-1963
116	6337924	7/8/2011 4:42:29 PM	1.0000	5.0000	11188196901B-1963
117	6338193	7/8/2011 4:57:11 PM	1.0000	5.0000	11188196902A-1963
118	6338194	7/8/2011 5:11:53 PM	1.0000	5.0000	11188196902A-1963
119	6338195	7/8/2011 5:26:35 PM	1.0000	5.0000	11188196902A-1963
120	CCV2	7/8/2011 5:41:17 PM	1.0000	1.0000	
121	CCB	7/8/2011 5:55:59 PM	1.0000	1.0000	
122	6338269	7/8/2011 6:10:41 PM	1.0000	1.0000	11188196902B-1963
123	LCSW	7/8/2011 6:25:23 PM	1.0000	1.0000	11189196901A-1963
124	PBW	7/8/2011 6:40:05 PM	1.0000	1.0000	11189196901A-1963
125	6338175-U	7/8/2011 6:54:47 PM	1.0000	5.0000	11189196901A-1963
126	6338175-D	7/8/2011 7:09:29 PM	1.0000	5.0000	11189196901A-1963

USPB3 2811

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 266
Created: 7/7/2011 9:13:07 AM by Dept27IC
Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
127	6338175-R	Unknown	57	25.0	Anion Program	Anion Method	Finished
128	6338176	Unknown	58	25.0	Anion Program	Anion Method	Finished
129	6338177	Unknown	59	25.0	Anion Program	Anion Method	Finished
130	6338178	Unknown	60	25.0	Anion Program	Anion Method	Finished
131	6338179	Unknown	61	25.0	Anion Program	Anion Method	Finished
132	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
133	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
134	6338180	Unknown	62	25.0	Anion Program	Anion Method	Finished
135	6338181	Unknown	63	25.0	Anion Program	Anion Method	Finished
136	6338182	Unknown	64	25.0	Anion Program	Anion Method	Finished
137	6338183	Unknown	65	25.0	Anion Program	Anion Method	Finished
138	6338184	Unknown	66	25.0	Anion Program	Anion Method	Finished
139	6338185-U	Unknown	67	25.0	Anion Program	Anion Method	Finished
140	6338185-D	Unknown	67	25.0	Anion Program	Anion Method	Finished
141	6338185-R	Unknown	68	25.0	Anion Program	Anion Method	Finished
142	6338244	Unknown	69	25.0	Anion Program	Anion Method	Finished
143	6338245	Unknown	70	25.0	Anion Program	Anion Method	Finished
144	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
145	CCB	Unknown	100	25.0	Anion Program	Anion Method	Finished
146	6338246	Unknown	71	25.0	Anion Program	Anion Method	Finished
147	6338247	Unknown	72	25.0	Anion Program	Anion Method	Finished
148	6338315	Unknown	73	25.0	Anion Program	Anion Method	Finished
149	6338316	Unknown	74	25.0	Anion Program	Anion Method	Finished
150	6338317	Unknown	75	25.0	Anion Program	Anion Method	Finished
151	6338318	Unknown	76	25.0	Anion Program	Anion Method	Finished
152	6338319	Unknown	77	25.0	Anion Program	Anion Method	Finished
153	6338253-U	Unknown	82	25.0	Anion Program	Anion Method	Finished
154	6338256-D	Unknown	83	25.0	Anion Program	Anion Method	Finished
155	6338254-R	Unknown	84	25.0	Anion Program	Anion Method	Finished
156	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished
157	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
158	6338249	Unknown	85	25.0	Anion Program	Anion Method	Finished
159	6338250	Unknown	86	25.0	Anion Program	Anion Method	Finished
160	6338251	Unknown	87	25.0	Anion Program	Anion Method	Finished
161	6338252	Unknown	88	25.0	Anion Program	Anion Method	Finished
162	6338260	Unknown	89	25.0	Anion Program	Anion Method	Finished
163	6338261	Unknown	90	25.0	Anion Program	Anion Method	Finished
164	6338262	Unknown	95	25.0	Anion Program	Anion Method	Finished
165	6338263	Unknown	96	25.0	Anion Program	Anion Method	Finished
166	6338264	Unknown	97	25.0	Anion Program	Anion Method	Finished
167	6338265	Unknown	98	25.0	Anion Program	Anion Method	Finished
168	CCV2	Unknown	91	25.0	Anion Program	Anion Method	Finished

USF03 2912

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 266
Created: 7/7/2011 9:13:07 AM by Dept27IC
Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Inj. Date/Time	Weight	Dil. Factor	Comment
127	6338175-R	7/8/2011 7:24:12 PM	1.0000	10.0000	11189196901A-1963
128	6338176	7/8/2011 7:38:54 PM	1.0000	5.0000	11189196901A-1963
129	6338177	7/8/2011 7:53:36 PM	1.0000	5.0000	11189196901A-1963
130	6338178	7/8/2011 8:08:19 PM	1.0000	5.0000	11189196901A-1963
131	6338179	7/8/2011 8:23:01 PM	1.0000	5.0000	11189196901A-1963
132	CCV2	7/8/2011 8:37:43 PM	1.0000	1.0000	
133	CCB	7/8/2011 8:52:25 PM	1.0000	1.0000	
134	6338180	7/8/2011 9:07:07 PM	1.0000	5.0000	11189196901A-1963
135	6338181	7/8/2011 9:21:49 PM	1.0000	5.0000	11189196901A-1963
136	6338182	7/8/2011 9:36:32 PM	1.0000	5.0000	11189196901A-1963
137	6338183	7/8/2011 9:51:13 PM	1.0000	5.0000	11189196901A-1963
138	6338184	7/8/2011 10:05:55 PM	1.0000	5.0000	11189196901A-1963
139	6338185-U	7/8/2011 10:20:38 PM	1.0000	5.0000	11189196901B-1963
140	6338185-D	7/8/2011 10:35:20 PM	1.0000	5.0000	11189196901B-1963
141	6338185-R	7/8/2011 10:50:02 PM	1.0000	10.0000	11189196901B-1963
142	6338244	7/8/2011 11:04:43 PM	1.0000	5.0000	11189196901B-1963
143	6338245	7/8/2011 11:19:25 PM	1.0000	5.0000	11189196901B-1963
144	CCV2	7/8/2011 11:34:07 PM	1.0000	1.0000	
145	CCB	7/8/2011 11:48:49 PM	1.0000	1.0000	
146	6338246	7/9/2011 12:03:31 AM	1.0000	5.0000	11189196901B-1963
147	6338247	7/9/2011 12:18:13 AM	1.0000	5.0000	11189196901B-1963
148	6338315	7/9/2011 12:32:55 AM	1.0000	5.0000	11189196901B-1963
149	6338316	7/9/2011 12:47:37 AM	1.0000	5.0000	11189196901B-1963
150	6338317	7/9/2011 1:02:19 AM	1.0000	5.0000	11189196901B-1963
151	6338318	7/9/2011 1:17:01 AM	1.0000	5.0000	11189196901B-1963
152	6338319	7/9/2011 1:31:43 AM	1.0000	5.0000	11189196901B-1963
153	6338253-U	7/9/2011 1:46:25 AM	5.0300	50.0000	11189189201A-1963
154	6338256-D	7/9/2011 2:01:07 AM	5.0100	50.0000	11189189201A-1963
155	6338254-R	7/9/2011 2:15:50 AM	5.1300	50.0000	11189189201A-1963
156	CCV2	7/9/2011 2:30:32 AM	1.0000	1.0000	
157	CCB	7/9/2011 2:45:14 AM	1.0000	1.0000	
158	6338249	7/9/2011 2:59:56 AM	5.0400	50.0000	11189189201A-1963
159	6338250	7/9/2011 3:14:38 AM	5.0500	50.0000	11189189201A-1963
160	6338251	7/9/2011 3:29:20 AM	5.0800	50.0000	11189189201A-1963
161	6338252	7/9/2011 3:44:02 AM	5.0500	50.0000	11189189201A-1963
162	6338260	7/9/2011 3:58:44 AM	5.0000	50.0000	11189189201A-1963
163	6338261	7/9/2011 4:13:26 AM	5.0400	50.0000	11189189201A-1963
164	6338262	7/9/2011 4:28:08 AM	5.0400	50.0000	11189189201A-1963
165	6338263	7/9/2011 4:42:50 AM	5.0600	50.0000	11189189201A-1963
166	6338264	7/9/2011 4:57:32 AM	5.0500	50.0000	11189189201A-1963
167	6338265	7/9/2011 5:12:14 AM	5.0400	50.0000	11189189201A-1963
168	CCV2	7/9/2011 5:26:56 AM	1.0000	1.0000	

USP#3 2813

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 266
Created: 7/7/2011 9:13:07 AM by Dept27IC
Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
169	CCB	Unknown	100	25.0	Anion Program	Anion Method	Finished
170	PBS	Unknown	78	25.0	Anion Program	Anion Method	Finished
171	LCSS	Unknown	79	25.0	Anion Program	Anion Method	Finished
172	LCSDS	Unknown	80	25.0	Anion Program	Anion Method	Finished
173	MDL	Unknown	81	25.0	Anion Program	Anion Method	Finished
174	PBS	Unknown	30	25.0	Anion Program	Anion Method	Finished
175	LCSS	Unknown	20	25.0	Anion Program	Anion Method	Finished
176	6332107-U	Unknown	21	25.0	Anion Program	Anion Method	Finished
177	6332107-D	Unknown	22	25.0	Anion Program	Anion Method	Finished
178	6332107-R	Unknown	23	25.0	Anion Program	Anion Method	Finished
179	6332108	Unknown	24	25.0	Anion Program	Anion Method	Finished
180	CCV2	Unknown	92	25.0	Anion Program	Anion Method	Finished
181	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
182	6332109	Unknown	25	25.0	Anion Program	Anion Method	Finished
183	6332110	Unknown	26	25.0	Anion Program	Anion Method	Finished
184	6332111	Unknown	27	25.0	Anion Program	Anion Method	Finished
185	6332112	Unknown	28	25.0	Anion Program	Anion Method	Finished
186	6332113	Unknown	29	25.0	Anion Program	Anion Method	Finished
187	6331898-D	Unknown	1	25.0	Anion Program	Anion Method	Finished
188	6331898-R	Unknown	2	25.0	Anion Program	Anion Method	Finished
189	6331900	Unknown	3	25.0	Anion Program	Anion Method	Finished
190	6331906	Unknown	4	25.0	Anion Program	Anion Method	Finished
191	6339388	Unknown	5	25.0	Anion Program	Anion Method	Finished
192	CCV2	Unknown	92	25.0	Anion Program	Anion Method	Finished
193	CCB	Unknown	100	25.0	Anion Program	Anion Method	Finished
194	6331910	Unknown	6	25.0	Anion Program	Anion Method	Finished
195	6339516	Unknown	7	25.0	Anion Program	Anion Method	Finished
196	6331916	Unknown	8	25.0	Anion Program	Anion Method	Finished
197	6331407	Unknown	9	25.0	Anion Program	Anion Method	Finished
198	6331408	Unknown	10	25.0	Anion Program	Anion Method	Finished
199	6331894	Unknown	11	25.0	Anion Program	Anion Method	Finished
200	6331896	Unknown	12	25.0	Anion Program	Anion Method	Finished
201	6332262	Unknown	13	25.0	Anion Program	Anion Method	Finished
202	6332254	Unknown	14	25.0	Anion Program	Anion Method	Finished
203	6332258	Unknown	15	25.0	Anion Program	Anion Method	Finished
204	CCV2	Unknown	92	25.0	Anion Program	Anion Method	Finished
205	CCB	Unknown	99	25.0	Anion Program	Anion Method	Finished
206	6332260	Unknown	16	25.0	Anion Program	Anion Method	Finished
207	6332235-U	Unknown	17	25.0	Anion Program	Anion Method	Finished
208	6332969-D	Unknown	18	25.0	Anion Program	Anion Method	Finished
209	6332969-D	Unknown	19	25.0	Anion Program	Anion Method	Finished
210	6331908	Unknown	20	25.0	Anion Program	Anion Method	Finished

USP63 2814

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1 Created: 7/7/2011 9:13:07 AM by Dept27IC
#Samples: 266 Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Inj. Date/Time	Weight	Dil. Factor	Comment
169	CCB	7/9/2011 5:41:38 AM	1.0000	1.0000	
170	PBS	7/9/2011 5:56:20 AM	5.0000	50.0000	11189189201A-1963
171	LCSS	7/9/2011 6:11:02 AM	5.0000	50.0000	11189189201A-1963
172	LCSDS	7/9/2011 6:25:43 AM	5.0000	50.0000	11189189201A-1963
173	MDL	7/9/2011 6:40:25 AM	5.0000	50.0000	11189189201A-1963
174	PBS	7/9/2011 6:55:07 AM	5.0000	50.0000	11187621202A-1963
175	LCSS	7/9/2011 7:09:49 AM	5.0000	50.0000	11187621202A-1963
176	6332107-U	7/9/2011 7:24:31 AM	5.0000	50.0000	11187621202A-1963
177	6332107-D	7/9/2011 7:39:13 AM	4.9000	50.0000	11187621202A-1963
178	6332107-R	7/9/2011 7:53:54 AM	4.9600	50.0000	11187621202A-1963
179	6332108	7/9/2011 8:08:36 AM	4.9900	50.0000	11187621202A-1963
180	CCV2	7/9/2011 8:23:18 AM	1.0000	1.0000	
181	CCB	7/9/2011 8:38:01 AM	1.0000	1.0000	
182	6332109	7/9/2011 8:52:42 AM	5.0000	50.0000	11187621202A-1963
183	6332110	7/9/2011 9:07:25 AM	4.9200	50.0000	11187621202A-1963
184	6332111	7/9/2011 9:22:07 AM	4.9600	50.0000	11187621202A-1963
185	6332112	7/9/2011 9:36:49 AM	4.9400	50.0000	11187621202A-1963
186	6332113	7/9/2011 9:51:31 AM	5.0000	50.0000	11187621202A-1963
187	6331898-D	7/9/2011 10:06:13 AM	1.0000	50.0000	11180196903A-1963
188	6331898-R	7/9/2011 10:20:56 AM	1.0000	100.0000	11180196903A-1963
189	6331900	7/9/2011 10:35:37 AM	1.0000	10.0000	11180196903A-1963
190	6331906	7/9/2011 10:50:19 AM	1.0000	20.0000	11180196903A-1963
191	6339388	7/9/2011 11:05:01 AM	1.0000	1.0000	11190621901A-621
192	CCV2	7/9/2011 11:19:43 AM	1.0000	1.0000	
193	CCB	7/9/2011 11:34:25 AM	1.0000	1.0000	
194	6331910	7/9/2011 11:49:06 AM	1.0000	50.0000	11180196903A-1963
195	6339516	7/9/2011 12:03:49 PM	1.0000	1.0000	11190621901A-621
196	6331916	7/9/2011 12:18:30 PM	1.0000	50.0000	11180196903A-1963
197	6331407	7/9/2011 12:33:13 PM	1.0000	100.0000	11180196902B-1963
198	6331408	7/9/2011 12:47:55 PM	1.0000	50.0000	11180196902B-1963
199	6331894	7/9/2011 1:02:37 PM	1.0000	20.0000	11180196902B-1963
200	6331896	7/9/2011 1:17:18 PM	1.0000	20.0000	11180196902B-1963
201	6332262	7/9/2011 1:32:00 PM	1.0000	20.0000	11181196901A-1963
202	6332254	7/9/2011 1:46:42 PM	1.0000	20.0000	11181196901A-1963
203	6332258	7/9/2011 2:01:25 PM	1.0000	500.0000	11181196901A-1963
204	CCV2	7/9/2011 2:16:07 PM	1.0000	1.0000	
205	CCB	7/9/2011 2:30:49 PM	1.0000	1.0000	
206	6332260	7/9/2011 2:45:31 PM	1.0000	20.0000	11181196901A-1963
207	6332235-U	7/9/2011 3:00:13 PM	1.0000	100.0000	11181196901B-1963
208	6332969-D	7/9/2011 3:14:55 PM	1.0000	5.0000	11181196902A-0495
209	6332969-D	7/9/2011 3:29:37 PM	1.0000	50.0000	11181196902A-0495
210	6331908	7/9/2011 3:44:18 PM	1.0000	50.0000	11180196103A-1963

USPB3 2815

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 266
Created: 7/7/2011 9:13:07 AM by Dept27IC
Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
211	6331914	Unknown	21	25.0	Anion Program	Anion Method	Finished
212	LCSW	Unknown	22	25.0	Anion Program	Anion Method	Finished
213	LCSDW	Unknown	23	25.0	Anion Program	Anion Method	Finished
214	PBW	Unknown	24	25.0	Anion Program	Anion Method	Finished
215	CCV2	Unknown	92	25.0	Anion Program	Anion Method	Finished
216	CCB	Unknown	100	25.0	Anion Program	Anion Method	Finished
217	MDL	Unknown	25	25.0	Anion Program	Anion Method	Finished
218	6339384	Unknown	26	25.0	Anion Program	Anion Method	Finished
219	PBS	Unknown	27	25.0	Anion Program	Anion Method	Finished
220	LCSS	Unknown	28	25.0	Anion Program	Anion Method	Finished
221	LCSDS	Unknown	29	25.0	Anion Program	Anion Method	Finished
222	6339377-U	Unknown	31	25.0	Anion Program	Anion Method	Finished
223	6339380-D	Unknown	32	25.0	Anion Program	Anion Method	Finished
224	6339378-R	Unknown	33	25.0	Anion Program	Anion Method	Finished
225	6339368	Unknown	34	25.0	Anion Program	Anion Method	Finished
226	6339369	Unknown	35	25.0	Anion Program	Anion Method	Finished
227	CCV2	Unknown	81	25.0	Anion Program	Anion Method	Finished
228	CCB	Unknown	87	25.0	Anion Program	Anion Method	Finished
229	6339370	Unknown	36	25.0	Anion Program	Anion Method	Finished
230	6339371	Unknown	37	25.0	Anion Program	Anion Method	Finished
231	6339372	Unknown	38	25.0	Anion Program	Anion Method	Finished
232	6339373	Unknown	39	25.0	Anion Program	Anion Method	Finished
233	6339374	Unknown	40	25.0	Anion Program	Anion Method	Finished
234	6339375	Unknown	41	25.0	Anion Program	Anion Method	Finished
235	6339376	Unknown	42	25.0	Anion Program	Anion Method	Finished
236	6339385-U	Unknown	43	25.0	Anion Program	Anion Method	Finished
237	6339385-D	Unknown	44	25.0	Anion Program	Anion Method	Finished
238	6339385-R	Unknown	45	25.0	Anion Program	Anion Method	Finished
239	CCV2	Unknown	82	25.0	Anion Program	Anion Method	Finished
240	CCB	Unknown	88	25.0	Anion Program	Anion Method	Finished
241	6339386	Unknown	46	25.0	Anion Program	Anion Method	Finished
242	6339387	Unknown	47	25.0	Anion Program	Anion Method	Finished
243	LCSW	Unknown	82	25.0	Anion Program	Anion Method	Finished
244	PBW	Unknown	88	25.0	Anion Program	Anion Method	Finished
245	6339470-U	Unknown	51	25.0	Anion Program	Anion Method	Finished
246	6339470-D	Unknown	52	25.0	Anion Program	Anion Method	Finished
247	6339470-R	Unknown	53	25.0	Anion Program	Anion Method	Finished
248	6339471	Unknown	54	25.0	Anion Program	Anion Method	Finished
249	6339472	Unknown	55	25.0	Anion Program	Anion Method	Finished
250	6339473	Unknown	56	25.0	Anion Program	Anion Method	Finished
251	CCV2	Unknown	83	25.0	Anion Program	Anion Method	Finished
252	CCB	Unknown	89	25.0	Anion Program	Anion Method	Finished

USPS3 2815

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1 Created: 7/7/2011 9:13:07 AM by Dept27IC
#Samples: 266 Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Inj. Date/Time	Weight	Dil. Factor	Comment
211	6331914	7/9/2011 3:59:00 PM	1.0000	20.0000	11180196103A-1963
212	LCSW	7/9/2011 4:13:43 PM	1.0000	1.0000	11190621901A-621
213	LCSDW	7/9/2011 4:28:25 PM	1.0000	1.0000	11190621901A-621
214	PBW	7/9/2011 4:43:07 PM	1.0000	1.0000	11190621901A-621
215	CCV2	7/9/2011 4:57:49 PM	1.0000	1.0000	
216	CCB	7/9/2011 5:12:31 PM	1.0000	1.0000	
217	MDL	7/9/2011 5:27:13 PM	5.0000	50.0000	
218	6339384	7/9/2011 5:41:55 PM	5.0000	50.0000	11190621201B-621
219	PBS	7/9/2011 5:56:37 PM	5.0000	50.0000	11190621201A-621
220	LCSS	7/9/2011 6:11:19 PM	5.0000	50.0000	11190621201A-621
221	LCSDS	7/9/2011 6:26:01 PM	5.0000	50.0000	11190621201A-621
222	6339377-U	7/9/2011 6:40:43 PM	4.9900	50.0000	11190621201A-621
223	6339380-D	7/9/2011 6:55:25 PM	5.0900	50.0000	11190621201A-621
224	6339378-R	7/9/2011 7:10:07 PM	5.0600	50.0000	11190621201A-621
225	6339368	7/9/2011 7:24:49 PM	4.9200	50.0000	11190621201A-621
226	6339369	7/9/2011 7:39:30 PM	4.9000	50.0000	11190621201A-621
227	CCV2	7/9/2011 7:54:12 PM	1.0000	1.0000	
228	CCB	7/9/2011 8:08:55 PM	1.0000	1.0000	
229	6339370	7/9/2011 8:23:37 PM	4.9600	50.0000	11190621201A-621
230	6339371	7/9/2011 8:38:19 PM	4.9300	50.0000	11190621201A-621
231	6339372	7/9/2011 8:53:02 PM	5.0500	50.0000	11190621201A-621
232	6339373	7/9/2011 9:07:43 PM	4.9800	50.0000	11190621201A-621
233	6339374	7/9/2011 9:22:25 PM	4.9000	50.0000	11190621201A-621
234	6339375	7/9/2011 9:37:07 PM	5.0500	50.0000	11190621201A-621
235	6339376	7/9/2011 9:51:50 PM	5.0500	50.0000	11190621201A-621
236	6339385-U	7/9/2011 10:06:32 PM	4.9700	50.0000	11190621201B-621
237	6339385-D	7/9/2011 10:21:14 PM	5.0500	50.0000	11190621201B-621
238	6339385-R	7/9/2011 10:35:56 PM	4.9600	50.0000	11190621201B-621
239	CCV2	7/9/2011 10:50:39 PM	1.0000	1.0000	
240	CCB	7/9/2011 11:05:20 PM	1.0000	1.0000	
241	6339386	7/9/2011 11:20:02 PM	5.0500	50.0000	11190621201B-621
242	6339387	7/9/2011 11:34:44 PM	5.0100	50.0000	11190621201B-621
243	LCSW	7/9/2011 11:49:26 PM	1.0000	1.0000	11190621902A-621
244	PBW	7/10/2011 12:04:08 AM	1.0000	1.0000	11190621902A-621
245	6339470-U	7/10/2011 12:18:50 AM	1.0000	5.0000	11190621902A-621
246	6339470-D	7/10/2011 12:33:31 AM	1.0000	5.0000	11190621902A-621
247	6339470-R	7/10/2011 12:48:14 AM	1.0000	10.0000	11190621902A-621
248	6339471	7/10/2011 1:02:56 AM	1.0000	5.0000	11190621902A-621
249	6339472	7/10/2011 1:17:37 AM	1.0000	5.0000	11190621902A-621
250	6339473	7/10/2011 1:32:20 AM	1.0000	5.0000	11190621902A-621
251	CCV2	7/10/2011 1:47:02 AM	1.0000	1.0000	
252	CCB	7/10/2011 2:01:44 AM	1.0000	1.0000	

USP63 2817

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 266
Created: 7/7/2011 9:13:07 AM by Dept27IC
Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
253	6339474	Unknown	57	25.0	Anion Program	Anion Method	Finished
254	6339475	Unknown	58	25.0	Anion Program	Anion Method	Finished
255	6339476	Unknown	59	25.0	Anion Program	Anion Method	Finished
256	6339477	Unknown	60	25.0	Anion Program	Anion Method	Finished
257	6339478	Unknown	61	25.0	Anion Program	Anion Method	Finished
258	6339479	Unknown	62	25.0	Anion Program	Anion Method	Finished
259	CCV2	Unknown	84	25.0	Anion Program	Anion Method	Finished
260	CCB	Unknown	90	25.0	Anion Program	Anion Method	Finished
261	Cal 0	Standard	1	25.0	Anion Program	Anion Method	Finished
262	Cal 2	Standard	3	25.0	Anion Program	Anion Method	Finished
263	Cal 3	Standard	4	25.0	Anion Program	Anion Method	Finished
264	Cal 4	Standard	5	25.0	Anion Program	Anion Method	Finished
265	Cal 5	Standard	6	25.0	Anion Program	Anion Method	Finished
266	Cal 1	Standard	2	25.0	Anion Program	Anion Method	Finished

USP83 2819

Title: IQ
Datasource: D7V9ZYH1_local
Location: D7V9ZYH1\ICS1100_Sequences
Timebase: D7V9ZYH1_1
#Samples: 266
Created: 7/7/2011 9:13:07 AM by Dept27IC
Last Update: 7/9/2011 4:01:49 PM by Dept27IC

No.	Name	Inj. Date/Time	Weight	Dil. Factor	Comment
253	6339474	7/10/2011 2:16:26 AM	1.0000	5.0000	11190621902A-621
254	6339475	7/10/2011 2:31:07 AM	1.0000	5.0000	11190621902A-621
255	6339476	7/10/2011 2:45:49 AM	1.0000	5.0000	11190621902A-621
256	6339477	7/10/2011 3:00:31 AM	1.0000	5.0000	11190621902A-621
257	6339478	7/10/2011 3:15:13 AM	1.0000	5.0000	11190621902A-621
258	6339479	7/10/2011 3:29:55 AM	1.0000	5.0000	11190621902A-621
259	CCV2	7/10/2011 3:44:37 AM	1.0000	1.0000	
260	CCB	7/10/2011 3:59:19 AM	1.0000	1.0000	
261	Cal 0	6/14/2011 8:29:51 AM	1.0000	1.0000	
262	Cal 2	6/14/2011 9:00:15 AM	1.0000	1.0000	
263	Cal 3	6/14/2011 9:15:27 AM	1.0000	1.0000	
264	Cal 4	6/14/2011 9:30:39 AM	1.0000	1.0000	
265	Cal 5	6/14/2011 9:45:51 AM	1.0000	1.0000	
266	Cal 1	6/14/2011 10:20:17 AM	1.0000	1.0000	

USP83 2819

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

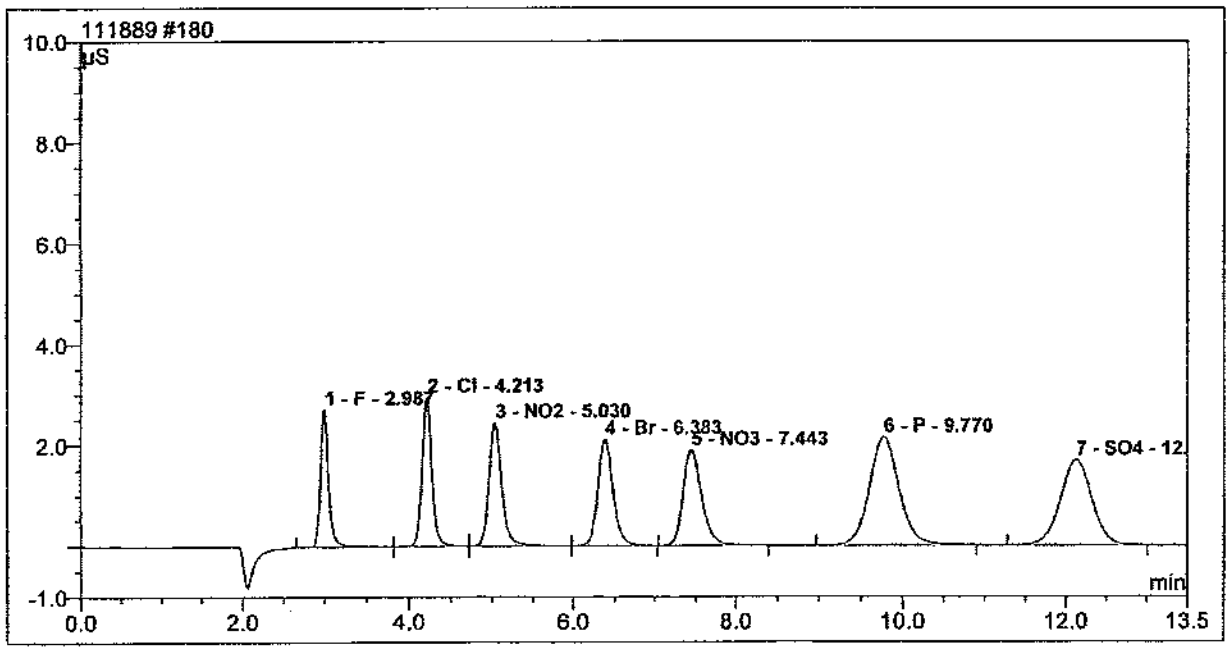
Date: JUL 11 2011

Sample Name:	**CCV2**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 08:23**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**180**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.312	1.569750
2	Cl	4.21	0.412	3.155700
3	NO2	5.03	0.439	1.533492
4	Br	6.38	0.457	7.871023
5	NO3	7.44	0.503	1.558536
6	P	9.77	0.892	7.721047
7	SO4	12.12	0.772	7.521067

5



Reviewed/Verified By:

Date: 7/12/11

USF03 2928

Lancaster Laboratories

Inorganic Anions by IC

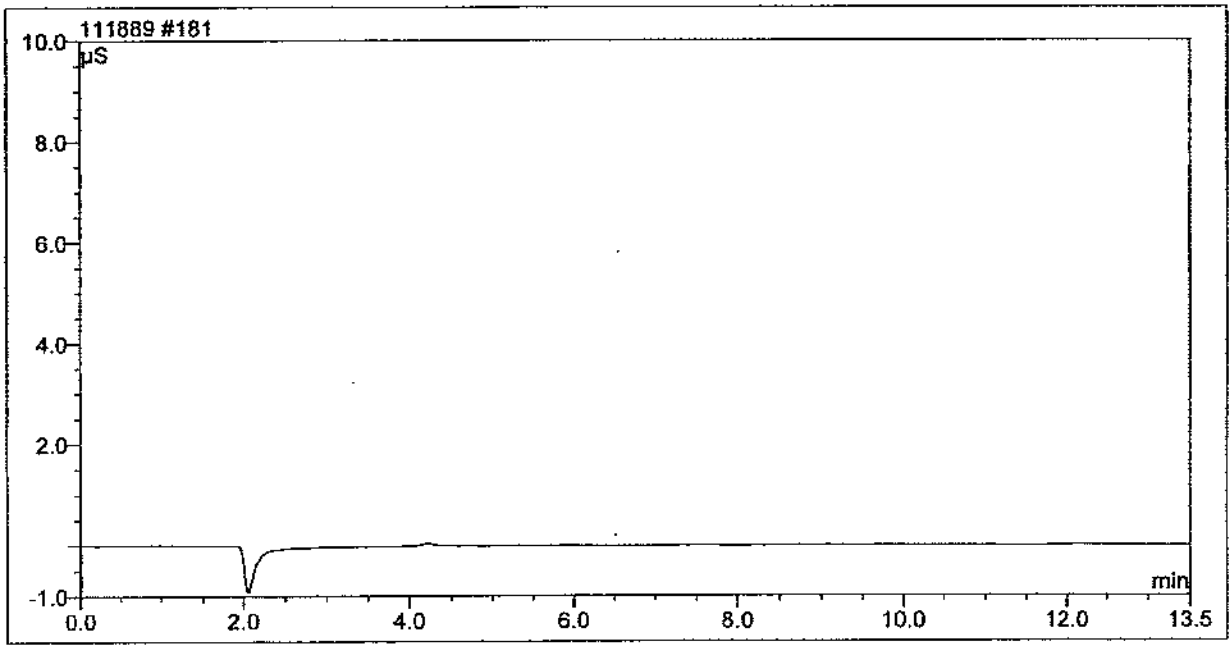
Reviewer/Enterer: Ashley Adams (Ashley Adams)

Date: JUL 11 2011

Sample Name:	**CCB**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 08:38**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**181**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg



Reviewed/Verified By:

Date: 7/12/11

USF03 2821

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

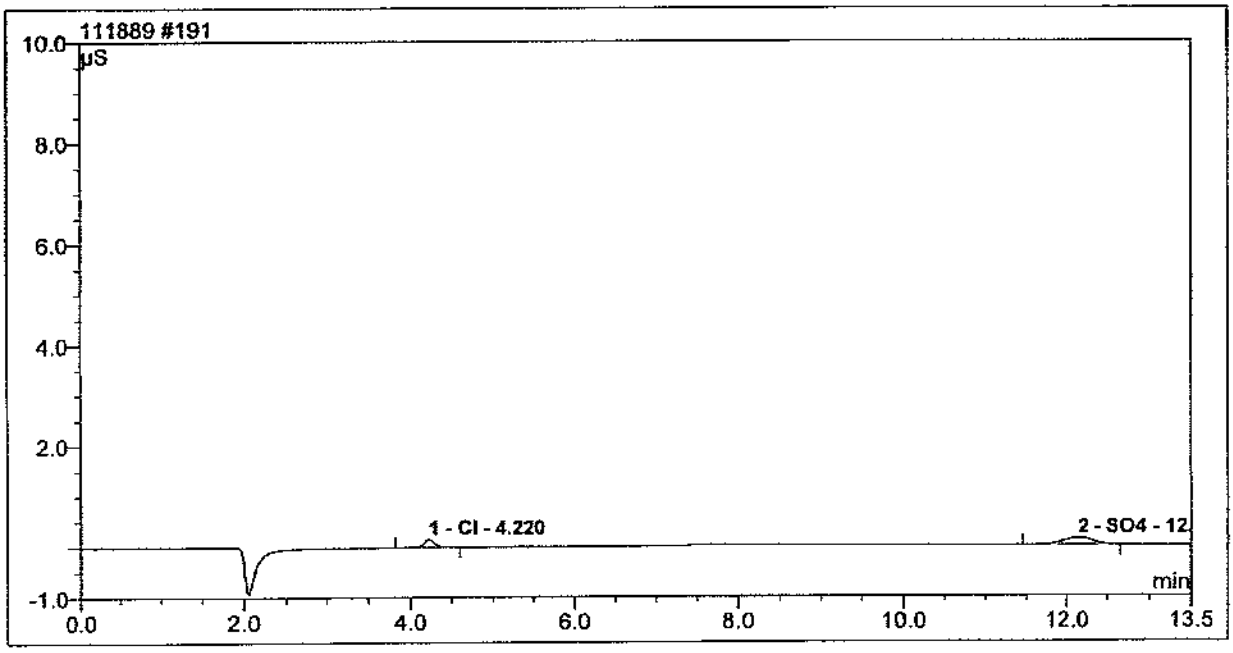
Date: JUL 11 2011

Sample Name:	**6339388**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621901A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 11:05**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**191**		**AS14-028590**

FNO3
30mM1963
7-11-11

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	Cl	4.22	0.025	0.199448
2	SO4	12.14	0.062	0.135369



Reviewed/Verified By:

Date: 7/12/11

USF03 2822

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

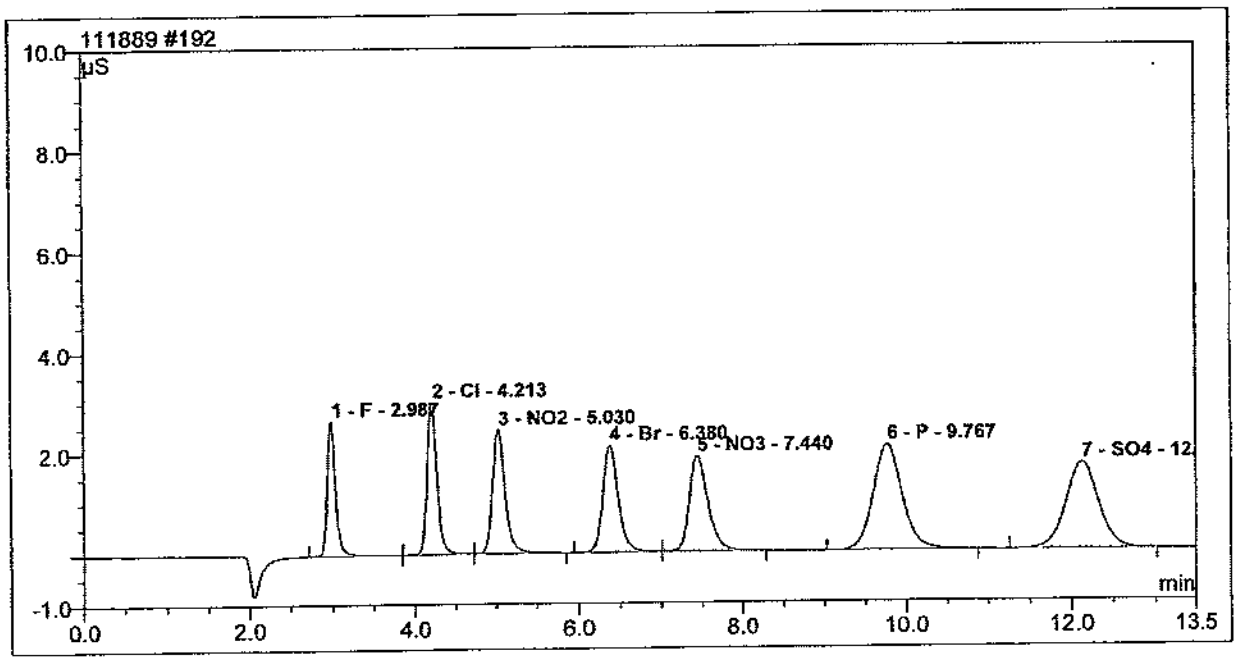
Date: JUL 11 2011

Sample Name:	**CCV2**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 11:19**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**192**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.305	1.531729
2	Cl	4.21	0.419	3.214198
3	NO2	5.03	0.435	1.520533
4	Br	6.38	0.457	7.870180
5	NO3	7.44	0.503	1.560766
6	P	9.77	0.864	7.487762
7	SO4	12.13	0.776	7.558919

15



Reviewed/Verified By: [signature]

Date: 7/12/11

USF03 2823

Lancaster Laboratories

Inorganic Anions by IC

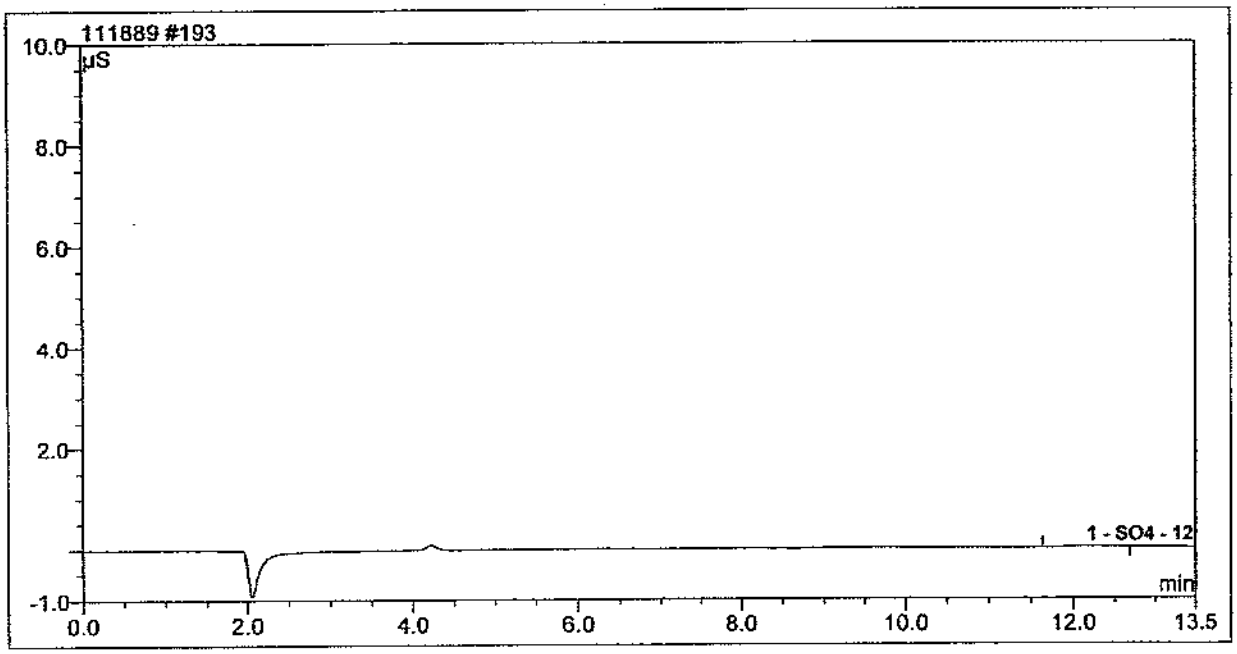
Reviewer/Enterer: Ashley Adams
Ashley Adams

Date: JUL 11 2011

Sample Name:	**CCB**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 11:34**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**193**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	SO4	12.15	0.017	-0.336329



Reviewed/Verified By:

Date:

USP63 2024

Lancaster Laboratories

Inorganic Anions by IC

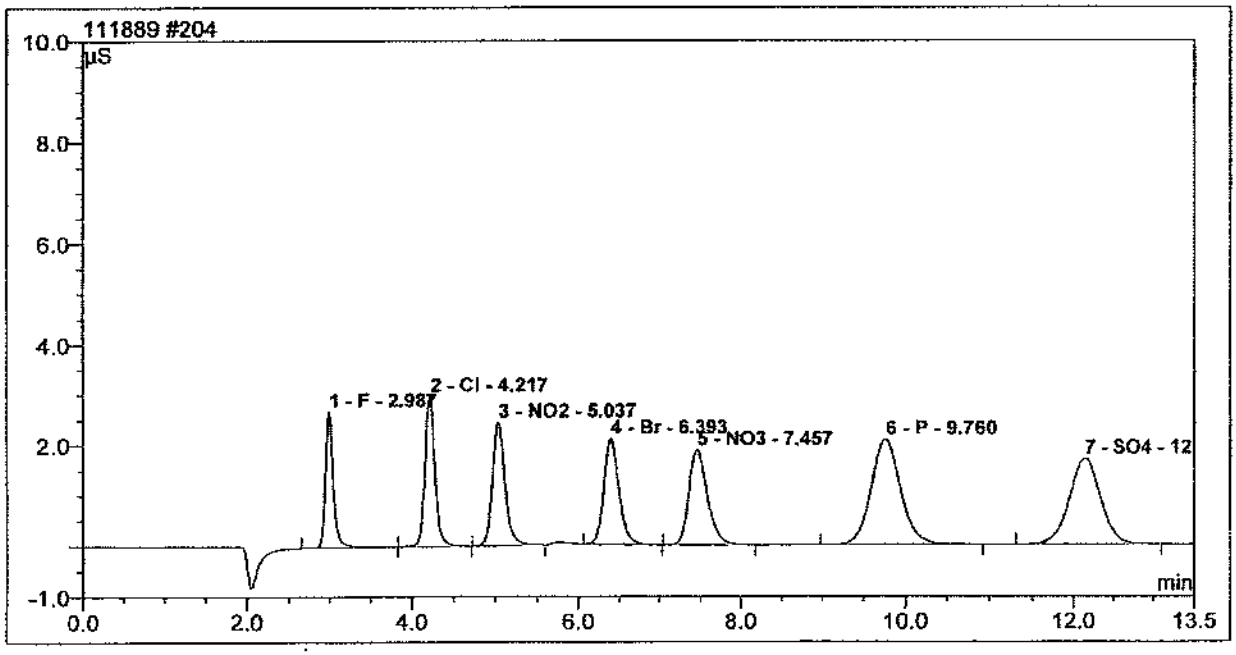
Reviewer/Enterer: Ashley Adams
Ashley Adams

Date: JUL 11 2011

Sample Name:	**CCV2**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 14:16**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**204**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.99	0.311	1.562875
2	Cl	4.22	0.417	3.193724
3	NO2	5.04	0.431	1.508435
4	Br	6.39	0.451	7.769262
5	NO3	7.46	0.499	1.546789
6	P	9.76	0.862	7.476660
7	SO4	12.14	0.777	7.573224



Reviewed/Verified By:

Date: 7/12/11

USF03 2825

Lancaster Laboratories

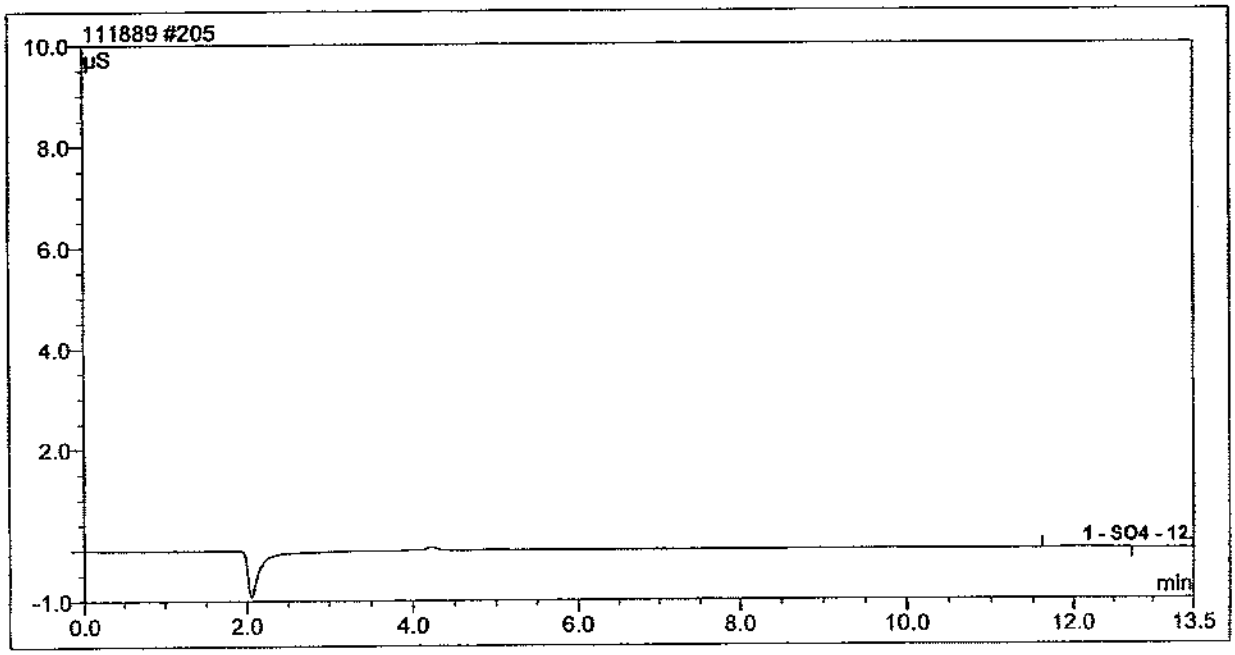
Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Date: Ashley Adams JUL 11 2011

Sample Name:	**CCB**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 14:30**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**205**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	SO4	12.11	0.017	-0.334970



Reviewed/Verified By:
Date: 7/12/11

USP63 12826

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

Date: JUL 11 2011

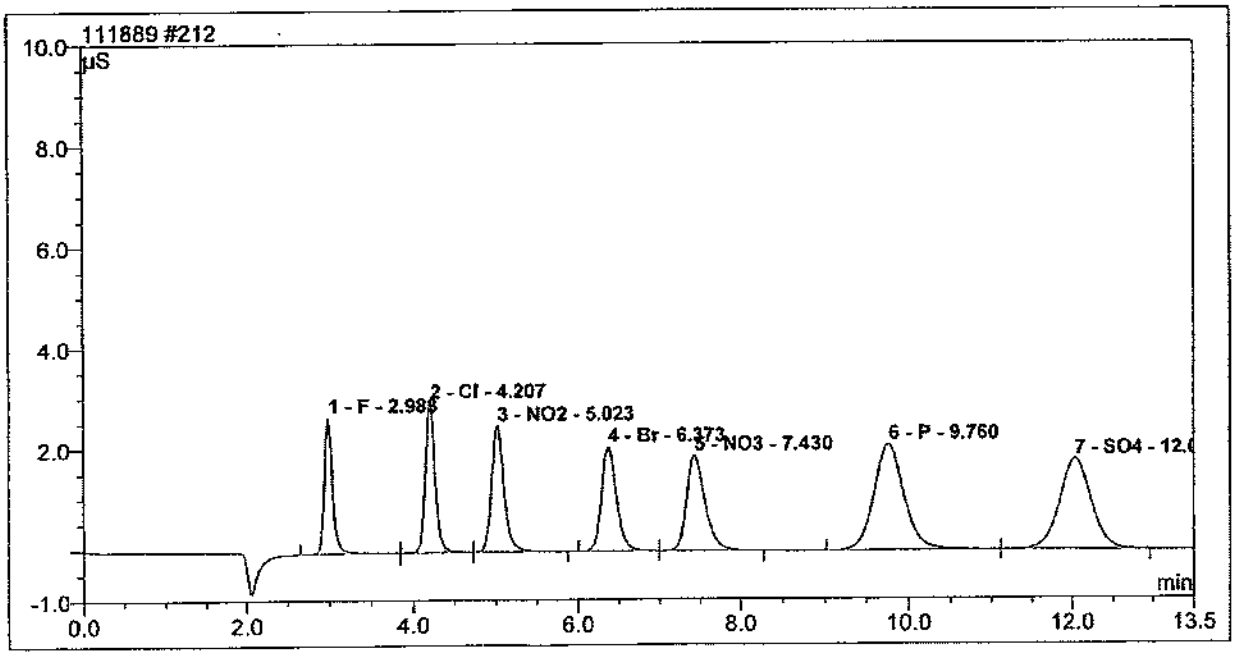
Sample Name:	**LCSW**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621901A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 16:13**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**212**		**AS14-028590**

F NO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.310	1.557069
2	Cl	4.21	0.413	3.166358
3	NO2	5.02	0.443	1.548082
4	Br	6.37	0.446	7.685628
5	NO3	7.43	0.500	1.548919
6	P	9.76	0.873	7.563759
7	SO4	12.04	0.822	8.038446

.15



Reviewed/Verified By:

Date: 7/12/11

USF83 2827

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

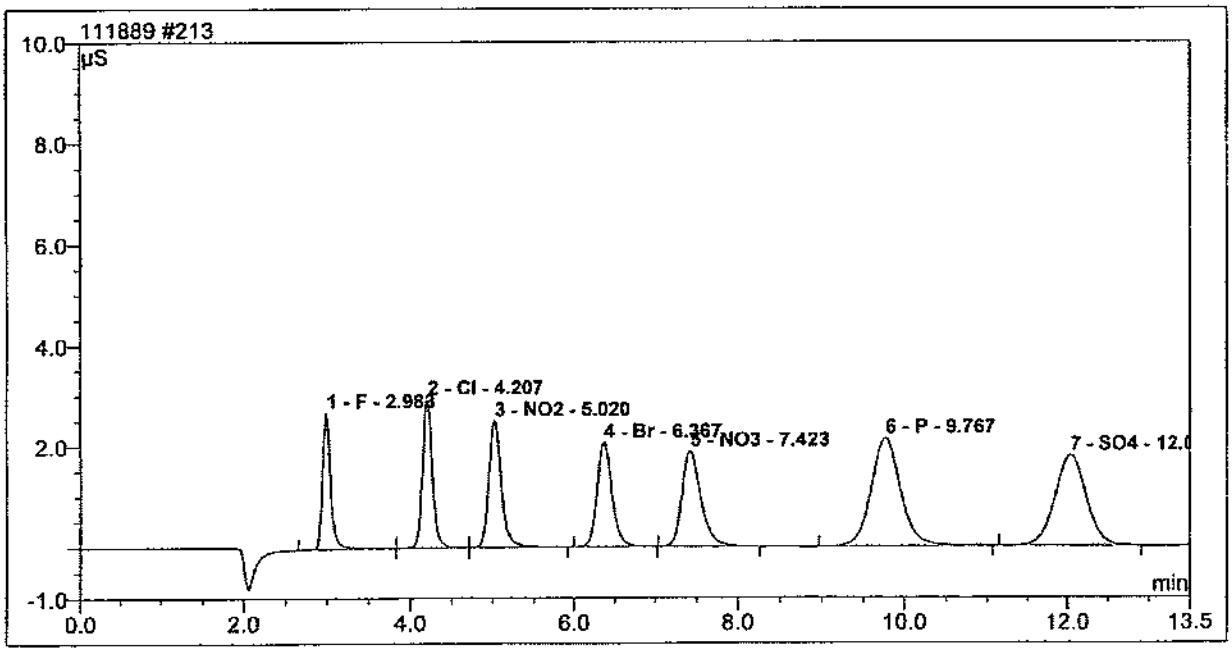
Date: JUL 11 2011

Sample Name:	**LCSDW**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621901A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 16:28**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**213**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.313	1.573798
2	Cl	4.21	0.409	3.138514
3	NO2	5.02	0.445	1.556366
4	Br	6.37	0.444	7.652600
5	NO3	7.42	0.501	1.553518
6	P	9.77	0.894	7.738874
7	SO4	12.04	0.810	7.907788



Reviewed/Verified By:

Date: 7/12/11

DSP63 2929

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

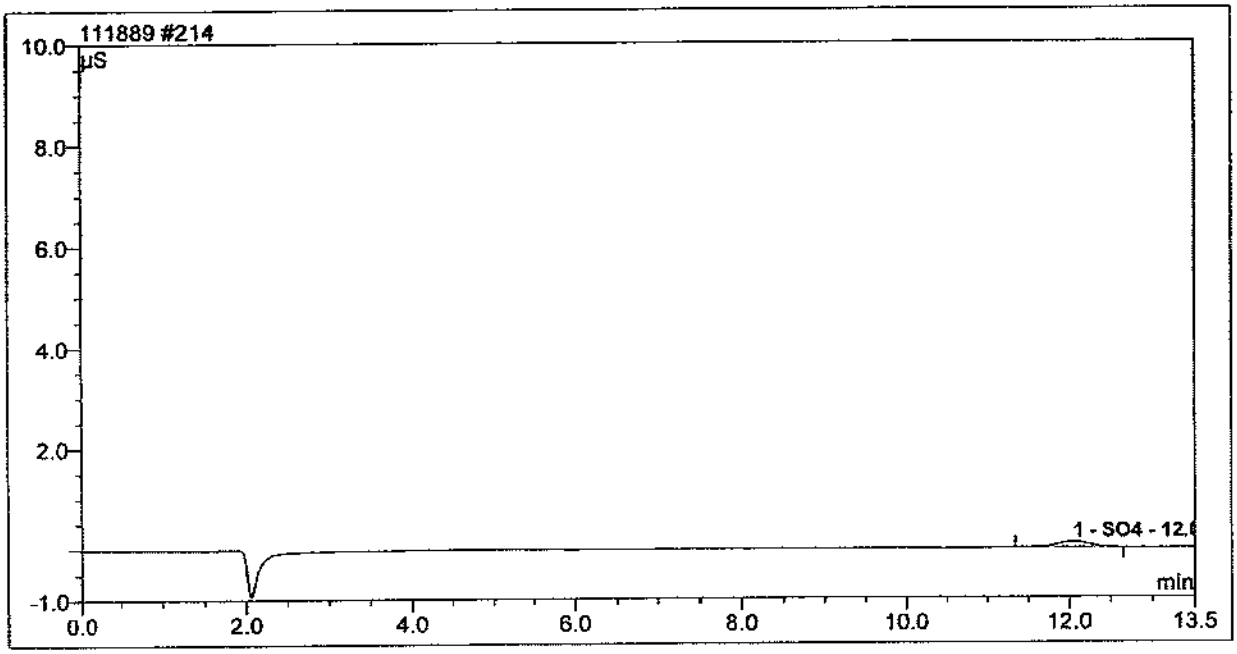
Date: JUL 11 2011

Sample Name:	**PBW**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621901A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 16:43**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**214**		**AS14-028590**

FN03

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	SO4	12.04	0.053	0.036884



Reviewed/Verified By:

Date: 7/12/11

USF03 2829

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

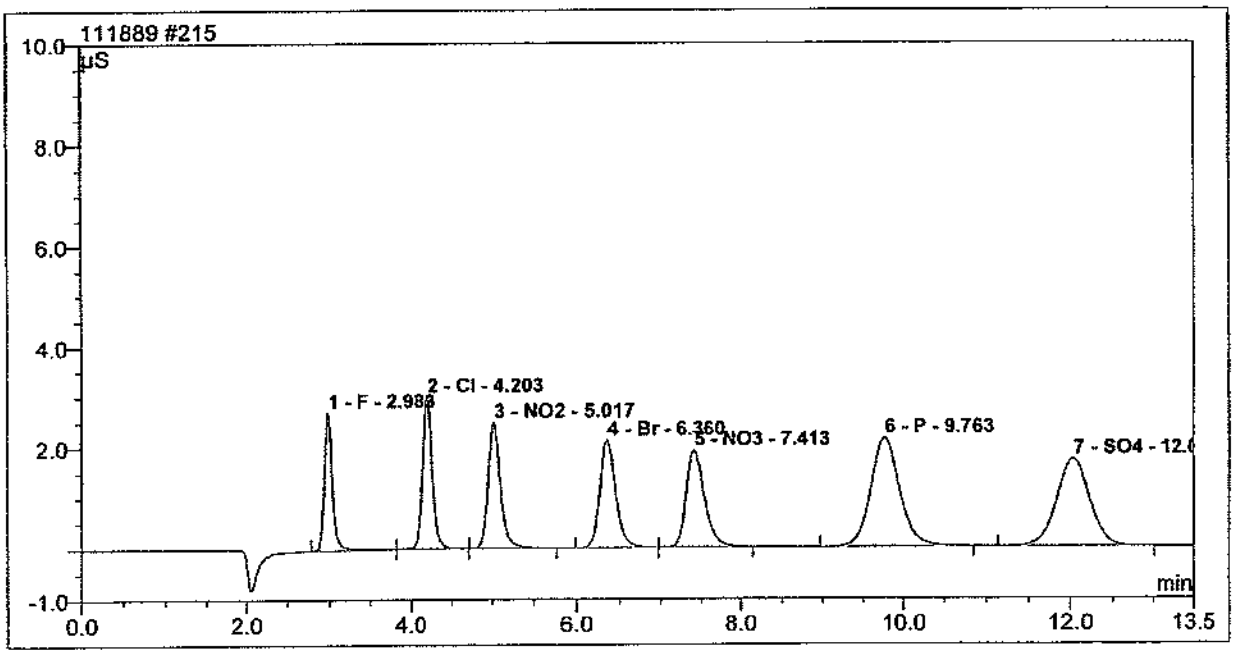
Date: JUL 11 2011

Sample Name:	**CCV2**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 16:57**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**215**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.313	1.571835
2	Cl	4.20	0.416	3.186809
3	NO2	5.02	0.437	1.528879
4	Br	6.36	0.459	7.898643
5	NO3	7.41	0.506	1.567681
6	P	9.76	0.895	7.751081
7	SO4	12.03	0.784	7.640436

B



Reviewed/Verified By:

Date:

USF53 2838

Lancaster Laboratories

Inorganic Anions by IC

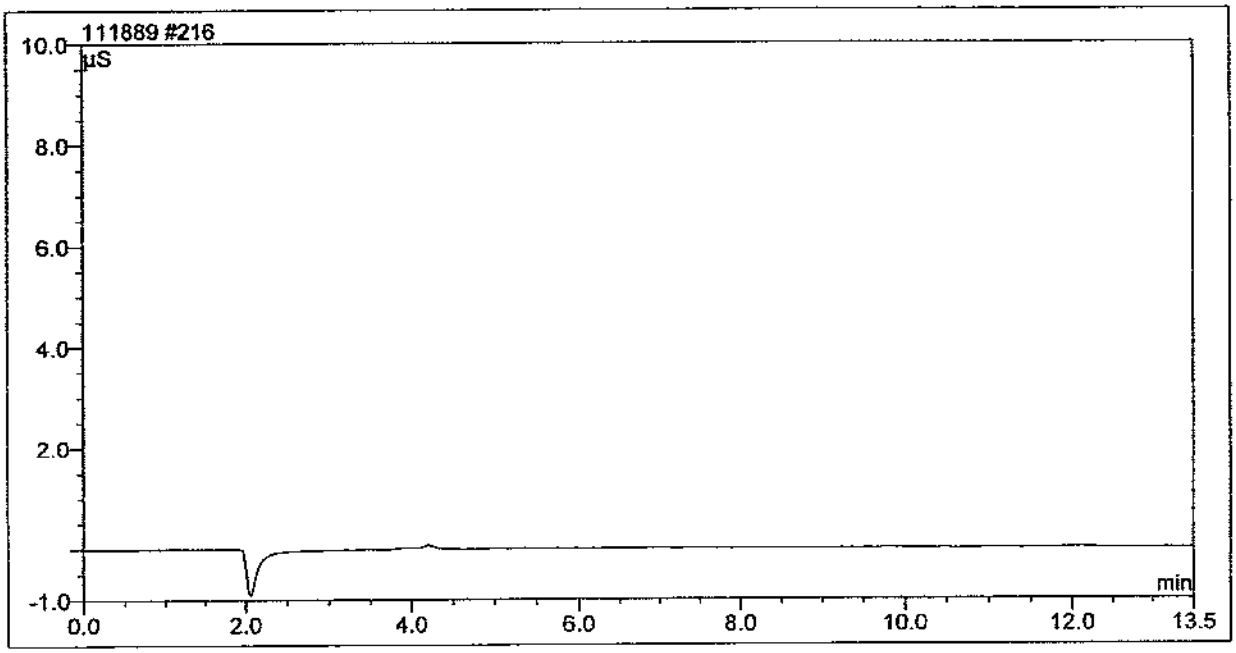
Reviewer/Enterer: Ashley Adams (Ashley Adams)

Date: JUL 11 2011

Sample Name:	**CCB**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 17:12**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**216**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg



Reviewed/Verified By:

Date: 7/12/11

USF03 2031

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

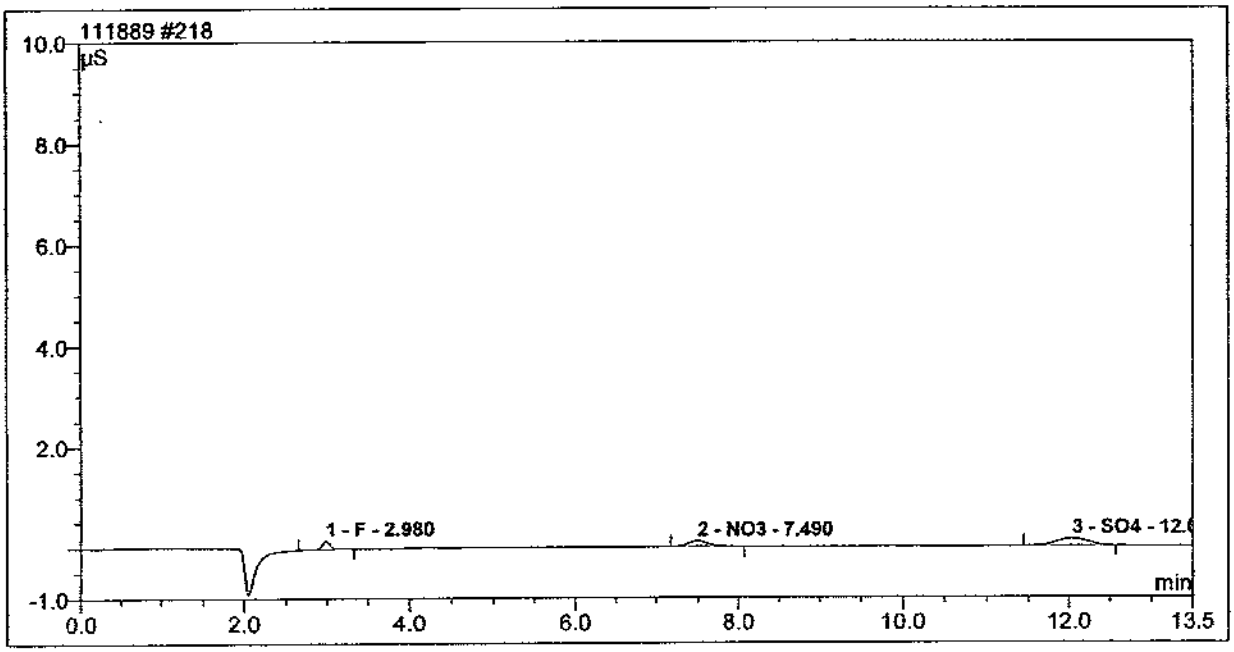
Date: JUL 11 2011

Sample Name:	**6339384**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201B-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 17:41**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**218**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.022	1.306275
2	NO3	7.49	0.031	1.335409
3	SO4	12.04	0.066	1.724677



Reviewed/Verified By: [signature]

Date: 7/18/11

USF03: 2932

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

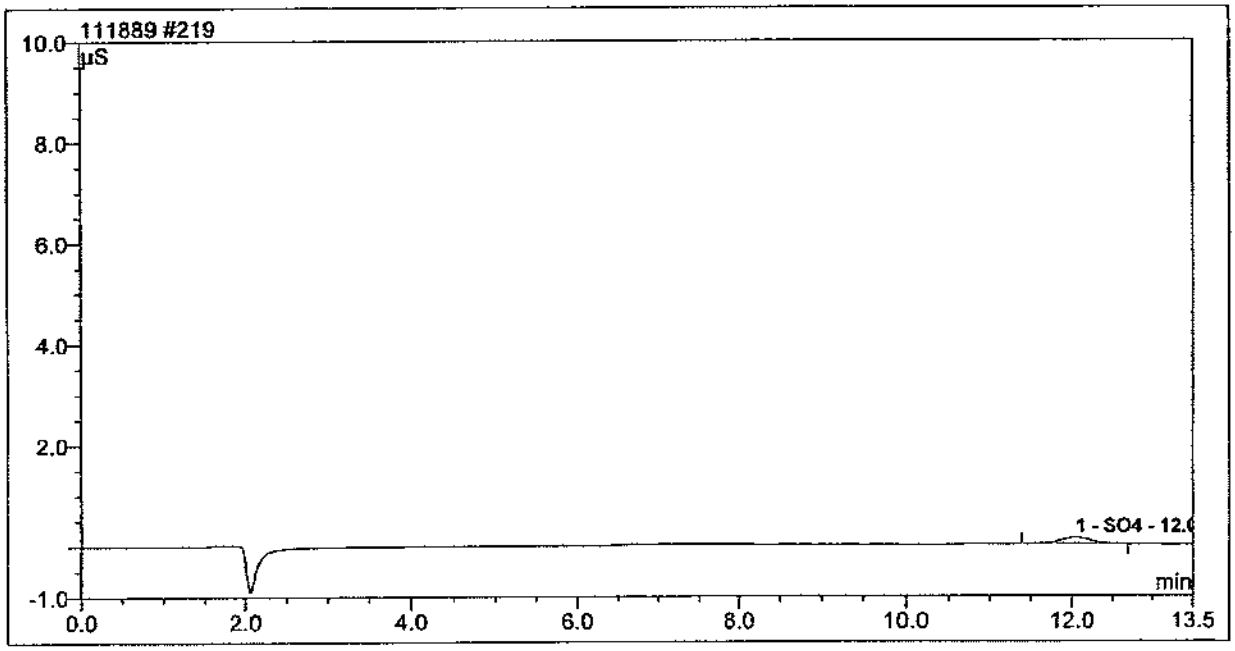
Date: JUL 11 2011

Sample Name:	**PBS**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 17:56**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**219**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	SO4	12.03	0.059	1.036165



Reviewed/Verified By:

Date: 7/18/11

US783 2933

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

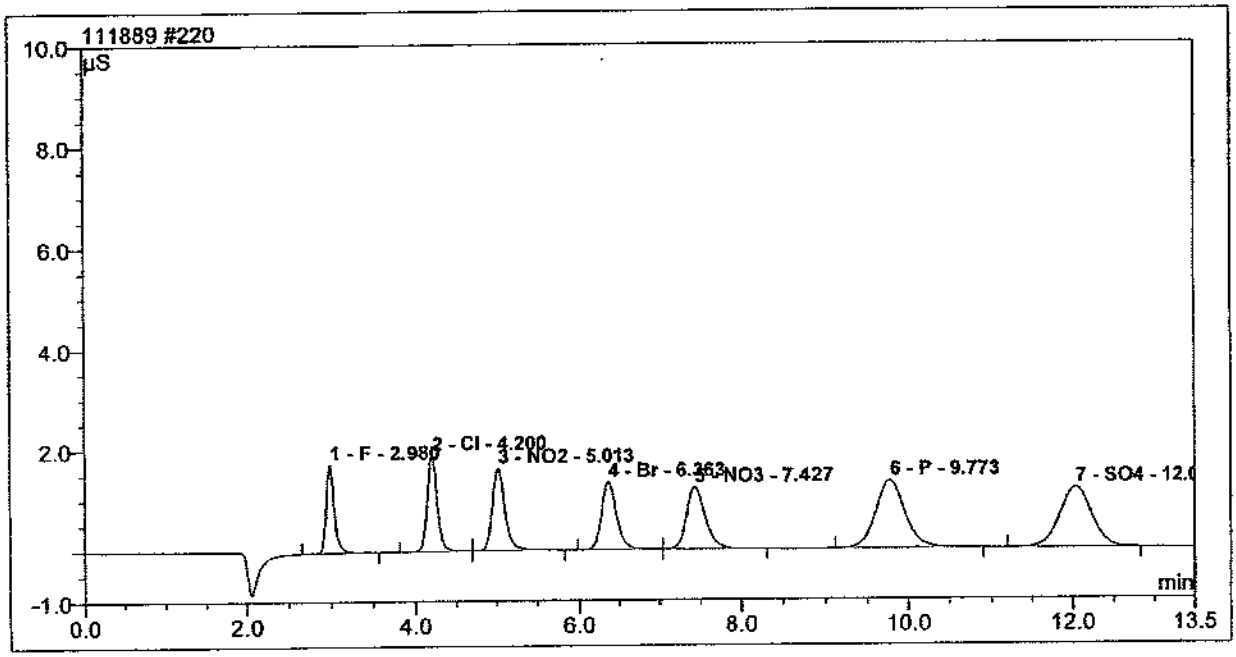
Date: JUL 11 2011

Sample Name:	**LCSS**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 18:11**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**220**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.200	10.123376
2	Cl	4.20	0.267	20.460723
3	NO2	5.01	0.292	10.227174
4	Br	6.36	0.292	50.468306
5	NO3	7.43	0.325	10.204603
6	P	9.77	0.558	49.429547
7	SO4	12.03	0.544	51.442584



Reviewed/Verified By:

Date: 7/11/11

USF03 2834

7/11/2011 7:50 AM

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

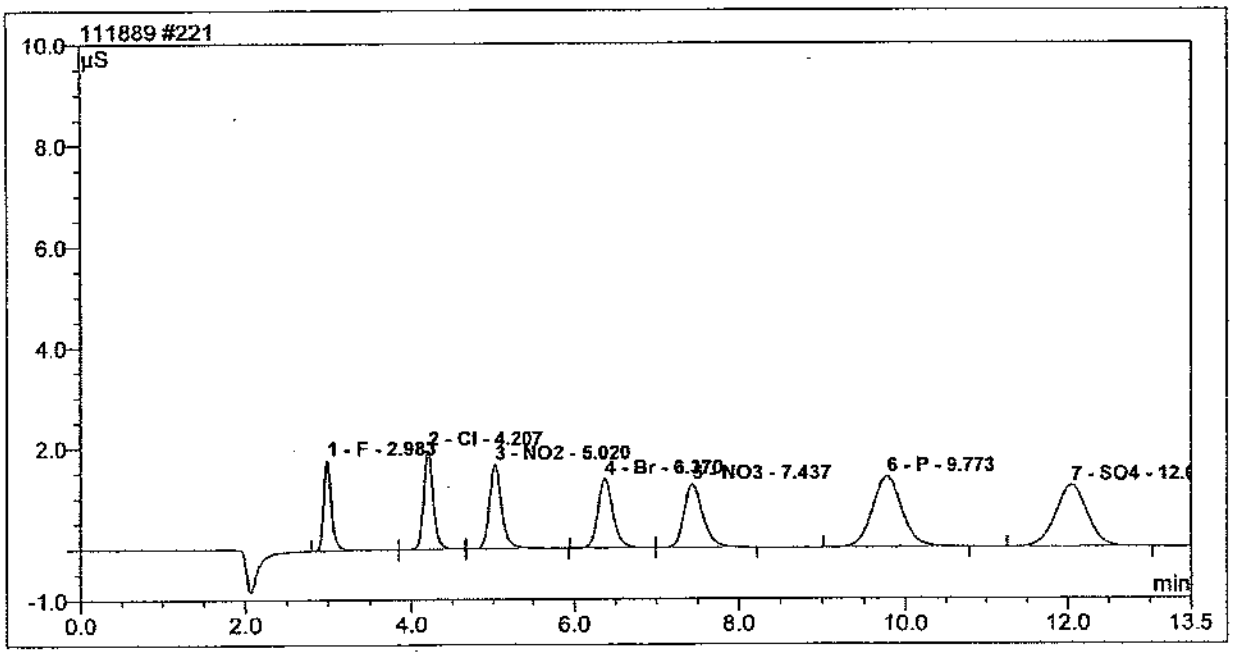
Date: JUL 11 2011

Sample Name:	**LCSDS**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 18:26**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**221**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.210	10.616920
2	Cl	4.21	0.275	21.109013
3	NO2	5.02	0.300	10.508965
4	Br	6.37	0.298	51.444437
5	NO3	7.44	0.333	10.467076
6	P	9.77	0.580	51.211268
7	SO4	12.04	0.556	52.661417



Reviewed/Verified By:

Date: 7/11/11

USF63 2835

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

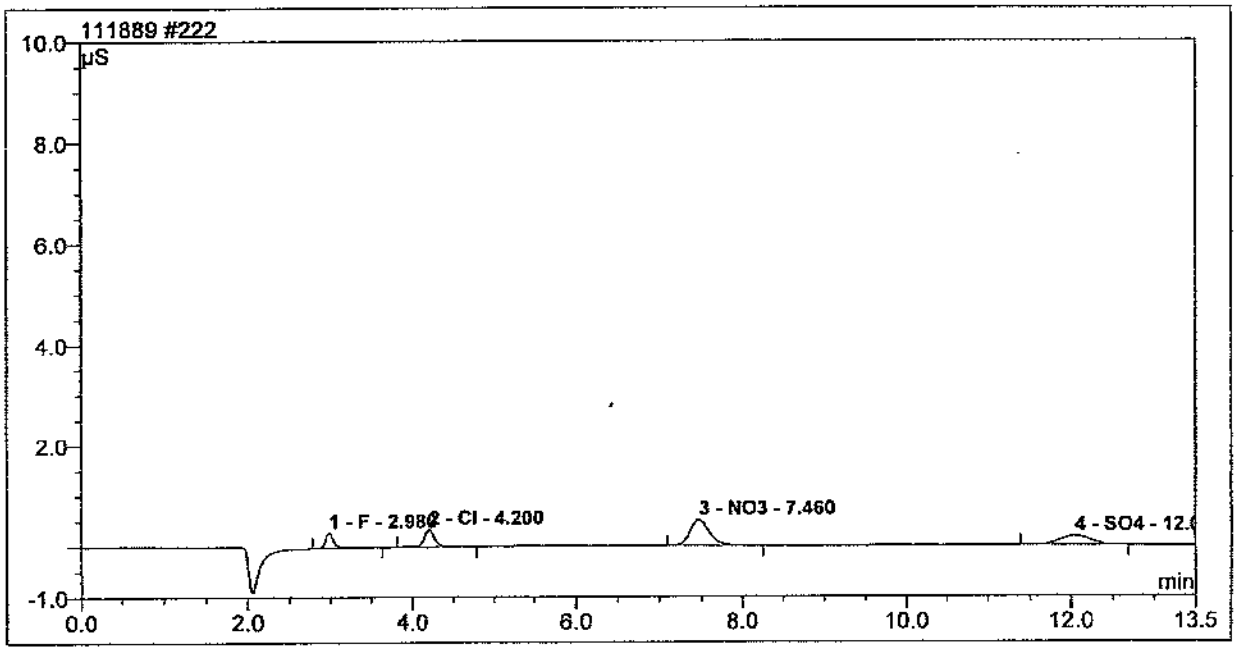
Date: JUL 11 2011

Sample Name:	**6339377-U**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 18:40**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**4.99**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**222**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.041	2.240232
2	Cl	4.20	0.054	4.160862
3	NO3	7.46	0.141	4.659580
4	SO4	12.04	0.084	3.584082



Reviewed/Verified By: [signature]

Date: 7/18/11

USE53 2936

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

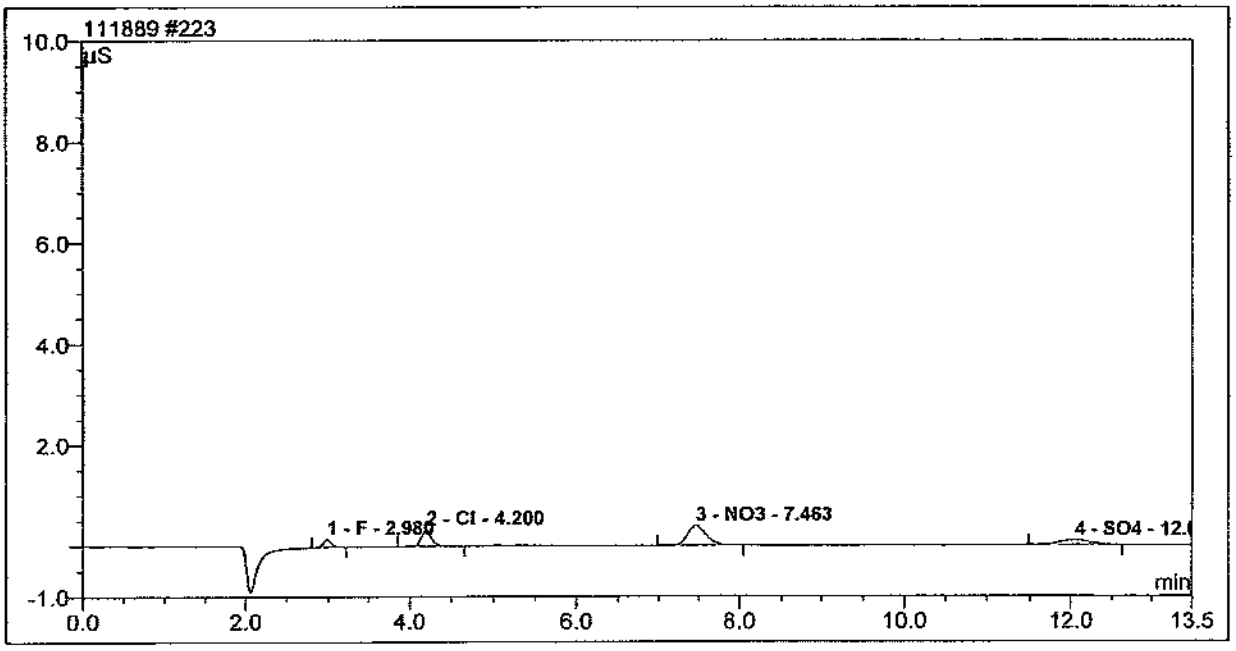
Date: JUL 11 2011

Sample Name:	**6339380-D**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 18:55**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.09**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**223**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.018	1.077344
2	Cl	4.20	0.049	3.741553
3	NO3	7.46	0.104	3.485344
4	SO4	12.05	0.043	-0.601066



Reviewed/Verified By:

Date: 7/18/11

USP63 2937

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

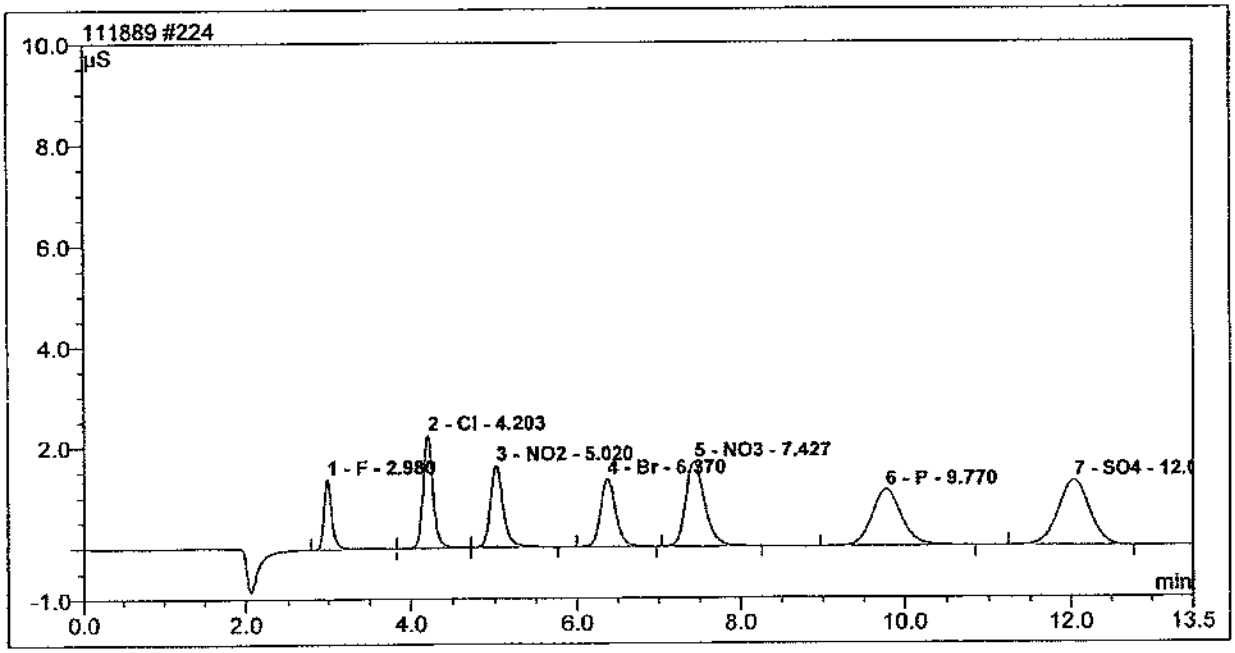
Date: JUL 11 2011

Sample Name:	**6339378-R**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 19:10**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.06**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**224**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.163	8.202053
2	Cl	4.20	0.314	23.774489
3	NO2	5.02	0.290	10.057006
4	Br	6.37	0.290	49.547771
5	NO3	7.43	0.445	13.682314
6	P	9.77	0.477	42.173842
7	SO4	12.03	0.581	54.655505

SA=9.881422
60%
SA=9.881422
91%



Reviewed/Verified By: [signature]

Date: 7/18/11

USF93 2838

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

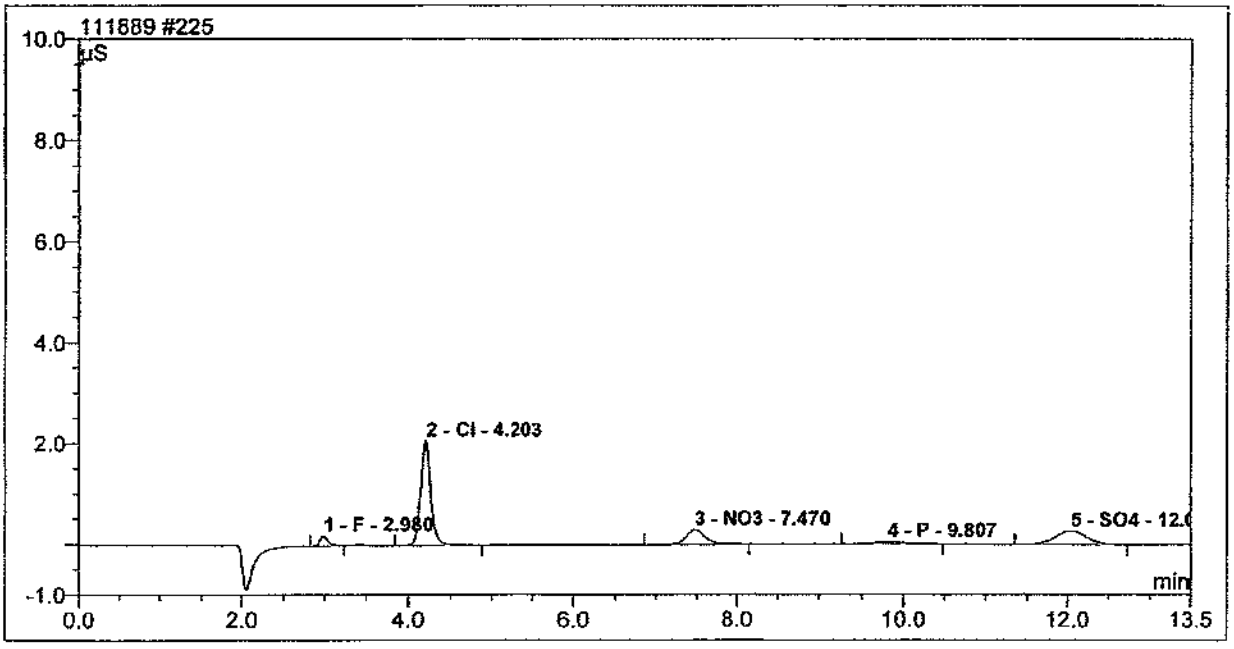
Date: JUL 11 2011

Sample Name:	**6339368**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 19:24**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**4.92**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**225**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.023	1.374273
2	Cl	4.20	0.290	22.649989
3	NO3	7.47	0.083	2.932347
4	P	9.81	0.023	4.845457
5	SO4	12.04	0.122	7.674648



Reviewed/Verified By: [signature]

Date: 7/18/11

USF03 2839

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

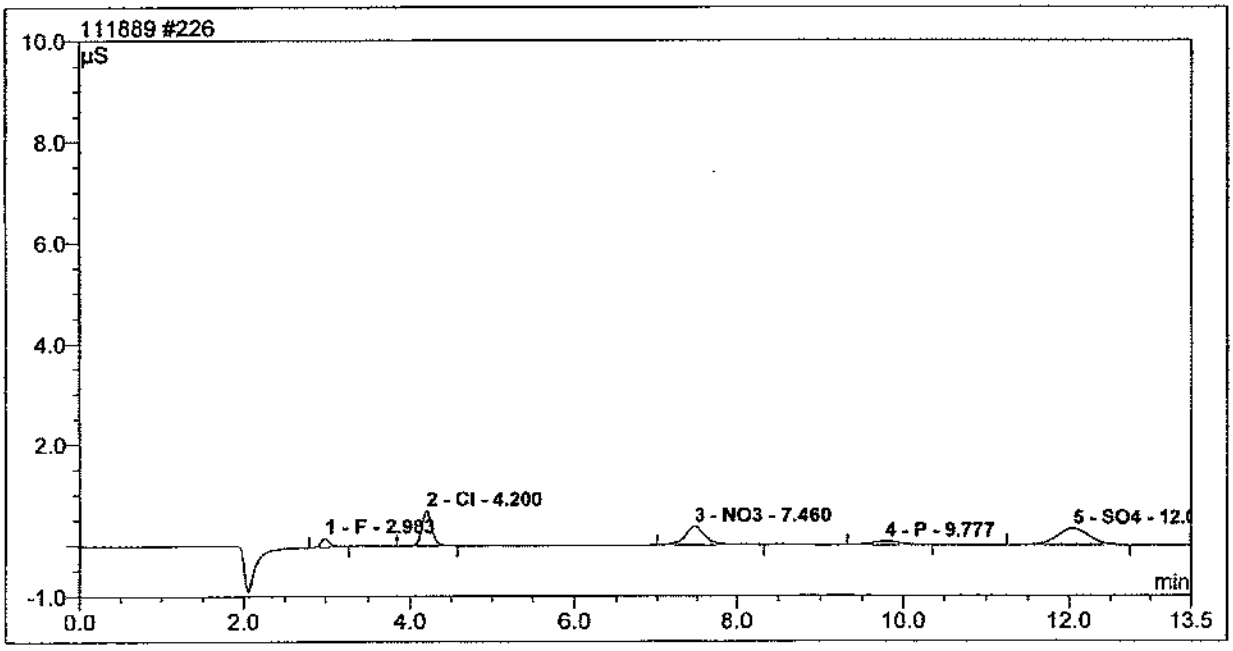
Date: JUL 1 1 2011

Sample Name:	**6339369**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 19:39**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**4.90**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**226**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.021	1.285701
2	Cl	4.20	0.099	7.789036
3	NO3	7.46	0.114	3.921201
4	P	9.78	0.030	5.537726
5	SO4	12.04	0.149	10.650797



Reviewed/Verified By:

Date: 7/18/11

USP93 2848

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

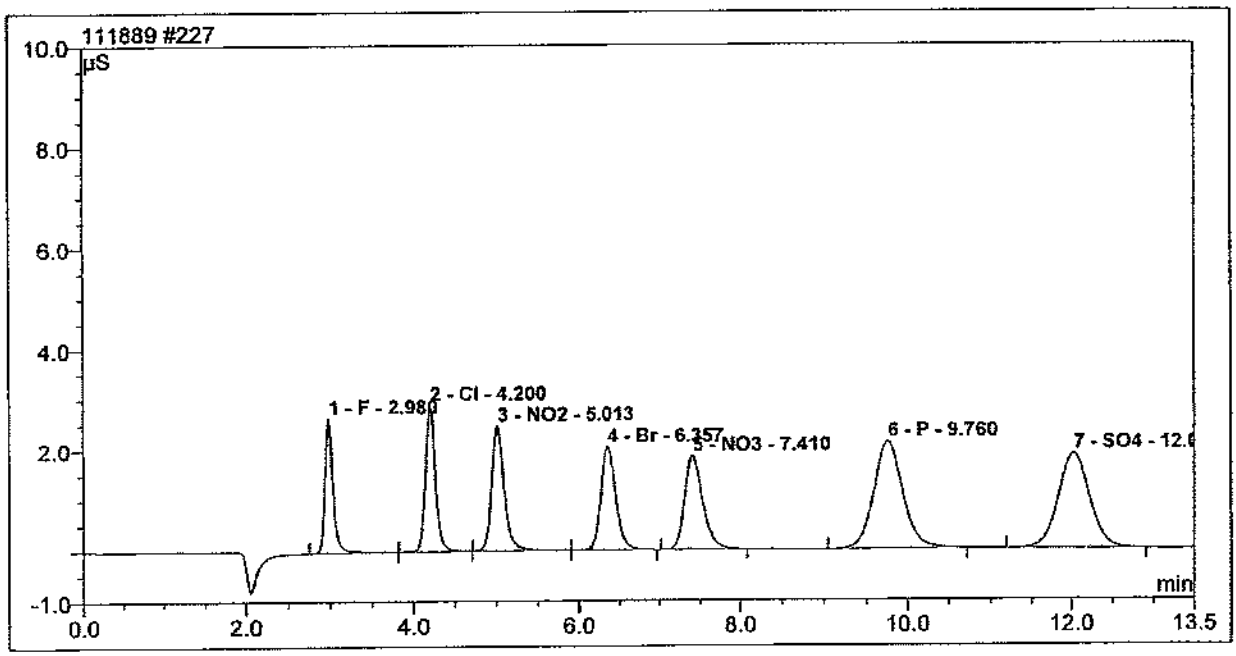
Date: JUL 11 2011

Sample Name:	**CCV2**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 19:54**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**227**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.306	1.539350
2	Cl	4.20	0.402	3.085650
3	NO2	5.01	0.439	1.533595
4	Br	6.36	0.439	7.565236
5	NO3	7.41	0.484	1.502199
6	P	9.76	0.877	7.596082
7	SO4	12.03	0.842	8.246616

IS



Reviewed/Verified By: [signature]

Date: 7/18/11

USP83 2941

Lancaster Laboratories

Inorganic Anions by IC

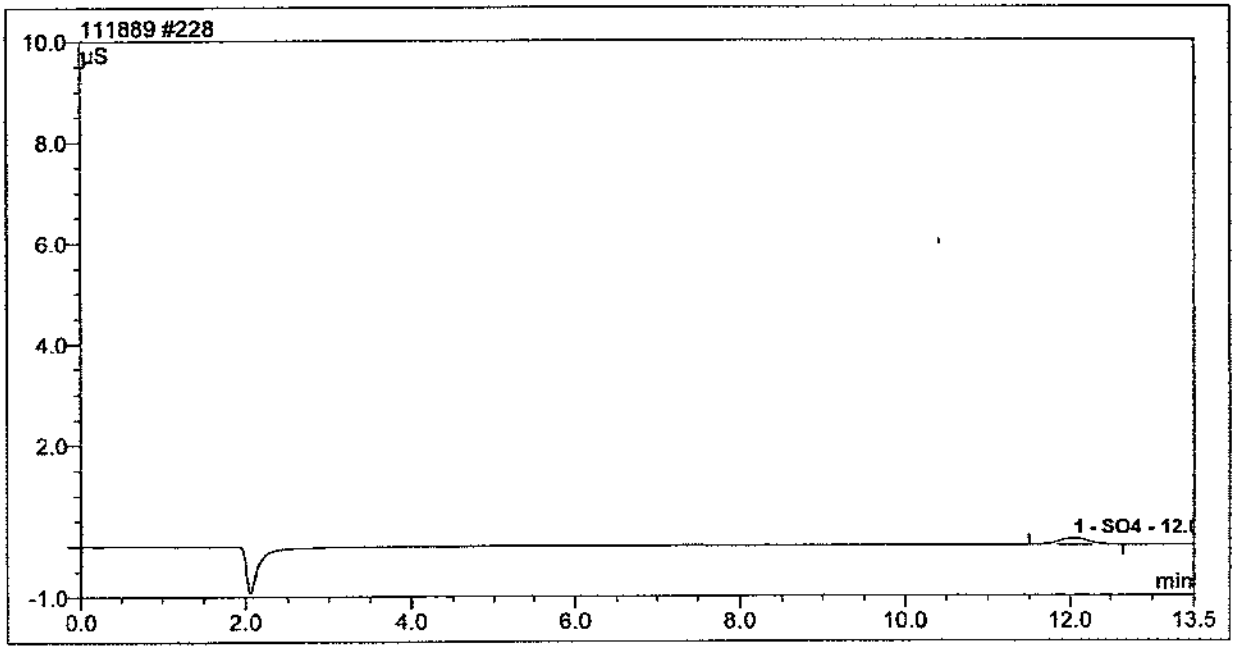
Reviewer/Enterer: Ashley Adams (Ashley Adams)

Date: JUL 11 2011

Sample Name:	**CCB**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 20:08**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**228**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	SO4	12.04	0.058	0.095870



Reviewed/Verified By:

Date: 7/8/11

USF03 2842

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

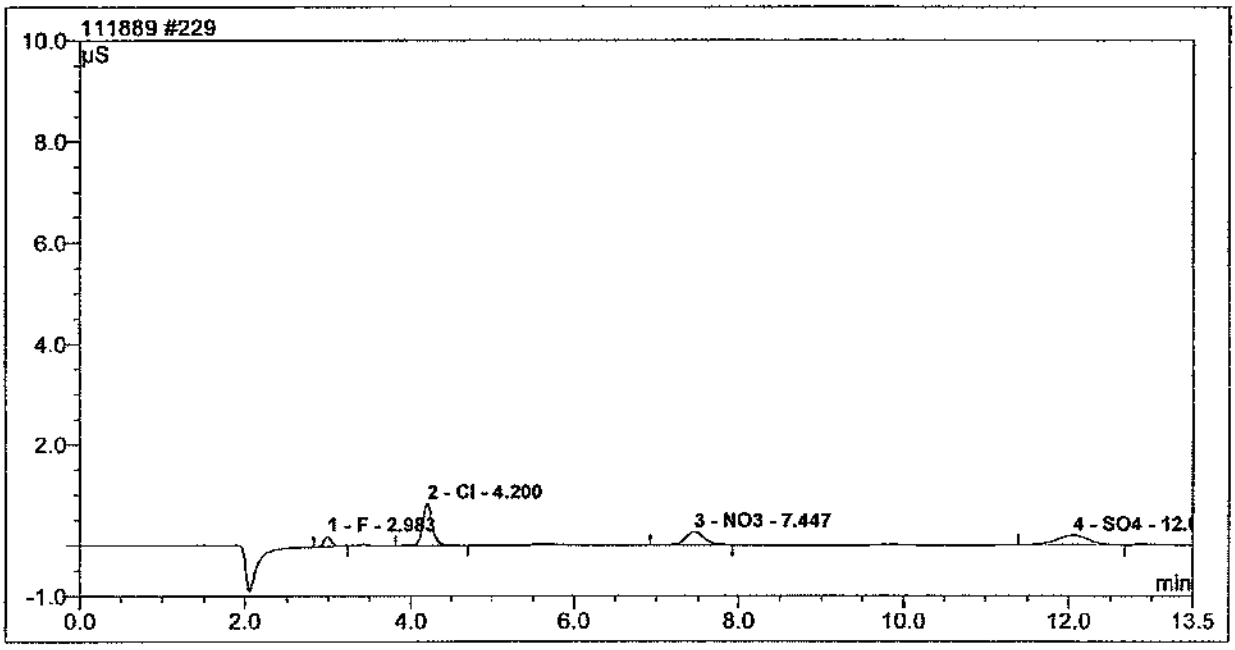
Date: JUL 11 2011

Sample Name:	**6339370**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 20:23**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**4.96**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**229**		**AS14-028590**

F NO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.023	1.381985
2	Cl	4.20	0.120	9.339222
3	NO3	7.45	0.071	2.571002
4	SO4	12.05	0.091	4.360734



Reviewed/Verified By:

Date: 7/12/11

USF93 2943

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

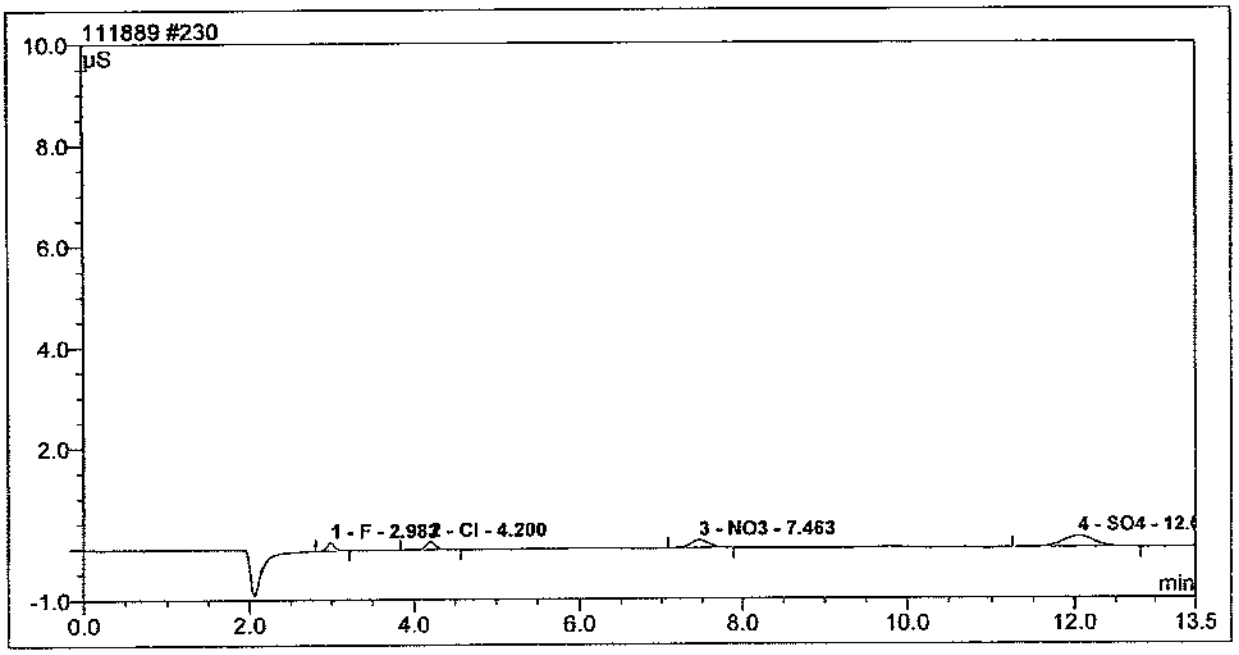
Date: JUL 11 2011

Sample Name:	**6339371**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 20:38**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**4.93**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**230**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.019	1.163884
2	Cl	4.20	0.026	2.077678
3	NO3	7.46	0.042	1.687460
4	SO4	12.04	0.102	5.597185



Reviewed/Verified By:

Date: 7/18/11

USF83 2844

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

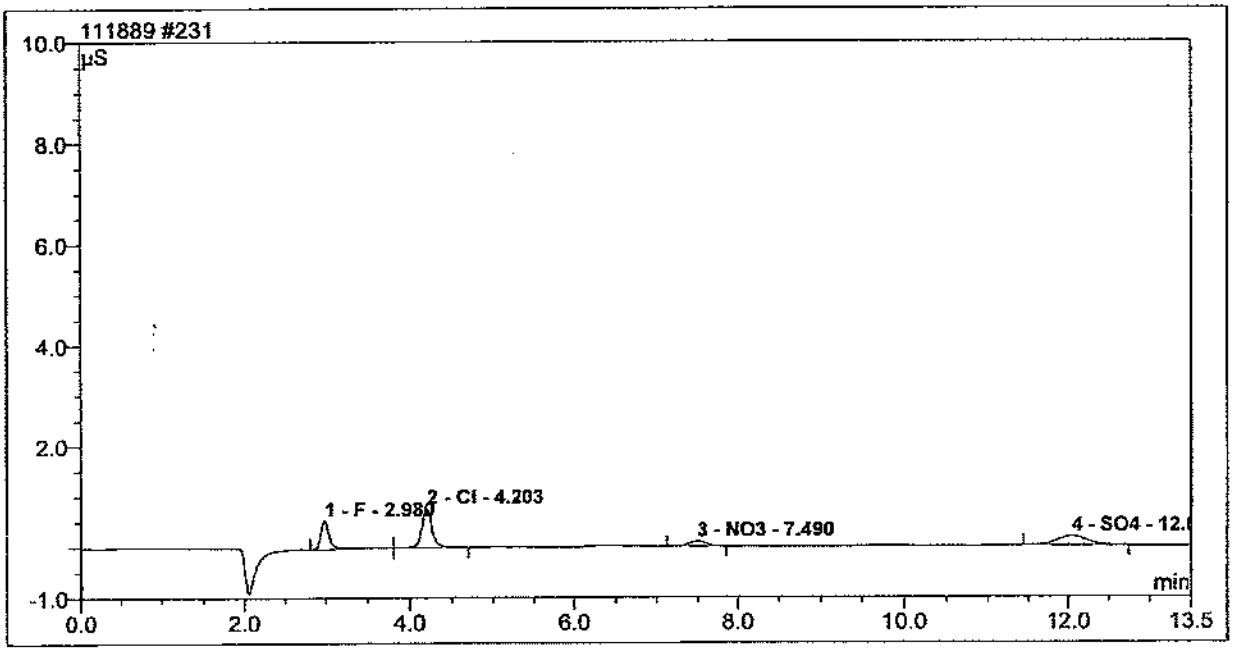
Date: JUL 11 2011

Sample Name:	**6339372**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 20:53**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.05**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**231**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.98	0.077	4.003356
2	Cl	4.20	0.112	8.527835
3	NO3	7.49	0.028	1.220473
4	SO4	12.04	0.083	3.505657



Reviewed/Verified By:

Date: 7/18/11

USF03 2845

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

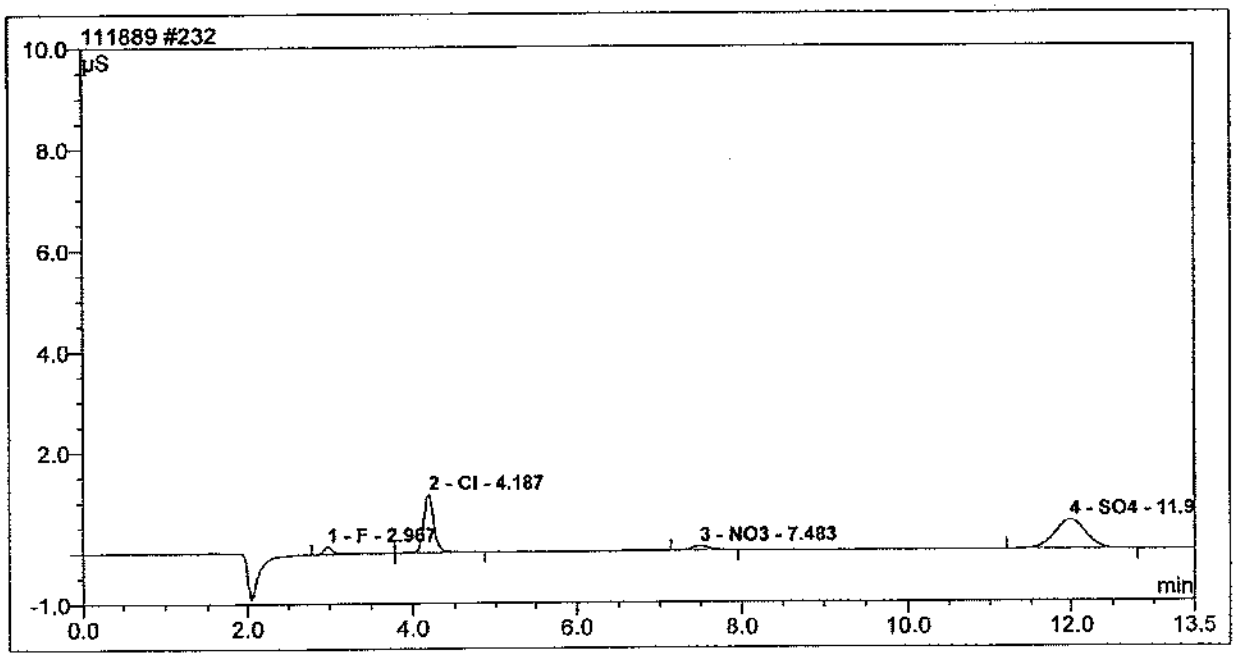
Date: JUL 11 2011

Sample Name:	**6339373**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 21:07**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**4.98**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**232**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.028	1.607894
2	Cl	4.19	0.166	12.779952
3	NO3	7.48	0.024	1.127286
4	SO4	11.98	0.265	22.506623



Reviewed/Verified By:

Date:

USP89 2946

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

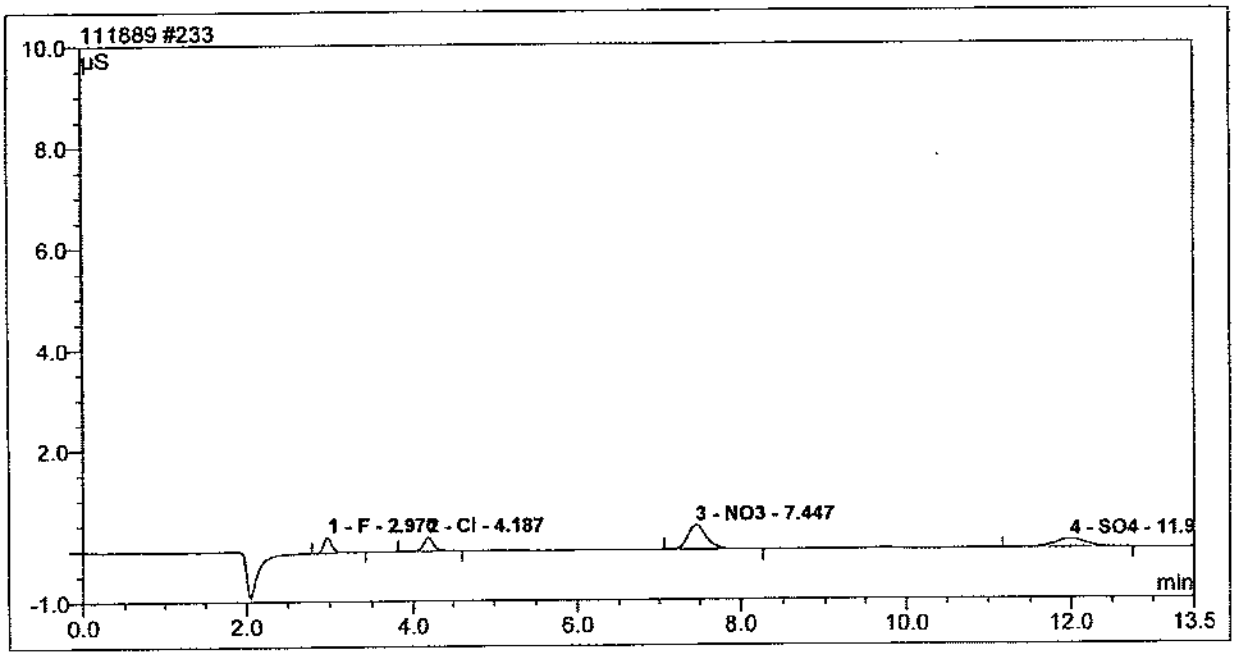
Date: JUL 11 2011

Sample Name:	**6339374**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 21:22**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**4.90**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**233**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.037	2.092502
2	Cl	4.19	0.044	3.524673
3	NO3	7.45	0.130	4.422832
4	SO4	11.98	0.076	2.799362



Reviewed/Verified By: [signature]

Date: 7/18/11

USF03 #847

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

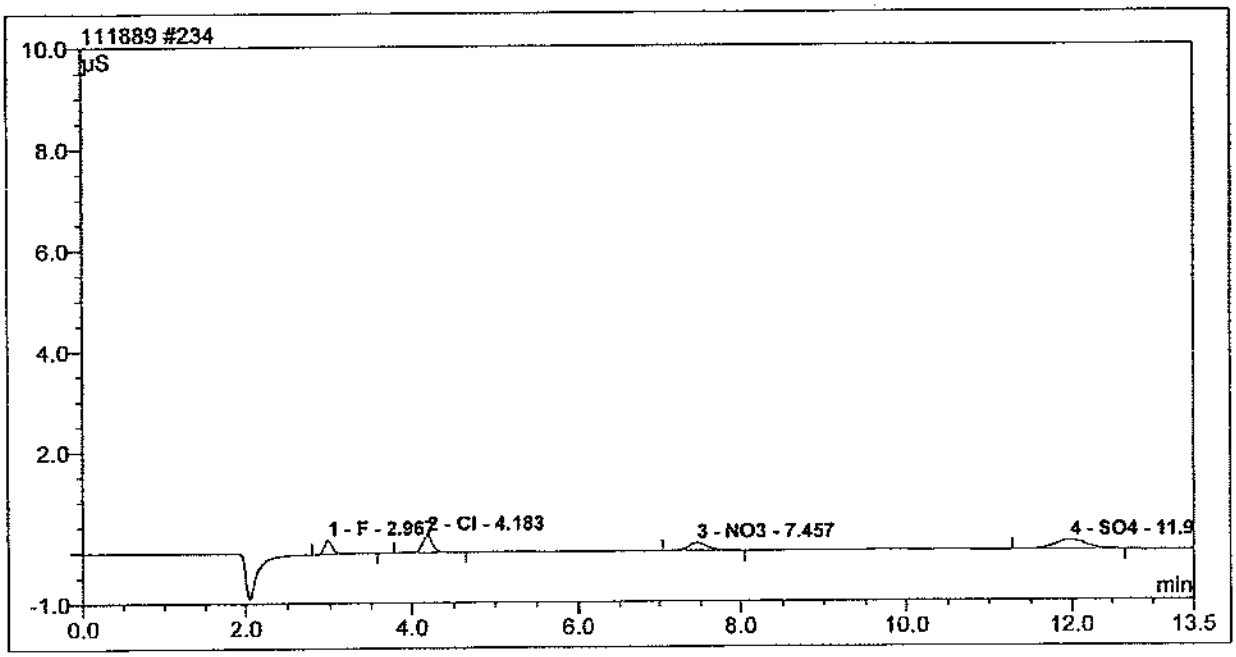
Date: JUL 11 2011

Sample Name:	**6339375**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 21:37**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.05**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**234**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.037	2.015893
2	Cl	4.18	0.052	4.034253
3	NO3	7.46	0.042	1.632207
4	SO4	11.98	0.083	3.445686



Reviewed/Verified By: [signature]

Date: 7/18/11

USF63 2848

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

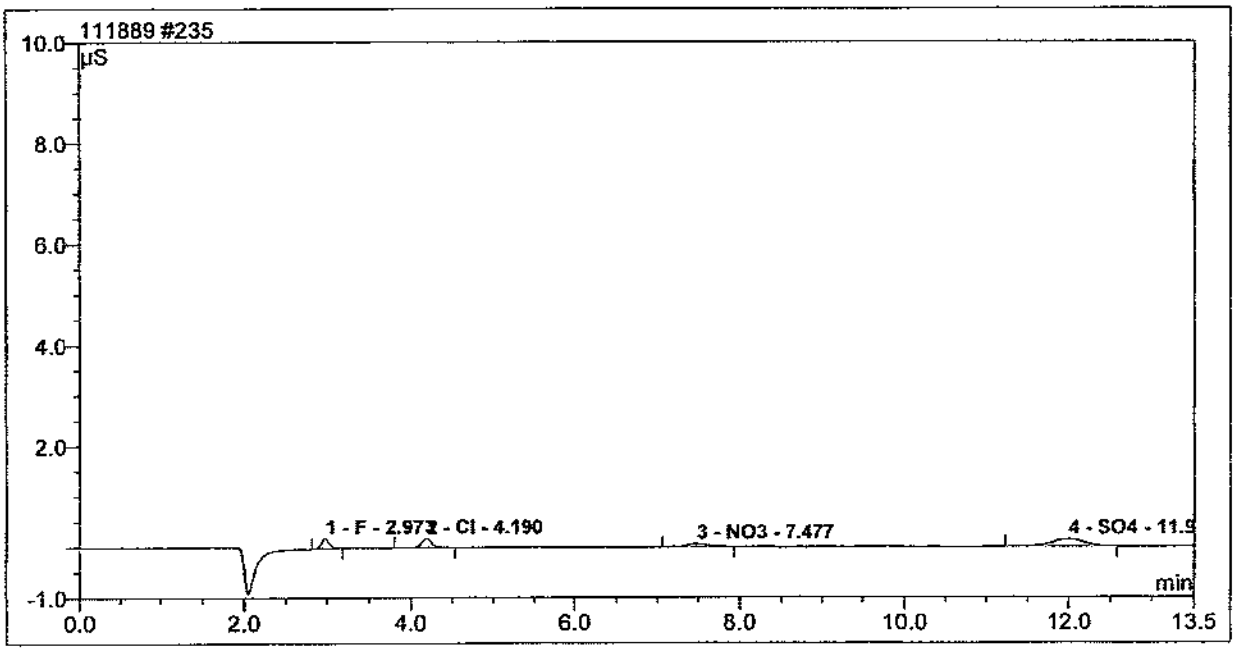
Date: JUL 11 2011

Sample Name:	**6339376**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201A-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 21:51**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.05**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**235**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.023	1.319914
2	Cl	4.19	0.029	2.262631
3	NO3	7.48	0.018	0.922372
4	SO4	12.00	0.069	2.021203



Reviewed/Verified By: [signature]

Date: 7/18/11

USP63 2849

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

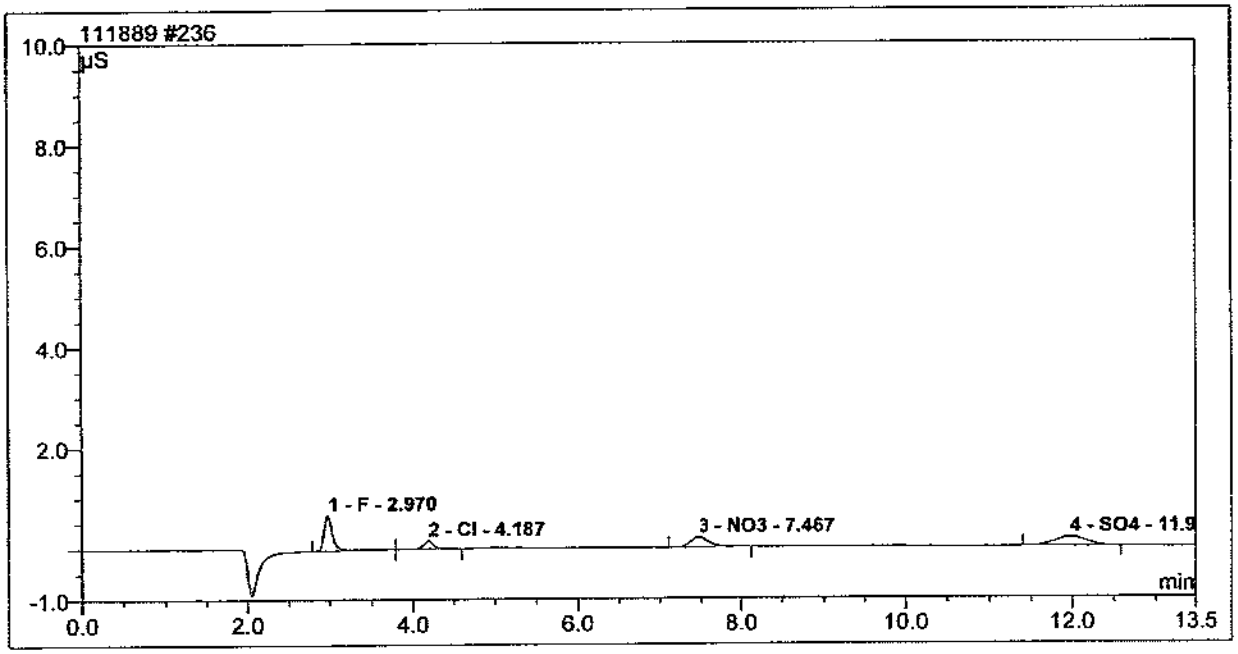
Date: JUL 11 2011

Sample Name:	**6339385-U**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201B-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 22:06**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**4.97**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**236**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.089	4.656223
2	Cl	4.19	0.026	2.028747
3	NO3	7.47	0.054	2.025377
4	SO4	11.98	0.080	3.244554



Reviewed/Verified By:

Date: 7/18/14

USF03 2858

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

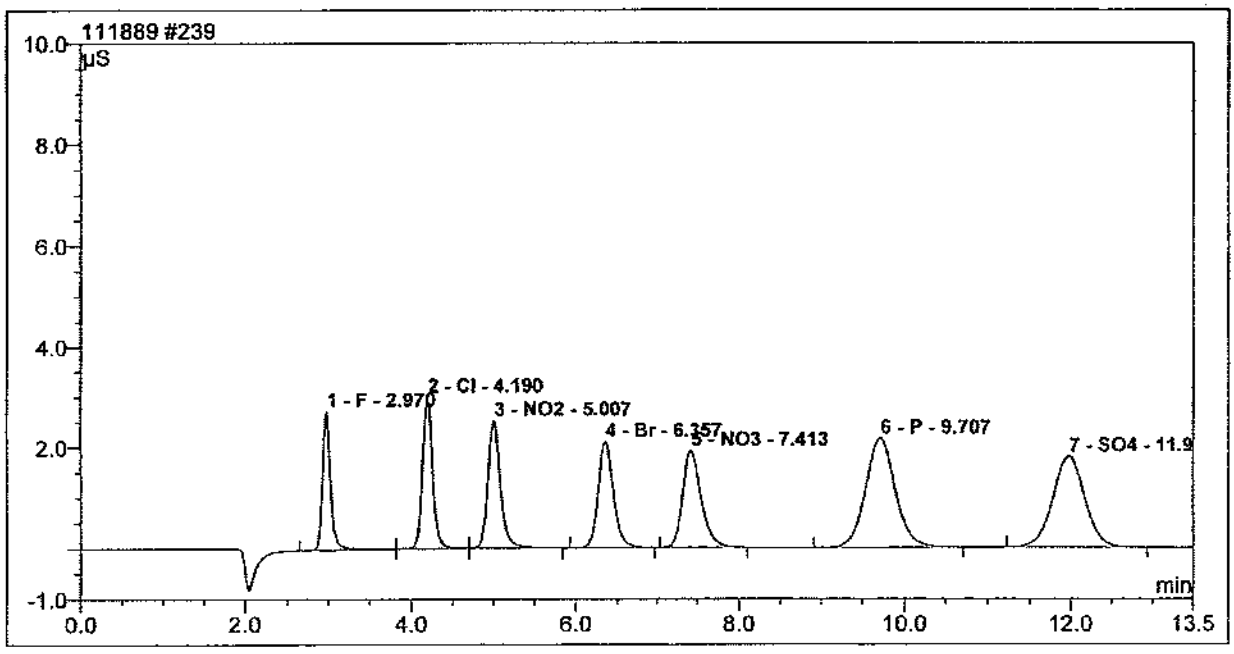
Date: JUL 11 2011

Sample Name:	**CCV2**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 22:50**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**239**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.317	1.592615
2	Cl	4.19	0.419	3.214354
3	NO2	5.01	0.449	1.570473
4	Br	6.36	0.454	7.815990
5	NO3	7.41	0.507	1.571926
6	P	9.71	0.892	7.725187
7	SO4	11.98	0.811	7.918211

5



Reviewed/Verified By:

Date: 7/18/11

USF03 2851

Lancaster Laboratories

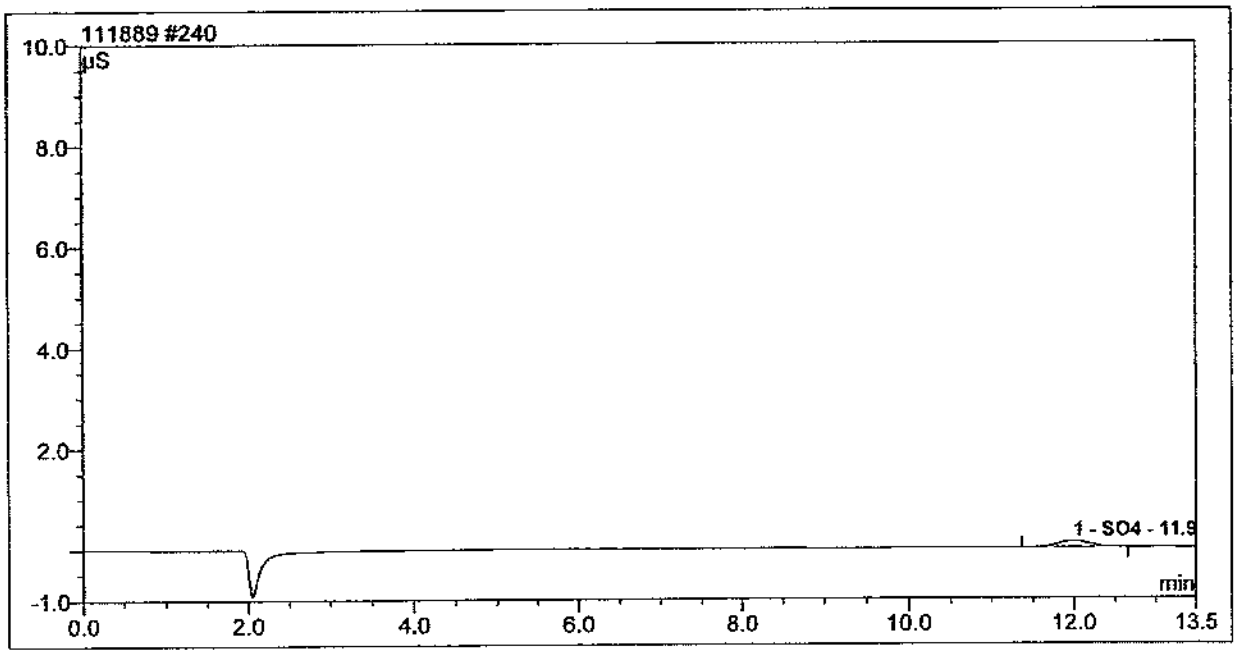
Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Date: Ashley Adams JUL 11 2011

Sample Name:	**CCB**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 23:05**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**240**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	SO4	11.98	0.059	0.101350



Reviewed/Verified By:
Date: 7/11/11

USF03 2852

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

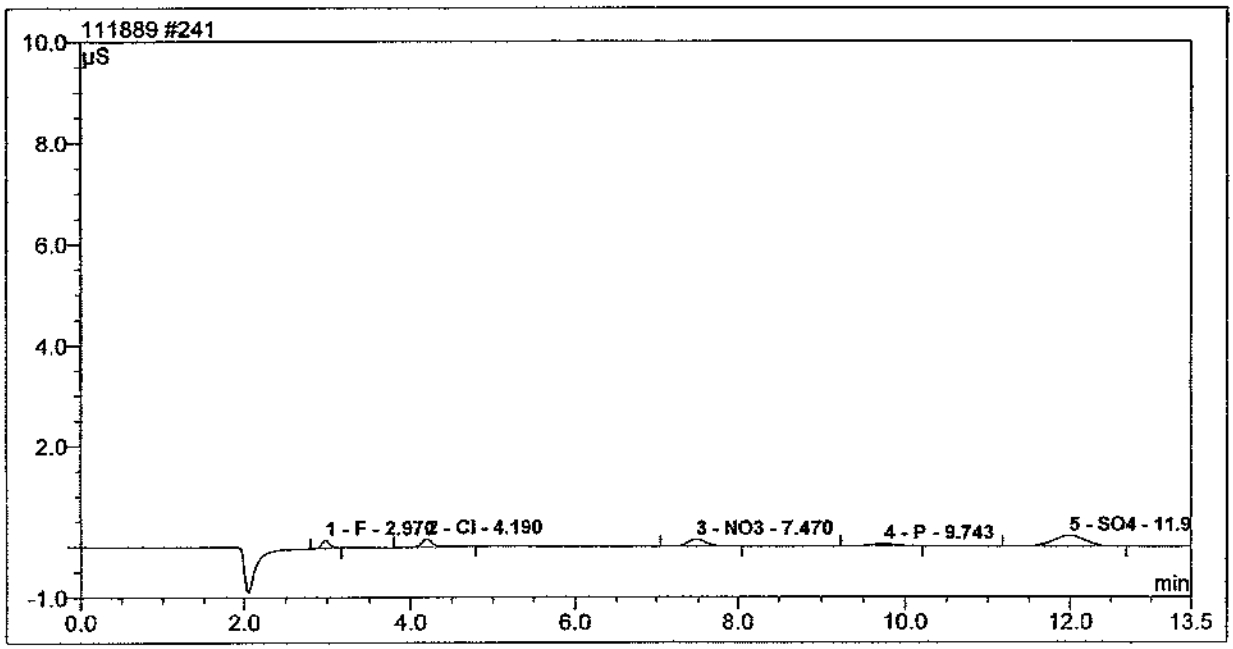
Date: JUL 11 2011

Sample Name:	**6339386**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201B-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 23:20**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.05**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**241**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.019	1.157659
2	Cl	4.19	0.032	2.460222
3	NO3	7.47	0.037	1.491583
4	P	9.74	0.019	4.429262
5	SO4	11.98	0.098	5.073575



Reviewed/Verified By:

Date: 7/18/11

USF03 2853

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Ashley Adams

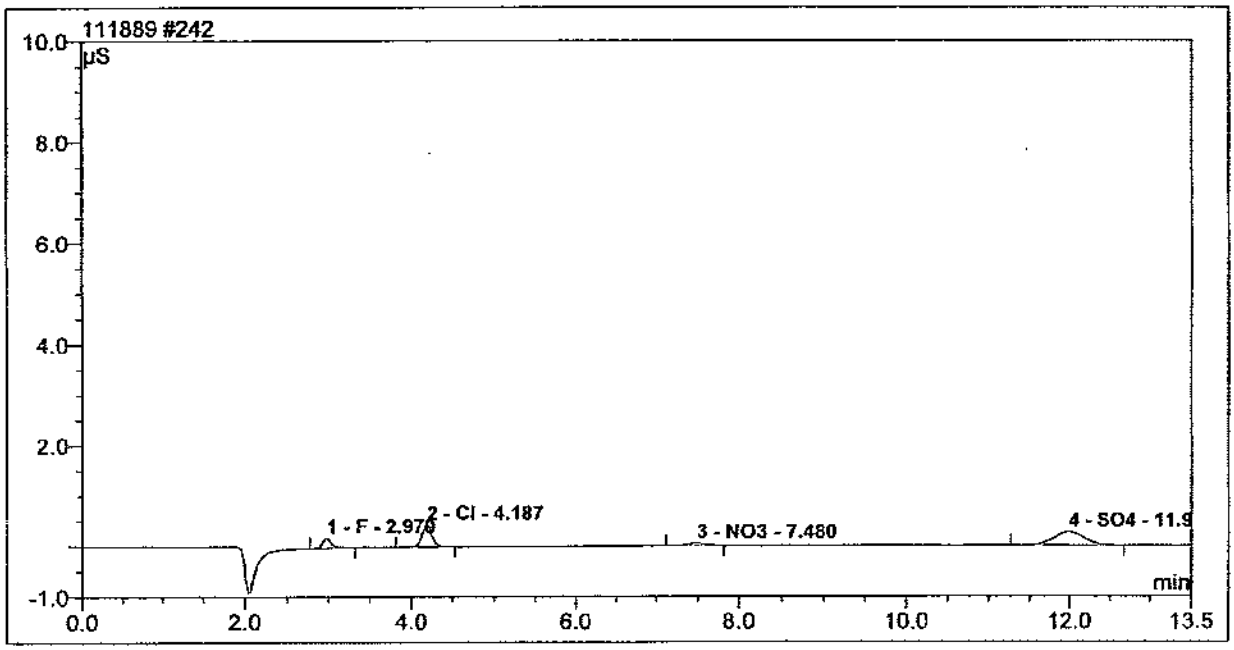
Date: JUL 11 2011

Sample Name:	**6339387**	*Instrument Number:*	**17694**
Batch No./Analyst:	**11190621201B-621**	Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/09/2011 23:34**	Schedule File Name:	**111889**
Dilution Factor:	**50**	*Channel:*	**ECD_1**
Sample Weight:	**5.01**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**242**		**AS14-028590**

FNO3

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.024	1.417147
2	Cl	4.19	0.064	4.953382
3	NO3	7.48	0.014	0.810495
4	SO4	11.99	0.124	7.725504



Reviewed/Verified By:

Date: 7/11/11

USF03 2854

Lancaster Laboratories

Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams (Ashley Adams)

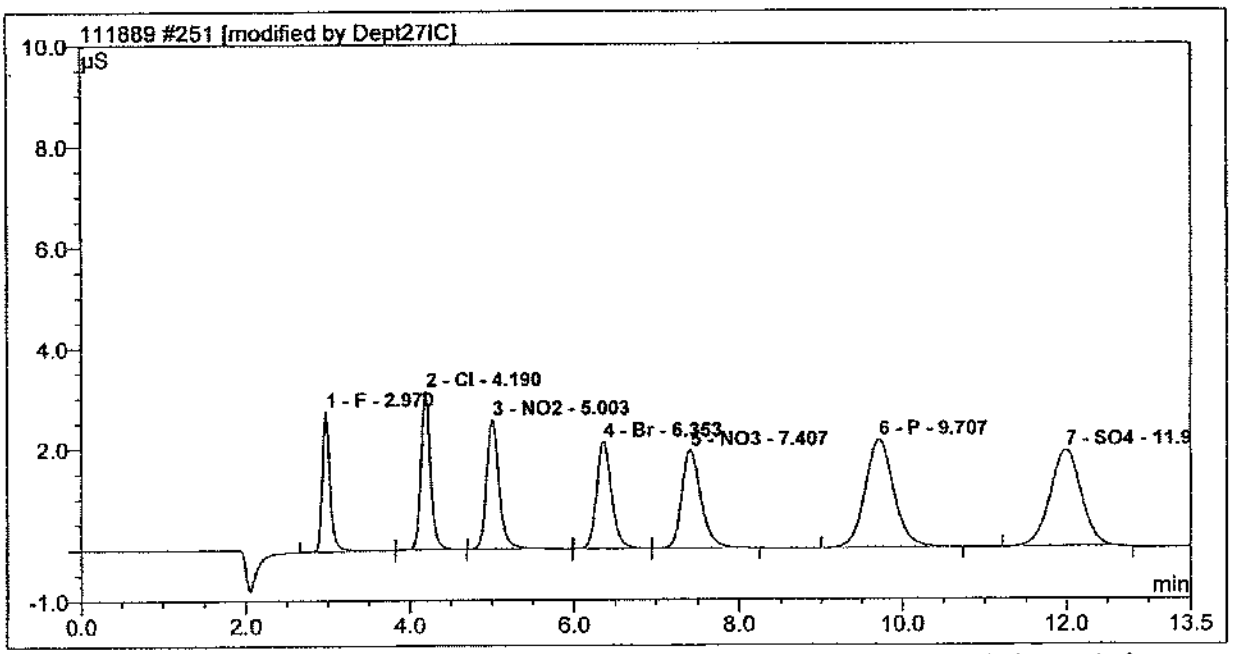
Date: JUL 11 2011

Sample Name:	**CCV2**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/10/2011 01:47**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**251**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.319	1.602536
2	Cl	4.19	0.432	3.310499
3	NO2	5.00	0.457	1.598758
4	Br	6.35	0.457	7.861805
5	NO3	7.41	0.517	1.601149
6	P	9.71	0.886	7.669595
7	SO4	11.99	0.845	8.275930

15



M=Manually Integrated

Reviewed/Verified By: [signature] 7/12/11

Date:

Analyst [signature]

approved by [signature] 7/12/11

reason straighten baseline

NSF63 2855

7/11/2011 11:55 AM

Lancaster Laboratories

Inorganic Anions by IC

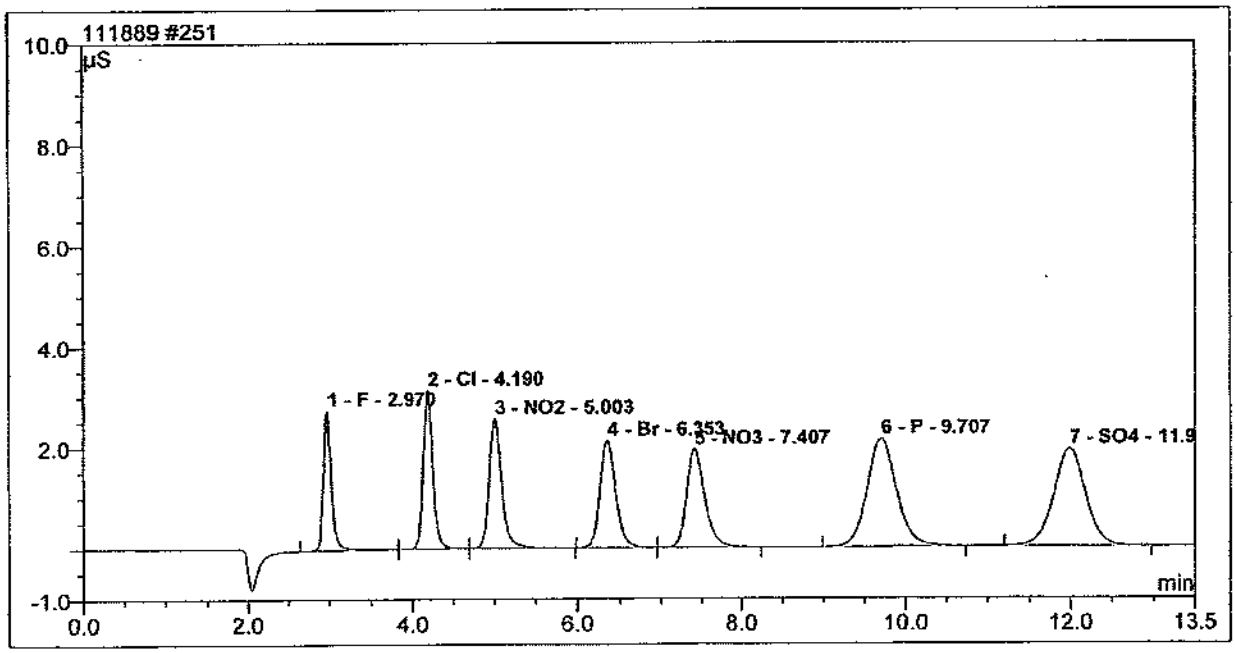
Reviewer/Enterer: Ashley Adams (Ashley Adams)

Date: JUL 11 2011

Sample Name:	**CCV2**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/10/2011 01:47**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**251**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	F	2.97	0.319	1.602536
2	Cl	4.19	0.436	3.343494
3	NO2	5.00	0.457	1.598758
4	Br	6.35	0.457	7.861805
5	NO3	7.41	0.517	1.601149
6	P	9.71	0.886	7.669595
7	SO4	11.99	0.869	8.526938



Reviewed/Verified By:

Date:

USF83 2855

Lancaster Laboratories

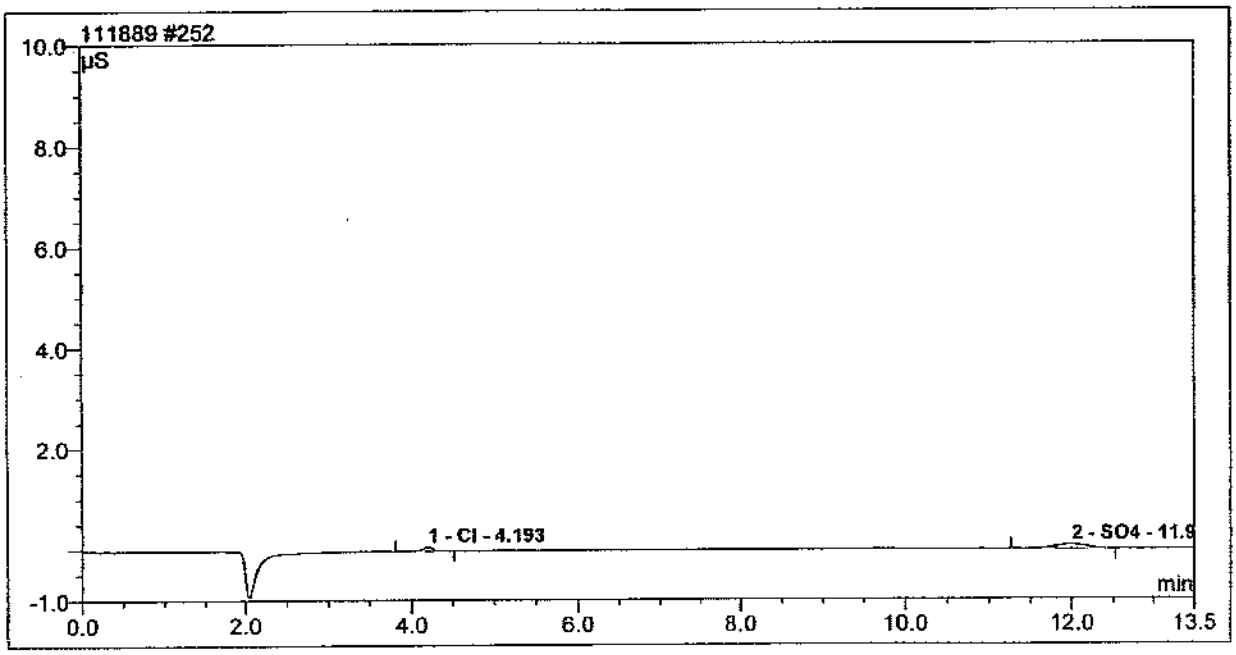
Inorganic Anions by IC

Reviewer/Enterer: Ashley Adams
Date: Ashley Adams JUL 11 2011

Sample Name:	**CCB**	*Instrument Number:*	**17694**
Batch No./Analyst:		Calibration Date:	**6/14/2011**
Date/Time Injected:	**07/10/2011 02:01**	Schedule File Name:	**111889**
Dilution Factor:	**1**	*Channel:*	**ECD_1**
Sample Weight:	**1.00**	Column Type - Ser # :	**AG14-033533**
Injection Number:	**252**		**AS14-028590**

Peak Information: All Components

No.	Peak Name	Ret.Time min	Area µS*min	Amount mg/L mg/kg
1	Cl	4.19	0.014	0.110428
2	SO4	12.00	0.040	-0.098998



Reviewed/Verified By:

Date: 7/12/11

USF83 2857

Run Name:
File Name: 11194CN1.C02
Analyst: 2373

Lancaster Laboratories
Instrument: 09106

Instrumental Water Quality Report

Analyte: Total Cyanide
Run Start Date/Time: 7/13/2011 6:35:27PM
Instrument Name: 09106

Calibration Information

Curve Information Location:
Book # 133071
Page # 26

Sample Names	Volts	Detected Result	True Result
S1	0.4035	0.01350	0.01
S2	0.4520	0.02130	0.02
S3	0.6645	0.05470	0.05
S4	0.8836	0.08930	0.1
S5	1.5702	0.19750	0.2
S6	2.5612	0.35360	0.35

Number of Calibrants: 6

Correlation Coefficient: 0.99902
Y-Intercept: -0.02080
Slope: 6.35040

QC Information

QC Names	Units	True Values	QC Ranges
ICV	mg/L	0.15	0.13 - 0.17
ICB/CCB	mg/L	0	0 - 0.18
CCV2	mg/L	0.15	0.13 - 0.17
PB Soils	mg/kg	0	0 - 0.18
PB Waters	mg/L	0	0 - 0.18
LCS Waters	mg/L	0.2	0.16 - 0.24
LCS Waters	mg/L	0.2	0.18 - 0.22
LCS Soils	mg/kg	10	8 - 12
LCS Soils	mg/kg	10	8.95 - 11.04

Analyst: 2373 Date: 7-13-11

Verifier: Date: 7/18/11

USF03 2858

Report Version 1.0.7

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
SYNC	1			7/13/2011 6:35:27PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.36960		2.6654	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
RINSE	2			7/13/2011 6:36:37PM		RCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00350		0.3402	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
SBLANK0	3			7/13/2011 6:37:47PM		WAD

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00330	0.165	0.3388	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S1	4			7/13/2011 6:38:57PM		WCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.01350	0.675	0.4035	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S2	5			7/13/2011 6:40:07PM		FCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.02130	1.065	0.4520	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S3	6			7/13/2011 6:41:17PM		WAD

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.05470	2.735	0.6645	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S4	7			7/13/2011 6:42:27PM		FCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.08930	4.465	0.8836	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S5	8			7/13/2011 6:43:36PM		WAD

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.19750	9.875	1.5702	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S6	9			7/13/2011 6:44:47PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.35360	17.680	2.5612	1.0000	50.0	1

Verified ☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
RINSE	10			7/13/2011 6:45:56PM		WAD

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00400		0.3408	1.0000	50.0	1

Verified ☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
W	11			7/13/2011 6:47:06PM		FCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00330	0.165	0.3355	1.0000	50.0	1

Verified ☐

Comments: L.B.D.L

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
ICV	12			7/13/2011 6:48:16PM		WAD

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec
0.15330		1.2826	1.0000	50.0	1	102

Verified ☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
ICB	13			7/13/2011 6:49:26PM		FCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00330	0.165	0.3233	1.0000	50.0	1

Verified ☐

Comments: L.005

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
LCS	14	Q	11193102101A	7/13/2011 6:50:36PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK
0.21480	0.215	1.6673	50.0000	50.0	1	107	0.2

Verified ☐

Comments: LCS

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
PB	15	B	11193102101A	7/13/2011 6:51:46PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00500	0.005	0.3349	50.0000	50.0	1

Verified ☐

Comments: LCS

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6336998	16		11193102101A	7/13/2011 6:52:56PM	ECG93	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00510	0.005	0.3361	50.0000	50.0	1

Verified ☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337931	41		11193102201A	7/13/2011 7:22:03PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00000	0.000	0.3164	2.0500	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6338624	42		11193102201A	7/13/2011 7:23:13PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.18940	4.688	1.5193	2.0200	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6338625	43		11193102201A	7/13/2011 7:24:23PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.19960	4.868	1.5843	2.0500	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6338983	44	U	11193102201A	7/13/2011 7:25:33PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.01080	0.262	0.3855	2.0600	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6338983	45	D	11193102201A	7/13/2011 7:26:43PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	RPD
0.00630	0.158	0.3567	2.0000	50.0	1	53

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6338983	46	R	11193102201A	7/13/2011 7:27:53PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK
0.22050	5.352	1.7173	2.0600	50.0	1	105	4.85

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6340181	47		11193102201A	7/13/2011 7:29:03PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.01770	0.438	0.4292	2.0200	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCV2	48			7/13/2011 7:30:12PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec
0.15800		1.3201	1.0000	50.0	1	105

Verified ☑

Comments:

USPS 3861

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCB 3	49			7/13/2011 7:31:22PM		ACN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00330	0.165	0.3378	1.0000	50.0	1	☐

Comments: L-005 7/18/11

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337086	50		11193102201A B	7/13/2011 7:32:32PM	DE194	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00330	0.082	0.3384	2.0200	50.0	1	☑

Comments: 7/18/11

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337087	51		11193102201A B	7/13/2011 7:33:42PM	DE194	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00340	0.083	0.3388	2.0600	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
LCS	52	Q	11193117101A	7/13/2011 7:34:52PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK	Verified
0.11690	0.117	1.0603	50.0000	50.0	1	58	0.2	☐

Comments: Analyst Decision See 106, 107

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
LCSD	53	Y	11193117101A	7/13/2011 7:36:02PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	Verified
0.20680	0.207	1.6313	50.0000	50.0	1	103% 7/18/11 (78)	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
PB	54	B	11193117101A	7/13/2011 7:37:12PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00300	0.003	0.3375	50.0000	50.0	1	☐

Comments: L-18005

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337222	55		11193117101A	7/13/2011 7:38:22PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00270	0.003	0.3356	50.0000	50.0	1	☑

Comments: Analyst Decision or failed QC Review

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6338269	56		11193117101A	7/13/2011 7:39:32PM	USF02	SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00270	0.003	0.3358	50.0000	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339388	57		11193117101A	7/13/2011 7:40:42PM	USF03	SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00250	0.003	0.3347	50.0000	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
LCS	58	Q	11187102201A	7/13/2011 7:41:51PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK
0.21090	10.545	1.6584	1.0000	50.0	1	105 (85)	10

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
LCSD	59	Y	11187102201A	7/13/2011 7:43:01PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec
0.21240	10.620	1.6688	1.0000	50.0	1	106% (85)

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCV2	60			7/13/2011 7:44:11PM		FCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec
0.15540		1.3069	1.0000	50.0	1	104

Verified ☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCB 4	61			7/13/2011 7:45:21PM		WCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00330	0.165	0.3410	1.0000	50.0	1

Verified ☐

Comments: L.005

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
PB	62	B	11187102201A	7/13/2011 7:46:31PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00210	0.053	0.3336	2.0000	50.0	1

Verified ☑

Comments: L.18

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
~~RINSE~~ MDL 7/18th	63			7/13/2011 7:47:41PM		WCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.01000	~~0.500~~ .25	0.3834	~~1.0000~~ 2.00	50.0	1

Verified ☑

Comments: MDL check 08/15 - 7/14/11

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6338249	64		11187102201A	7/13/2011 7:48:51PM	USF02	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00400	0.100	0.3452	2.0000	50.0	1

Verified ☑

Comments:

~~USF03~~ 2063

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337205	89		11192102201A	7/13/2011 8:17:58PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00500	0.124	0.3521	2.0200	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337206	90		11192102201A	7/13/2011 8:19:08PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00490	0.111	0.3519	2.2000	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337207	91		11192102201A	7/13/2011 8:20:18PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00400	0.095	0.3468	2.1000	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337208	92		11192102201A	7/13/2011 8:21:28PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00550	0.137	0.3576	2.0100	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337209	93		11192102201A	7/13/2011 8:22:38PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00460	0.115	0.3524	2.0000	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337210	94		11192102201A	7/13/2011 8:23:48PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00700	0.174	0.3686	2.0100	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337211	95		11192102201A	7/13/2011 8:24:58PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00400	0.100	0.3503	2.0000	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCV2	96			7/13/2011 8:26:08PM		FCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	Verified
0.16380		1.3656	1.0000	50.0	1	109	☐

Comments:

USF03 2564

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCB 7	97			7/13/2011 8:27:18PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00330	0.165	0.3471	1.0000	50.0	1	☐

Comments: C.005

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337212	98		11192102201A	7/13/2011 8:28:28PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00510	0.124	0.3577	2.0500	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337213	99	U	11192102201B	7/13/2011 8:29:37PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00480	0.120	0.3559	2.0000	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337214	100	R	11192102201B	7/13/2011 8:30:47PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK	Verified
0.05280	1.320	0.6599	2.0000	50.0	1	26	5	☑

Comments: ~~Analyst Decision~~ see HC 07/15/11 POS = 1037. See #83 on 7/15/11

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337216	101	D	11192102201B	7/13/2011 8:31:57PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	RPD	Verified
0.00500	0.121	0.3555	2.0700	50.0	1	4	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337220	102		11192102201B	7/13/2011 8:33:07PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.02500	~~1.250~~ .625	0.4821	~~1.0000~~ 2.00	50.0	1	☑

Comments: KF 7/14/11

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337221	103		11192102201B	7/13/2011 8:34:17PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00550	0.135	0.3577	2.0300	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337819	104		11193102101B	7/13/2011 8:35:27PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.26630	1.065	2.0134	25.0000	50.0	2	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6338760	105		11193102101B	7/13/2011 8:36:37PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00880	0.009	0.3776	50.0000	50.0	1	☐

Comments: RT1

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
LCS	106	Q	11193117101A	7/13/2011 8:37:47PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK	Verified
0.21760	0.218	1.7033	50.0000	50.0	1	109	0.2	☑

Comments: CS

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
LCS	107	Q	11193117101A	7/13/2011 8:38:57PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK	Verified
0.21730	0.217	1.7008	50.0000	50.0	1	109	0.2	☐

Comments: Analyst Decision CS conf 106

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCV2	108			7/13/2011 8:40:06PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	Verified
0.16130		1.3447	1.0000	50.0	1	108	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCB 8	109			7/13/2011 8:41:16PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00330	0.165	0.3404	1.0000	50.0	1	☐

Comments: L.005

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6337214	110	R	11192102201B	7/13/2011 8:42:26PM	USF01	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK	Verified
0.05060	1.265	0.6428	2.0000	50.0	1	25	5	☐

Comments: CS See 110

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCV2	111			7/13/2011 8:43:36PM		RCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	Verified
0.16090		1.3445	1.0000	50.0	1	107	☐

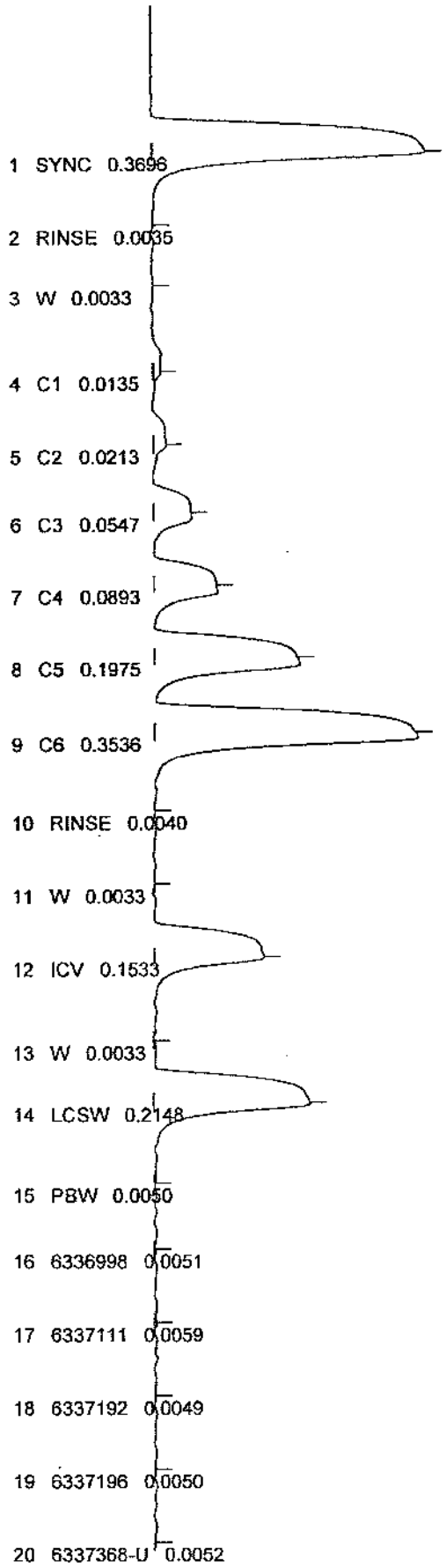
Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCB 9	112			7/13/2011 8:44:46PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00330	0.165	0.3452	1.0000	50.0	1	☐

Comments: L.005

USF03 2066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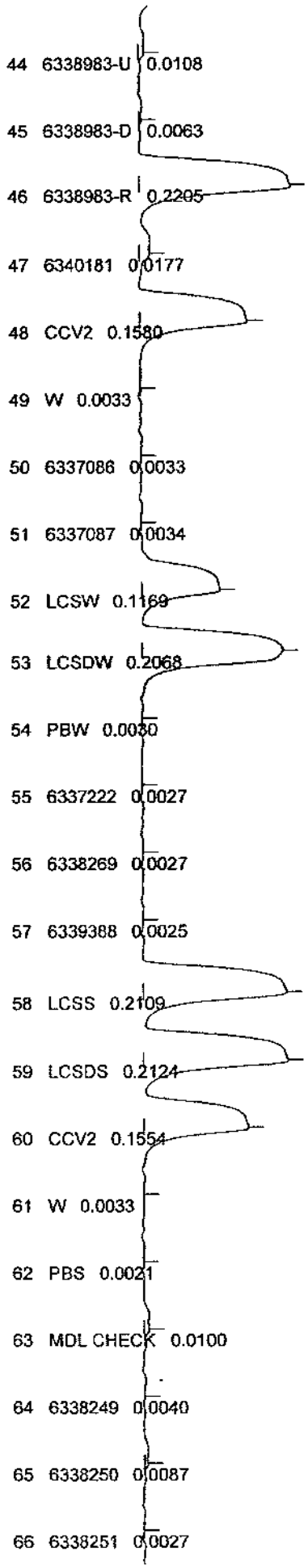
2 RINSE 0.0035
3 W 0.0033
4 C1 0.0135
5 C2 0.0213
6 C3 0.0547
7 C4 0.0893
8 C5 0.1975
9 C6 0.3536
10 RINSE 0.0040
11 W 0.0033
12 ICV 0.1533
13 W 0.0033
14 LCSW 0.2148
15 PBW 0.0050
16 6336998 0.0051
17 6337111 0.0059
18 6337192 0.0049
19 6337196 0.0050
20 6337368-U 0.0052


44 6338983-U 0.0108
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46 6338983-R 0.2205
47 6340181 0.0177
48 CCV2 0.1580
49 W 0.0033
50 6337086 0.0033
51 6337087 0.0034
52 LCSW 0.1169
53 LCSDW 0.2068
54 PBW 0.0030
55 6337222 0.0027
56 6338269 0.0027
57 6339388 0.0025
58 LCSS 0.2109
59 LCSDS 0.2124
60 CCV2 0.1554
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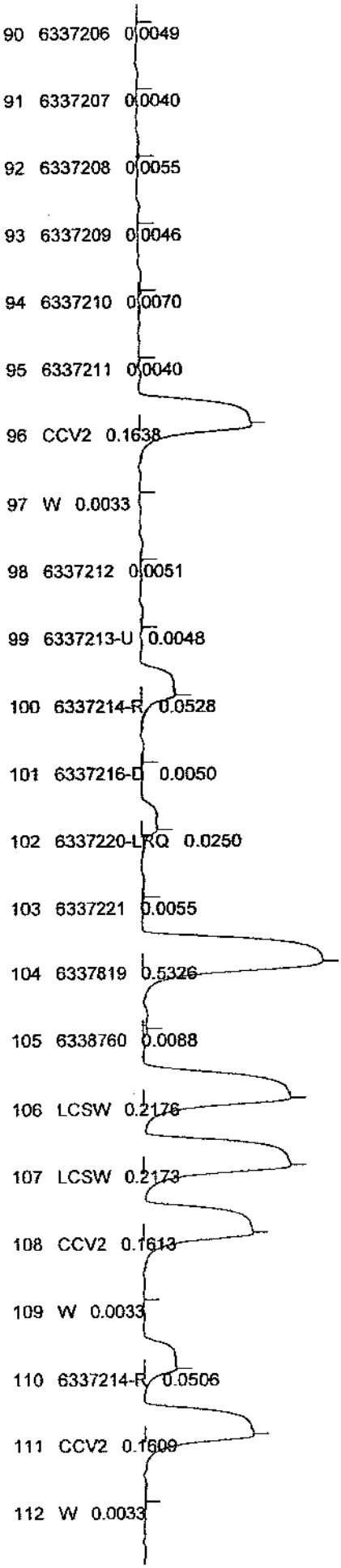
62 PBS 0.0021
63 MDL CHECK 0.0100
64 6338249 0.0040
65 6338250 0.0087
66 6338251 0.0027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92 6337208 0.0055
93 6337209 0.0046
94 6337210 0.0070
95 6337211 0.0040
96 CCV2 0.1638
97 W 0.0033
98 6337212 0.0051
99 6337213-U 0.0048
100 6337214-R 0.0528
101 6337216-D 0.0050
102 6337220-LRQ 0.0250
103 6337221 0.0055
104 6337819 0.5326
105 6338760 0.0088
106 LCSW 0.2176
107 LCSW 0.2173
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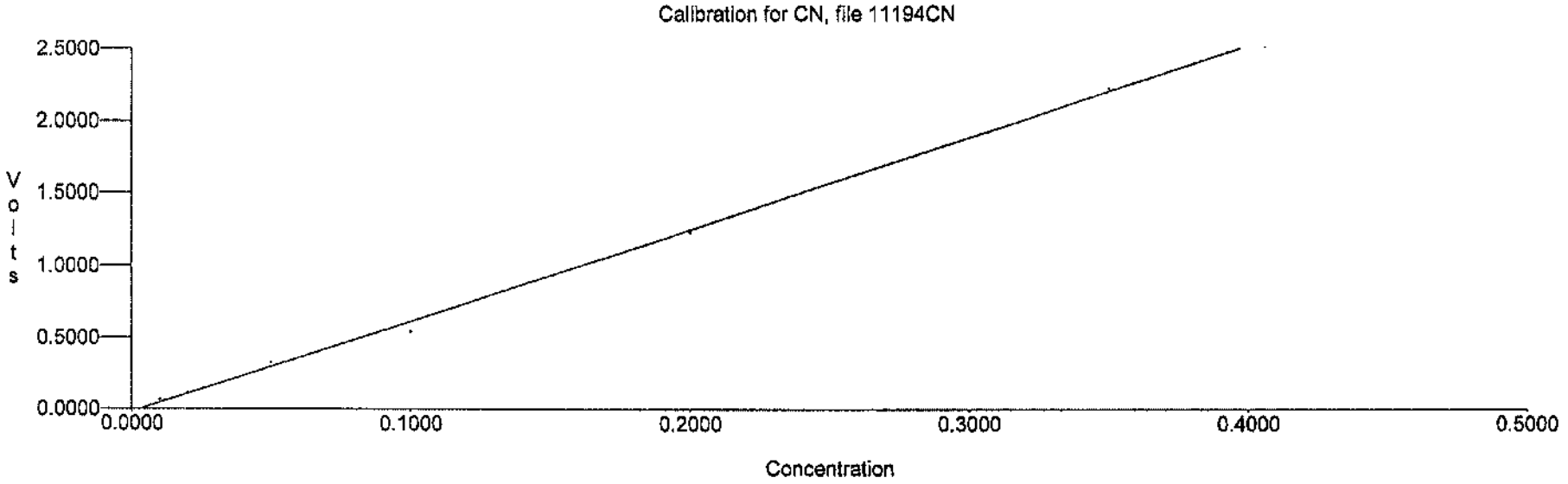
109 W 0.0033
110 6337214-R 0.0506
111 CCV2 0.1609
112 W 0.0033

USF03 2869



1st Order Y=BX+A
B=6.3504 A=-0.0208
Correlation=0.999022

84257 E0158

Run Name:
File Name: 11195CN.C01
Analyst: 0658

Lancaster Laboratories
Instrument: 09037

Instrumental Water Quality Report

Analyte: Total Cyanide
Run Start Date/Time: 7/14/2011 2:50:05PM
Instrument Name: 09037

Calibration Information

Curve Information Location:
Book # 133071
Page # 27

Sample Names	Volts	Detected Result	True Result
S1	0.4032	0.00950	0.01
S2	0.4662	0.01940	0.02
S3	0.6617	0.04980	0.05
S4	0.9861	0.10040	0.1
S5	1.6395	0.20220	0.2
S6	2.5795	0.34870	0.35

Number of Calibrants: 6

Correlation Coefficient: 0.99996
Y-Intercept: 0.00580
Slope: 6.41960

QC Information

QC Names	Units	True Values	QC Ranges
ICV	mg/L	0.15	0.13 - 0.17
ICB/CCB	mg/L	0	0 - 0.18
CCV2	mg/L	0.15	0.13 - 0.17
PB Soils	mg/kg	0	0 - 0.18
PB Waters	mg/L	0	0 - 0.18
LCS Waters	mg/L	0.2	0.16 - 0.24
LCS Waters	mg/L	0.2	0.18 - 0.22
LCS Soils	mg/kg	10	8 - 12
LCS Soils	mg/kg	10	8.95 - 11.04
LCS Soils	mg/kg	1000	765 - 1,134

Analyst: [signature] Date: 7.14.11

Verifier: [signature] Date: 7/18/11

USF83 2871

Report Version 1.0.7

Run Name:
File Name: 11195CN.C01
Analyst: 0658

Lancaster Laboratories
Instrument: 09037

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
SYNC	1			7/14/2011 2:50:05PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.34870		2.5811	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
RINSE	2			7/14/2011 2:51:14PM		WCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00150		0.3519	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
SBLANK0	3			7/14/2011 2:52:24PM		WAD

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
-0.00090	-0.045	0.3368	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S1	4			7/14/2011 2:53:34PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00950	0.475	0.4032	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S2	5			7/14/2011 2:54:44PM		WAD

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.01940	0.970	0.4662	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S3	6			7/14/2011 2:55:54PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.04980	2.490	0.6617	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S4	7			7/14/2011 2:57:03PM		FCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.10040	5.020	0.9861	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S5	8			7/14/2011 2:58:13PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.20220	10.110	1.6395	1.0000	50.0	1	☐

Comments:

USP83 3872

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
S6	9			7/14/2011 2:59:23PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.34870	17.435	2.5795	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
RINSE	10			7/14/2011 3:00:33PM		WCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00120		0.3486	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
W	11			7/14/2011 3:01:43PM		FCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
-0.00090	-0.045	0.3347	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
ICV	12			7/14/2011 3:02:53PM		WAD

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	Verified
0.14800		1.2937	1.0000	50.0	1	99	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
ICB	13			7/14/2011 3:04:03PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
-0.00090	-0.045	0.3404	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
LCS	14	Q	11194102201A	7/14/2011 3:05:13PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK	Verified
0.21470	10.735	1.7248	1.0000	50.0	1	107	10	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
LCSD	15	Y	11194102201A	7/14/2011 3:06:23PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK	Verified
0.21890	10.945	1.7515	1.0000	50.0	1	109	10.90 / 10	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
PB	16	B	11194102201A	7/14/2011 3:07:33PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00100	0.025	0.3532	2.0000	50.0	1	☑

Comments: < .10

USEPA 2073

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339368	17		11194102201A	7/14/2011 3:08:42PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00210	0.052	0.3602	2.0300	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339369	18		11194102201A	7/14/2011 3:09:52PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00230	0.057	0.3623	2.0300	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339370	19		11194102201A	7/14/2011 3:11:02PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00210	0.049	0.3608	2.1400	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339371	20		11194102201A	7/14/2011 3:12:12PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00310	0.076	0.3680	2.0300	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339372	21		11194102201A	7/14/2011 3:13:22PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00210	0.050	0.3614	2.0800	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339373	22		11194102201A	7/14/2011 3:14:32PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00160	0.039	0.3588	2.0300	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339374	23		11194102201A	7/14/2011 3:15:42PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00280	0.066	0.3663	2.1200	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCV2	24			7/14/2011 3:16:52PM		ACN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	Verified
0.15870		1.3673	1.0000	50.0	1	106	☐

Comments:

USF03 2974

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCB 1	25			7/14/2011 3:18:02PM		ACN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
-0.00090	-0.045	0.3431	1.0000	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339375	26		11194102201A	7/14/2011 3:19:12PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00160	0.040	0.3587	2.0000	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339376	27		11194102201A	7/14/2011 3:20:22PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00040	0.010	0.3510	2.0600	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339377	28	U	11194102201A	7/14/2011 3:21:31PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00120	0.029	0.3562	2.0800	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339378	29	R	11194102201A	7/14/2011 3:22:41PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK
0.22520	5.493	1.7935	2.0500	50.0	1	113	4.88

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339380	30	D	11194102201A	7/14/2011 3:23:51PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	RPD
0.00250	0.060	0.3642	2.0700	50.0	1	70

Verified ☑

Comments: R=D Replicate Detected

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339384	31		11194102201A	7/14/2011 3:25:01PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.02250	0.563	0.4917	2.0000	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339385	32		11194102201B	7/14/2011 3:26:11PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF
0.00250	0.061	0.3632	2.0500	50.0	1

Verified ☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339386	33	U	11194102201B	7/14/2011 3:27:21PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00070	0.017	0.3516	2.1000	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339386	34	D	11194102201B	7/14/2011 3:28:31PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	RPD	Verified
0.00060	0.015	0.3509	2.0000	50.0	1	15	☑

Comments: R=D Pass Deleted

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339386	35	R	11194102201B	7/14/2011 3:29:41PM		TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	SPK	Verified
0.22490	5.567	1.7907	2.0200	50.0	1	112	4.95	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCV2	36			7/14/2011 3:30:51PM		RCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	Verified
0.15400		1.3349	1.0000	50.0	1	103	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCB 2	37			7/14/2011 3:32:00PM		WAD

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
-0.00090	-0.045	0.3405	1.0000	50.0	1	☐

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
6339387	38		11194102201B	7/14/2011 3:33:10PM	USF03	TCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
0.00020	0.005	0.3475	2.0300	50.0	1	☑

Comments:

Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCV2	39			7/14/2011 3:34:20PM		SCN

Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	%Rec	Verified
0.15130		1.3175	1.0000	50.0	1	101	☐

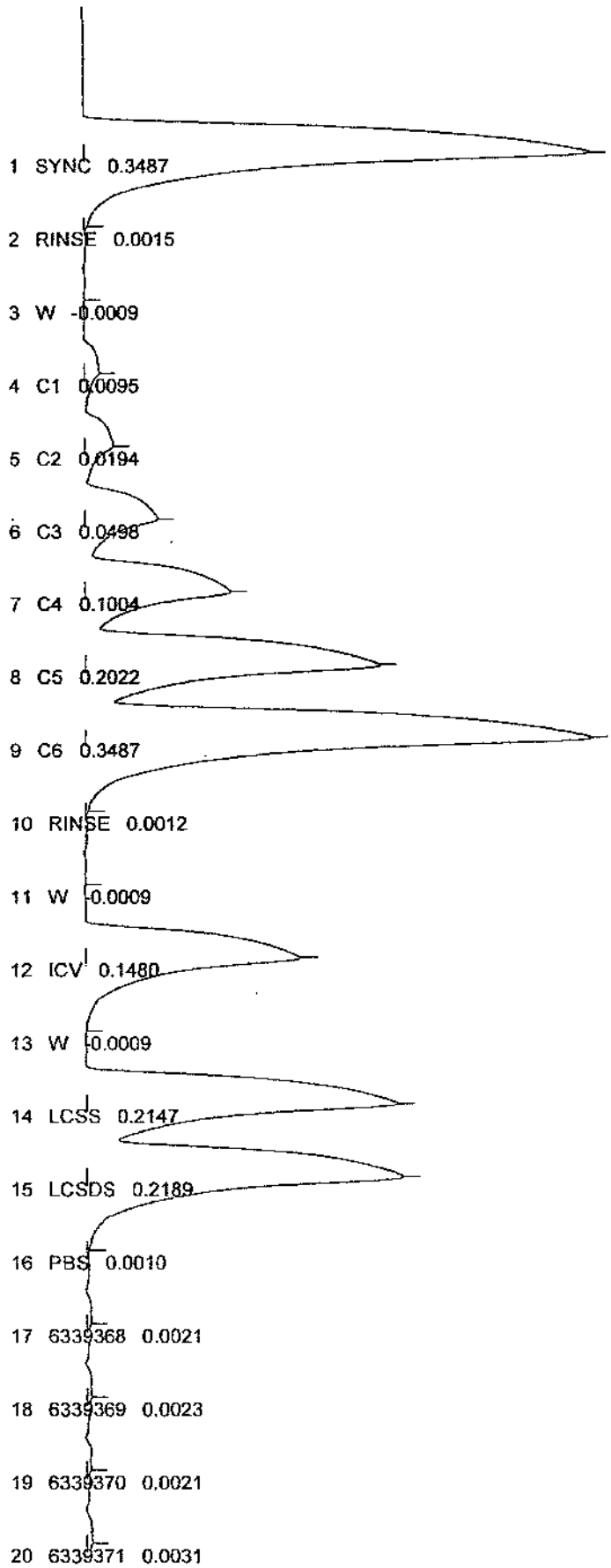
Comments:

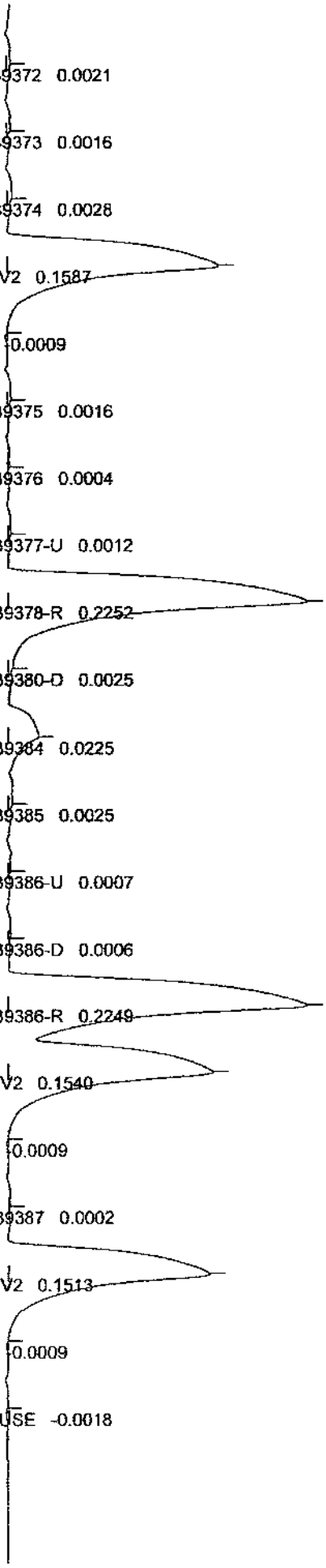
Sample	Cup	QC?	Batch Number	Analysis Date/Time	SDG	Analyte
CCB 3	40			7/14/2011 3:35:30PM		TCN

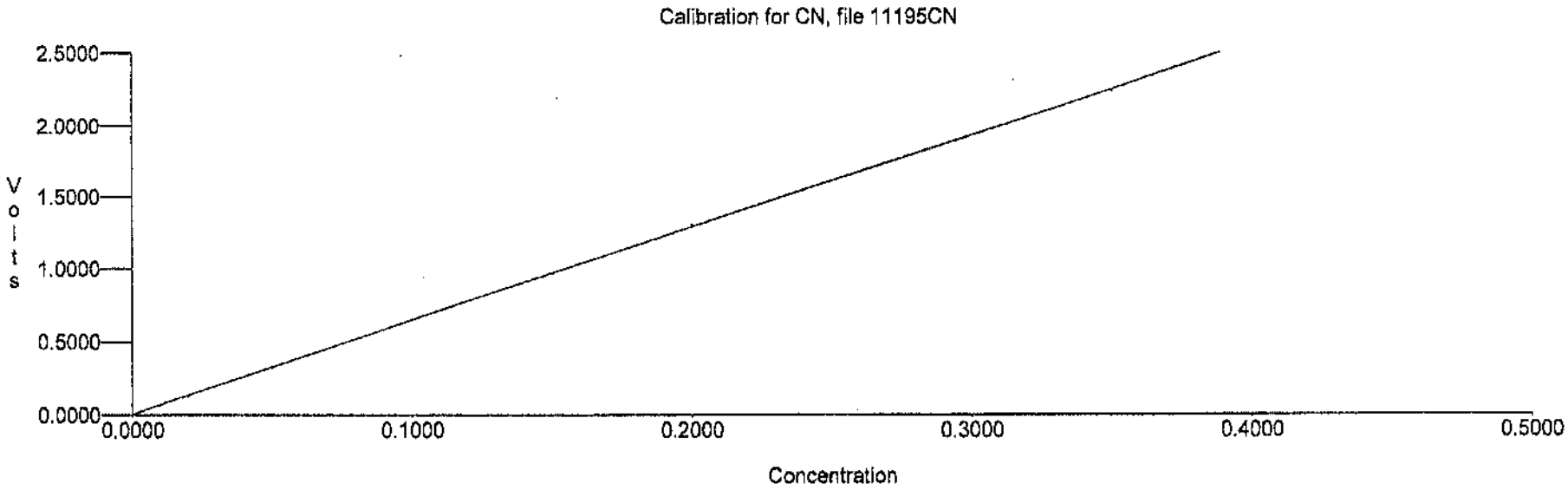
Raw Result	Calc Result	Volts	Init Vol	Fin Vol	DF	Verified
-0.00090	-0.045	0.3410	1.0000	50.0	1	☐

Comments:

USPS 2976


1 SYNC 0.3487
2 RINSE 0.0015
3 W -0.0009
4 C1 0.0095
5 C2 0.0194
6 C3 0.0498
7 C4 0.1004
8 C5 0.2022
9 C6 0.3487
10 RINSE 0.0012
11 W -0.0009
12 ICV 0.1480
13 W -0.0009
14 LCSS 0.2147
15 LCSDS 0.2189
16 PBS 0.0010
17 6339368 0.0021
18 6339369 0.0023
19 6339370 0.0021
20 6339371 0.0031


21 6339372 0.0021
22 6339373 0.0016
23 6339374 0.0028
24 CCV2 0.1587
25 W 0.0009
26 6339375 0.0016
27 6339376 0.0004
28 6339377-U 0.0012
29 6339378-R 0.2252
30 6339380-D 0.0025
31 6339384 0.0225
32 6339385 0.0025
33 6339386-U 0.0007
34 6339386-D 0.0006
35 6339386-R 0.2249
36 CCV2 0.1540
37 W 0.0009
38 6339387 0.0002
39 CCV2 0.1513
40 W 0.0009
41 PAUSE -0.0018



1st Order Y=BX+A
B=6.4196 A=0.0058
Correlation=0.999956

CASE 53454

Lancaster Laboratories

Where quality is a science.

Determination of Hexavalent Chromium (Cr^{+6})

Instrument Name: ICS-3000 Date of Analysis: 7/9/11

Instrument ID: 16539 Analyst: 2819

QC Stock Book/Page #: 115011/ 40 Run Name: 110904

ICV/CCV/LCSW Book/Page #: 116474/ 48 49

	Cr^{+6} True Value (µg/L)	Range (µg/L)
ICV	50	45 – 55
CCV	200	180 – 220
LCSW	100	90 – 110
LCSS	5.0 (mg/kg)	3.98 – 6.02 (mg/kg)

PBW/CCB (µg/L): < 10
PBS (mg/kg): < 1.0

Calibration Information:

Calibration Type: Linear by Area ($r > 0.999$)
Number of Calibrants: 5

Calibration Stock Book/Page: 115011/ 40

Standards Book/Page #: 116474/ 49

Standards	Concentration (µg/L)
Std. 1	10
Std. 2	50
Std. 3	100
Std. 4	200
Std. 5	300

Color Reagent Book/Page: 129956/ 13

Eluent Stock Book/Page #: 129956/13

COMMENTS:

Verified By: [signature] Date: 7/18/11

USF83 2998

Title: IQ Test
Datasource: EX09294_local
Location: _ICS3000\Sequence
Timebase: _ICS3000
#Samples: 68
Created: 7/9/2011 7:15:21 AM by Dept27IC
Last Update: 7/11/2011 8:14:04 AM by Dept27IC

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	Cal 0	1.0000	1.0000		01	
2	Cal 1	1.0000	1.0000		01	
3	Cal 2	1.0000	1.0000		01	
4	Cal 3	1.0000	1.0000		01	
5	Cal 4	1.0000	1.0000		01	
6	Cal 5	1.0000	1.0000		01	
7	ICV	1.0000	1.0000		01	
8	ICB	1.0000	1.0000		01	
9	PBW	1.0000	1.0000		01	11190281401A-2819
10	PBW	1.0000	1.0000		01	11190281401A-2819
11	LCSW	1.0000	1.0000		01	11190281401A-2819
12	LCSW	1.0000	1.0000		01	11190281401A-2819
13	LCSDW	1.0000	1.0000		01	11190281401A-2819
14	LCSDW	1.0000	1.0000		01	11190281401A-2819
15	CCV	1.0000	1.0000		01	
16	CCB	1.0000	1.0000		01	
17	6336674	1.0000	1.0000		01	11188281401A-2819
18	6336674	1.0000	1.0000		01	11188281401A-2819
19	6336680	500.0000	1.0000		01	11188281401A-2819
20	6336680	500.0000	1.0000		01	11188281401A-2819
21	6336682	500.0000	1.0000		01	11188281401A-2819
22	6336682	500.0000	1.0000		01	11188281401A-2819
23	CCV	1.0000	1.0000		01	
24	CCB	1.0000	1.0000		01	
25	6339531	1.0000	1.0000		01	11190281401A-2819
26	6339531	1.0000	1.0000		01	11190281401A-2819
27	6339537	1.0000	1.0000		01	11190281401A-2819
28	6339537	1.0000	1.0000		01	11190281401A-2819
29	6339539	1.0000	1.0000		01	11190281401A-2819
30	6339539	1.0000	1.0000		01	11190281401A-2819
31	6339541-U	1.0000	1.0000		01	11190281401A-2819
32	6339541-U	1.0000	1.0000		01	11190281401A-2819
33	6339541-D	1.0000	1.0000		01	11190281401A-2819
34	6339541-D	1.0000	1.0000		01	11190281401A-2819
35	6339541-R	1.0000	1.0000		01	11190281401A-2819
36	6339541-R	1.0000	1.0000		01	11190281401A-2819
37	6339545	1.0000	1.0000		01	11190281401A-2819
38	6339545	1.0000	1.0000		01	11190281401A-2819
39	6339388	1.0000	1.0000		01	11190281401A-2819
40	6339388	1.0000	1.0000		01	11190281401A-2819
41	6339500	5000.0000	1.0000		01	11190281401A-2819
42	6339500	5000.0000	1.0000		01	11190281401A-2819

USP63 2891

Title: IQ Test
Datasource: EX09294_local
Location: _ICS3000\Sequence
Timebase: _ICS3000
#Samples: 68

Created: 7/9/2011 7:15:21 AM by Dept27IC
Last Update: 7/11/2011 8:14:04 AM by Dept27IC

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
43	6339549	1.0000	1.0000		01	11190281401A-2819
44	6339549	1.0000	1.0000		01	11190281401A-2819
45	CCV	1.0000	1.0000		01	
46	CCB	1.0000	1.0000		01	
47	6335904	1.0000	1.0000		01	11190281401B-2819
48	6335904	1.0000	1.0000		01	11190281401B-2819
49	6339553	1.0000	1.0000		01	11190281401B-2819
50	6339553	1.0000	1.0000		01	11190281401B-2819
51	6339551-U	1.0000	1.0000		01	11190281401B-2819
52	6339551-U	1.0000	1.0000		01	11190281401B-2819
53	6339551-D	1.0000	1.0000		01	11190281401B-2819
54	6339551-D	1.0000	1.0000		01	11190281401B-2819
55	6339551-R	1.0000	1.0000		01	11190281401B-2819
56	6339551-R	1.0000	1.0000		01	11190281401B-2819
57	6339557	1.0000	1.0000		01	11190281401B-2819
58	6339557	1.0000	1.0000		01	11190281401B-2819
59	6339563	1.0000	1.0000		01	11190281401B-2819
60	6339563	1.0000	1.0000		01	11190281401B-2819
61	6339565	1.0000	1.0000		01	11190281401B-2819
62	6339565	1.0000	1.0000		01	11190281401B-2819
63	6339567	1.0000	1.0000		01	11190281401B-2819
64	6339567	1.0000	1.0000		01	11190281401B-2819
65	6339569	1.0000	1.0000		01	11190281401B-2819
66	6339569	1.0000	1.0000		01	11190281401B-2819
67	CCV	1.0000	1.0000		01	
68	CCB	1.0000	1.0000		01	

Chromeleon © Dionex Corporation, Version 6.80 SP2 Build 2284

Sequence: 111904
Operator: Dept27IC
Printed: 7/11/2011 8:15:56 AM

Title: IQ Test
Datasource: EX09294_local
Location: _ICS3000\Sequence
Timebase: _ICS3000
#Samples: 68

Created: 7/9/2011 7:15:21 AM by Dept27IC
Last Update: 7/11/2011 8:14:04 AM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
1	Cal 0	Standard	1	40.0	HEXTest	HEXTest	Finished	7/9/2011 7:22:31 AM	1.0000
2	Cal 1	Standard	2	40.0	HEXTest	HEXTest	Finished	7/9/2011 7:29:13 AM	1.0000
3	Cal 2	Standard	3	40.0	HEXTest	HEXTest	Finished	7/9/2011 7:35:55 AM	1.0000
4	Cal 3	Standard	4	40.0	HEXTest	HEXTest	Finished	7/9/2011 7:42:38 AM	1.0000
5	Cal 4	Standard	5	40.0	HEXTest	HEXTest	Finished	7/9/2011 7:49:20 AM	1.0000
6	Cal 5	Standard	6	40.0	HEXTest	HEXTest	Finished	7/9/2011 7:56:02 AM	1.0000
7	ICV	Unknown	7	40.0	HEXTest	HEXTest	Finished	7/9/2011 8:02:45 AM	1.0000
8	ICB	Unknown	8	40.0	HEXTest	HEXTest	Finished	7/9/2011 8:09:27 AM	1.0000
9	PBW	Unknown	9	40.0	HEXTest	HEXTest	Finished	7/9/2011 8:16:10 AM	1.0000
10	PBW	Unknown	9	40.0	HEXTest	HEXTest	Finished	7/9/2011 8:22:53 AM	1.0000
11	LCSW	Unknown	10	40.0	HEXTest	HEXTest	Finished	7/9/2011 8:29:36 AM	1.0000
12	LCSW	Unknown	10	40.0	HEXTest	HEXTest	Finished	7/9/2011 8:36:18 AM	1.0000
13	LCSDW	Unknown	11	40.0	HEXTest	HEXTest	Finished	7/9/2011 8:43:01 AM	1.0000
14	LCSDW	Unknown	11	40.0	HEXTest	HEXTest	Finished	7/9/2011 8:49:43 AM	1.0000
15	CCV	Unknown	91	40.0	HEXTest	HEXTest	Finished	7/9/2011 8:56:26 AM	1.0000
16	CCB	Unknown	100	40.0	HEXTest	HEXTest	Finished	7/9/2011 9:03:08 AM	1.0000
17	6336674	Unknown	12	40.0	HEXTest	HEXTest	Finished	7/9/2011 9:20:41 AM	1.0000
18	6336674	Unknown	12	40.0	HEXTest	HEXTest	Finished	7/9/2011 9:27:23 AM	1.0000
19	6336680	Unknown	13	40.0	HEXTest	HEXTest	Finished	7/9/2011 9:34:05 AM	1.0000
20	6336680	Unknown	13	40.0	HEXTest	HEXTest	Finished	7/9/2011 9:40:48 AM	1.0000
21	6336682	Unknown	14	40.0	HEXTest	HEXTest	Finished	7/9/2011 9:47:30 AM	1.0000
22	6336682	Unknown	14	40.0	HEXTest	HEXTest	Finished	7/9/2011 9:54:13 AM	1.0000
23	CCV	Unknown	91	40.0	HEXTest	HEXTest	Finished	7/9/2011 10:00:55 AM	1.0000
24	CCB	Unknown	100	40.0	HEXTest	HEXTest	Finished	7/9/2011 10:07:37 AM	1.0000
25	6339531	Unknown	15	40.0	HEXTest	HEXTest	Finished	7/9/2011 10:14:20 AM	1.0000
26	6339531	Unknown	15	40.0	HEXTest	HEXTest	Finished	7/9/2011 10:21:04 AM	1.0000
27	6339537	Unknown	16	40.0	HEXTest	HEXTest	Finished	7/9/2011 10:27:46 AM	1.0000
28	6339537	Unknown	16	40.0	HEXTest	HEXTest	Finished	7/9/2011 10:34:29 AM	1.0000
29	6339539	Unknown	17	40.0	HEXTest	HEXTest	Finished	7/9/2011 10:41:12 AM	1.0000
30	6339539	Unknown	17	40.0	HEXTest	HEXTest	Finished	7/9/2011 10:47:54 AM	1.0000
31	6339541-U	Unknown	18	40.0	HEXTest	HEXTest	Finished	7/9/2011 10:54:37 AM	1.0000
32	6339541-U	Unknown	18	40.0	HEXTest	HEXTest	Finished	7/9/2011 11:01:19 AM	1.0000
33	6339541-D	Unknown	18	40.0	HEXTest	HEXTest	Finished	7/9/2011 11:08:02 AM	1.0000
34	6339541-D	Unknown	18	40.0	HEXTest	HEXTest	Finished	7/9/2011 11:14:45 AM	1.0000
35	6339541-R	Unknown	20	40.0	HEXTest	HEXTest	Finished	7/9/2011 11:21:27 AM	1.0000
36	6339541-R	Unknown	20	40.0	HEXTest	HEXTest	Finished	7/9/2011 11:28:10 AM	1.0000
37	6339545	Unknown	21	40.0	HEXTest	HEXTest	Finished	7/9/2011 11:34:53 AM	1.0000
38	6339545	Unknown	21	40.0	HEXTest	HEXTest	Finished	7/9/2011 11:41:35 AM	1.0000
39	6339388	Unknown	22	40.0	HEXTest	HEXTest	Finished	7/9/2011 11:48:17 AM	1.0000
40	6339388	Unknown	22	40.0	HEXTest	HEXTest	Finished	7/9/2011 11:55:00 AM	1.0000
41	6339500	Unknown	23	40.0	HEXTest	HEXTest	Finished	7/9/2011 12:01:42 PM	1.0000
42	6339500	Unknown	23	40.0	HEXTest	HEXTest	Finished	7/9/2011 12:08:25 PM	1.0000

USF93 2893

Sequence: 111904
Operator: Dept27IC
Printed: 7/11/2011 8:15:57 AM

Title: IQ Test
Datasource: EX09294_local
Location: _ICS3000\Sequence
Timebase: _ICS3000
#Samples: 68

Created: 7/9/2011 7:15:21 AM by Dept27IC
Last Update: 7/11/2011 8:14:04 AM by Dept27IC

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
43	6339549	Unknown	24	40.0	HEXTest	HEXTest	Finished	7/9/2011 12:15:08 PM	1.0000
44	6339549	Unknown	24	40.0	HEXTest	HEXTest	Finished	7/9/2011 12:21:51 PM	1.0000
45	CCV	Unknown	91	40.0	HEXTest	HEXTest	Finished	7/9/2011 12:28:33 PM	1.0000
46	CCB	Unknown	100	40.0	HEXTest	HEXTest	Finished	7/9/2011 12:35:16 PM	1.0000
47	6335904	Unknown	34	40.0	HEXTest	HEXTest	Finished	7/9/2011 12:41:59 PM	1.0000
48	6335904	Unknown	34	40.0	HEXTest	HEXTest	Finished	7/9/2011 12:48:42 PM	1.0000
49	6339553	Unknown	28	40.0	HEXTest	HEXTest	Finished	7/9/2011 12:55:24 PM	1.0000
50	6339553	Unknown	28	40.0	HEXTest	HEXTest	Finished	7/9/2011 1:02:07 PM	1.0000
51	6339551-U	Unknown	25	40.0	HEXTest	HEXTest	Finished	7/9/2011 1:08:50 PM	1.0000
52	6339551-U	Unknown	25	40.0	HEXTest	HEXTest	Finished	7/9/2011 1:15:32 PM	1.0000
53	6339551-D	Unknown	25	40.0	HEXTest	HEXTest	Finished	7/9/2011 1:22:15 PM	1.0000
54	6339551-D	Unknown	25	40.0	HEXTest	HEXTest	Finished	7/9/2011 1:28:57 PM	1.0000
55	6339551-R	Unknown	27	40.0	HEXTest	HEXTest	Finished	7/9/2011 1:35:40 PM	1.0000
56	6339551-R	Unknown	27	40.0	HEXTest	HEXTest	Finished	7/9/2011 1:42:23 PM	1.0000
57	6339557	Unknown	29	40.0	HEXTest	HEXTest	Finished	7/9/2011 1:49:06 PM	1.0000
58	6339557	Unknown	29	40.0	HEXTest	HEXTest	Finished	7/9/2011 1:55:48 PM	1.0000
59	6339563	Unknown	30	40.0	HEXTest	HEXTest	Finished	7/9/2011 2:02:31 PM	1.0000
60	6339563	Unknown	30	40.0	HEXTest	HEXTest	Finished	7/9/2011 2:09:14 PM	1.0000
61	6339565	Unknown	31	40.0	HEXTest	HEXTest	Finished	7/9/2011 2:15:57 PM	1.0000
62	6339565	Unknown	31	40.0	HEXTest	HEXTest	Finished	7/9/2011 2:22:39 PM	1.0000
63	6339567	Unknown	32	40.0	HEXTest	HEXTest	Finished	7/9/2011 2:29:21 PM	1.0000
64	6339567	Unknown	32	40.0	HEXTest	HEXTest	Finished	7/9/2011 2:36:04 PM	1.0000
65	6339569	Unknown	33	40.0	HEXTest	HEXTest	Finished	7/9/2011 2:42:46 PM	1.0000
66	6339569	Unknown	33	40.0	HEXTest	HEXTest	Finished	7/9/2011 2:49:28 PM	1.0000
67	CCV	Unknown	91	40.0	HEXTest	HEXTest	Finished	7/9/2011 2:56:10 PM	1.0000
68	CCB	Unknown	100	40.0	HEXTest	HEXTest	Finished	7/9/2011 3:02:53 PM	1.0000

USP&S 2884

Method File: HEXTest
Operator: Dept27IC

Title:
Datasource: EX09294_local
Location: _ICS3000\Sequence\111904.SEQ

Created: 9/12/2008 9:52:21 AM by Dept27IC
Last Update: 6/21/2011 1:25:35 PM by Dept27IC

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Tailing Sensitivity Factor	2.5	All Channels
2	0.000	Inhibit Integration	On	All Channels
3	0.010	Minimum Area	0.05 "[Signal]*min"	All Channels
4	4.000	Inhibit Integration	Off	All Channels
5	4.000	Valley to Valley	On	All Channels
6	4.000	Valley to Valley	Off	All Channels

USP83 2885

Method File: HEXTest
Operator: Dept27IC

Title:
Datasource: EX09294_local
Location: _ICS3000\Sequence\111904.SEQ

Created: 9/12/2008 9:52:21 AM by Dept27IC
Last Update: 6/21/2011 1:25:35 PM by Dept27IC

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment
1	Hexavalent Chrom	5.070 min	0.500 AG	External	Area	LOff	Auto		

USF63 2886

Method File: HEXTest
Operator: Dept27IC

Title:
Datasource: EX09294_local
Location: _ICS3000\Sequence\111904.SEQ

Created: 9/12/2008 9:52:21 AM by Dept27IC
Last Update: 6/21/2011 1:25:35 PM by Dept27IC

Amount Table:

Dimension of Amounts: ug/L mg/kg
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 6
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Amount Cal 0	Amount Cal 1	Amount Cal 2	Amount Cal 3	Amount Cal 4	Amount Cal 5
1	Hexavalent Chrom	5.070 min	1.000000	0.000000	10.000000	50.000000	100.000000	200.000000	300.000000

USP83 2897

Title:
Datasource: EX09294_local
Location: _ICS3000\Sequence\111904.SEQ
Created: 9/12/2008 9:52:21 AM by Dept27IC
Last Update: 6/21/2011 1:25:35 PM by Dept27IC

Amount Table:

Dimension of Amounts: ug/L mg/kg
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 6
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Comment
1	Hexavalent Chrom	5.070 min	

USF03 2888

Title:
Datasource: EX09294_local
Location: _ICS3000\Sequence\111904.SEQ
Created: 9/12/2008 9:52:21 AM by Dept27IC
Last Update: 6/21/2011 1:25:35 PM by Dept27IC

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	*Cal 0*	*1*	*1*	*40.0*	*1.0000*	*1.0000*	*1.0000*	*7/9/2011 7:22:31 AM*	
2	☒	Cal 1	2	2	40.0	1.0000	1.0000	1.0000	7/9/2011 7:29:13 AM	
3	☒	Cal 2	3	3	40.0	1.0000	1.0000	1.0000	7/9/2011 7:35:55 AM	
4	☒	Cal 3	4	4	40.0	1.0000	1.0000	1.0000	7/9/2011 7:42:38 AM	
5	☒	Cal 4	5	5	40.0	1.0000	1.0000	1.0000	7/9/2011 7:49:20 AM	
6	☒	Cal 5	6	6	40.0	1.0000	1.0000	1.0000	7/9/2011 7:56:02 AM	

USF53 2889

Title:
Datasource: EX09294_local
Location: _ICS3000\Sequence\111904.SEQ
Created: 9/12/2008 9:52:21 AM by Dept27IC
Last Update: 6/21/2011 1:25:35 PM by Dept27IC

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib. Comment
1	☒	*Cal 0*	*Couldn't find the peak in the chromatogram.*
2	☒	Cal 1	Ok
3	☒	Cal 2	Ok
4	☒	Cal 3	Ok
5	☒	Cal 4	Ok
6	☒	Cal 5	Ok

USPB3 2898

Title:
Datasource: EX09294_local
Location: _ICS3000\Sequence\111904.SEQ
Created: 9/12/2008 9:52:21 AM by Dept27IC
Last Update: 6/21/2011 1:25:35 PM by Dept27IC

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Rounding	Channel	Peak
1									

USP83 2891

Method File: HEXTest
Operator: Dept27IC

Printed: 7/11/2011 8:16:06 AM

Title:
Datasource: EX09294_local
Location: _ICS3000\Sequence\111904.SEQ

Created: 9/12/2008 9:52:21 AM by Dept27IC
Last Update: 6/21/2011 1:25:35 PM by Dept27IC

System Suitability Test:

No.	Name	N.A.	Fail-Action	Result	SST Message
1					

USP63 2892

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter Chemist

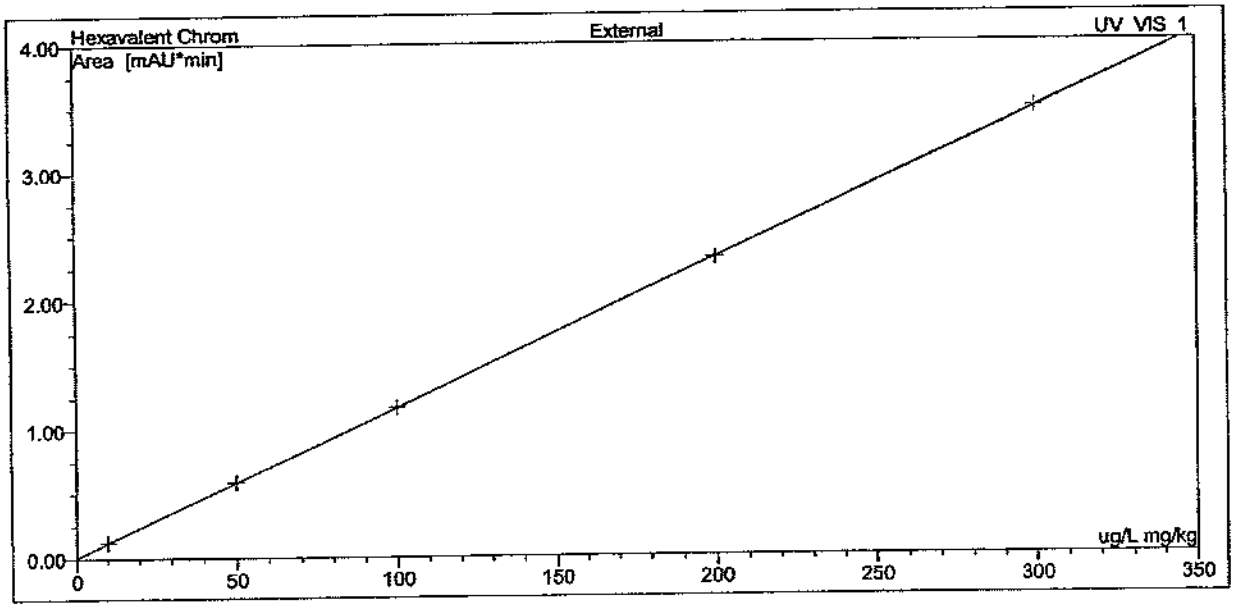
Date: JUL 1 1 2011

Sample Name:	Cal 5	Instrument No.:	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 7:56	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	6		AS7-13245

Peak Information: All Components

No.	Peak Name	Cal.Type	#Points	Coeff.Det. %
1	Hexavalent Chrom	LOff	5	99.9993

R=0.99999



Bill Hamaker

Reviewed/Verified By:

Date: JUL 1 8 2011

USP93 2893

Lancaster Laboratories

Hexavalent Chromium by IC

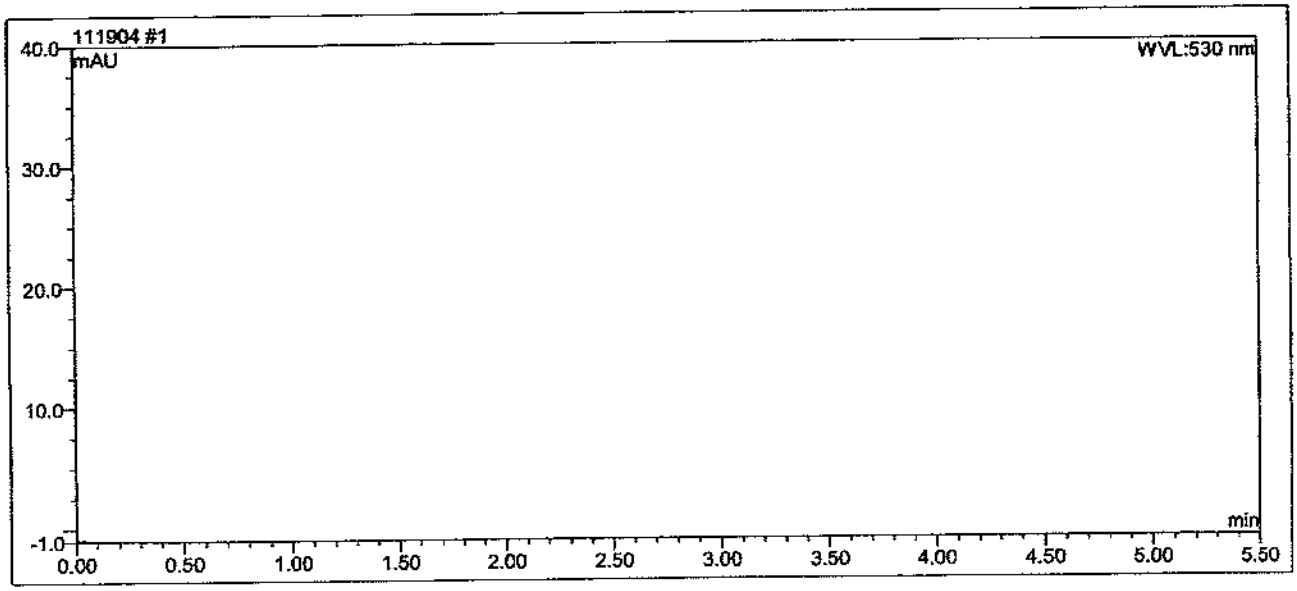
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 11 2011

Sample Name:	Cal 0	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 7:22	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	1		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg



Reviewed/Verified By: Bill Hamaker

Date: JUL 18 2011

USP93 2894

Lancaster Laboratories

Hexavalent Chromium by IC

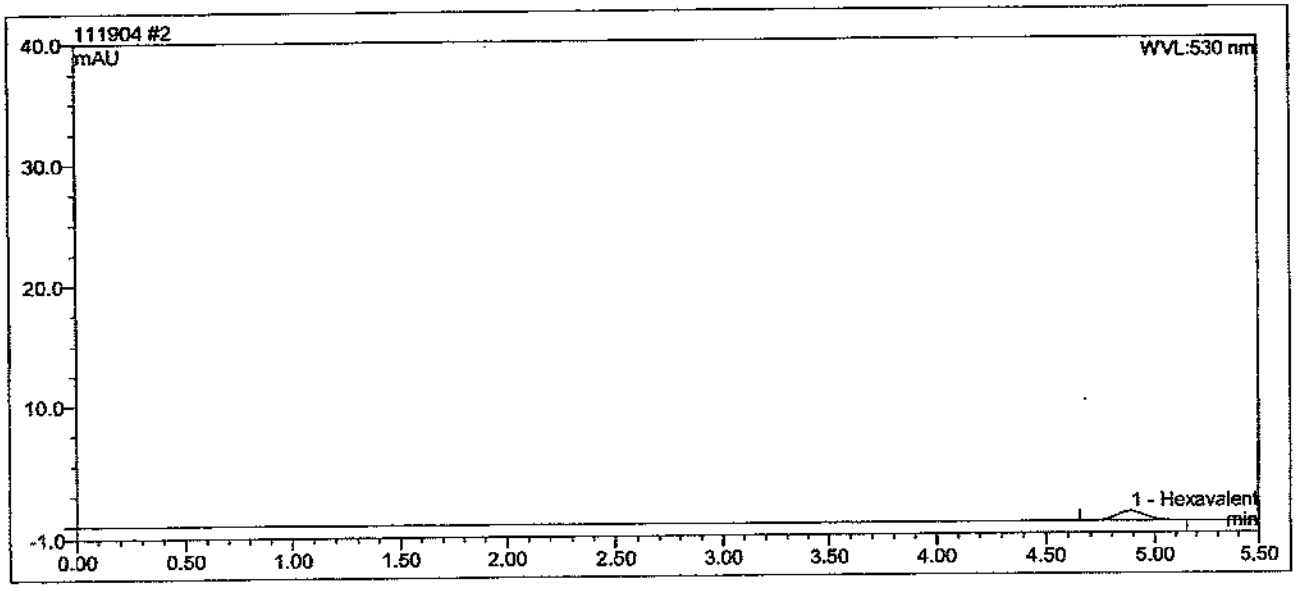
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 1 1 2011

Sample Name:	Cal 1	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 7:29	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	2		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.89	0.1261	10.103707



Bill Hamaker

Reviewed/Verified By:

Date: JUL 1 8 2011

USP03 2895

Lancaster Laboratories

Hexavalent Chromium by IC

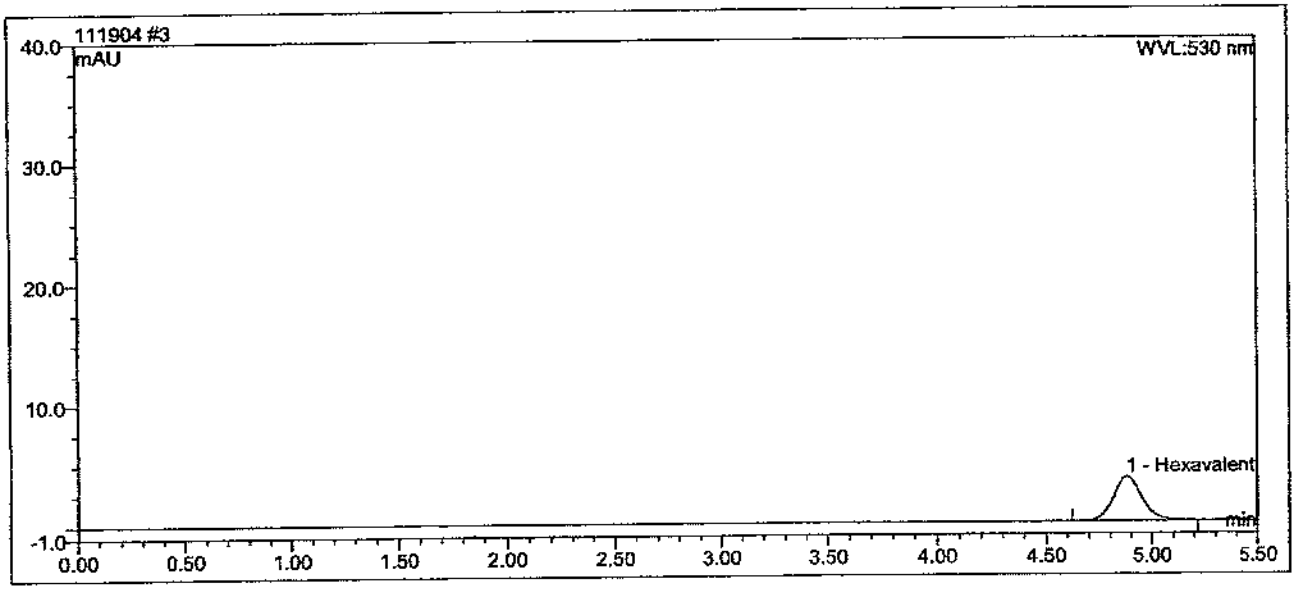
Reviewer/Enterer:

Date: Elyse P. Brunstetter Chemist 7/11/11

Sample Name:	Cal 2	Instrument No.	JUL 15 19 2011
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 7:35	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	3		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.88	0.5876	50.009394



Reviewed/Verified By: Bill Hamaker

Date: JUL 18 2011

USF03 2896

Lancaster Laboratories

Hexavalent Chromium by IC

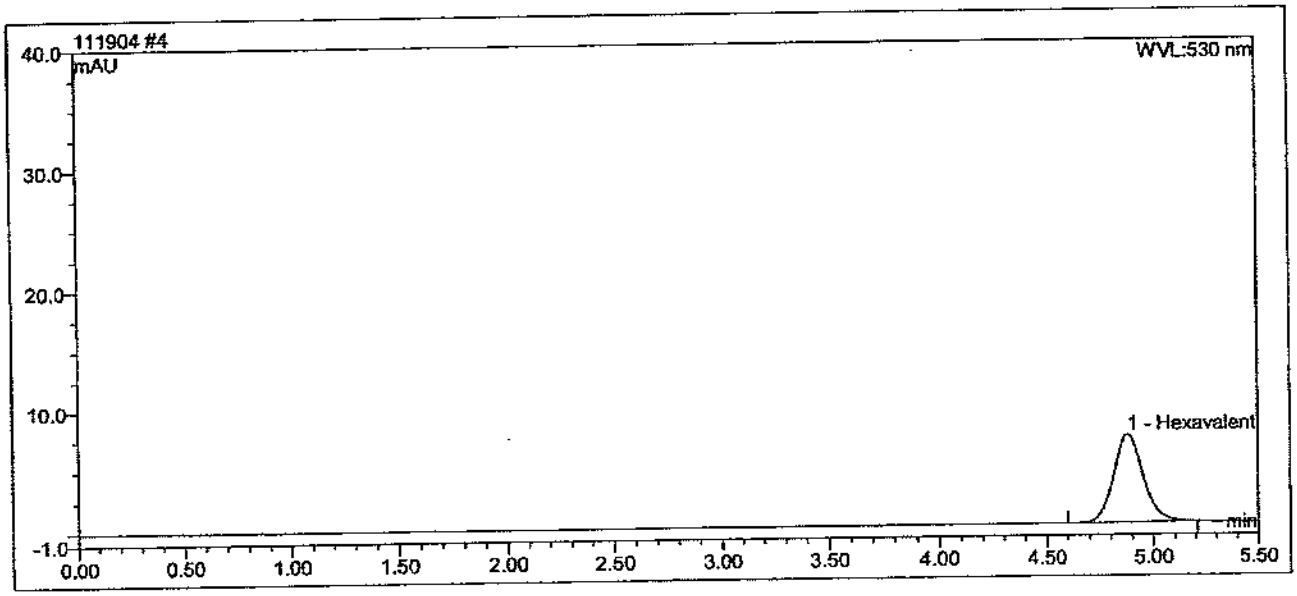
Reviewer/Enterer: Elyse P. Brunstetter, Chemist

Date: JUL 1 1 2011

Sample Name:	Cal 3	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 7:42	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	4		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.88	1.1667	100.093146



Reviewed/Verified By: Bill Hamaker

Date: JUL 1 8 2011

USP33 2997

Lancaster Laboratories

Hexavalent Chromium by IC

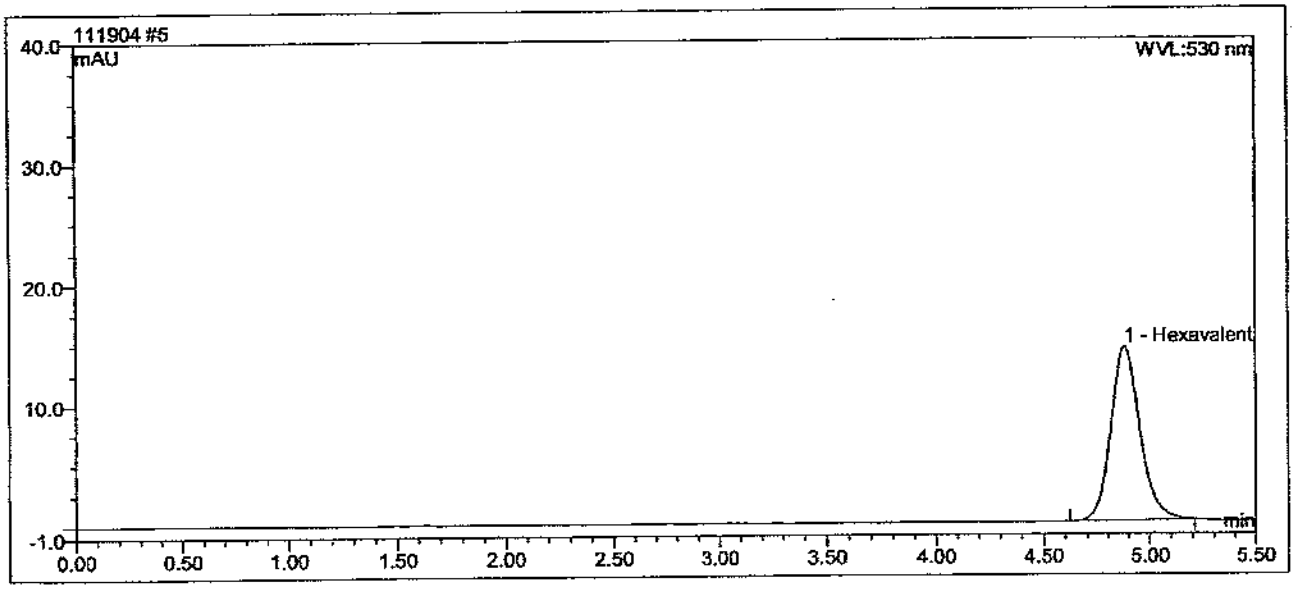
Reviewer/Enterer: Elyse P. Brunstetter, Chemist

Date: JUL 1 1 2011

Sample Name:	Cal 4	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 7:49	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	5		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.88	2.3162	199.489474



Reviewed/Verified By: Bill Hamaker

Date: JUL 1 8 2011

USF83 2898

Lancaster Laboratories

Hexavalent Chromium by IC

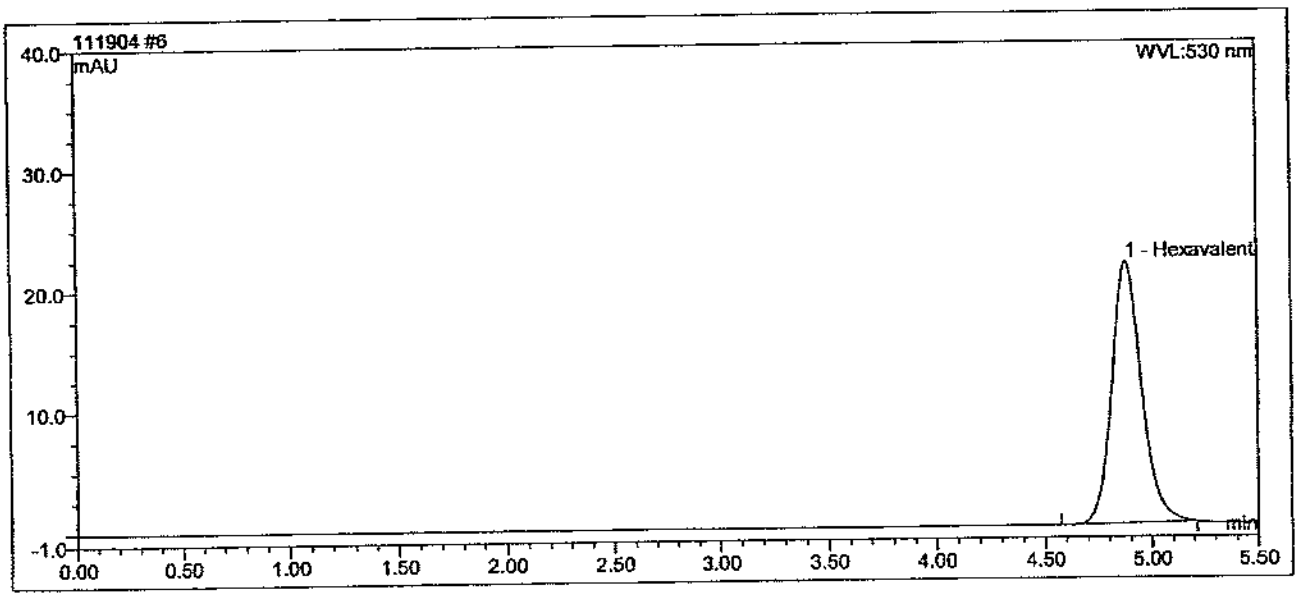
Reviewer/Enterer: Elyse P. Brunstetter
Chemist

Date: JUL 11 2011

Sample Name:	Cal 5	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 7:56	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	6		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.88	3.4821	300.304280



Reviewed/Verified By: Bill Hamaker

Date: JUL 18 2011

USP63 2999

7/11/2011 8:16 AM

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter, Chemist

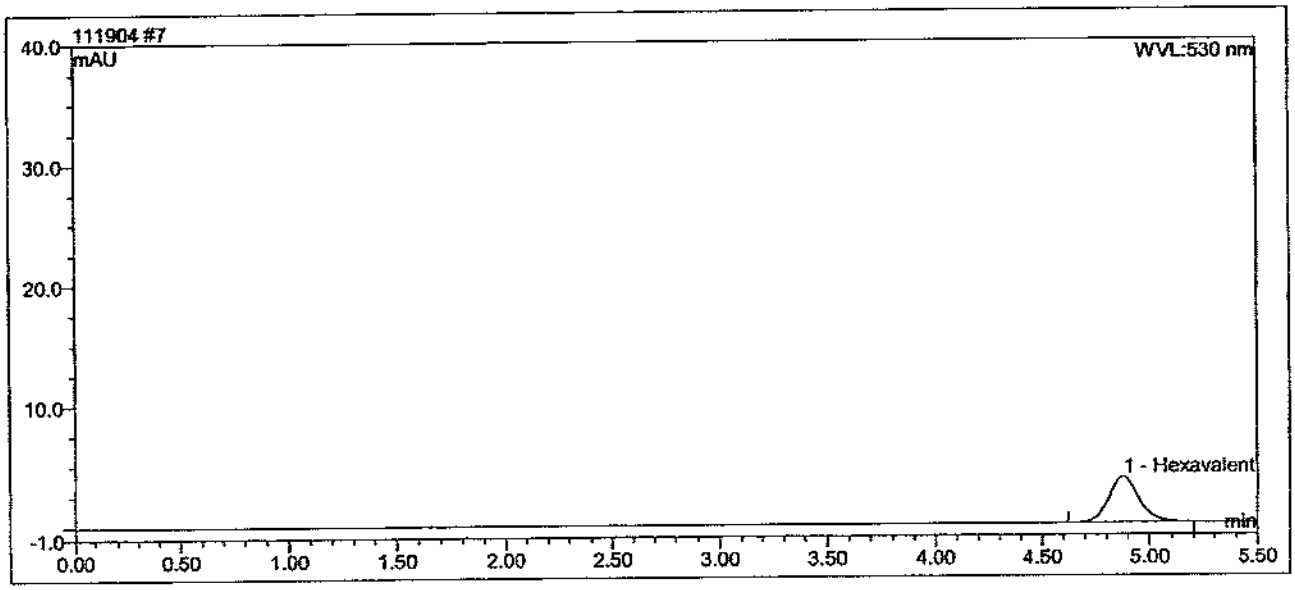
Date: JUL 1 1 2011

Sample Name:	ICV	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 8:02	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	7		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.88	0.6037	51.404208

TV=50
1032



Reviewed/Verified By: Bill Hamaker

Date: JUL 1 8 2011

USF03 3980

Lancaster Laboratories

Hexavalent Chromium by IC

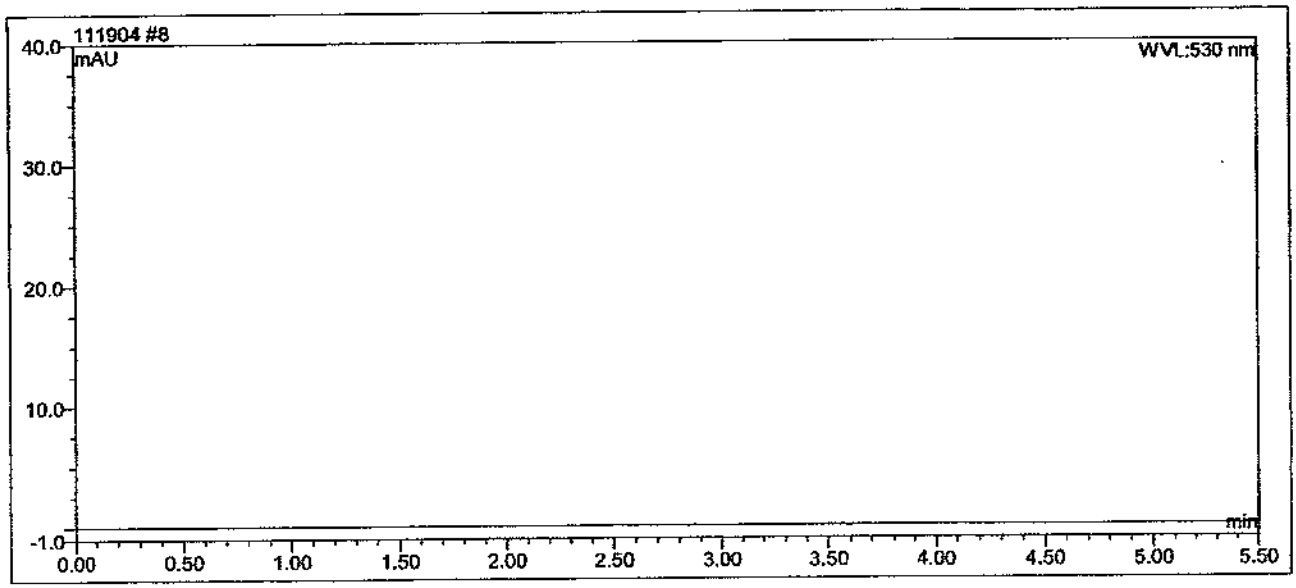
Reviewer/Enterer: Elyse P. Brunstetter, Chemist

Date: JUL 1 1 2011

Sample Name:	ICB	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 8:09	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	8		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg



Reviewed/Verified By: Bill Hamaker

Date: JUL 1 8 2011

USP83 2581

Lancaster Laboratories

Hexavalent Chromium by IC

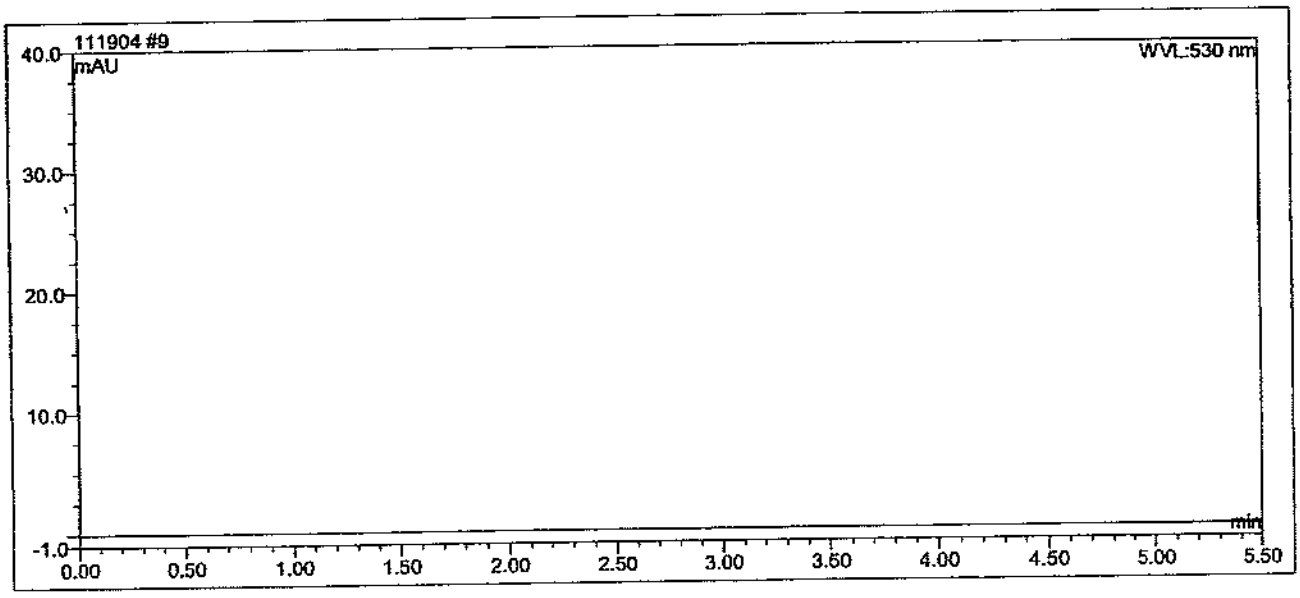
Reviewer/Enterer: Elyse P. Brunstetter, Chemist

Date: JUL 1 1 2011

Sample Name:	PBW	Instrument No.	16539
Batch Number/Analyst:	11190281401A-2819	Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 8:16	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	9		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg



Reviewed/Verified By: Bill Hemaker

Date: JUL 1 8 2011

USP93 2982

Lancaster Laboratories

Hexavalent Chromium by IC

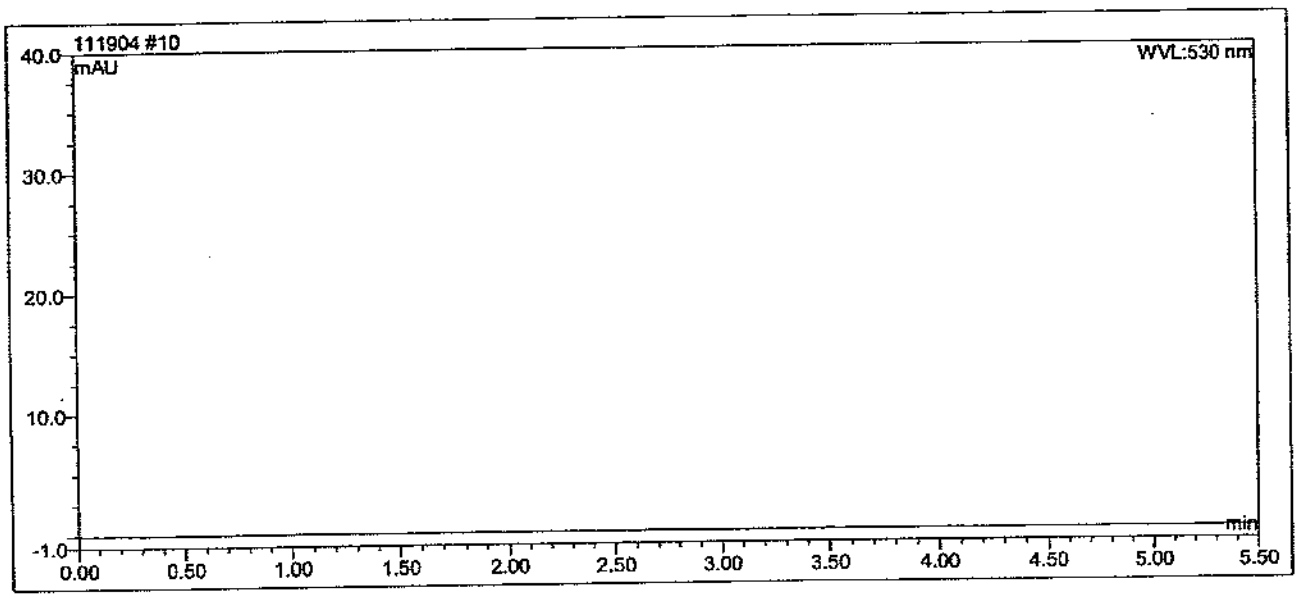
Reviewer/Enterer:

Date:

Sample Name:	PBW	Instrument No.	16539
Batch Number/Analyst:	11190281401A-2819	Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 8:22	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569 AS7-13245
Injection Number:	10		

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg



Reviewed/Verified By:

Date:

USP83 2983

Lancaster Laboratories

Hexavalent Chromium by IC

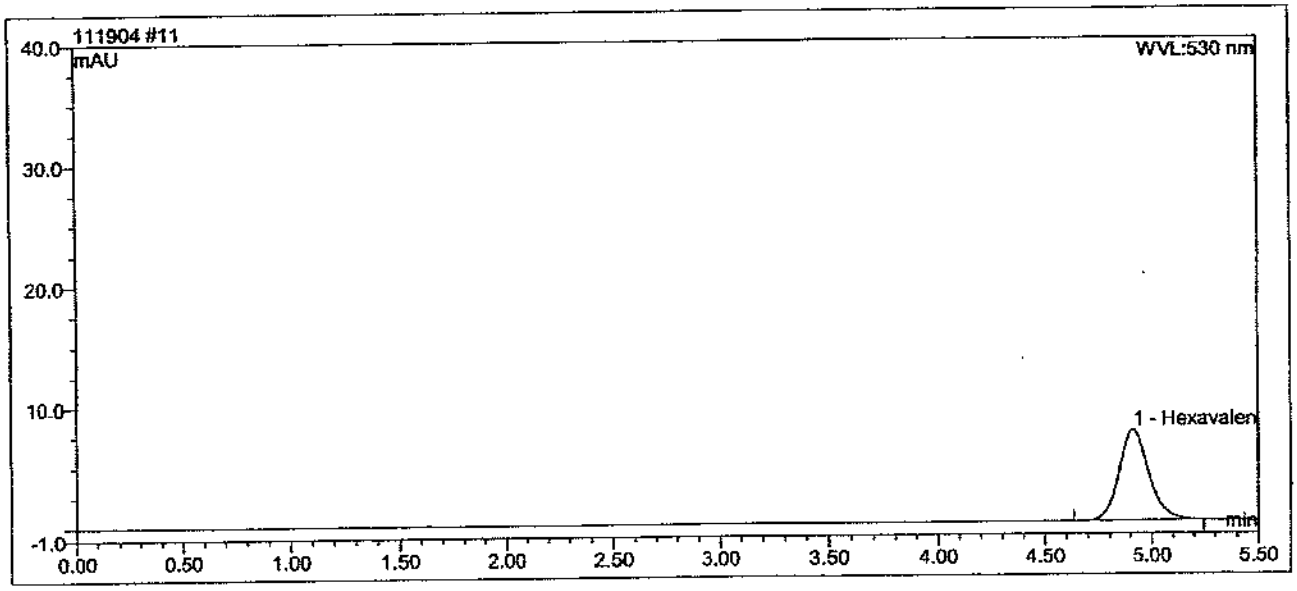
Reviewer/Enterer:

Date:

Sample Name:	LCSW	Instrument No.	16539
Batch Number/Analyst:	11190281401A-2819	Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 8:29	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	11		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.91	1.2212	104.800378



Reviewed/Verified By:

Date:

USP43 2984

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brumbotter, Chemist

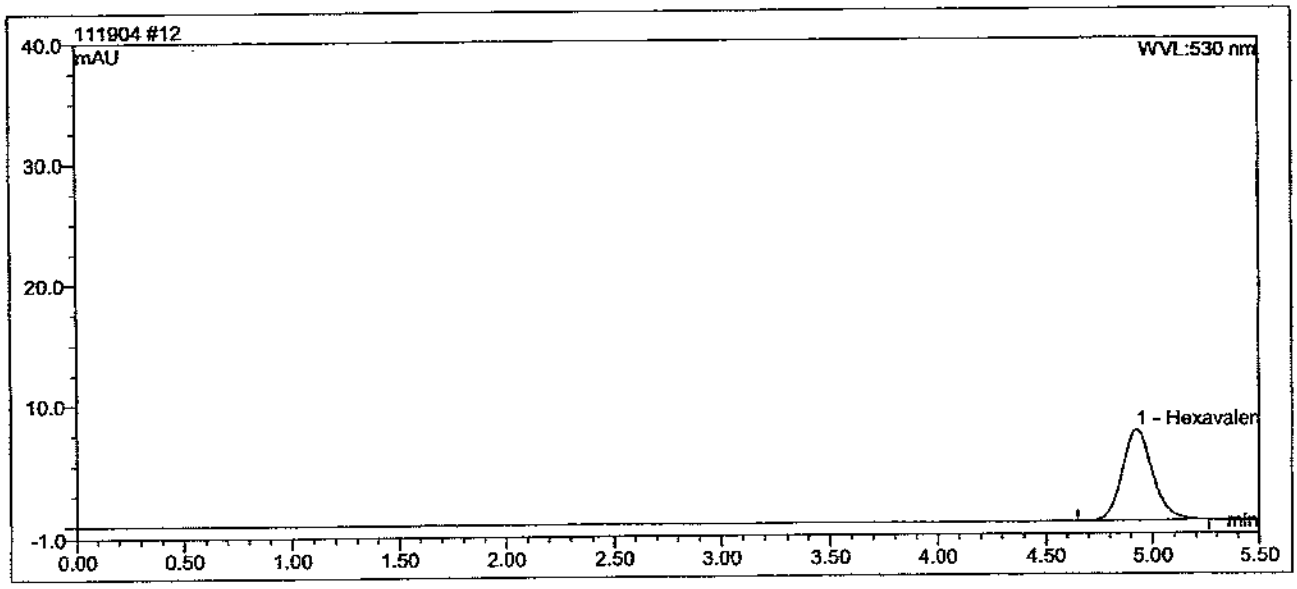
Date: JUL 1 1 2011

Sample Name:	LCSW	Instrument No.	16539
Batch Number/Analyst:	11190281401A-2819	Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 8:36	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	12		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.93	1.2265	105.259994

TV=100
1052



Bill Hamaker

Reviewed/Verified By:

Date: JUL 1 8 2011

USP83 2985

Lancaster Laboratories

Hexavalent Chromium by IC

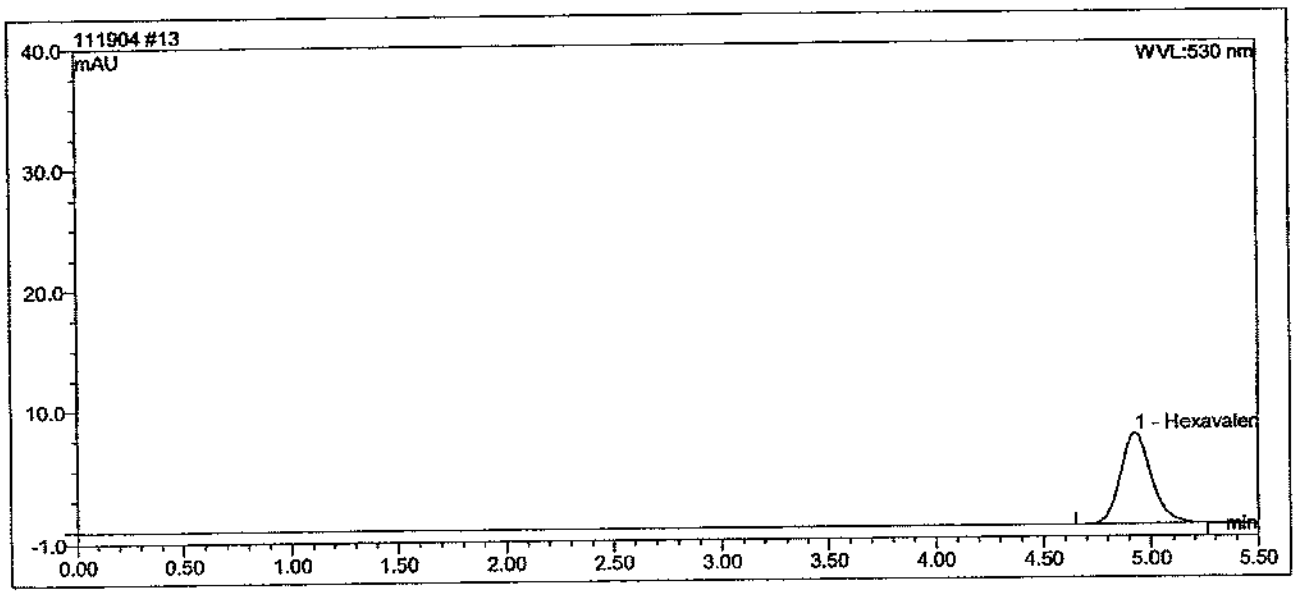
Reviewer/Enterer:

Date:

Sample Name:	LCSDW	Instrument No.	16539
Batch Number/Analyst:	11190281401A-2819	Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 8:43	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	13		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.93	1.2262	105.231582



Reviewed/Verified By:

Date:

USF03 2986

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter, Chemist

Date: JUL 1 1 2011

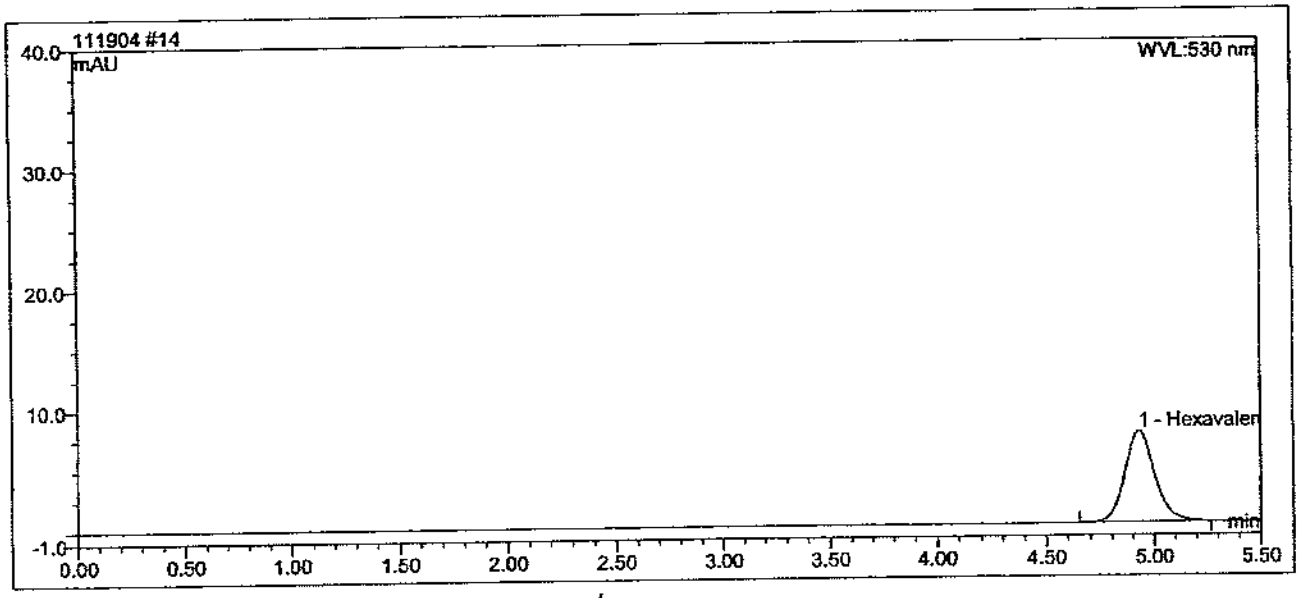
Sample Name:	LCSDW	Instrument No.	16539
Batch Number/Analyst:	11190281401A-2819	Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 8:49	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569 AS7-13245
Injection Number:	14		

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.93	1.2327	105.800357

N=100

1002



Bill Hamaker

Reviewed/Verified By:

Date: JUL 1 8 2011

USF83 2967

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter, Chemist

Date: JUL 1 1 2011

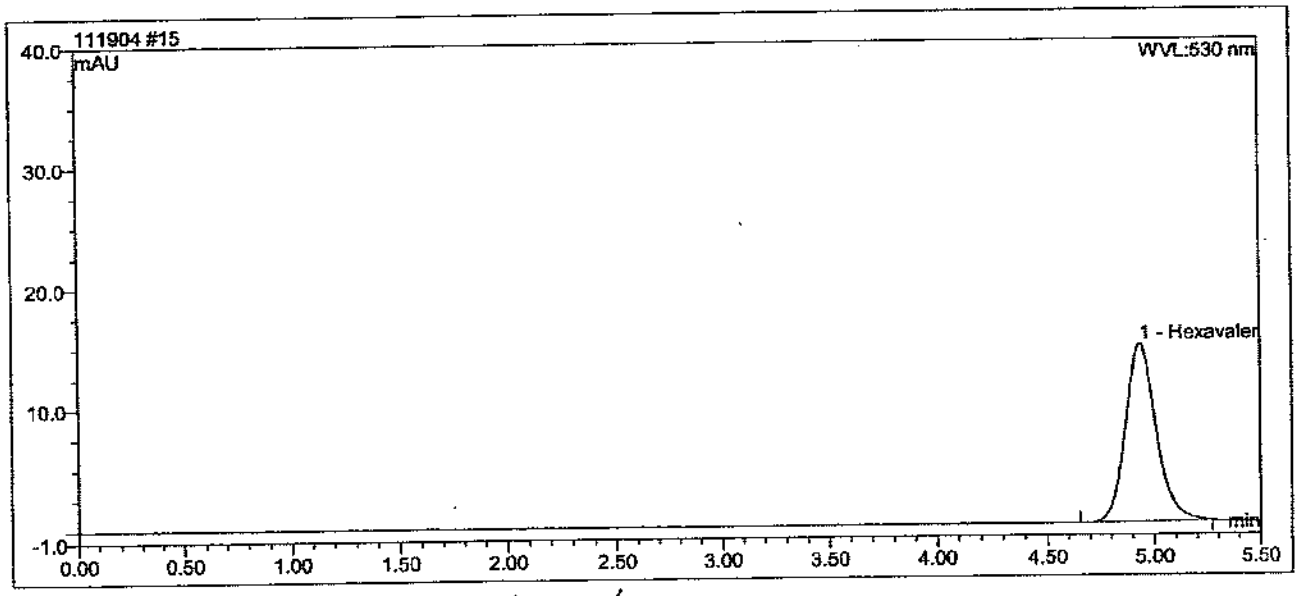
Sample Name:	CCV	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 8:56	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	15		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.93	2.3974	206.505910

TV=200

103%



Bill Hamaker

Reviewed/Verified By:

Date: JUL 1 8 2011

USP83 2999

Lancaster Laboratories

Hexavalent Chromium by IC

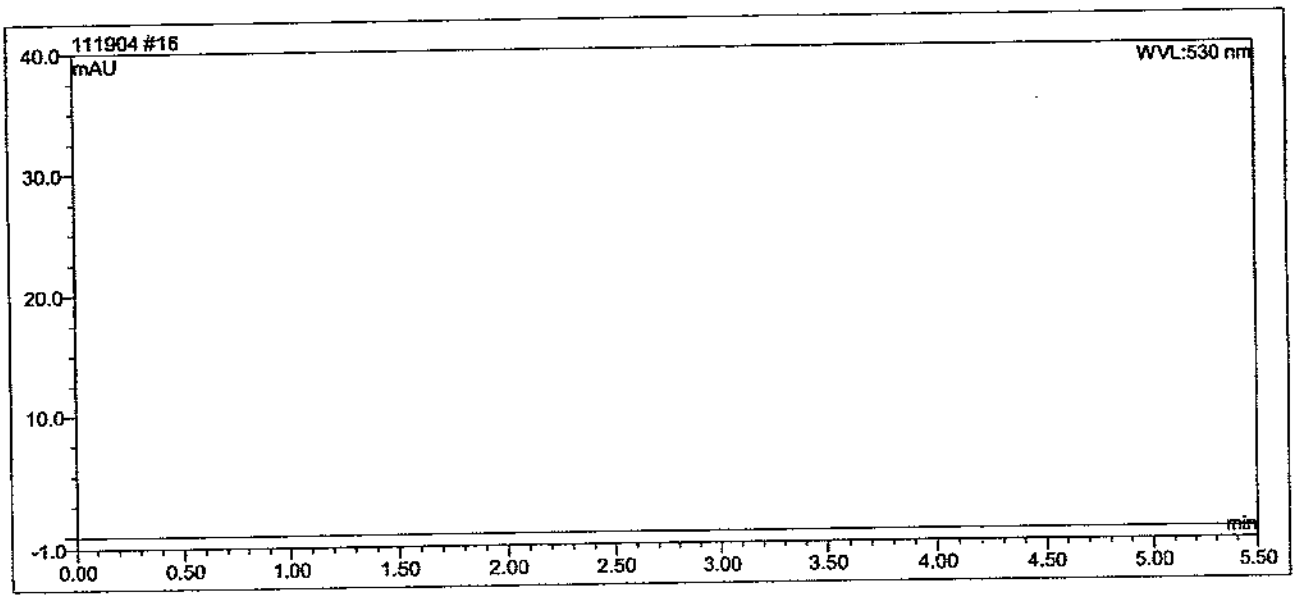
Reviewer/Enterer: Elyse P. Brunstetter, Chemist

Date: JUL 1 1 2011

Sample Name:	CCB	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 9:03	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	16		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg



Reviewed/Verified By: Bill Hamaker

Date: JUL 1 8 2011

USP83 2989

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter, Chemist

Date: JUL 1 1 2011

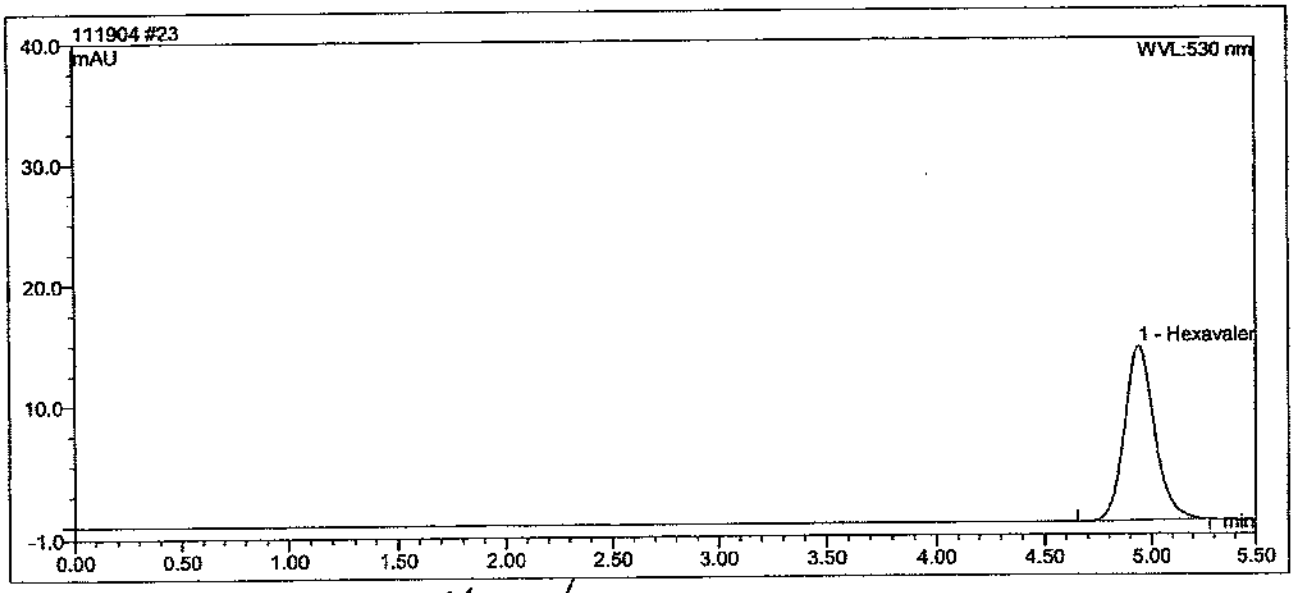
Sample Name:	CCV	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 10:00	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	23		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.94	2.3701	204.151809

TV = 200

102%



Bill Hamaker

Reviewed/Verified By:

Date: JUL 2 1 2011

USF03 2919

Lancaster Laboratories

Hexavalent Chromium by IC

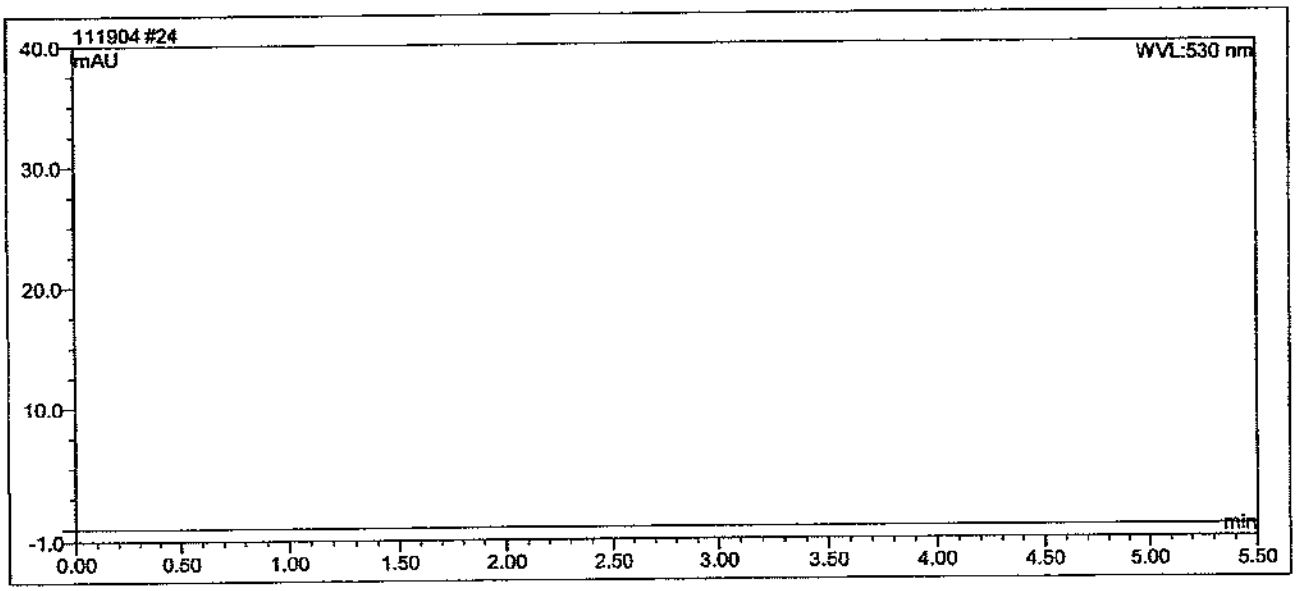
Reviewer/Enterer: Elyse P. Brunstetter, Chemist

Date: JUL 1 1 2011

Sample Name:	CCB	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 10:07	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	24		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg



Reviewed/Verified By: Bill Hamaker

Date: JUL 2 1 2011

USF03 2911

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer:

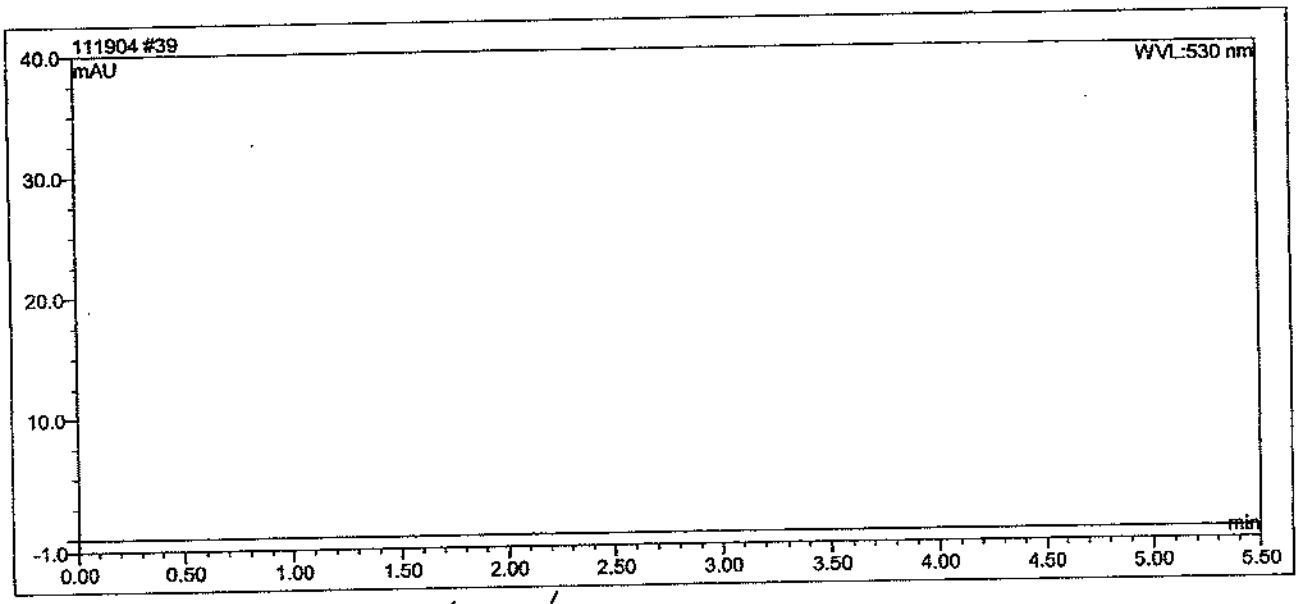
Date: Elyse P. Brunstetter, Chemist

JUL 11 2011

Sample Name:	6339388	Instrument No.	16569
Batch Number/Analyst:	11190281401A-2819	Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 11:48	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	39		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg



Bill Hamaker

Reviewed/Verified By:

JUL 2 1 2011

Date:

USF63 2912

Lancaster Laboratories

Hexavalent Chromium by IC

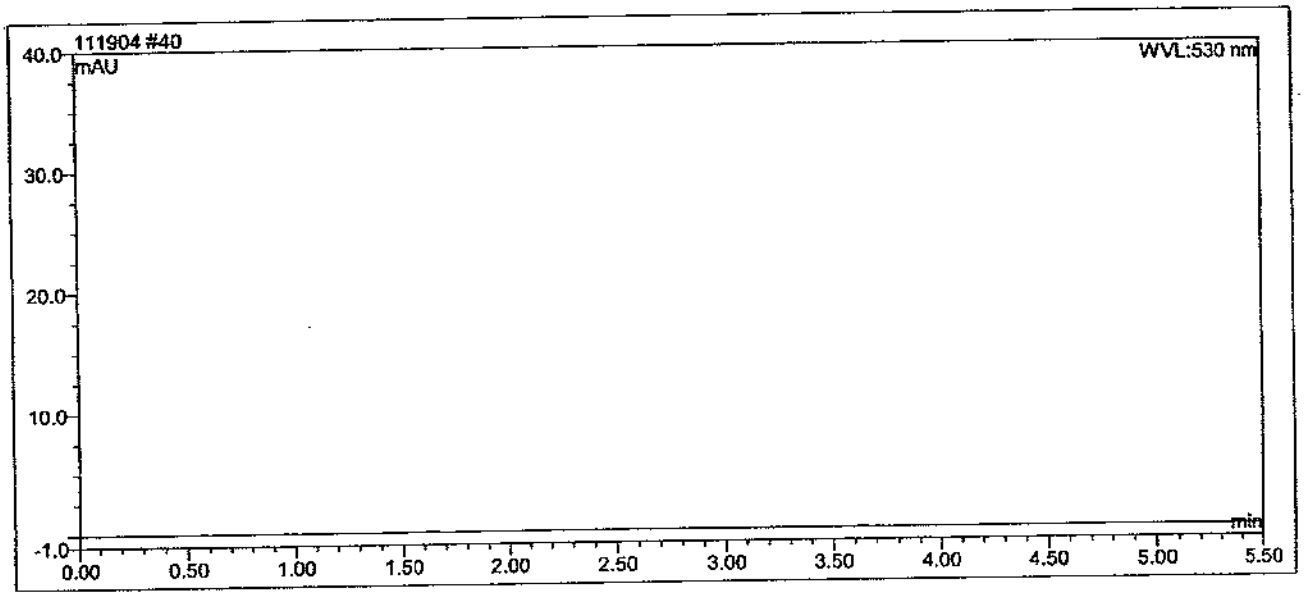
Reviewer/Enterer:

Date:

Sample Name:	6339388	Instrument No.	16539
Batch Number/Analyst:	11190281401A-2819	Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 11:55	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	40		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg



Reviewed/Verified By:

Date:

USP63 2913

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter
Date: Chemist
JUL 1 1 2011

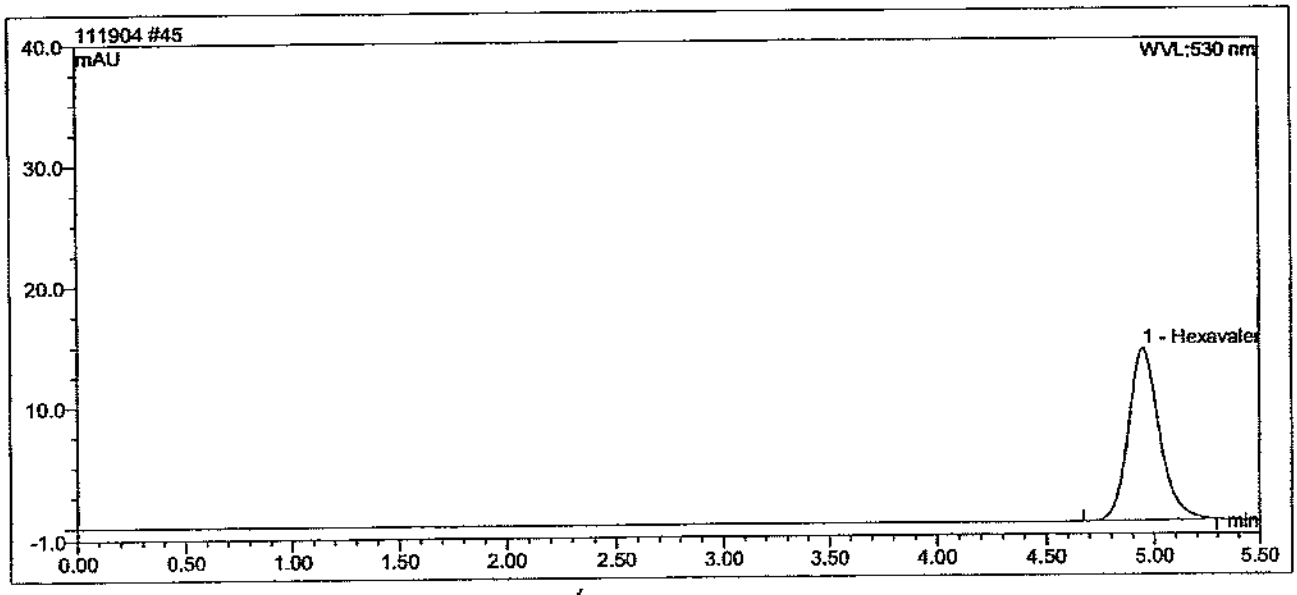
Sample Name:	CCV	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 12:28	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	45		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg
1	Hexavalent Chrom	4.95	2.3691	204.065165

N=200

102%



Bill Hamaker

Reviewed/Verified By:

Date: JUL 2 1 2011

USP89 2914

Lancaster Laboratories

Hexavalent Chromium by IC

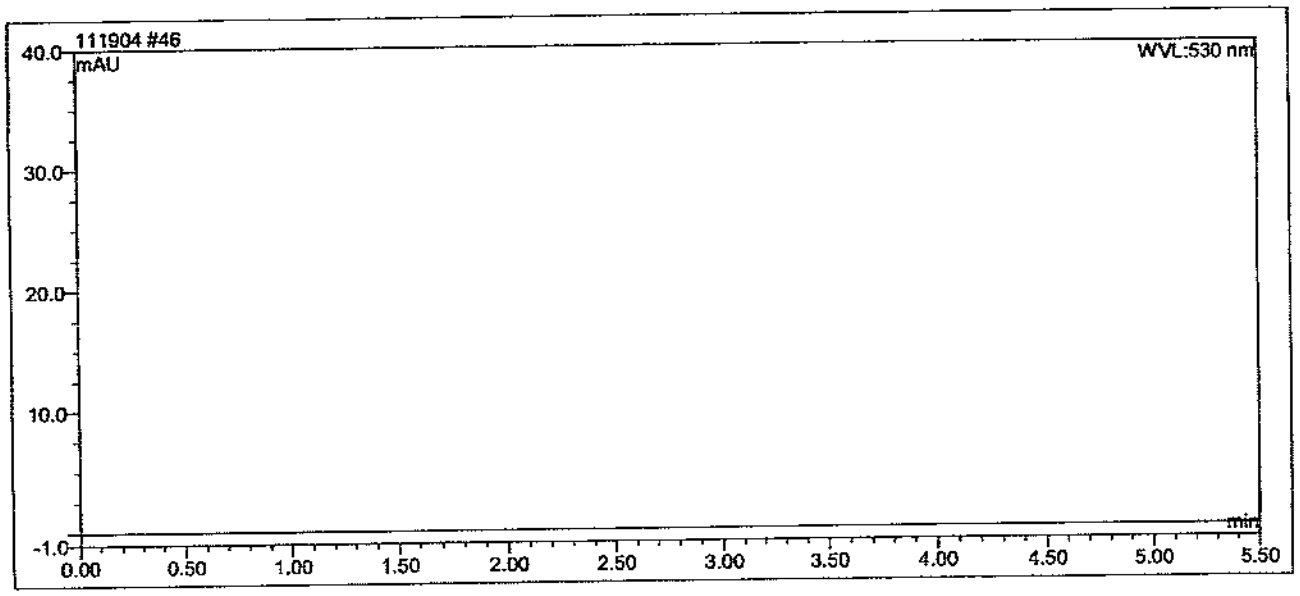
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 1 1 2011

Sample Name:	CCB	Instrument No.	16539
Batch Number/Analyst:		Calibration Date:	7/9/2011
Date/Time Injected:	7/9/2011 12:35	Schedule File Name:	111904
Dilution Factor:	1.00	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type - Ser # :	NG1-21569
Injection Number:	46		AS7-13245

Peak Information: All Components

Peak Number	Peak Name	Ret.Time min	Area mAU*min	Amount ug/L / mg/kg



Reviewed/Verified By: Bill Hamaker

Date: JUL 2 1 2011

USF93 2915

Lancaster Laboratories

Where quality is a science.

Determination of Hexavalent Chromium (Cr^{+6})

Instrument Name: ICS-1100 Date of Analysis: 07·20·11

Instrument ID: 18213 Analyst: 2819

QC Stock Book/Page #: 115011/ 40 Run Name: 112013

ICV/CCV/LCSW Book/Page #: 116474/50

	Cr^{+6} True Value (µg/L)	Range (µg/L)
ICV	50	45 – 55
CCV	200	180 – 220
LCSW	100	90 – 110
LCSS	5.0 (mg/kg)	3.98 – 6.02 (mg/kg)

PBW/CCB (µg/L): < 10
PBS (mg/kg): < 1.0

Calibration Information:

Calibration Type: Linear by Area (r > 0.999)
Number of Calibrants: 5

Calibration Stock Book/Page: 115011/ 40

Standards Book/Page #: 116474/50

Standards	Concentration (µg/L)
Std. 1	10
Std. 2	50
Std. 3	100
Std. 4	200
Std. 5	300

Color Reagent Book/Page: 129956/14

Eluent Stock Book/Page #: 129956/13

COMMENTS:

Verified By: [signature] Date: 7/22/11

USF03 2916

Sequence: 112013
Instrument: 18213
Operator: Dept27IC

# of Samples: 84
Created: 03/25/11 11:21
Last Update: 07/21/11 07:43

No.	Name	Type	Position	Inject Time	Status	Dilution	Weight	Batch Number
1	Cal 0	Calibration Standard	1	07/20/11 07:55	Finished	1.0	1.000	
2	Cal 1	Calibration Standard	2	07/20/11 08:01	Finished	1.0	1.000	
3	Cal 2	Calibration Standard	3	07/20/11 08:07	Finished	1.0	1.000	
4	Cal 3	Calibration Standard	4	07/20/11 08:14	Finished	1.0	1.000	
5	Cal 4	Calibration Standard	5	07/20/11 08:20	Finished	1.0	1.000	
6	Cal 5	Calibration Standard	6	07/20/11 08:26	Finished	1.0	1.000	
7	ICV	Check Standard	7	07/20/11 08:32	Finished	1.0	1.000	
8	ICB	Check Standard	8	07/20/11 08:39	Finished	1.0	1.000	
9	PBW	Unknown	47	07/20/11 08:45	Finished	1.0	1.000	11201281401A
10	PBW	Unknown	47	07/20/11 08:51	Finished	1.0	1.000	
11	LCSW	Unknown	48	07/20/11 08:57	Finished	1.0	1.000	
12	LCSW	Unknown	48	07/20/11 09:03	Finished	1.0	1.000	
13	LCSDW	Unknown	49	07/20/11 09:10	Finished	1.0	1.000	
14	LCSDW	Unknown	49	07/20/11 09:16	Finished	1.0	1.000	
15	CCV	Unknown	91	07/20/11 09:22	Finished	1.0	1.000	
16	CCB	Unknown	100	07/20/11 09:28	Finished	1.0	1.000	
17	6349524-U	Unknown	9	07/20/11 10:14	Finished	1.0	1.000	11201281401A-2819
18	6349524-U	Unknown	9	07/20/11 10:20	Finished	1.0	1.000	11201281401A-2819
19	6349524-D	Unknown	9	07/20/11 10:26	Finished	1.0	1.000	11201281401A-2819
20	6349524-D	Unknown	9	07/20/11 10:33	Finished	1.0	1.000	11201281401A-2819
21	6349524-R	Unknown	10	07/20/11 10:39	Finished	1.0	1.000	11201281401A-2819
22	6349524-R	Unknown	10	07/20/11 10:45	Finished	1.0	1.000	11201281401A-2819
23	6349726	Unknown	11	07/20/11 10:51	Finished	1.0	1.000	11201281401A-2819
24	6349726	Unknown	11	07/20/11 10:57	Finished	1.0	1.000	11201281401A-2819
25	6349698	Unknown	12	07/20/11 11:06	Finished	1.0	1.000	11201281401A-2819
26	6349698	Unknown	12	07/20/11 11:12	Finished	1.0	1.000	11201281401A-2819
27	CCV	Unknown	91	07/20/11 12:01	Finished	1.0	1.000	
28	CCB	Unknown	100	07/20/11 12:08	Finished	1.0	1.000	
29	6348148-D	Unknown	13	07/20/11 15:04	Finished	1.0	1.000	
30	6348148-D	Unknown	13	07/20/11 15:10	Finished	1.0	1.000	
31	6348148-R	Unknown	14	07/20/11 15:16	Finished	1.0	1.000	
32	6348148-R	Unknown	14	07/20/11 15:22	Finished	1.0	1.000	
33	CCV	Unknown	91	07/20/11 15:29	Finished	1.0	1.000	
34	CCB	Unknown	100	07/20/11 15:35	Finished	1.0	1.000	
35	PBS	Unknown	15	07/20/11 16:59	Finished	1.0	25.000	11200243202A-2819
36	PBS	Unknown	15	07/20/11 17:05	Finished	1.0	25.000	11200243202A-2819
37	LCSS	Unknown	16	07/20/11 17:11	Finished	1.0	25.000	11200243202A-2819
38	LCSS	Unknown	16	07/20/11 17:17	Finished	1.0	25.000	11200243202A-2819
39	LCSD	Unknown	17	07/20/11 17:24	Finished	1.0	25.000	11200243202A-2819
40	LCSD	Unknown	17	07/20/11 17:30	Finished	1.0	25.000	11200243202A-2819
41	LCSS IS	Unknown	18	07/20/11 17:36	Finished	100.0	25.000	11200243202A-2819
42	LCSS IS	Unknown	18	07/20/11 17:42	Finished	100.0	25.000	11200243202A-2819
43	6339384	Unknown	19	07/20/11 17:48	Finished	1.0	25.000	11200243202A-2819
44	6339384	Unknown	19	07/20/11 17:55	Finished	1.0	25.000	11200243202A-2819
45	6339368	Unknown	20	07/20/11 18:01	Finished	1.0	24.300	11200243202A-2819
46	6339368	Unknown	20	07/20/11 18:07	Finished	1.0	24.300	11200243202A-2819
47	6339369	Unknown	21	07/20/11 18:13	Finished	1.0	25.600	11200243202A-2819
48	6339369	Unknown	21	07/20/11 18:20	Finished	1.0	25.600	11200243202A-2819
49	6339370	Unknown	22	07/20/11 18:26	Finished	1.0	25.400	11200243202A-2819
50	6339370	Unknown	22	07/20/11 18:32	Finished	1.0	25.400	11200243202A-2819
51	6339371	Unknown	23	07/20/11 18:38	Finished	1.0	24.300	11200243202A-2819
52	6339371	Unknown	23	07/20/11 18:44	Finished	1.0	24.300	11200243202A-2819
53	6339372	Unknown	24	07/20/11 18:51	Finished	1.0	24.400	11200243202A-2819
54	6339372	Unknown	24	07/20/11 18:57	Finished	1.0	24.400	11200243202A-2819
55	CCV	Unknown	91	07/20/11 19:03	Finished	1.0	1.000	
56	CCB	Unknown	100	07/20/11 19:09	Finished	1.0	1.000	
57	6339373	Unknown	25	07/20/11 19:16	Finished	1.0	25.100	11200243202A-2819
58	6339373	Unknown	25	07/20/11 19:22	Finished	1.0	25.100	11200243202A-2819
59	6339374	Unknown	26	07/20/11 19:28	Finished	1.0	25.100	11200243202A-2819
60	6339374	Unknown	26	07/20/11 19:34	Finished	1.0	25.100	11200243202A-2819
61	6339375	Unknown	27	07/20/11 19:40	Finished	1.0	25.300	11200243202A-2819

2917

62 6339375	Unknown	27	07/20/11 19:47	Finished	1.0	25.300	11200243202A-2819
63 6339376	Unknown	28	07/20/11 19:53	Finished	1.0	26.000	11200243202A-2819
64 6339376	Unknown	28	07/20/11 19:59	Finished	1.0	26.000	11200243202A-2819
65 6339377-U	Unknown	29	07/20/11 20:05	Finished	1.0	25.300	11200243202A-2819
66 6339377-U	Unknown	29	07/20/11 20:11	Finished	1.0	25.300	11200243202A-2819
67 6339380-D	Unknown	30	07/20/11 20:18	Finished	1.0	25.200	11200243202A-2819
68 6339380-D	Unknown	30	07/20/11 20:24	Finished	1.0	25.200	11200243202A-2819
69 6339381-SS	Unknown	31	07/20/11 20:30	Finished	5.0	24.700	11200243202A-2819
70 6339381-SS	Unknown	31	07/20/11 20:36	Finished	5.0	24.700	11200243202A-2819
71 6339382-IS	Unknown	32	07/20/11 20:43	Finished	100.0	25.300	11200243202A-2819
72 6339382-IS	Unknown	32	07/20/11 20:49	Finished	100.0	25.300	11200243202A-2819
73 6339383-PDS	Unknown	33	07/20/11 21:10	Finished	10.0	25.300	11200243202A-2819
74 6339383-PDS	Unknown	33	07/20/11 21:17	Finished	10.0	25.300	11200243202A-2819
75 6339385	Unknown	34	07/20/11 21:23	Finished	1.0	25.800	11200243202A-2819
76 6339385	Unknown	34	07/20/11 21:29	Finished	1.0	25.800	11200243202A-2819
77 CCV	Unknown	91	07/20/11 21:35	Finished	1.0	1.000	
78 CCB	Unknown	100	07/20/11 21:41	Finished	1.0	1.000	
79 6339386	Unknown	35	07/20/11 21:48	Finished	1.0	24.200	11200243202A-2819
80 6339386	Unknown	35	07/20/11 21:54	Finished	1.0	24.200	11200243202A-2819
81 6339387	Unknown	36	07/20/11 22:00	Finished	1.0	25.000	11200243202A-2819
82 6339387	Unknown	36	07/20/11 22:06	Finished	1.0	25.000	11200243202A-2819
83 CCV	Unknown	91	07/20/11 22:13	Finished	1.0	1.000	
84 CCB	Unknown	100	07/20/11 22:19	Finished	1.0	1.000	

USP83 2918

Lancaster Laboratories

Hexavalent Chromium by IC

Elyse P. Brunstetter
Chemist

Reviewer/Enterer:

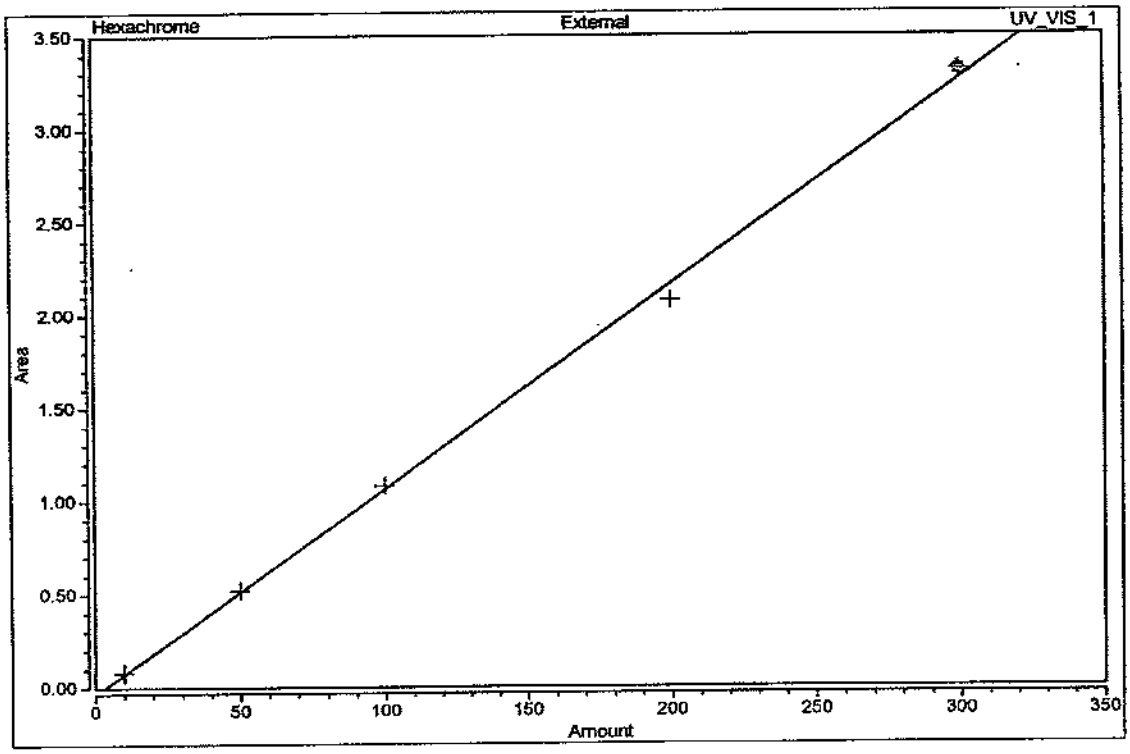
Date: JUL 2 1 2011

Sample Name:	Cal 5	**Instrument Number:**	18213
Batch Number/Analyst:		**Calibration Date:**	7/20/2011
Date/Time Injected:	07/20/11 08:26	**Schedule File Name:**	112013
Dilution Factor:	1	**Channel:**	UV_VIS_1
Sample Weight:	1.00	**Column Type: Serial #**	NG1-021762
Injection Number:	6		AS7-013485

Peak Information: All Components

No.	Peak Name	Cal. Type	# Points	Coeff. Det. %
6	Hexachrome	Lin, WithOffset	5	**99.8403**

R=0.9992



Reviewed/Verified By: 7/22/11

USP&E 2919

Lancaster Laboratories

Hexavalent Chromium by IC

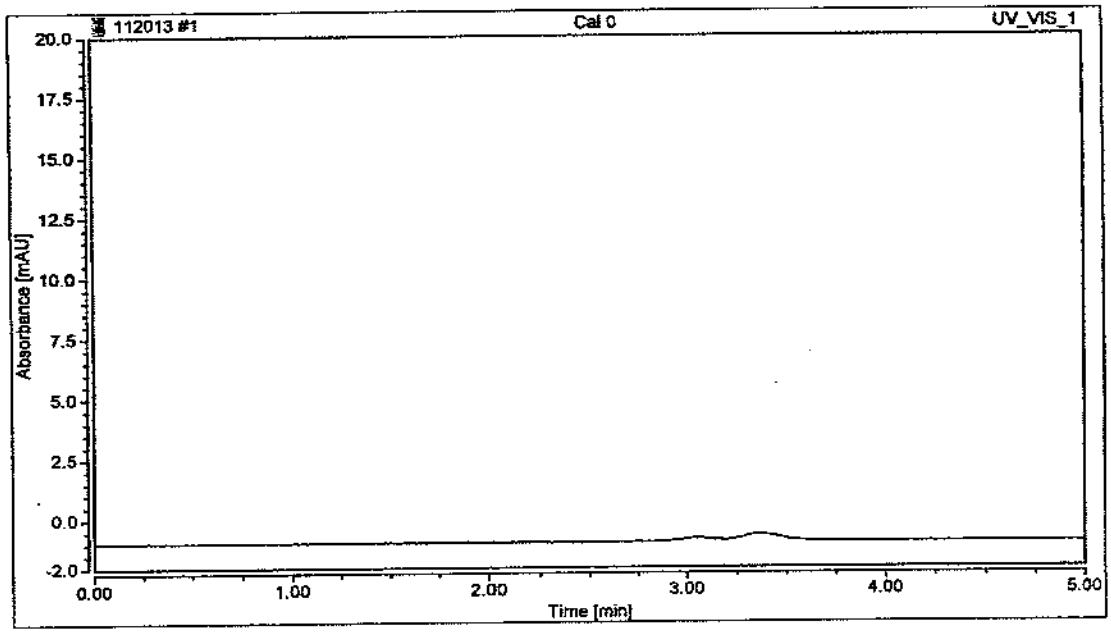
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 2 1 2011

Sample Name:	Cal 0	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 07:55	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	1		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 7/22/11

USF03 2928

Default/Integration

Chromeleon (c) Dionex Version 7.1.0.898

Lancaster Laboratories

Hexavalent Chromium by IC

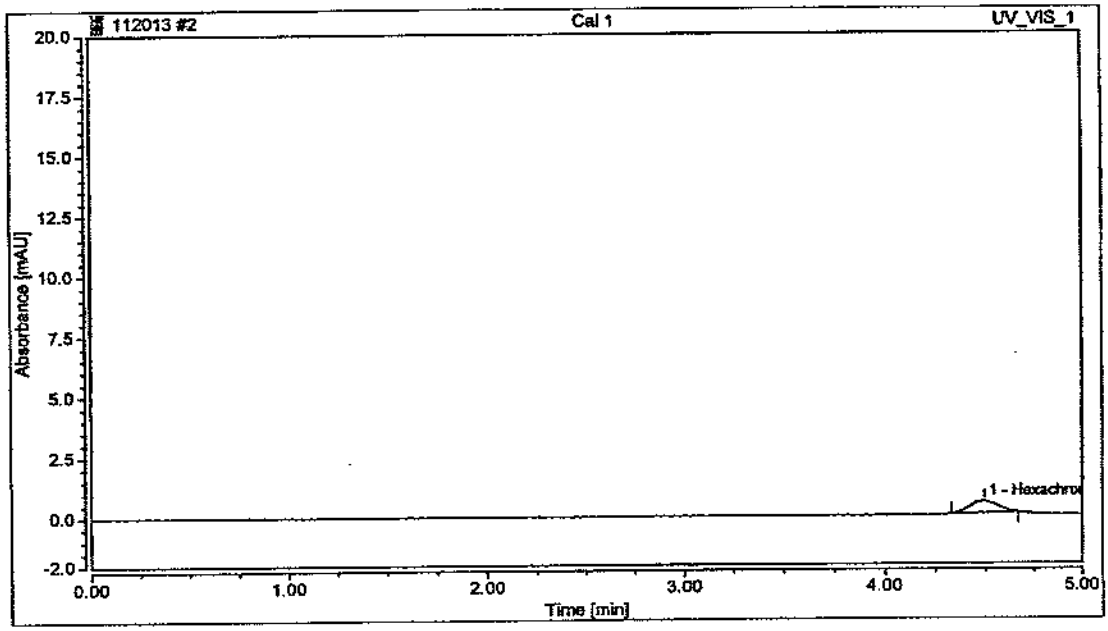
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 2 1 2011

Sample Name:	Cal 1	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 08:01	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	2		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.49	0.0820	10.851539



Reviewed/Verified By:

Date: 7/22/11

USP33 2321

Lancaster Laboratories

Hexavalent Chromium by IC

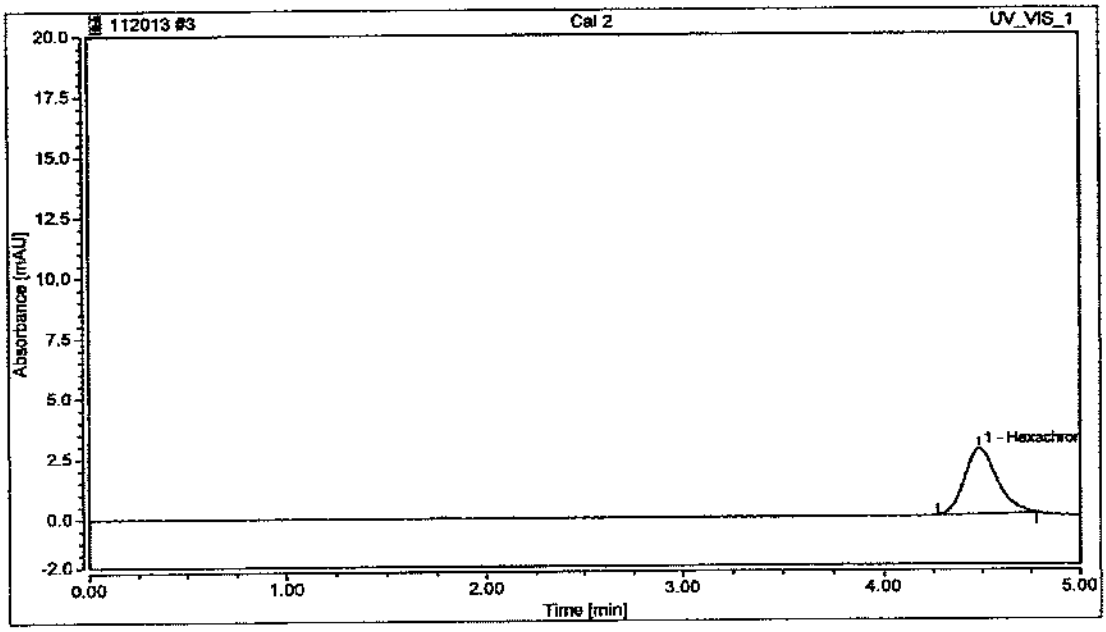
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 2 1 2011

Sample Name:	Cal 2	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 08:07	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	3		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.48	0.5209	50.762590



Reviewed/Verified By:

Date: 7/22/11

USP83: 2922

Lancaster Laboratories

Hexavalent Chromium by IC

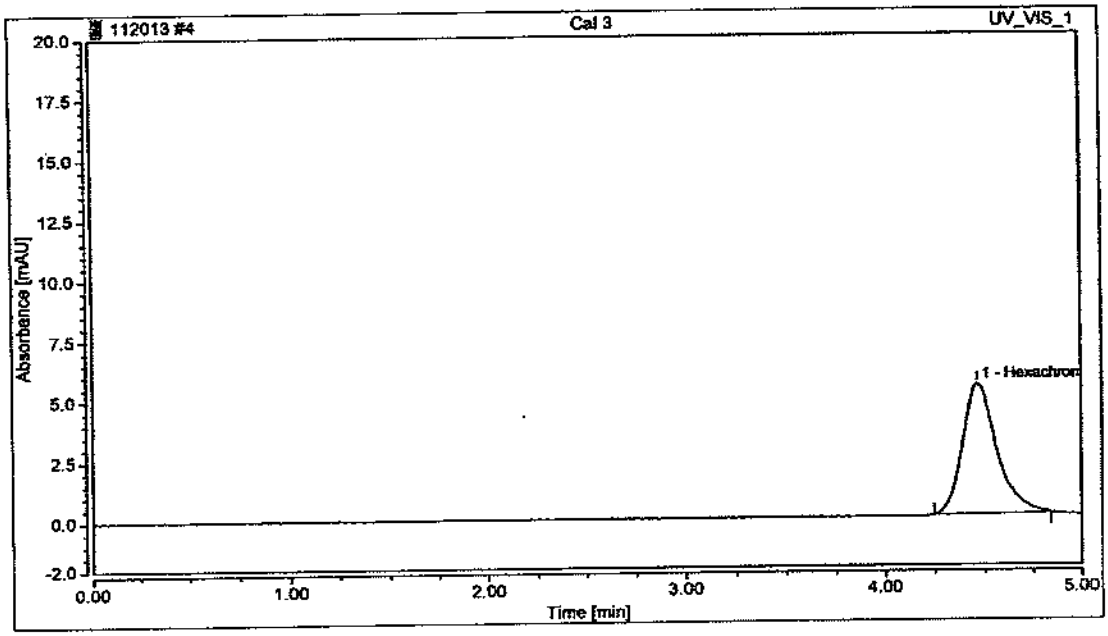
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 2 1 2011

Sample Name:	Cal 3	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 08:14	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	4		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.46	1.0820	101.794716



Reviewed/Verified By:

Date: 7/21/11

USP03 2923

Lancaster Laboratories

Hexavalent Chromium by IC

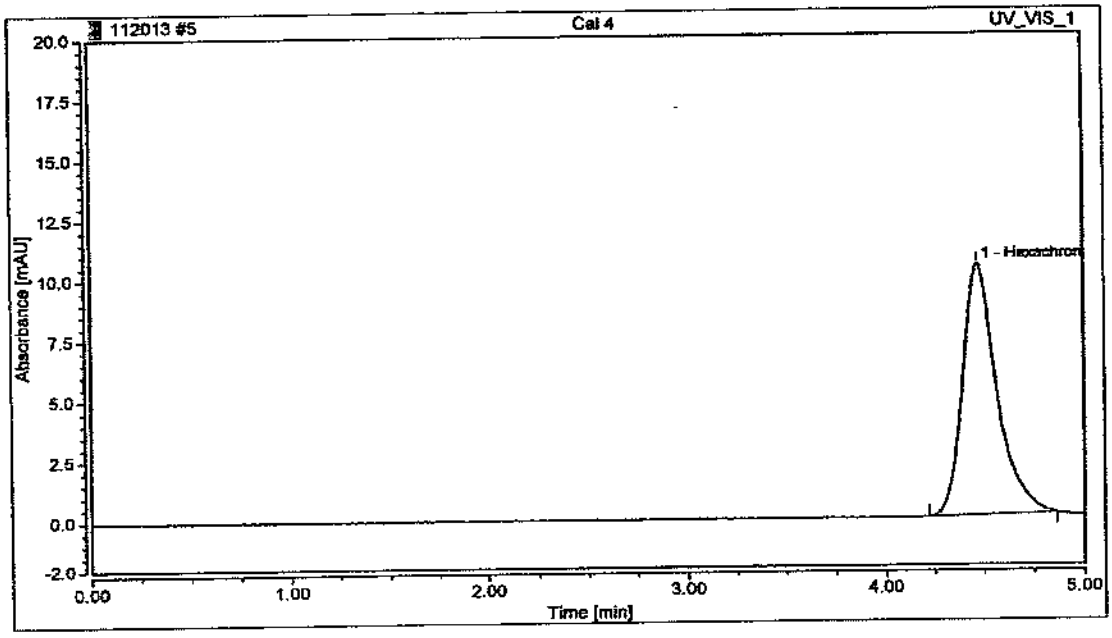
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 2 1 2011

Sample Name:	Cal 4	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 08:20	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	5		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.47	2.0743	192.034631



Reviewed/Verified By:

Date: 7/22/11

USF03 2924

Lancaster Laboratories

Hexavalent Chromium by IC

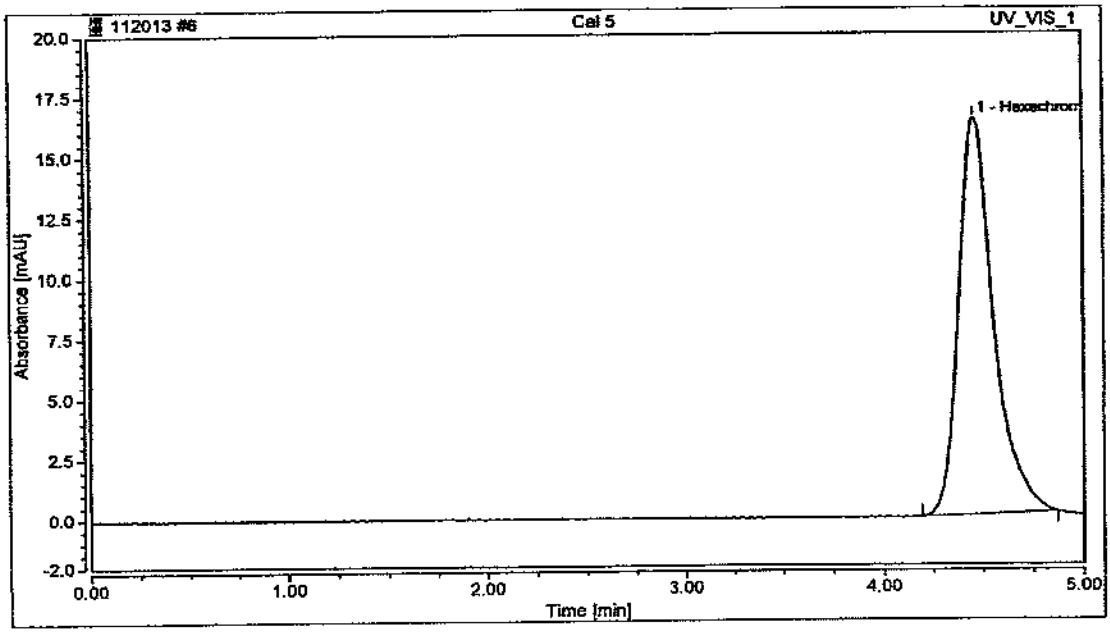
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 2 1 2011

Sample Name:	Cal 5	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 08:26	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	6		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.46	3.3115	304.556525



Reviewed/Verified By:

Date: 7/22/11

USP63 2925

Lancaster Laboratories

Hexavalent Chromium by IC

Elyse P. Brunstetter
Chemist

Reviewer/Enterer:

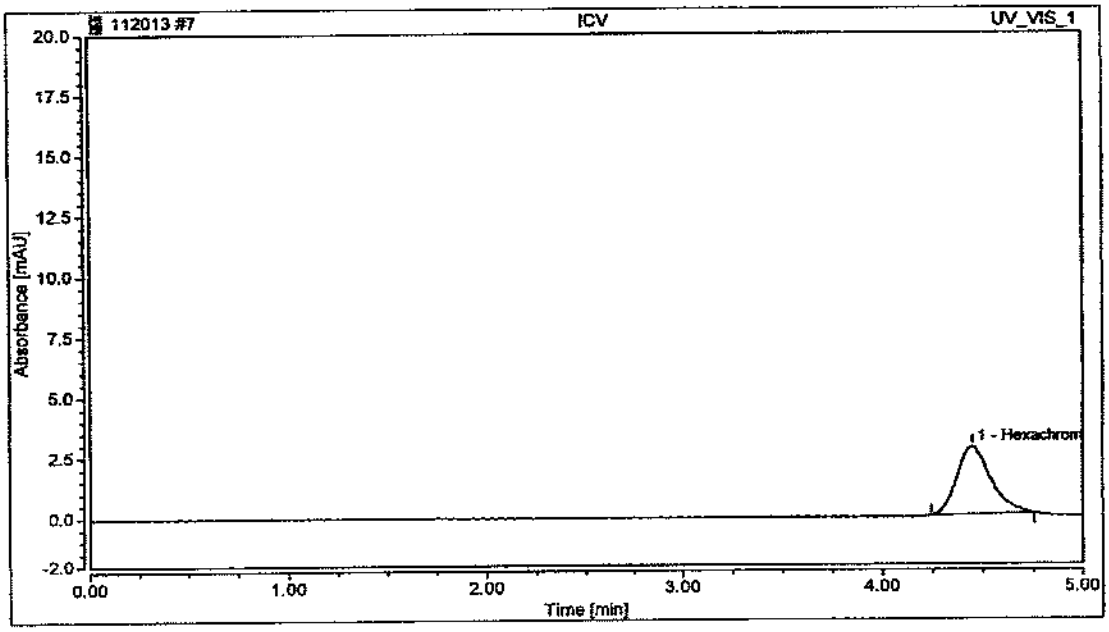
Date: JUL 2 1 2011

Sample Name:	ICV	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 08:32	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	7		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.45	0.5456	53.012951

TV= 50
106%



Reviewed/Verified By:

Date: 8/2/11

USP83 2926

Default/Integration

Chromeleon (c) Dionex
Version 7.1.0.898

Lancaster Laboratories

Hexavalent Chromium by IC

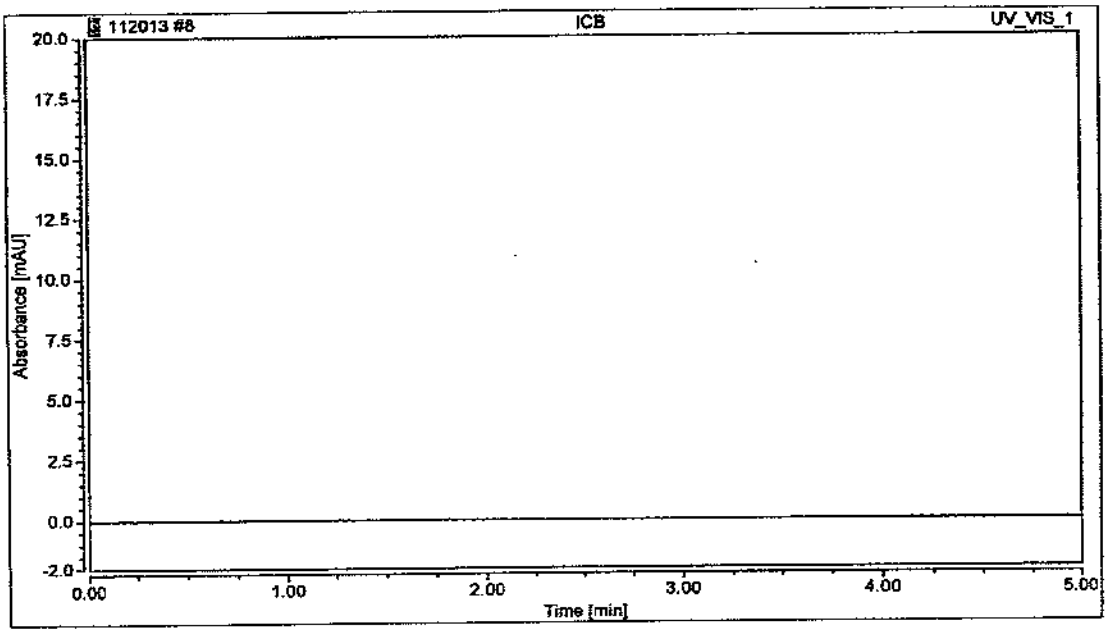
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 2 1 2011

Sample Name:	ICB	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 08:39	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	8		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 5/22/11

USP83 2927

Lancaster Laboratories

Hexavalent Chromium by IC

Elyse P. Brunstetter
Chemist

Reviewer/Enterer:

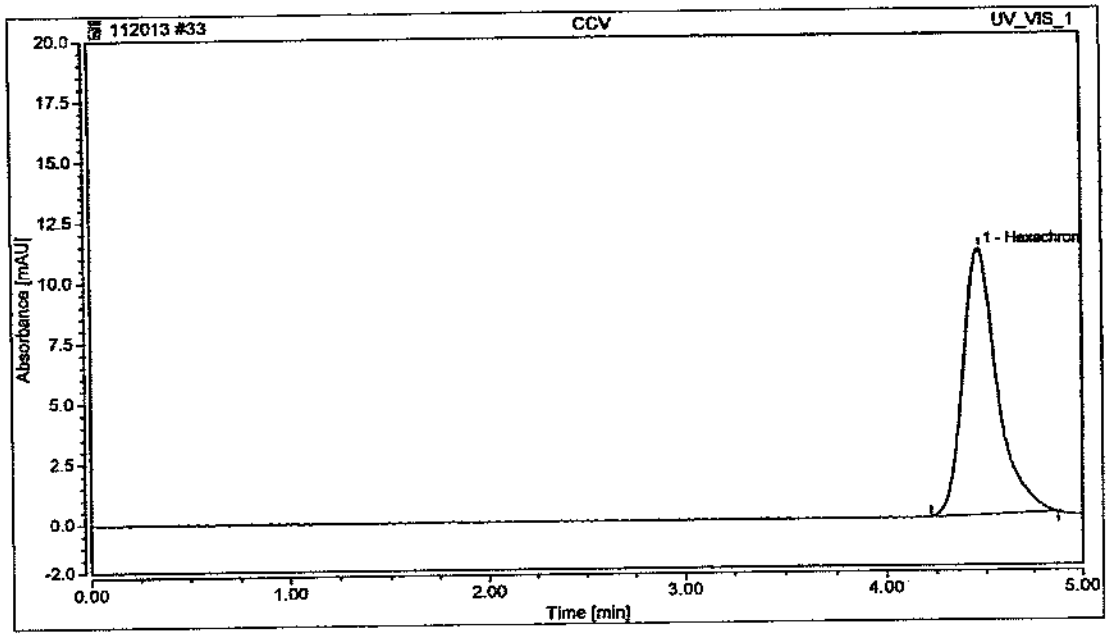
Date: JUL 2 1 2011

Sample Name:	CCV	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 15:29	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	33		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.47	2.2275	205.970859

N=200
103%



Reviewed/Verified By:

Date: 7/22/11

USP63 2928

Default/Integration

Chromeleon (c) Dionex
Version 7.1.0.898

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer:

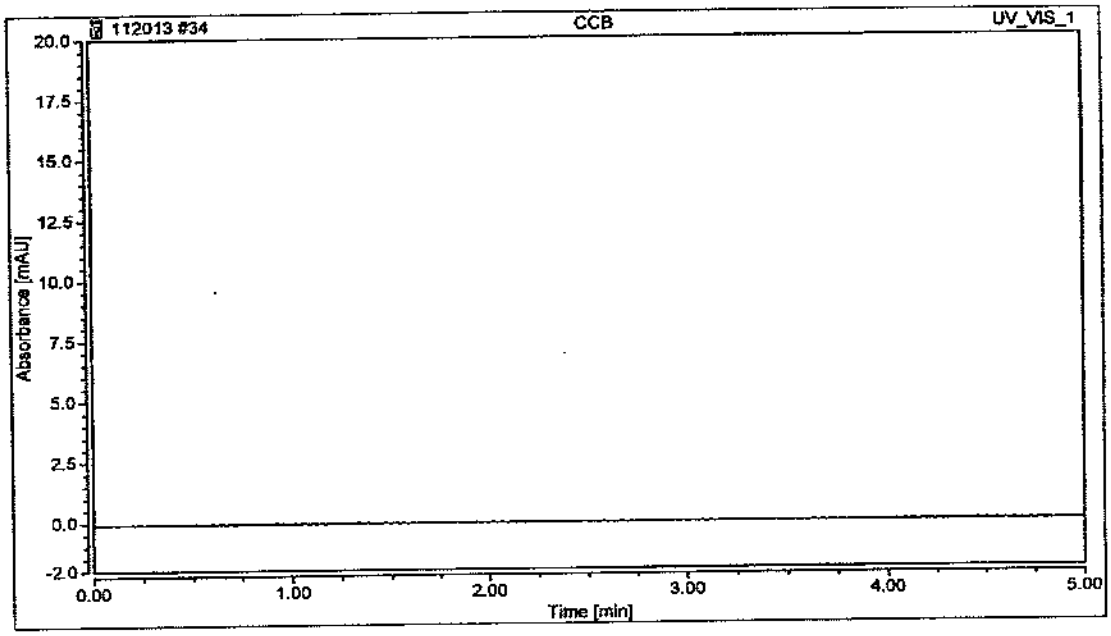
Elyse P. Brunstetter
Chemist

Date: JUL 2 1 2011

Sample Name:	CCB	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 15:35	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	34		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 8/22/11

USP03 2929

Lancaster Laboratories

Hexavalent Chromium by IC

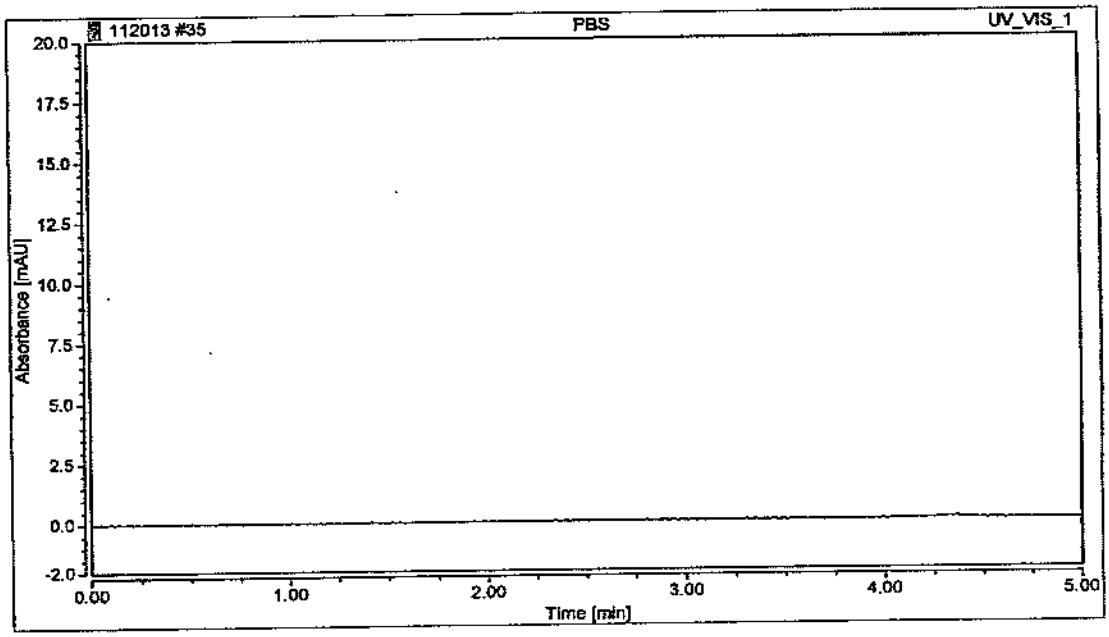
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 22 2011

Sample Name:	PBS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 16:59	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762
Injection Number:	35		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 7/22/11

USF83 2939

Default/Integration

Chromeleon (c) Dionex Version 7.1.0.898

Lancaster Laboratories

Hexavalent Chromium by IC

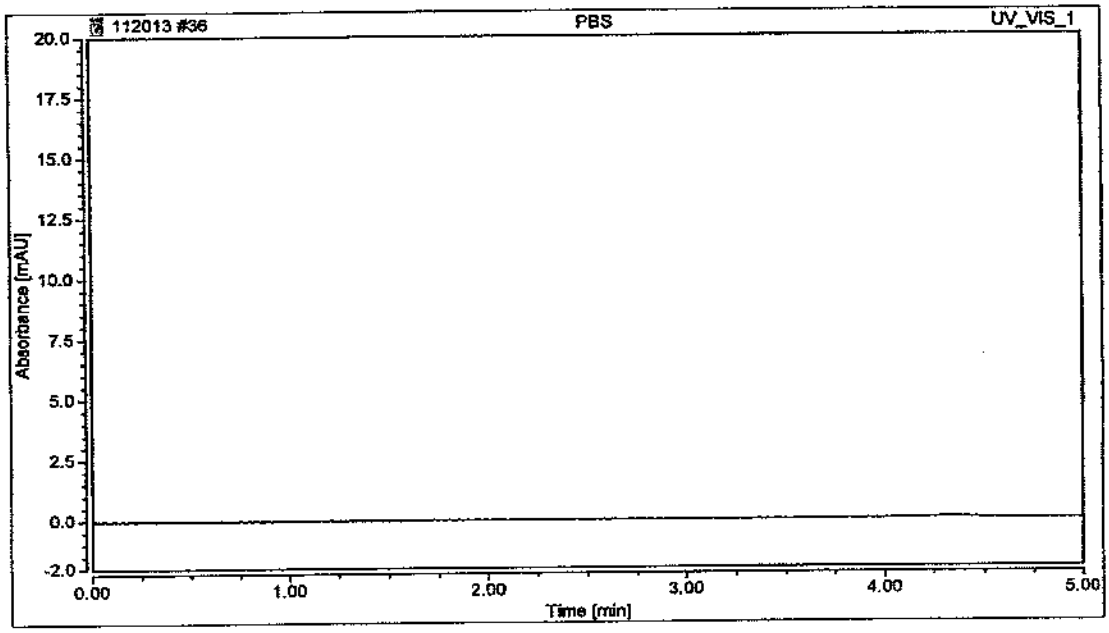
Reviewer/Enterer:

Date:

Sample Name:	PBS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 17:05	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	36		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

USP83 3931

Lancaster Laboratories

Hexavalent Chromium by IC

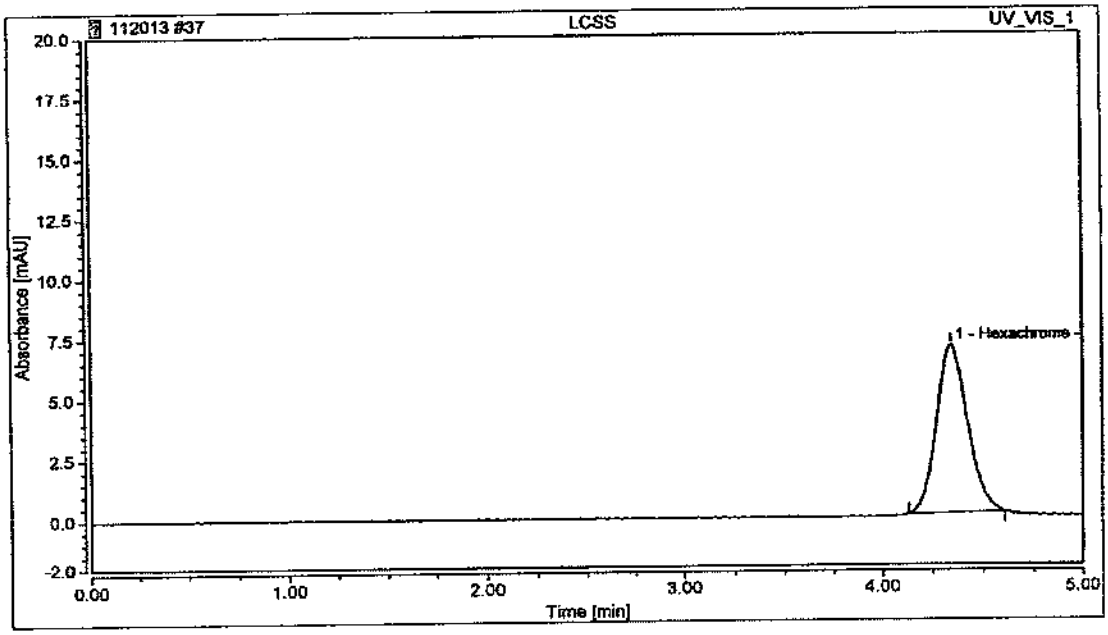
Reviewer/Enterer:

Date:

Sample Name:	LCSS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 17:11	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	37		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.34	1.2303	4.611076



Reviewed/Verified By:

Date:

USP63 2932

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 2 2 2011

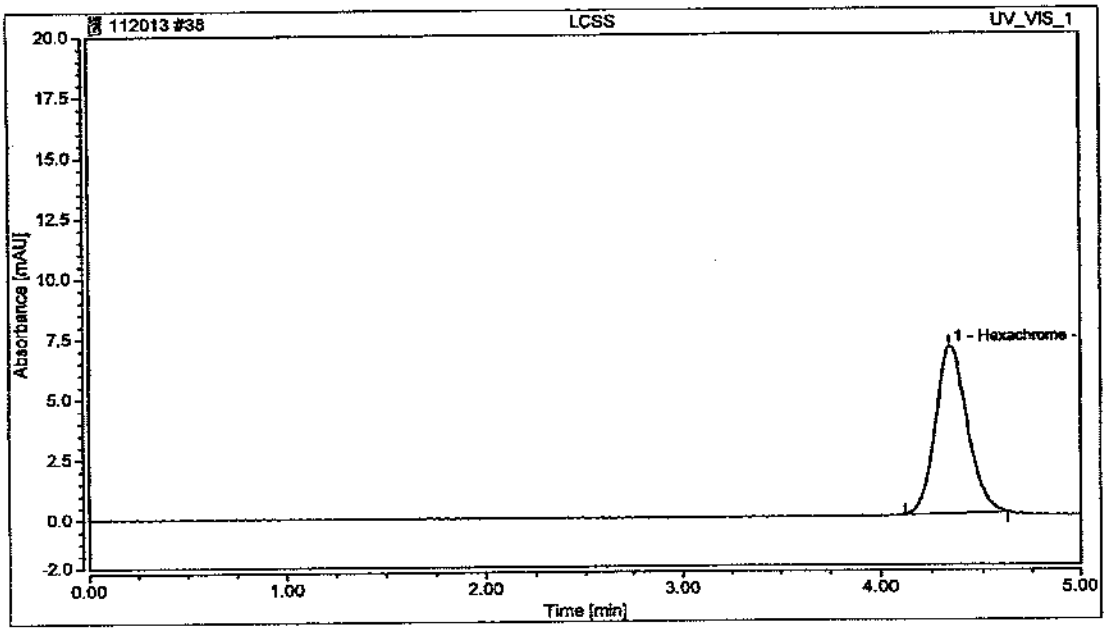
Sample Name:	LCSS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 17:17	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	38		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.34	1.2533	4.694825

TV = 5

94%



Reviewed/Verified By:

Date: 7/22/11

USP83 2933

Default/Integration

Chromeleon (c) Dionex Version 7.1.0.898

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter Chemist

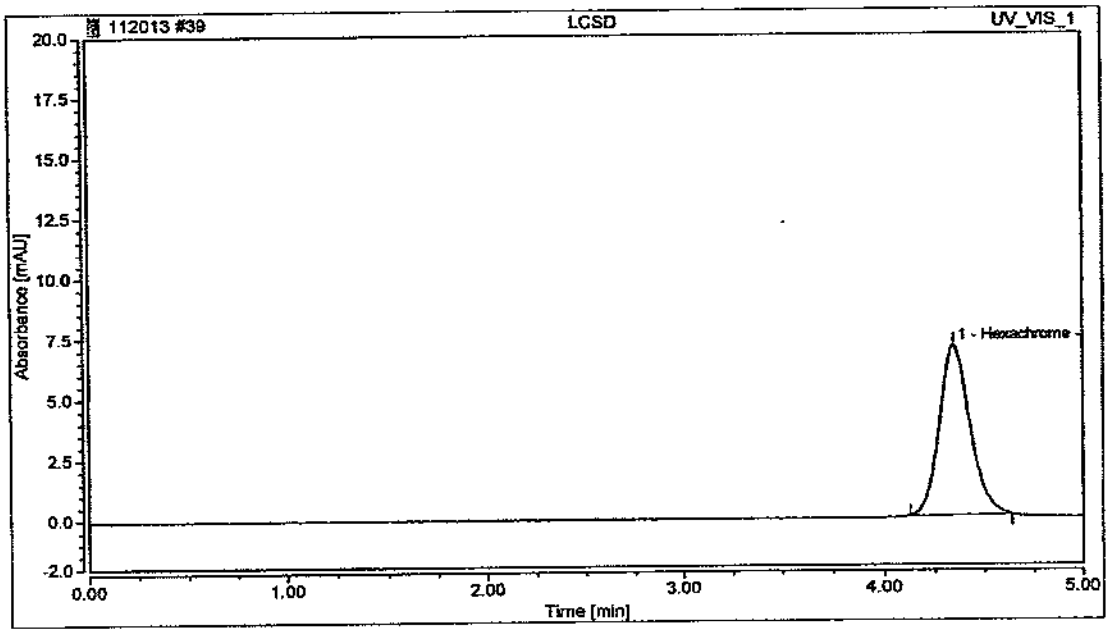
Date: JUL 22 2011

Sample Name:	LCSD	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 17:24	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762
Injection Number:	39		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.34	1.2531	4.694095

TN=5
94%



Reviewed/Verified By:

Date: 7/22/11

USP83 2934

Lancaster Laboratories

Hexavalent Chromium by IC

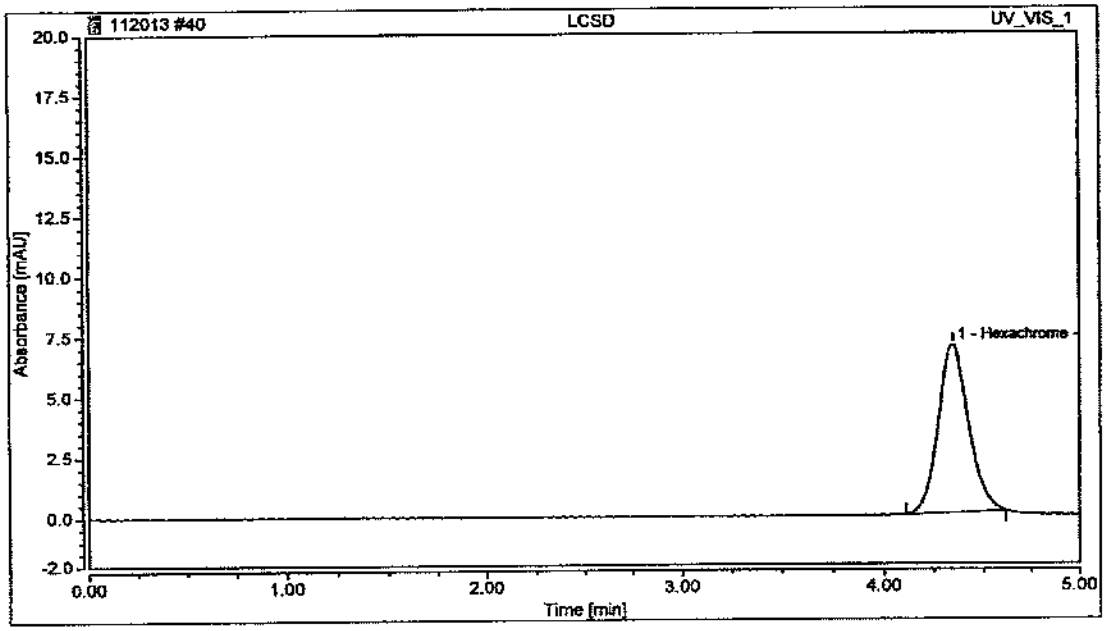
Reviewer/Enterer:

Date:

Sample Name:	LCSD	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 17:30	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762
Injection Number:	40		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.35	1.2410	4.650286



Reviewed/Verified By:

Date:

USP63 2935

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter Chemist

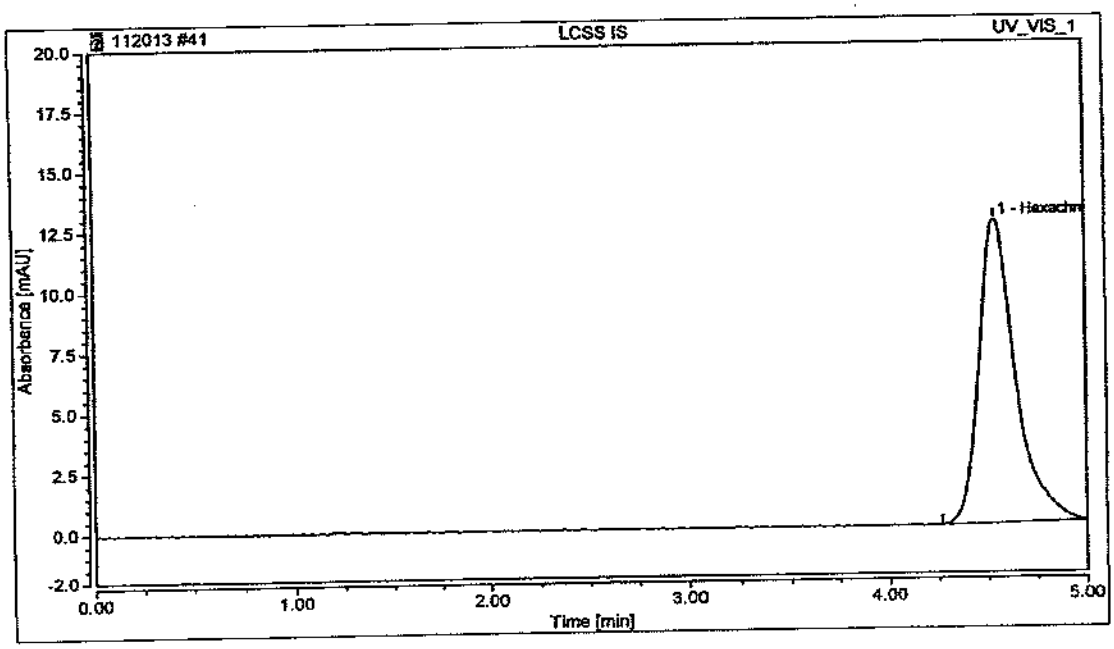
Date: JUL 22 2011

Sample Name:	LCSS IS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 17:36	Schedule File Name:	112013
Dilution Factor:	100	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	41		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.53	2.6755	986.863968

991
100%



Reviewed/Verified By:

Date: 8/22/11

USFB3 2936

Chromeleon (c) Dionex Version 7.1.0.898

Default/Integration

Lancaster Laboratories

Hexavalent Chromium by IC

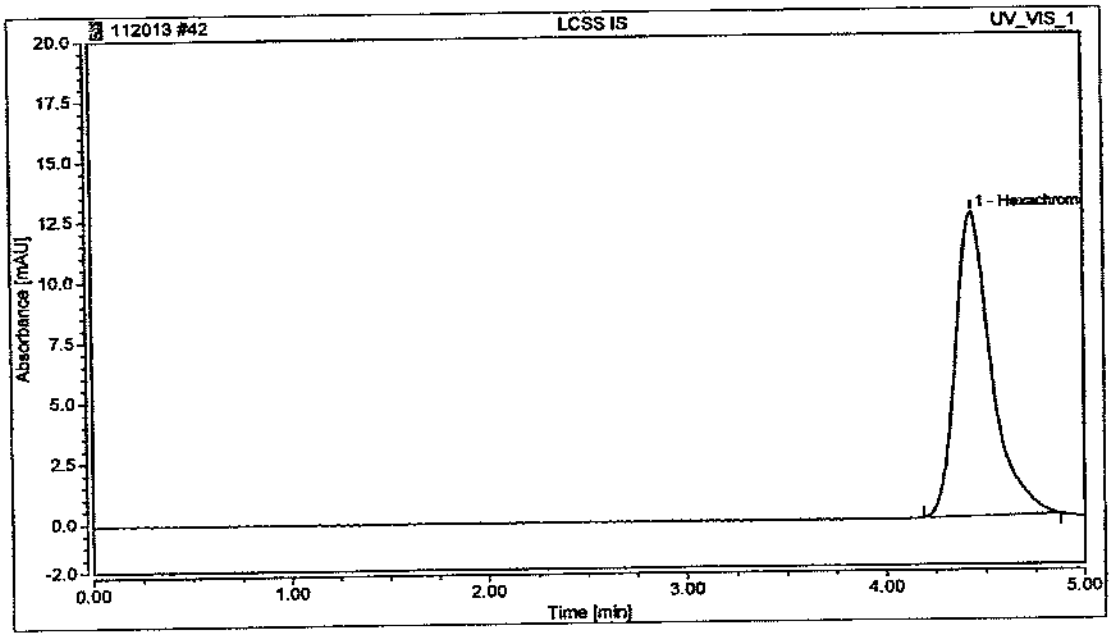
Reviewer/Enterer:

Date:

Sample Name:	LCSS IS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 17:42	Schedule File Name:	112013
Dilution Factor:	100	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	42		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.43	2.6093	962.756270



Reviewed/Verified By:

Date:

USP63 2937

Lancaster Laboratories

Hexavalent Chromium by IC

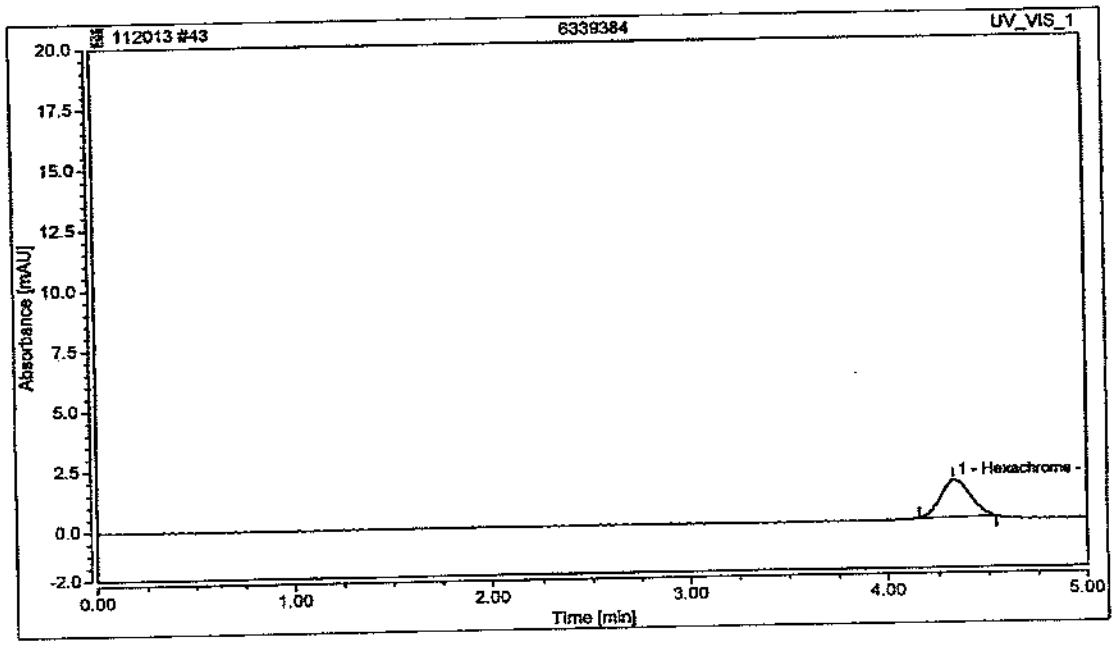
Reviewer/Enterer:

Date:

Sample Name:	6339384	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 17:48	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	43		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.33	0.2644	1.097551



Reviewed/Verified By:

Date:

USF03 2938

Lancaster Laboratories

Hexavalent Chromium by IC

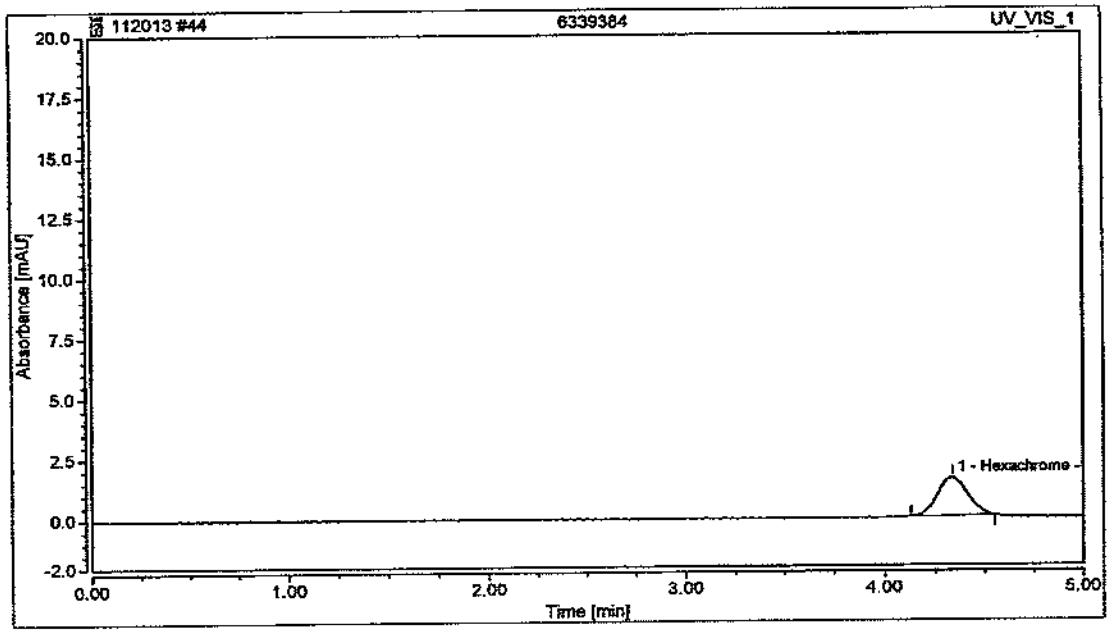
Reviewer/Enterer: Elyse P. Brumstetter Chemist

Date: JUL 22 2011

Sample Name:	6339384	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 17:55	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762
Injection Number:	44		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.34	0.2783	1.148206



Reviewed/Verified By:

Date: 7/22/11

USP83 2939

Lancaster Laboratories

Hexavalent Chromium by IC

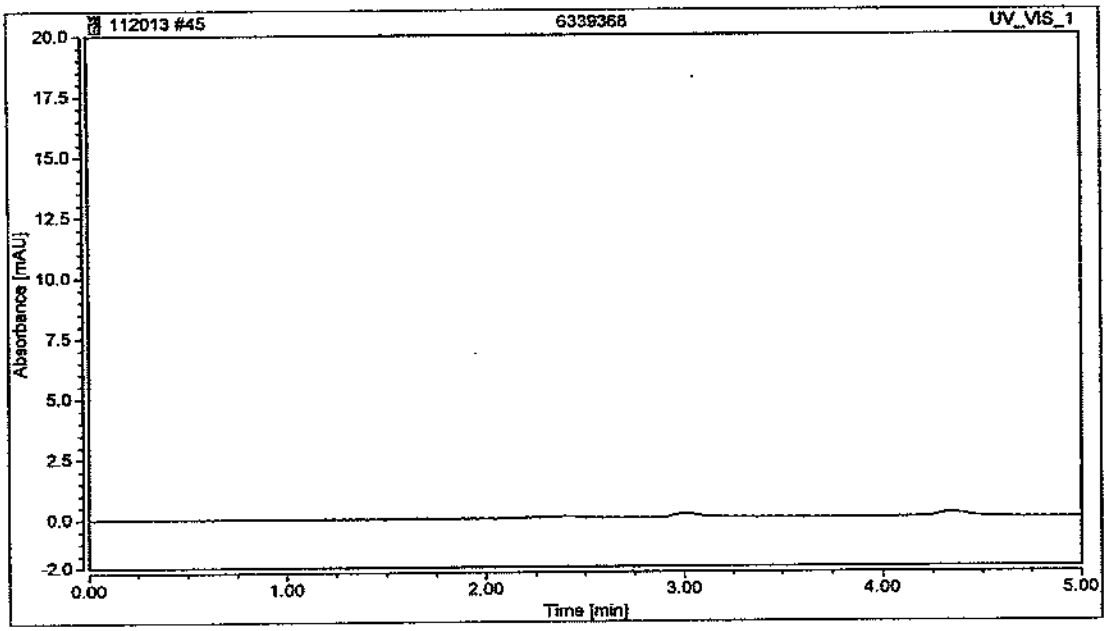
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 22 2011

Sample Name:	6339368	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:01	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	24.30	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	45		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 8/22/11

USP83 2946

Lancaster Laboratories

Hexavalent Chromium by IC

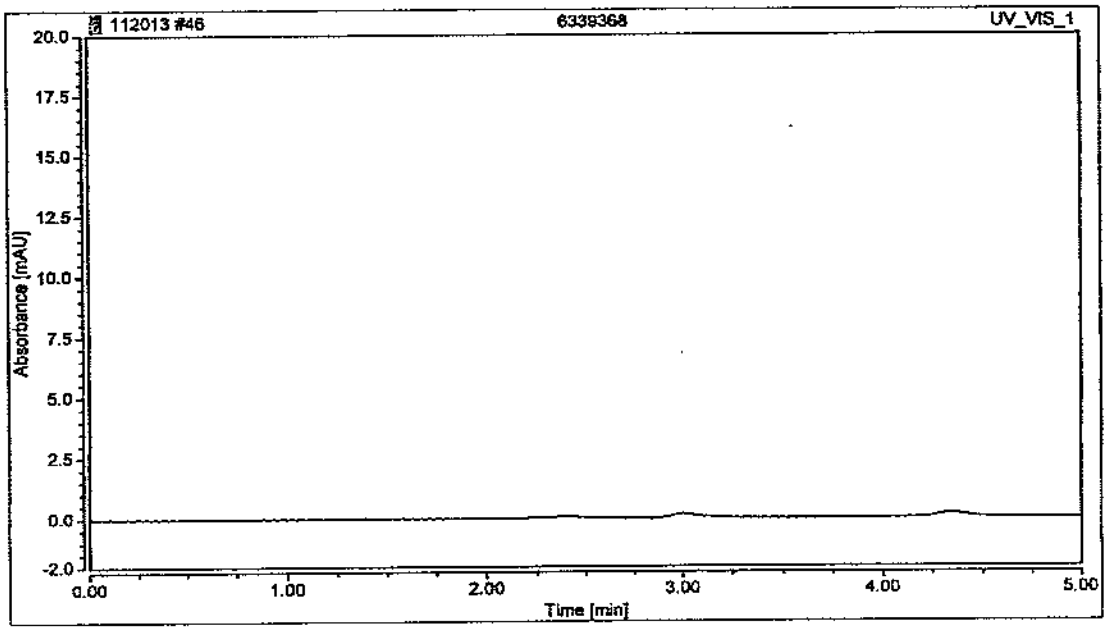
Reviewer/Enterer:

Date:

Sample Name:	6339368	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:07	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	24.30	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	46		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

USP83 2941

Lancaster Laboratories

Hexavalent Chromium by IC

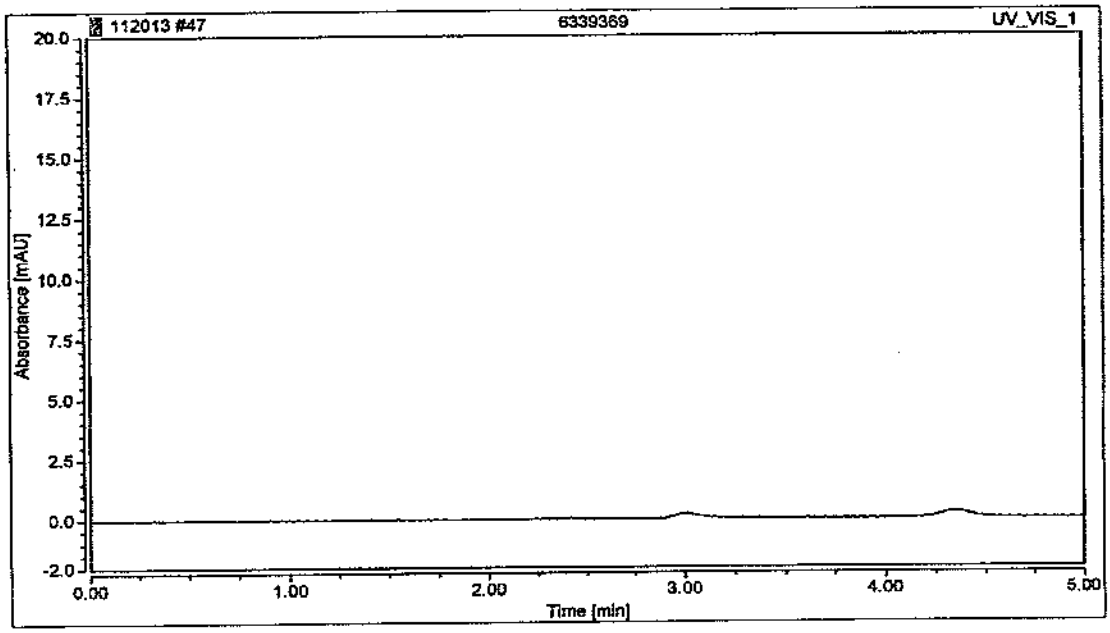
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 22 2011

Sample Name:	6339369	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:13	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.60	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	47		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 7/22/11

USP63 3942

Lancaster Laboratories

Hexavalent Chromium by IC

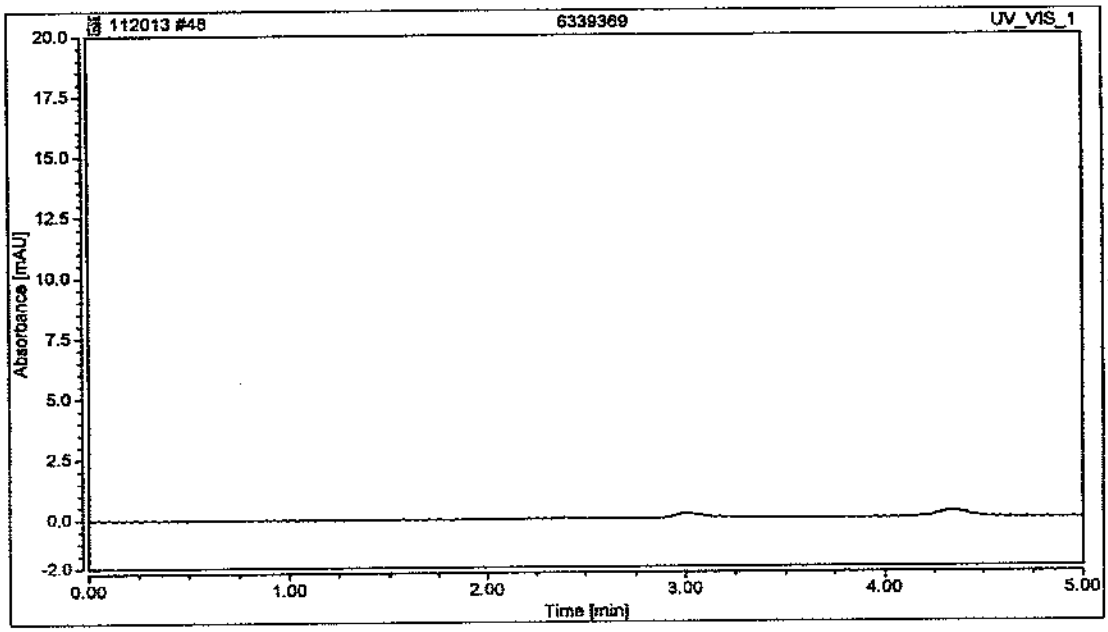
Reviewer/Enterer:

Date:

Sample Name:	6339369	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:20	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.60	Column Type: Serial #	NG1-021762
Injection Number:	48		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

USP83 2943

Lancaster Laboratories

Hexavalent Chromium by IC

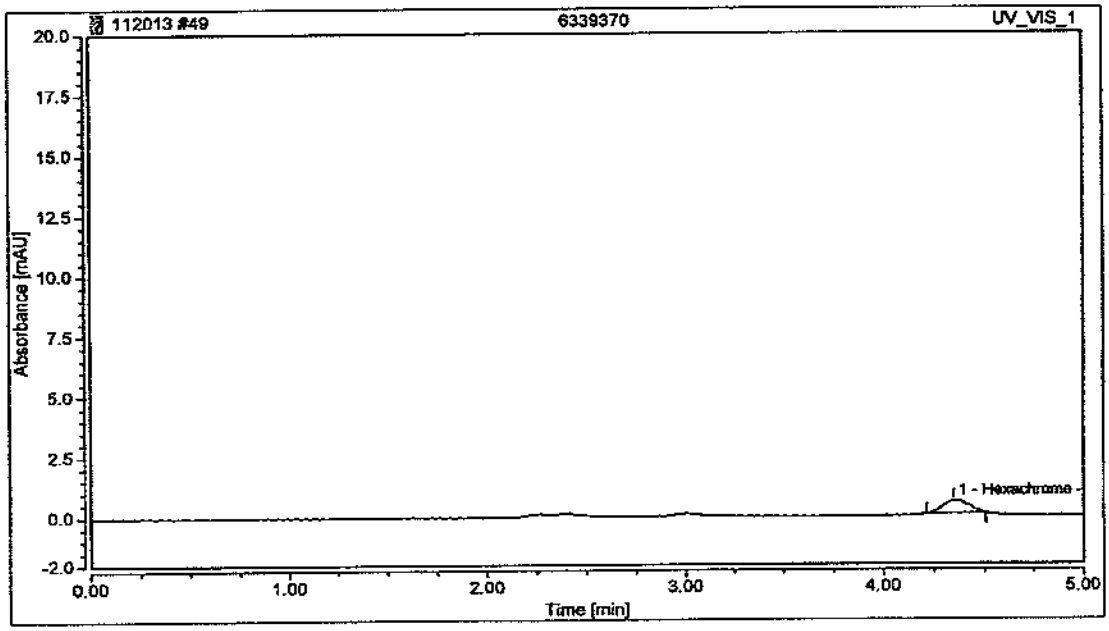
Reviewer/Enterer:

Date:

Sample Name:	6339370	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:26	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.40	Column Type: Serial #	NG1-021762
Injection Number:	49		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.35	0.0812	0.424505



Reviewed/Verified By:

Date:

USP83 2944

Lancaster Laboratories

Hexavalent Chromium by IC

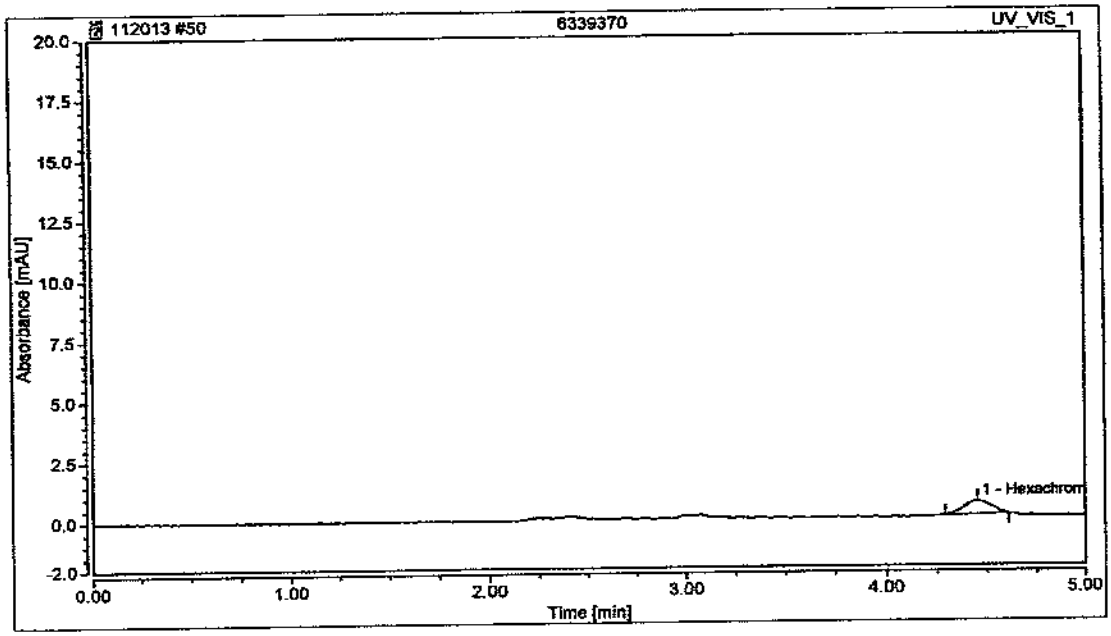
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 2 2 2011

Sample Name:	6339370	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:32	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.40	Column Type: Serial #	NG1-021762
Injection Number:	50		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.45	0.0913	0.460520



Reviewed/Verified By:

Date: 8/22/11

USF83 2945

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer:

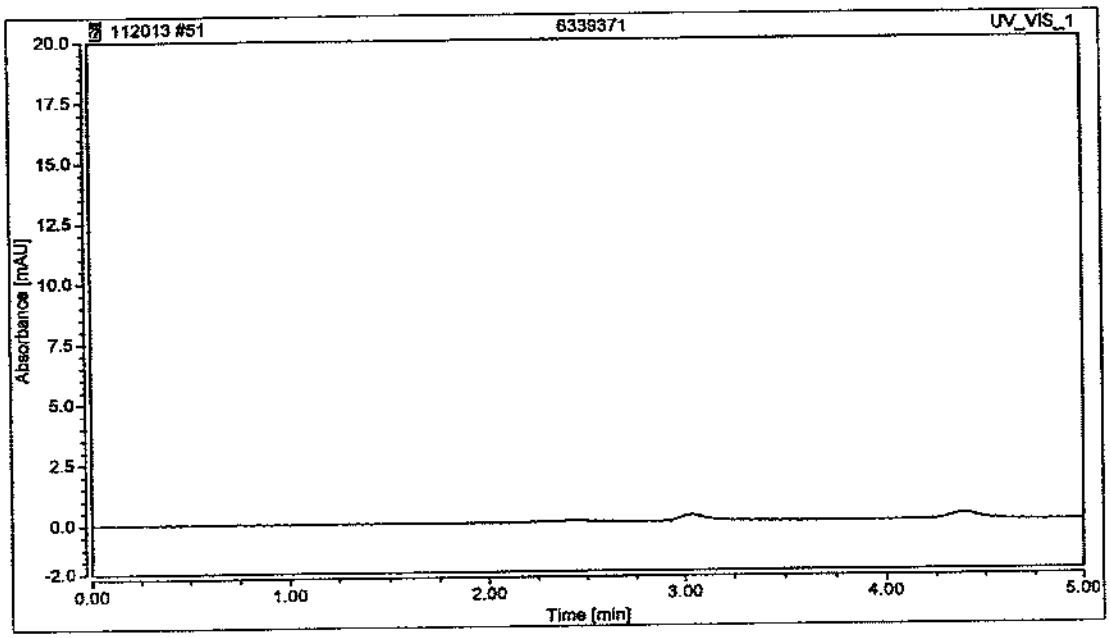
Elyse P. Baumstetter
Chemist

Date: JUL 2 2 2011

Sample Name:	6339371	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:38	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	24.30	Column Type: Serial #	NG1-021762
Injection Number:	51		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 7/22/11

USE03 2946

Lancaster Laboratories

Hexavalent Chromium by IC

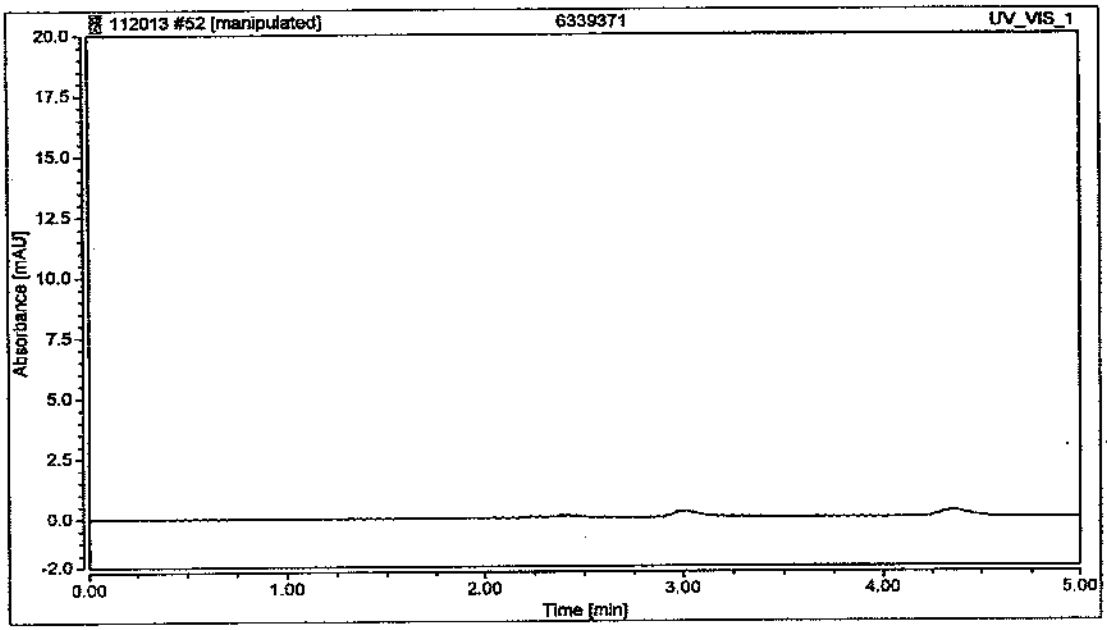
Reviewer/Enterer:

Date:

Sample Name:	6339371	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:44	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	24.30	Column Type: Serial #	NG1-021762
Injection Number:	52		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

M=Manually integrated

Analyst EPB 2819

approved by 07/22/11

reason Straighten baseline

USP83 2947

Lancaster Laboratories

Hexavalent Chromium by IC

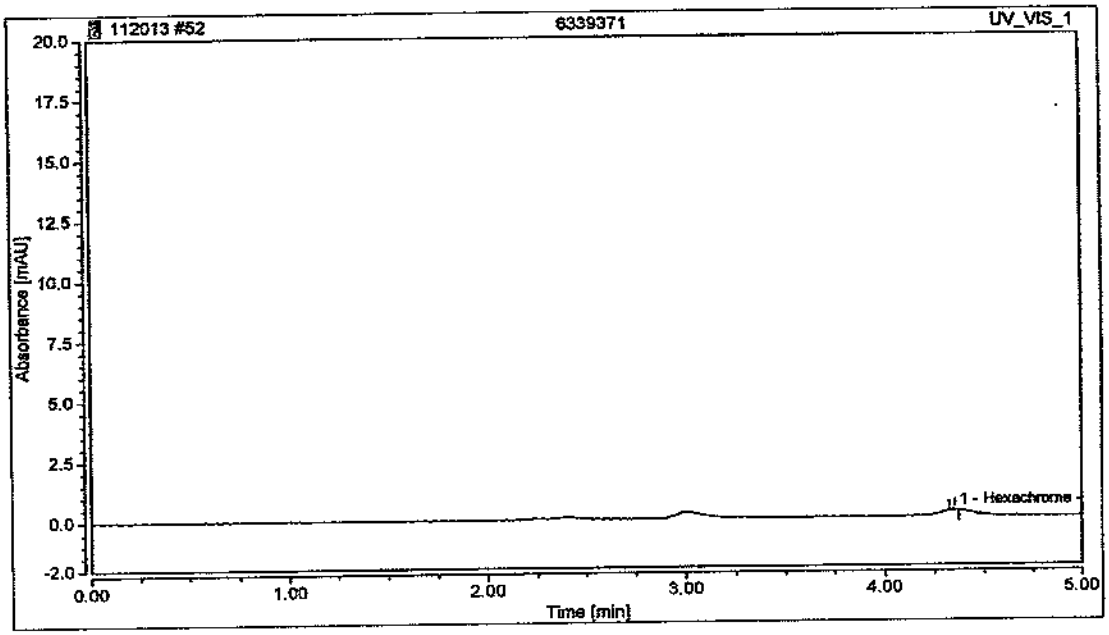
Reviewer/Enterer:

Date:

Sample Name:	6339371	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:44	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	24.30	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	52		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.35	0.0012	0.144194



Reviewed/Verified By:

Date:

USP83 2948

Lancaster Laboratories

Hexavalent Chromium by IC

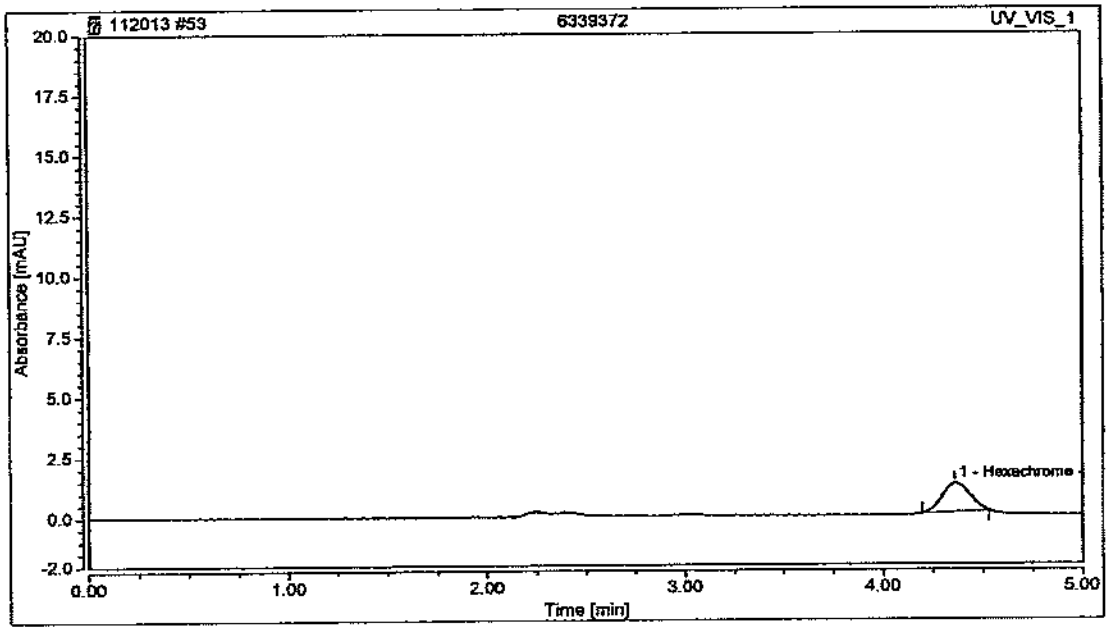
Reviewer/Enterer:

Date:

Sample Name:	6339372	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:51	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	24.40	Column Type: Serial #	NG1-021762
Injection Number:	53		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.36	0.1902	0.848167



Reviewed/Verified By:

Date:

USP83 2949

Lancaster Laboratories

Hexavalent Chromium by IC

Elyse P. Brunstetter
Chemist

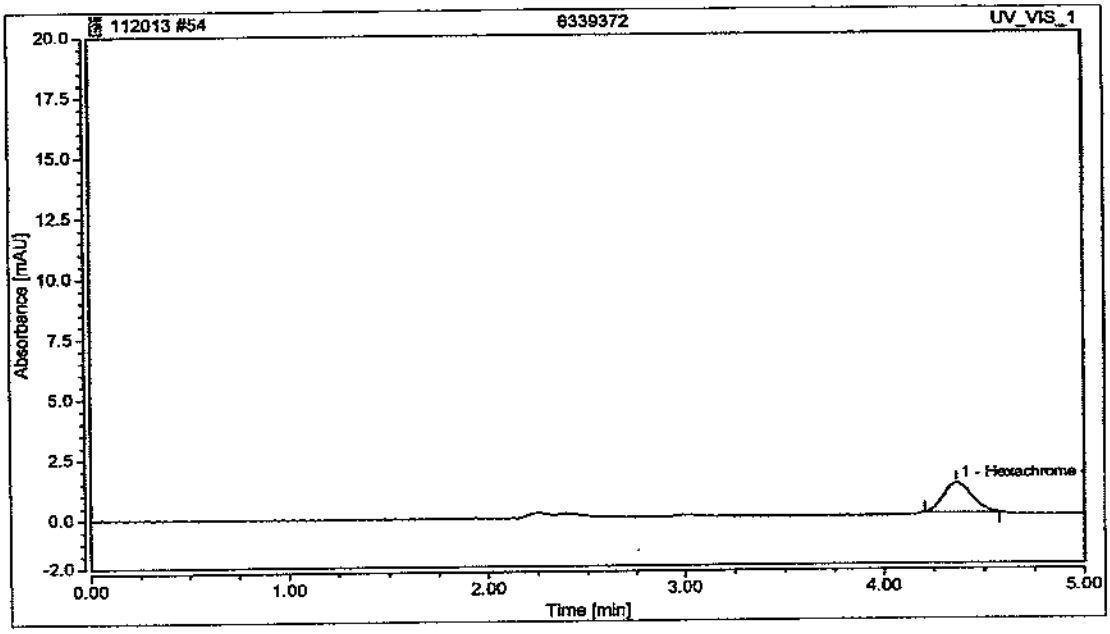
Reviewer/Enterer:

Date: JUL 2 2 2011

Sample Name:	6339372	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 18:57	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	24.40	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	54		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.36	0.2063	0.908189



Reviewed/Verified By:

Date: 7/22/11

USP03 2958

Lancaster Laboratories

Hexavalent Chromium by IC

Elyse P. Brunstetter
Chemist

Reviewer/Enterer:

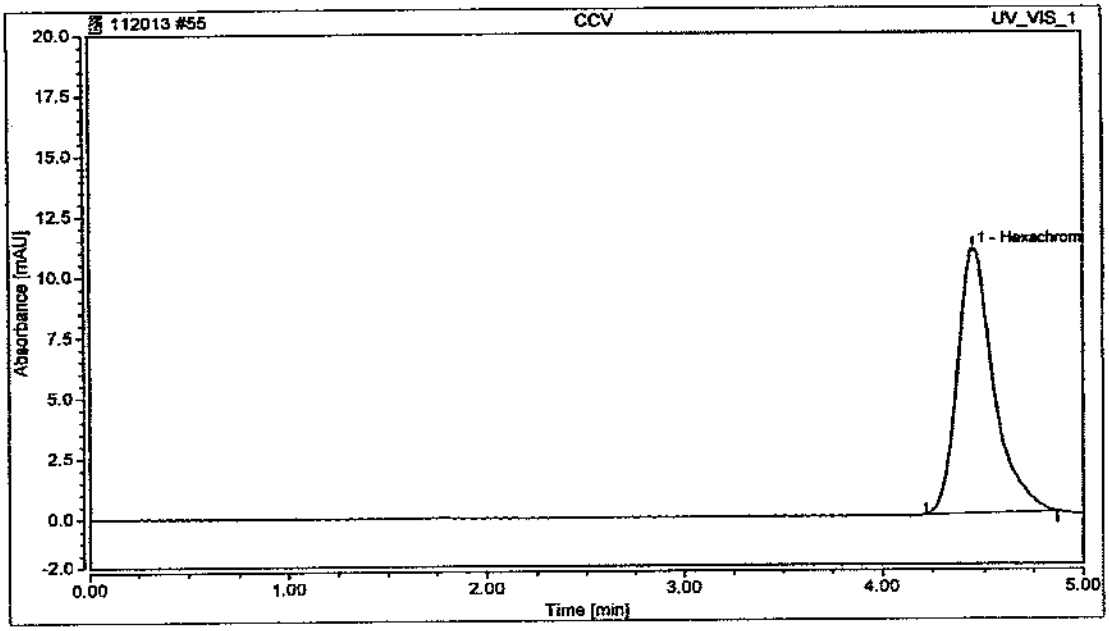
Date: JUL 2 2 2011

Sample Name:	CCV	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:03	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	55		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.45	2.2406	207.157816

TV=200
104%



Reviewed/Verified By:

Date: 8/22/11

USP83 2951

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer:

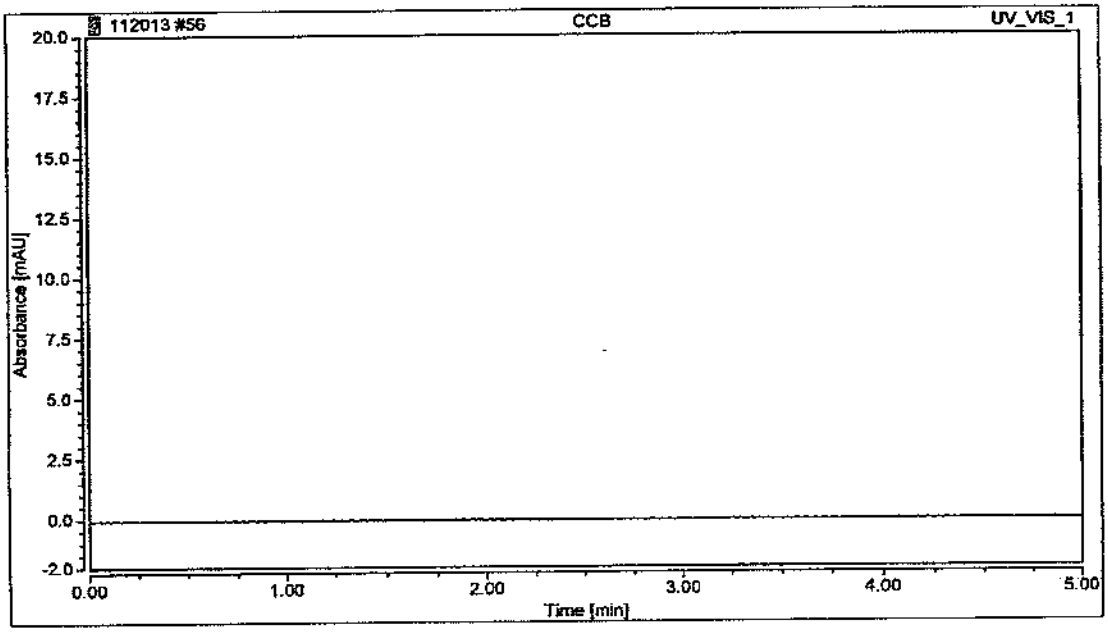
Elyse P. Brunstetter
Chemist

Date: JUL 2 2 2011

Sample Name:	CCB	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:09	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	56		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 8/24/11

USPB3 2952

Lancaster Laboratories

Hexavalent Chromium by IC

Elyse P. Brunstetter
Chemist

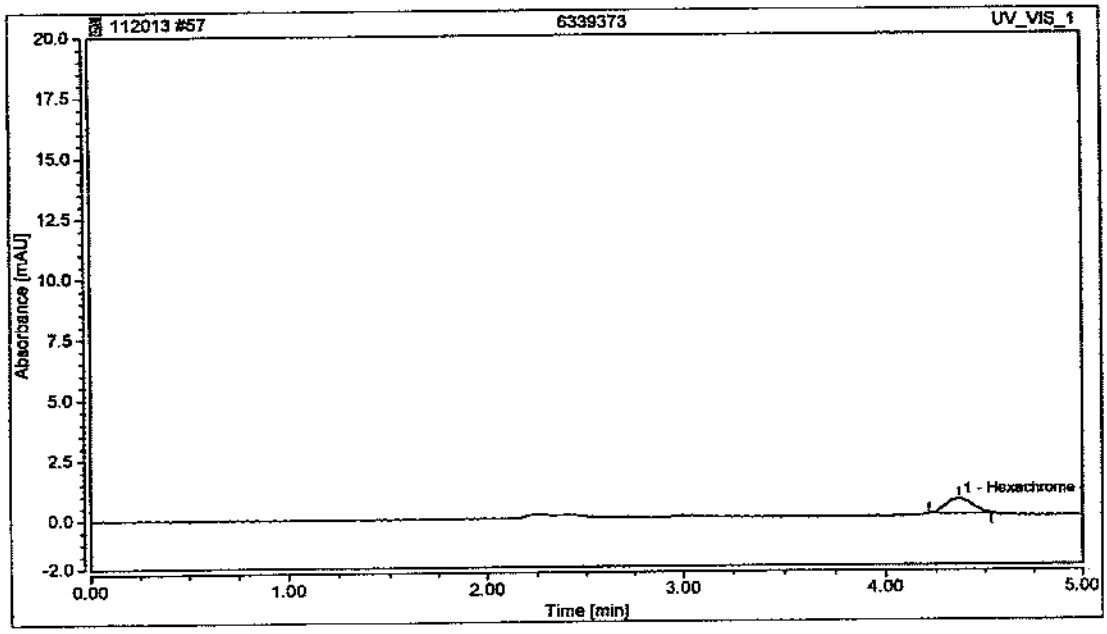
Reviewer/Enterer:

Date: JUL 2 2 2011

Sample Name:	6339373	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:16	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.10	Column Type: Serial #	NG1-021762
Injection Number:	57		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L, mg/kg
1	Hexachrome	4.37	0.0997	0.496606



Reviewed/Verified By:

Date: 7/24/11

USP33 2953

Lancaster Laboratories

Hexavalent Chromium by IC

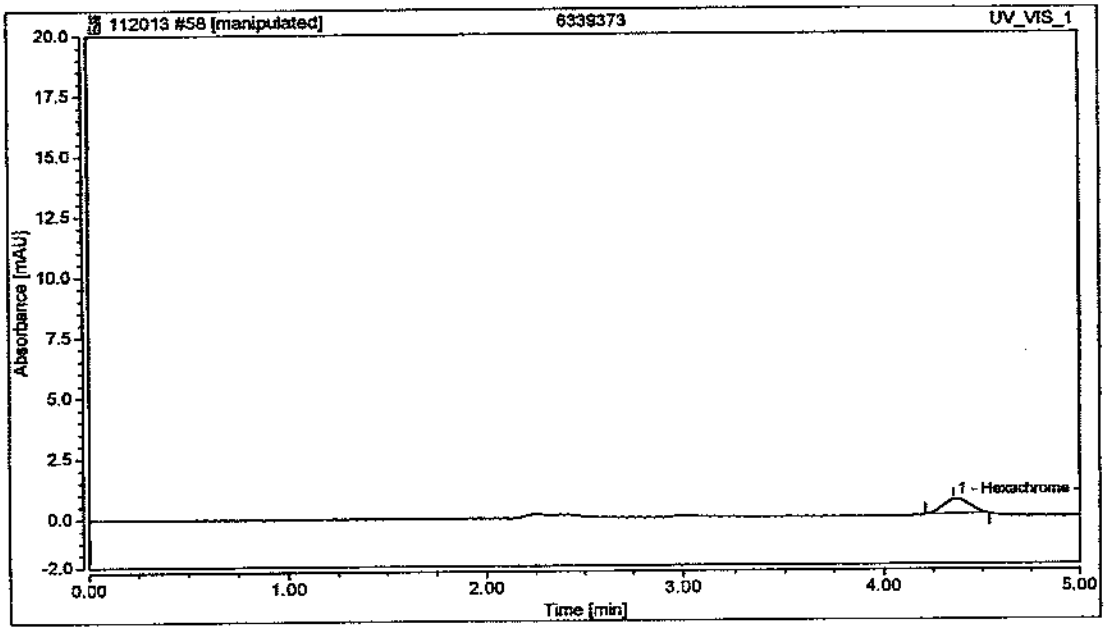
Reviewer/Enterer:

Date:

Sample Name:	6339373	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:22	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.10	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	58		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.35	0.0945	0.477758



Reviewed/Verified By:

Date:

M=Manually Integrated

Analyst EBB2819

approved by 07/21/11

reason Mark peak

USP83 2954

Lancaster Laboratories

Hexavalent Chromium by IC

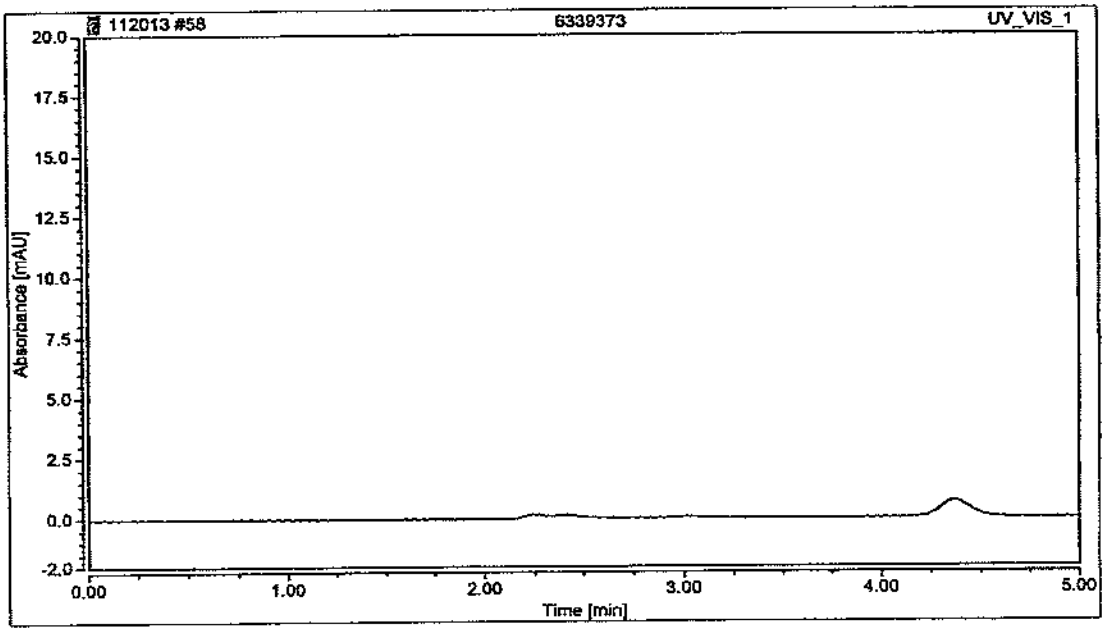
Reviewer/Enterer:

Date:

Sample Name:	6339373	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:22	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.10	Column Type: Serial #	NG1-021762
Injection Number:	58		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

USP83 2955

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer:

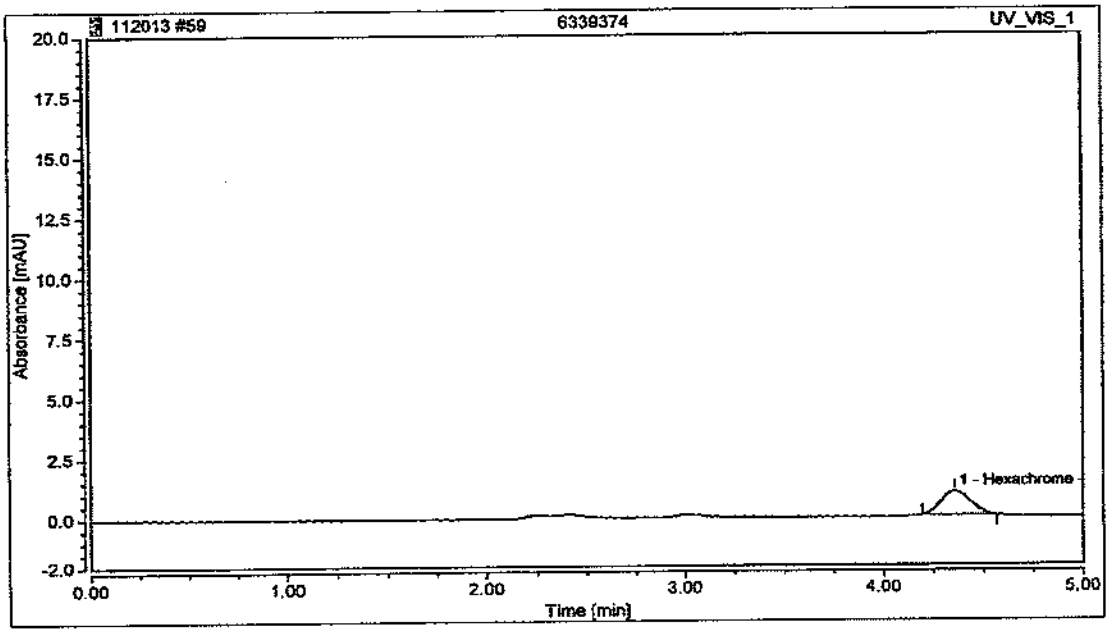
Elyse P. Brumstetter
Chemist

Date: JUL 2 2 2011

Sample Name:	6339374	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:28	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.10	Column Type: Serial #	NG1-021762
Injection Number:	59		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.36	0.1695	0.749477



Reviewed/Verified By:

Date: 7/22/11

USP93 2956

Default/Integration

Chromeleon (c) Dionex
Version 7.1.0.898

Lancaster Laboratories

Hexavalent Chromium by IC

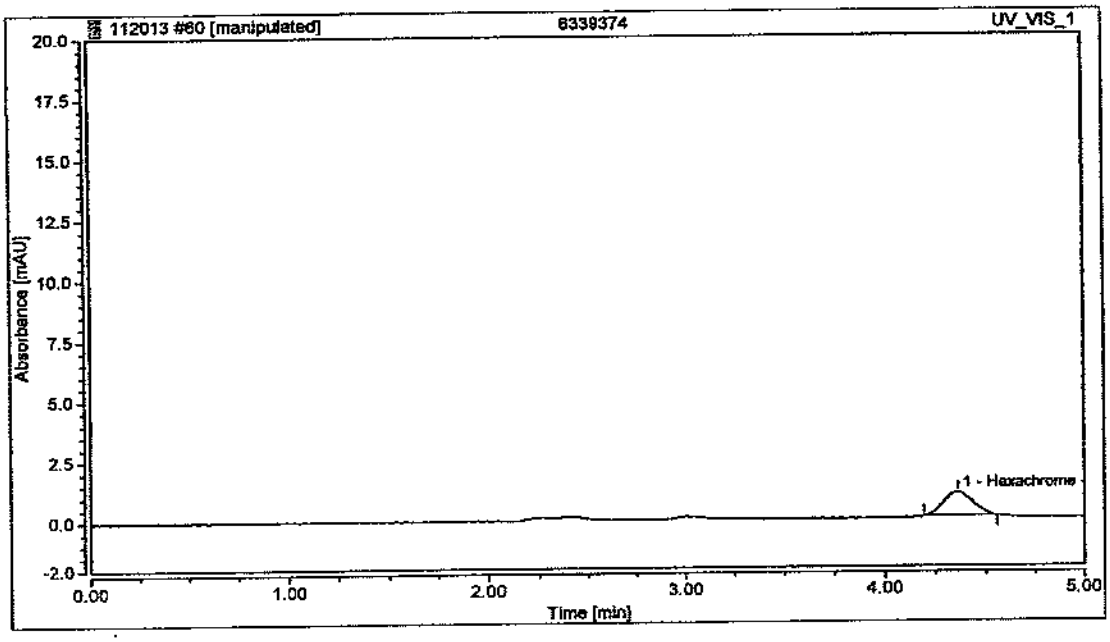
Reviewer/Enterer:

Date:

Sample Name:	6339374	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:34	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.10	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	60		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.36	0.1593	0.712332



Reviewed/Verified By:

Date:

M=Manually integrated

Analyst EBB289

approved by

reason Marked peak

USP83 2957

Lancaster Laboratories

Hexavalent Chromium by IC

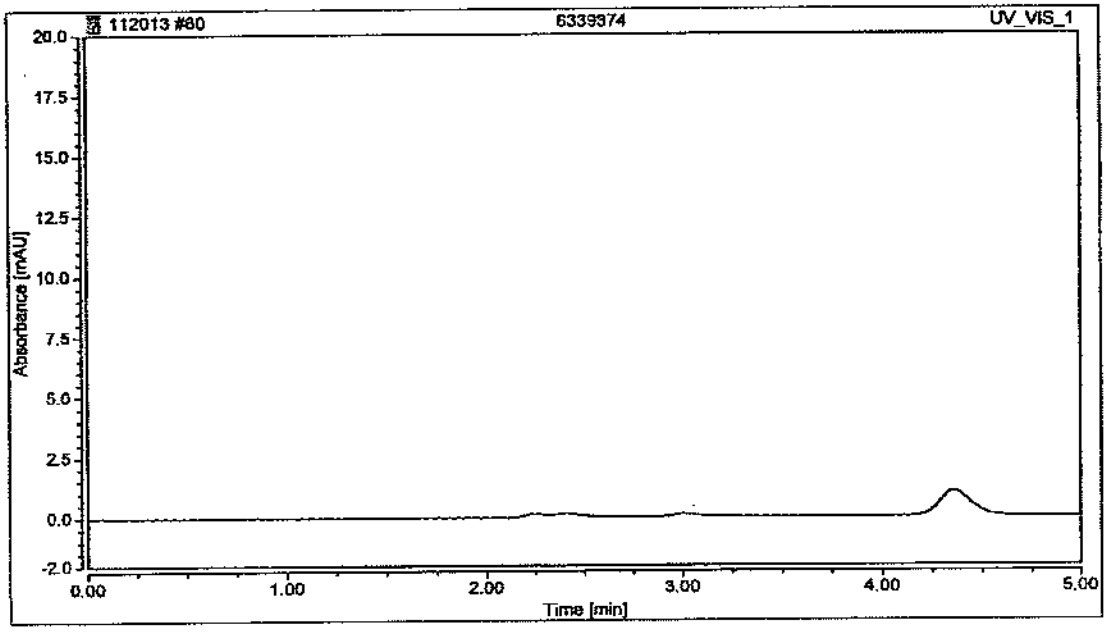
Reviewer/Enterer:

Date:

Sample Name:	6339374	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:34	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.10	Column Type: Serial #	NG1-021762
Injection Number:	60		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

USF83 2958

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer:

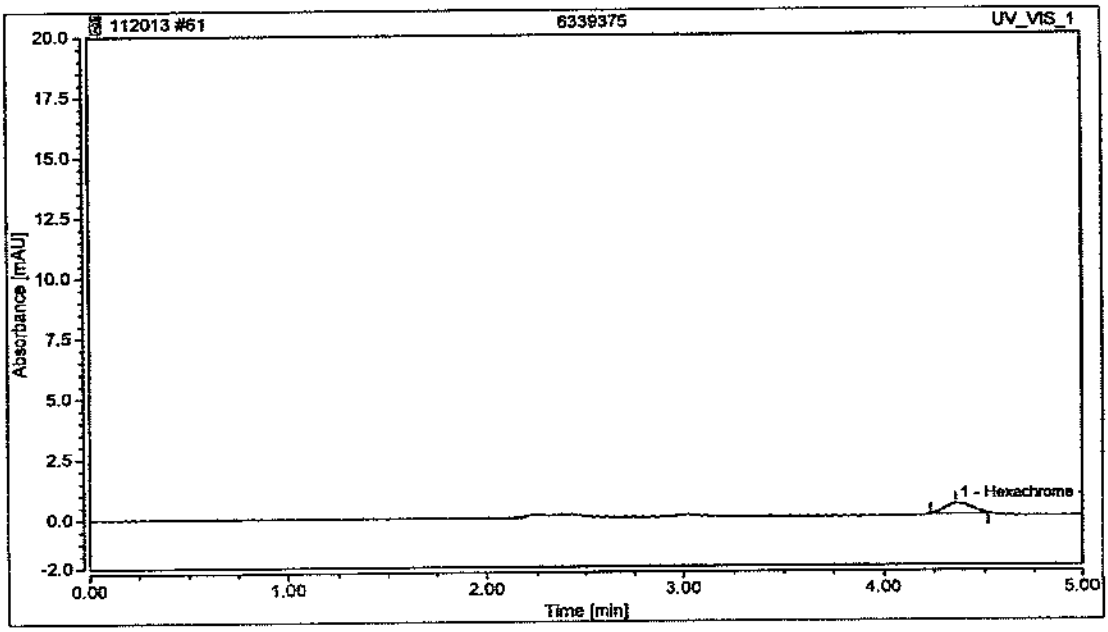
Elyse P. Brunstetter
Chemist

Date: JUL 2 2 2011

Sample Name:	6339375	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:40	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.30	Column Type: Serial #	NG1-021762
Injection Number:	61		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.36	0.0659	0.371018



Reviewed/Verified By:

Date: 7/22/11

USP03 2959

Default/Integration

Chromeleon (c) Dionex
Version 7.1.0.898

Lancaster Laboratories

Hexavalent Chromium by IC

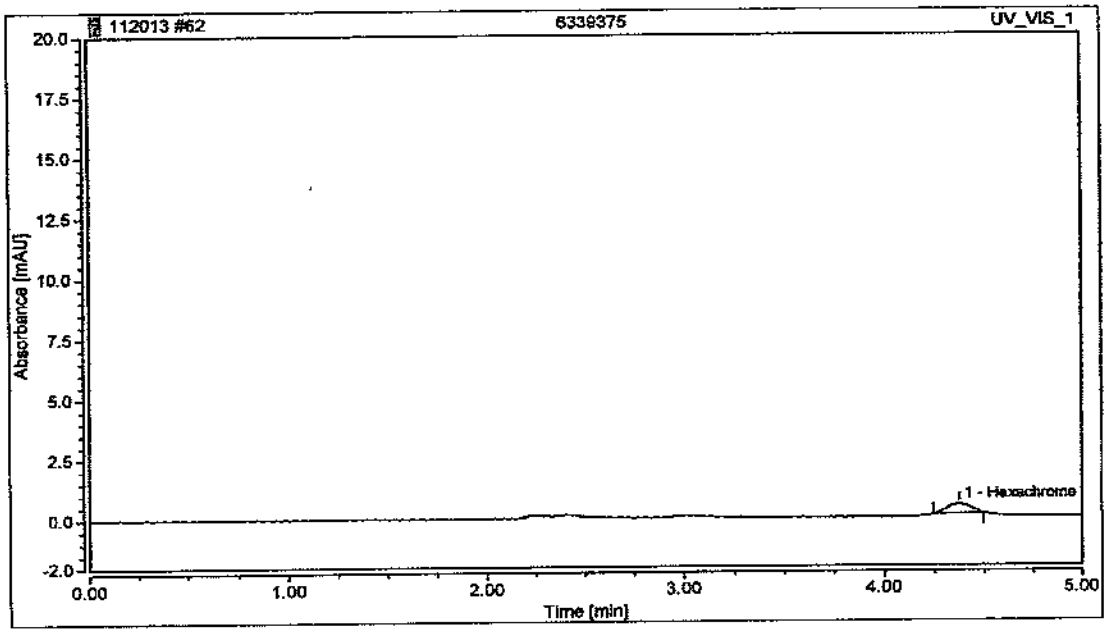
Reviewer/Enterer:

Date:

Sample Name:	6339375	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:47	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.30	Column Type: Serial #	NG1-021762
Injection Number:	62		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.38	0.0559	0.335077



Reviewed/Verified By:

Date:

USP83 2968

Lancaster Laboratories

Hexavalent Chromium by IC

Elyse P. Brunstetter
Chemist

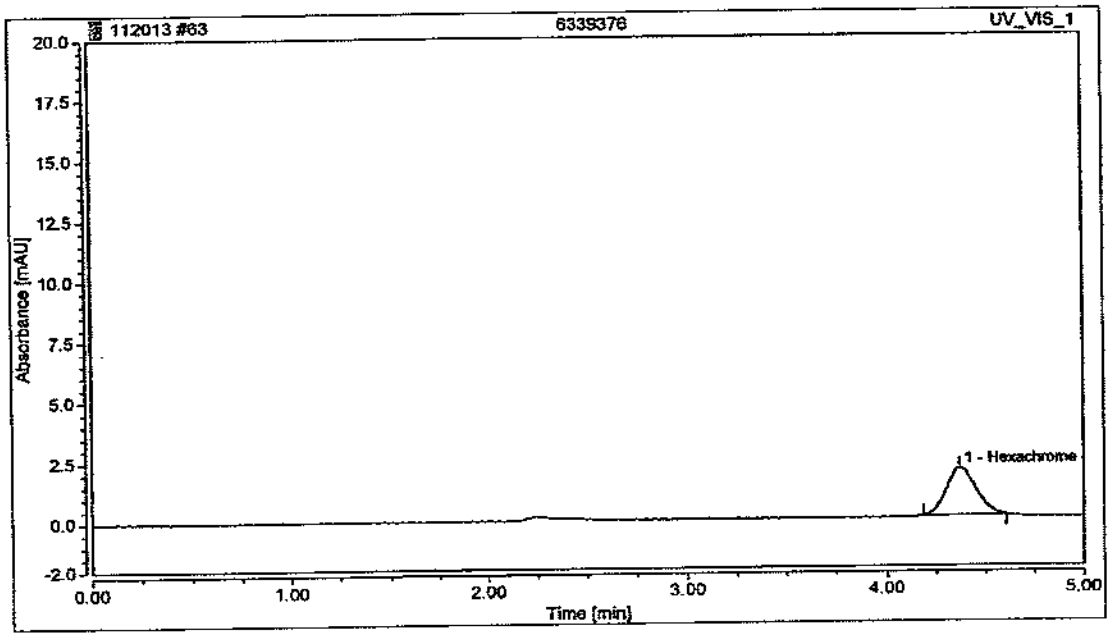
Reviewer/Enterer:

Date: JUL 2 2 2011

Sample Name:	6339376	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:53	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	26.00	Column Type: Serial #	NG1-021762
Injection Number:	63		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.37	0.3412	1.323919



Reviewed/Verified By:

Date: 8/22/11

USP83 2961

Lancaster Laboratories

Hexavalent Chromium by IC

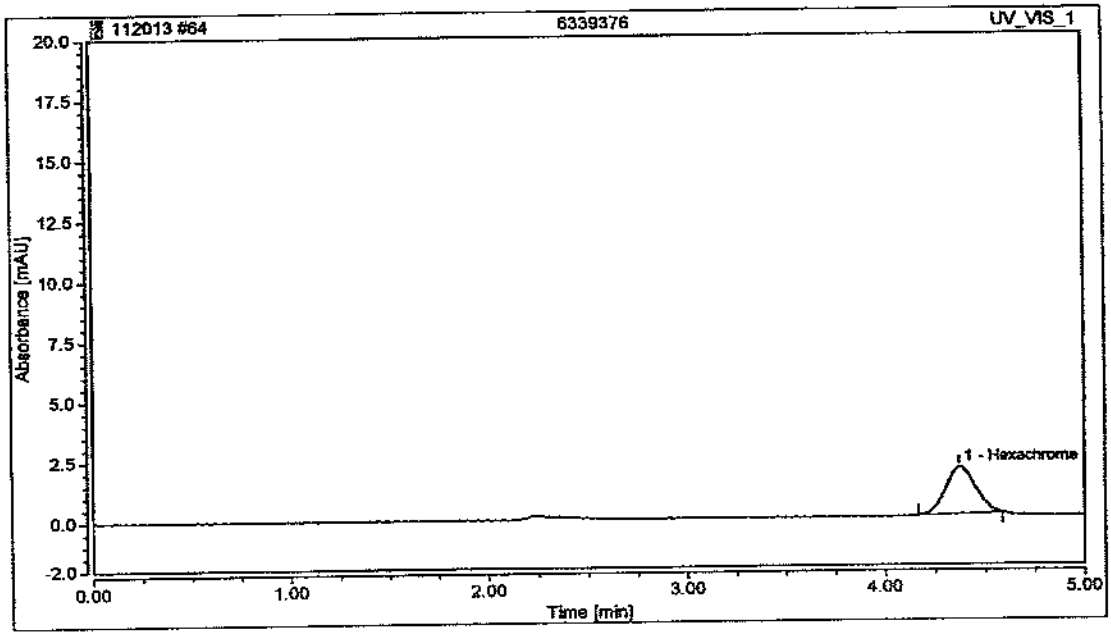
Reviewer/Enterer:

Date:

Sample Name:	6339376	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 19:59	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	26.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	64		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.37	0.3369	1.308906



Reviewed/Verified By:

Date:

USF03 2962

Elyse P. Brunstetter
Chemist

Lancaster Laboratories

Hexavalent Chromium by IC

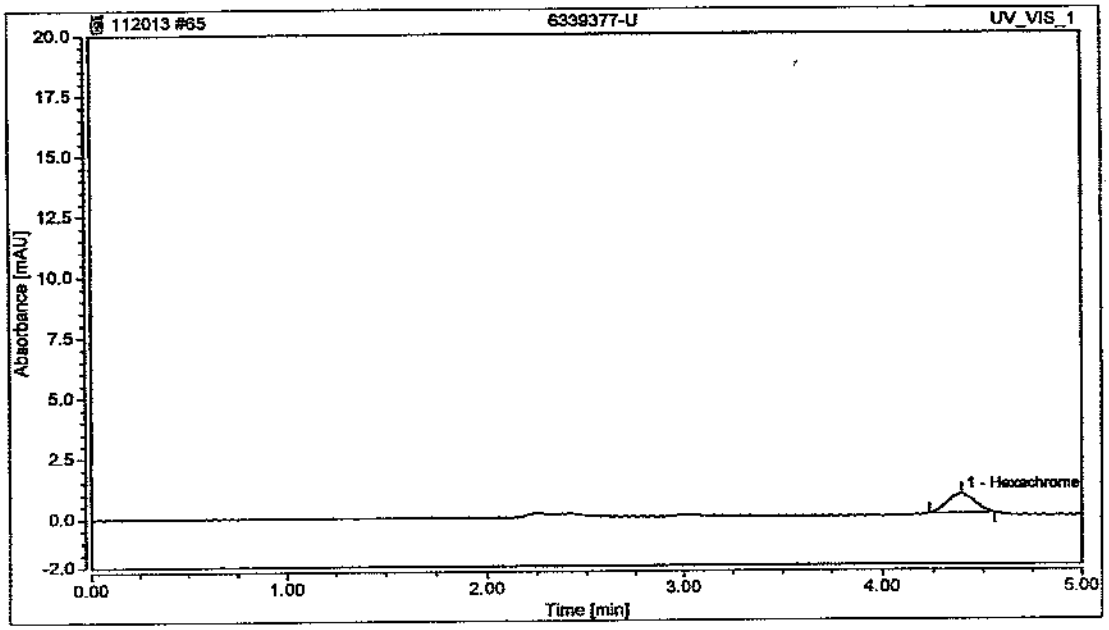
Reviewer/Enterer:

Date: JUL 2 2 2011

Sample Name:	6339377-U	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:05	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.30	Column Type: Serial #	NG1-021762
Injection Number:	65		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.39	0.1259	0.586618



Reviewed/Verified By: [signature]

Date: 7/22/11

USP83 2553

Default/Integration

Chromeleon (c) Dionex
Version 7.1.0.898

Lancaster Laboratories

Hexavalent Chromium by IC

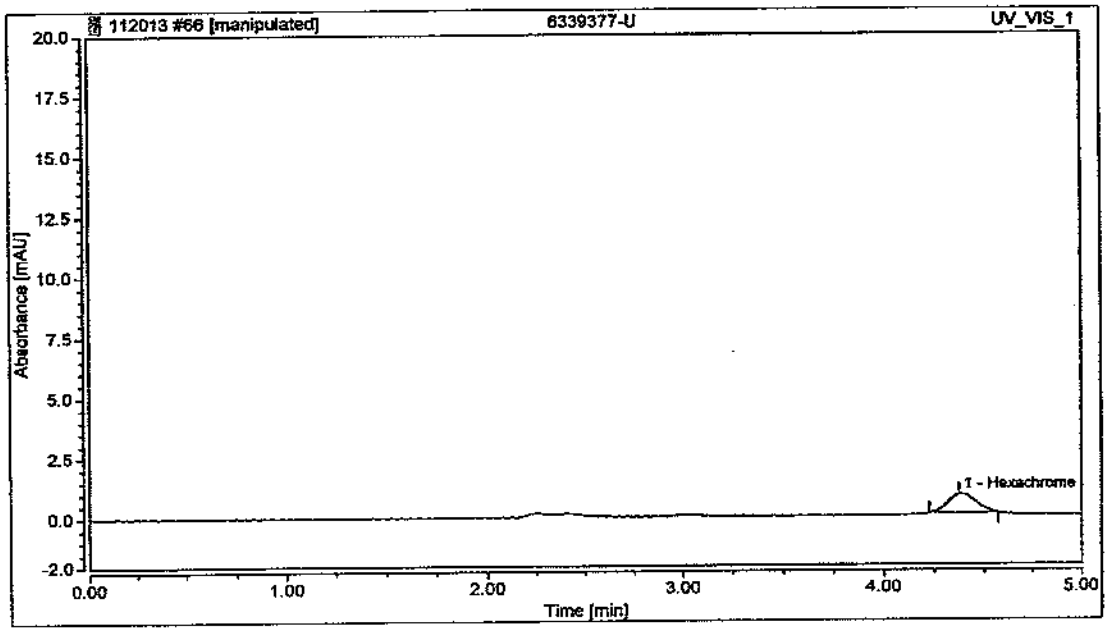
Reviewer/Enterer:

Date:

Sample Name:	6339377-U	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:11	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.30	Column Type: Serial #	NG1-021762
Injection Number:	66		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.37	0.1258	0.586392



Reviewed/Verified By:

Date:

M=Manually integrated

Analyst EPB 2879

approved by 7/22/11

reason marked peak

USF03 2964

Lancaster Laboratories

Hexavalent Chromium by IC

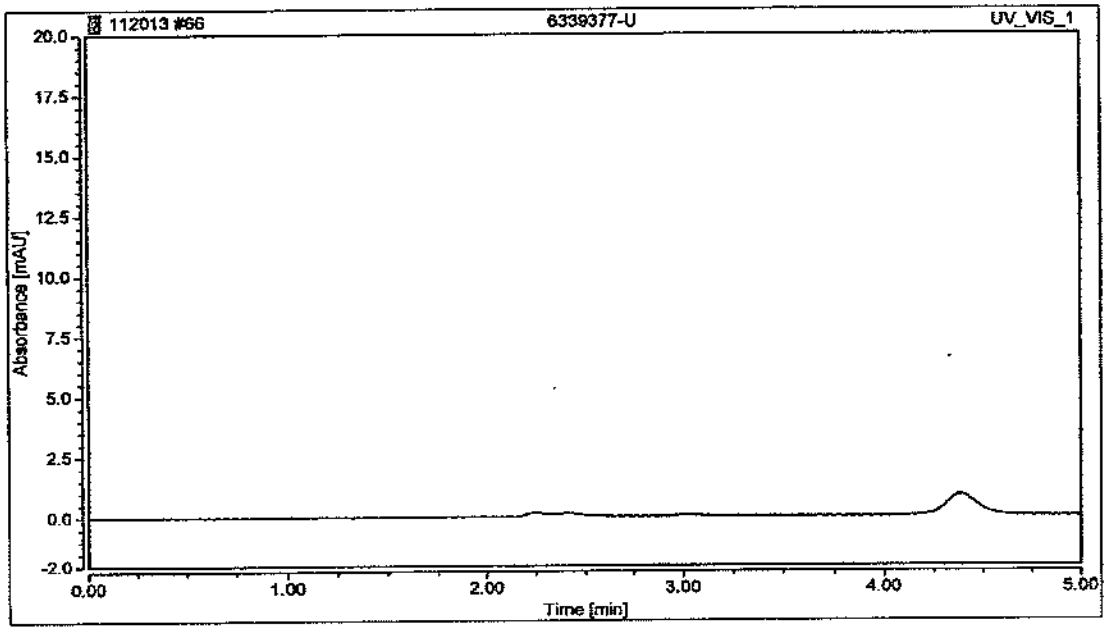
Reviewer/Enterer:

Date:

Sample Name:	6339377-U	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:11	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.30	Column Type: Serial #	NG1-021762
Injection Number:	66		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

USP89 2965

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer:

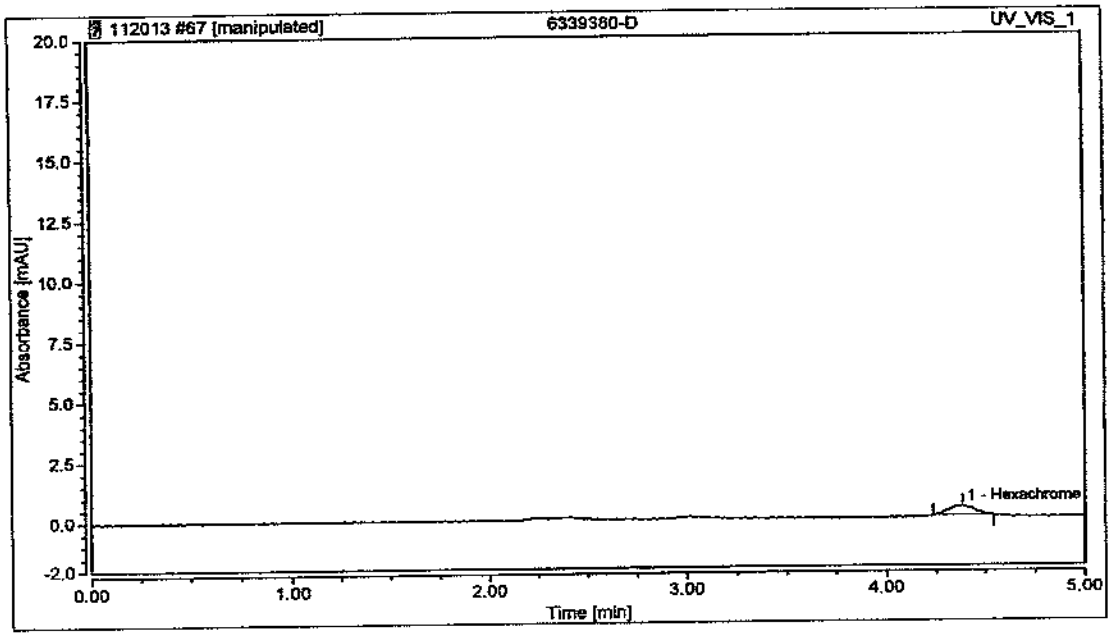
Elyse P. Brunstetter
Chemist

Date: JUL 2 2 2011

Sample Name:	6339380-D	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:18	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.20	Column Type: Serial #	NG1-021762
Injection Number:	67		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.38	0.0596	0.349936



Reviewed/Verified By:

Date: 8/22/11

USP63 2966

Lancaster Laboratories

Hexavalent Chromium by IC

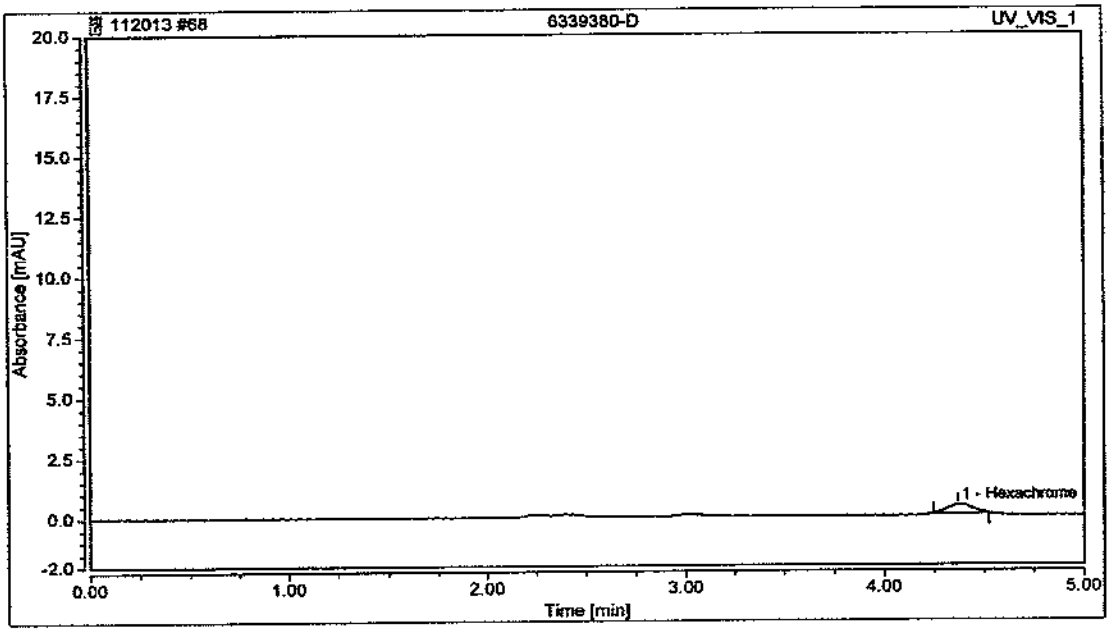
Reviewer/Enterer:

Date:

Sample Name:	6339380-D	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:24	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.20	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	68		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.37	0.0578	0.343148



Reviewed/Verified By:

Date:

M=Manually integrated

Analyst EPB 2879

approved by [illegible]

reason marked peak

USF93 2967

Lancaster Laboratories

Hexavalent Chromium by IC

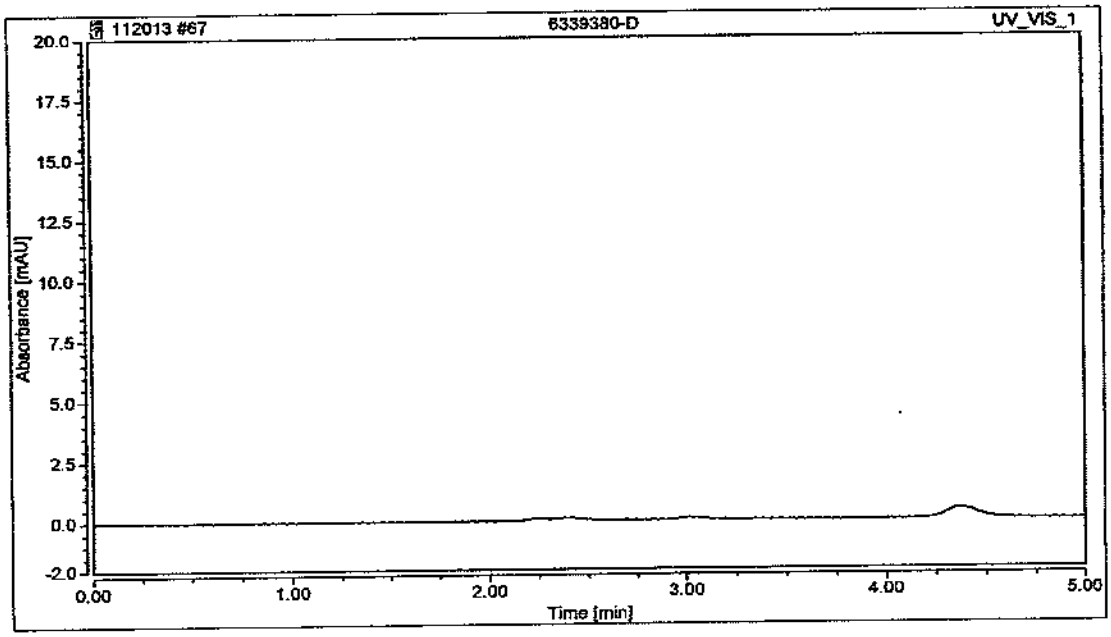
Reviewer/Enterer:

Date:

Sample Name:	6339380-D	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:18	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.20	Column Type: Serial #	NG1-021762
Injection Number:	67		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

USP63 2968

Lancaster Laboratories

Hexavalent Chromium by IC

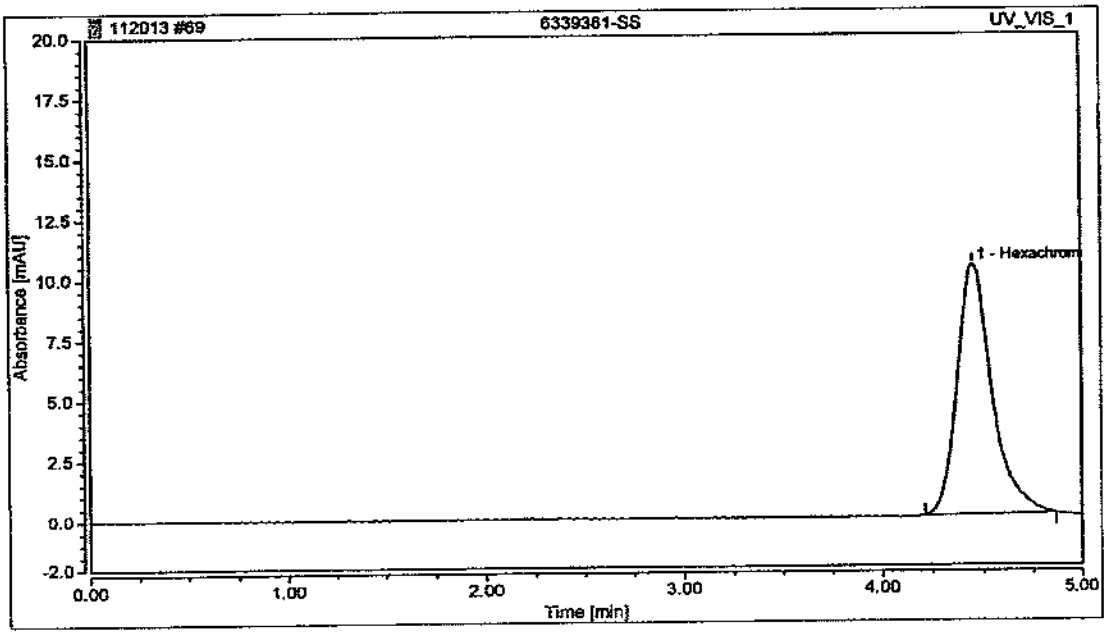
Reviewer/Enterer:

Date:

Sample Name:	6339381-SS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:30	Schedule File Name:	112013
Dilution Factor:	5	Channel:	UV_VIS_1
Sample Weight:	24.70	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	69		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.45	2.0578	38.571090



Reviewed/Verified By:

Date:

USFA3 2969

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter Chemist

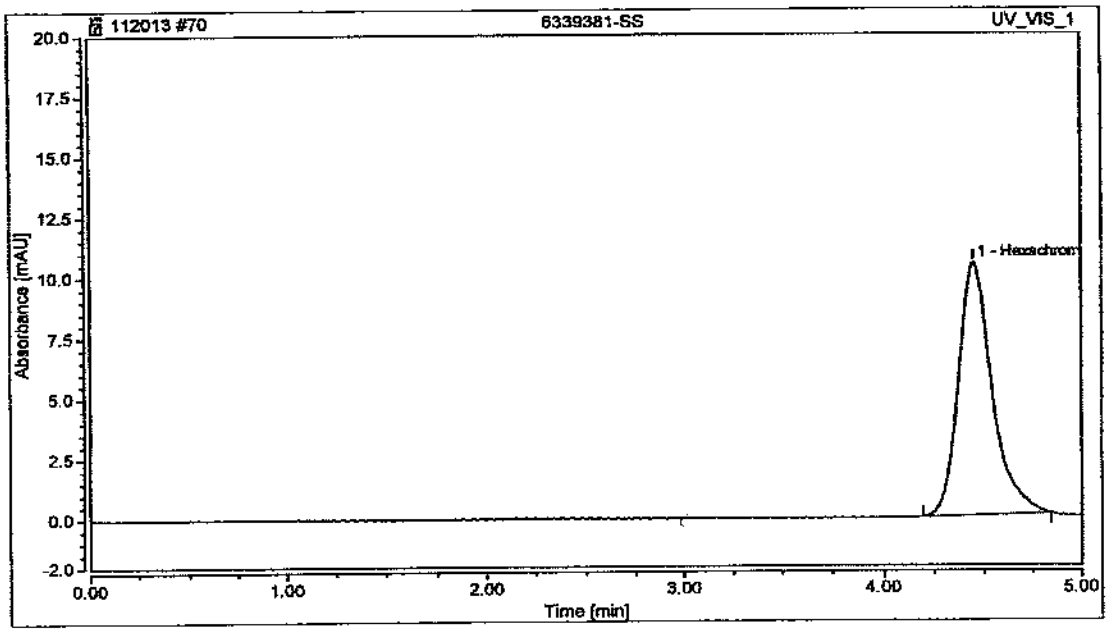
Date: JUL 22 2011

Sample Name:	6339381-SS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:36	Schedule File Name:	112013
Dilution Factor:	5	Channel:	UV_VIS_1
Sample Weight:	24.70	Column Type: Serial #	NG1-021762
Injection Number:	70		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.45	2.0590	38.592361

40.5
94%



Reviewed/Verified By:

Date: 8/22/11

USP83 2978

Lancaster Laboratories

Hexavalent Chromium by IC

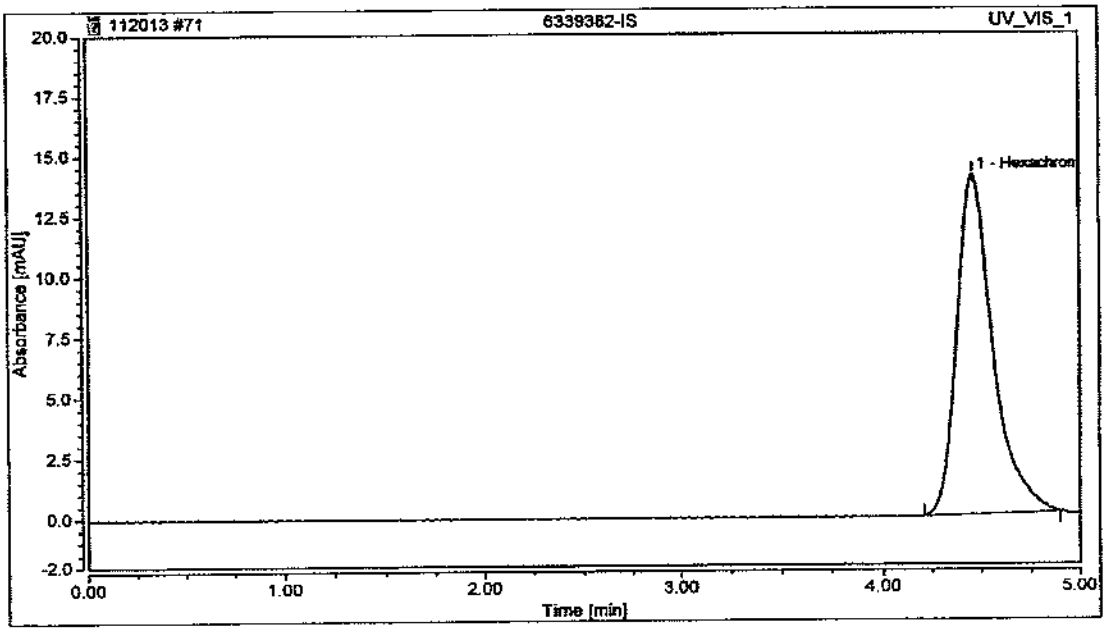
Reviewer/Enterer:

Date:

Sample Name:	6339382-IS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:43	Schedule File Name:	112013
Dilution Factor:	100	Channel:	UV_VIS_1
Sample Weight:	25.30	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	71		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.46	2.9391	1069.898823



Reviewed/Verified By:

Date:

USF03 2971

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter Chemist

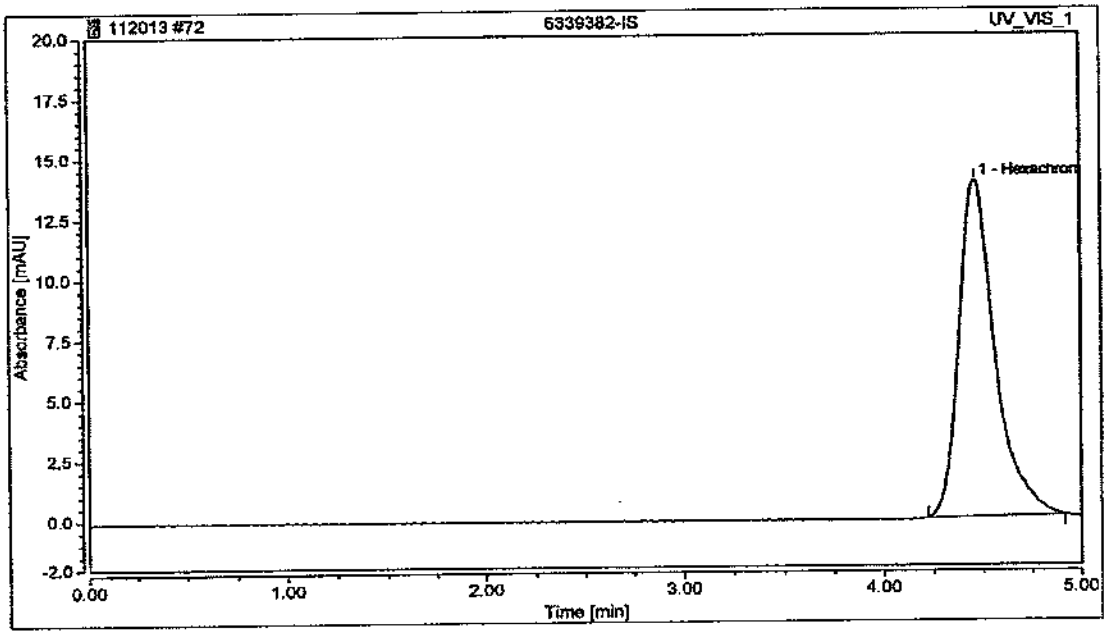
Date: JUL 22 2011

Sample Name:	6339382-IS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 20:49	Schedule File Name:	112013
Dilution Factor:	100	Channel:	UV_VIS_1
Sample Weight:	25.30	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	72		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.46	2.9431	1071.322712

1125
95%



Reviewed/Verified By:

Date: 7/22/11

USP63 2972

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter Chemist

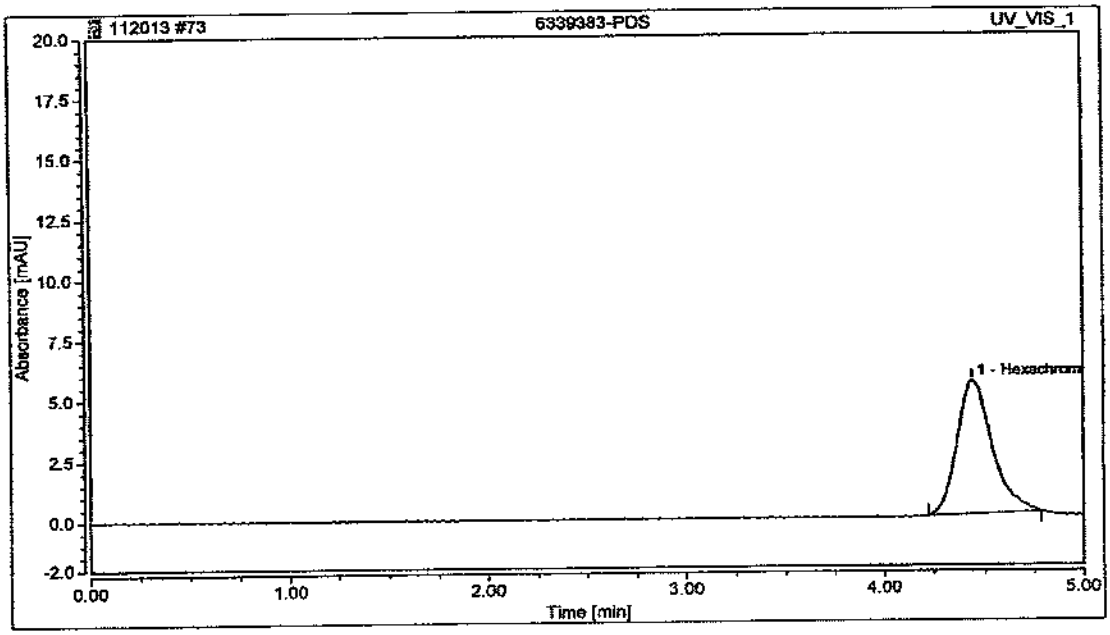
Date: JUL 2 2 2011

Sample Name:	6339383-PDS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 21:10	Schedule File Name:	112013
Dilution Factor:	10	Channel:	UV_VIS_1
Sample Weight:	25.30	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	73		

Peak Information: All Components

39.5
TV = ~~40~~
101%
@ 7/22/11
102%

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.44	1.0985	40.827338



Reviewed/Verified By:

Date: 7/22/11

USP<83> 2<73>

Lancaster Laboratories

Hexavalent Chromium by IC

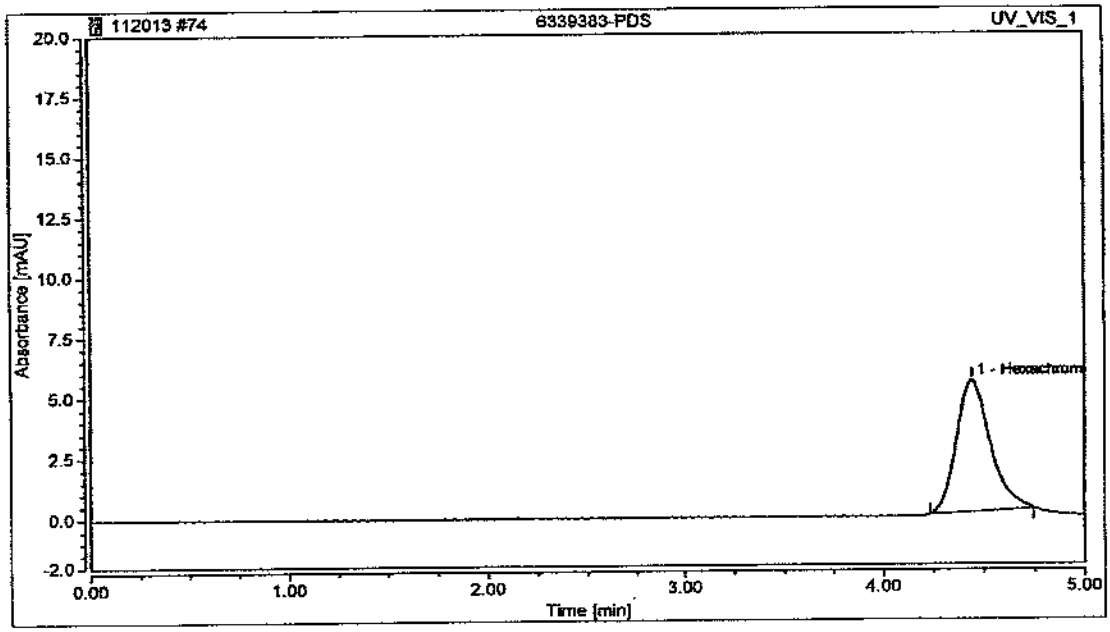
Reviewer/Enterer:

Date:

Sample Name:	6339383-PDS	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 21:17	Schedule File Name:	112013
Dilution Factor:	10	Channel:	UV_VIS_1
Sample Weight:	25.30	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	74		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.44	1.0537	39.219296



Reviewed/Verified By:

Date:

USP43 2974

Lancaster Laboratories

Hexavalent Chromium by IC

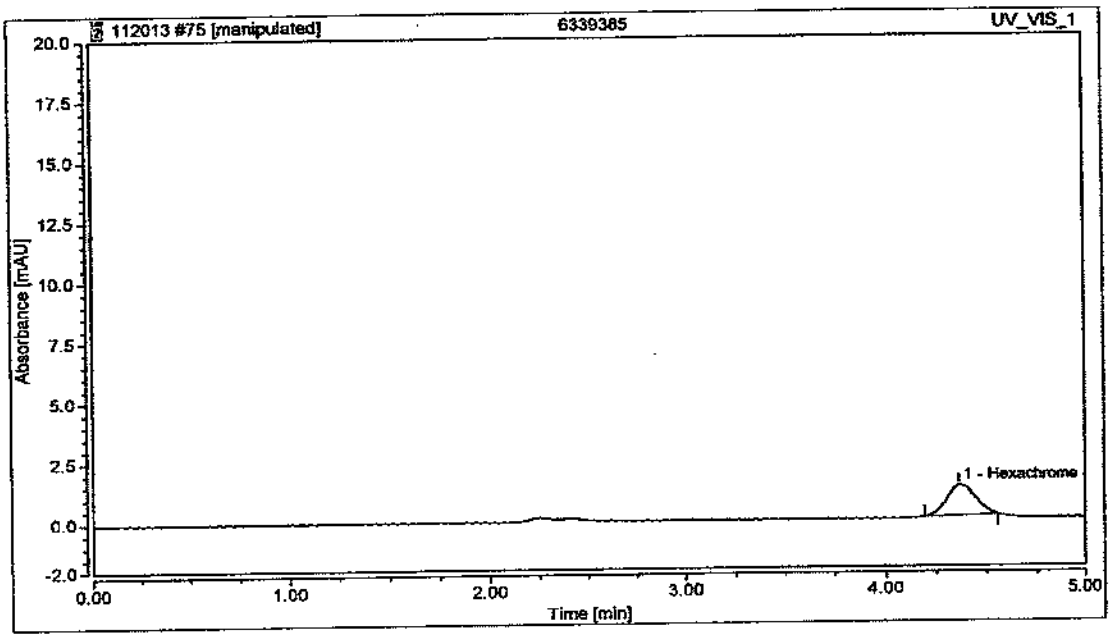
Reviewer/Enterer:

Date:

Sample Name:	6339385	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 21:23	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.80	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	75		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.36	0.2065	0.859567



Reviewed/Verified By:

Date:

USF83 2975

Lancaster Laboratories

Hexavalent Chromium by IC

Elyse P. Brunstetter
Chemist

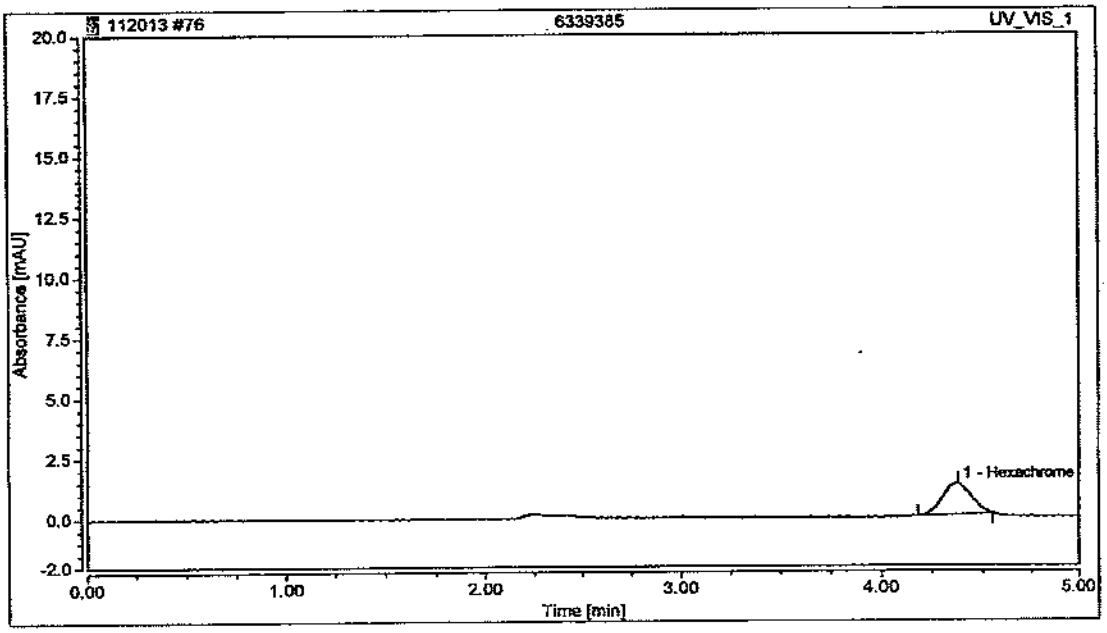
Reviewer/Enterer:

Date: JUL 22 2011

Sample Name:	6339385	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 21:29	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.80	Column Type: Serial #	NG1-021762
Injection Number:	76		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.38	0.2112	0.876025



Reviewed/Verified By:

Date: 8/22/11

M=Manually Integrated

Analyst EPB 2819

approved by 8/22/11

reason mank qlak

USP<621> 2976

Default/Integration

Chromeleon (c) Dionex
Version 7.1.0.898

Lancaster Laboratories

Hexavalent Chromium by IC

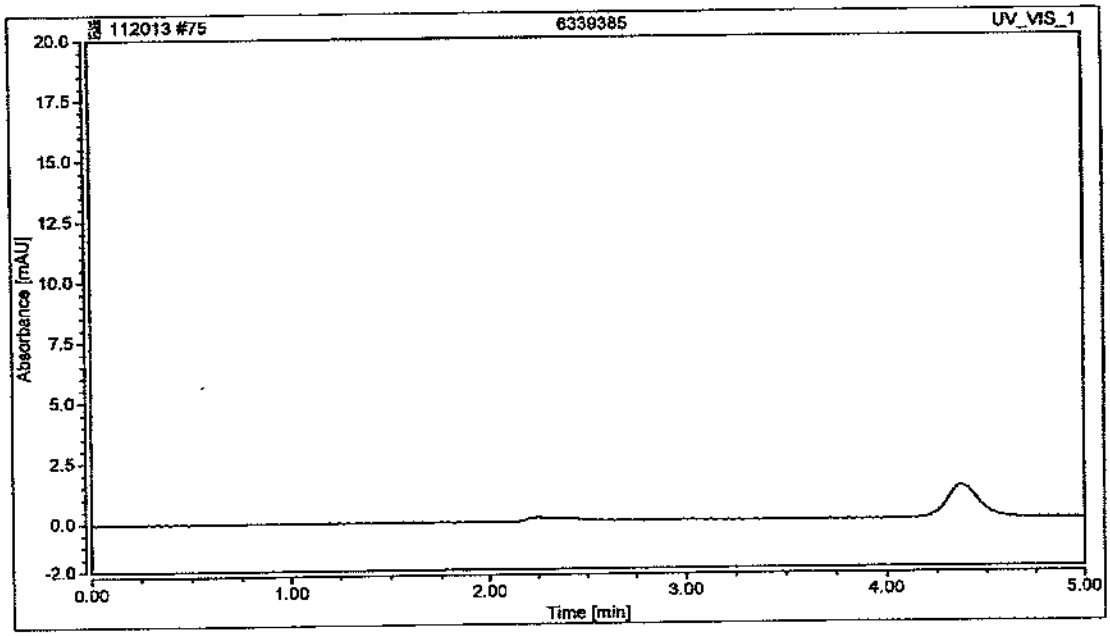
Reviewer/Enterer:

Date:

Sample Name:	6339385	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 21:23	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.80	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	75		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

USF03 2977

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brumstetter Chemist

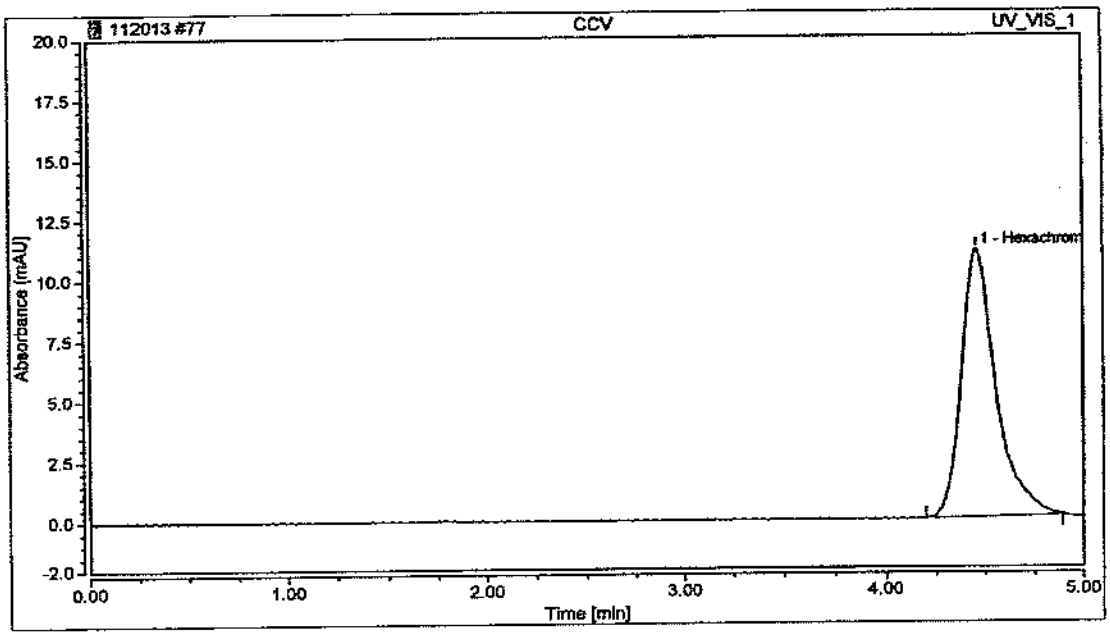
Date: JUL 2 2 2011

Sample Name:	CCV	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 21:35	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	77		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.45	2.2563	208.591056

TV = 200
104%



Reviewed/Verified By:

Date: 7/22/11

USF03 2979

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer:

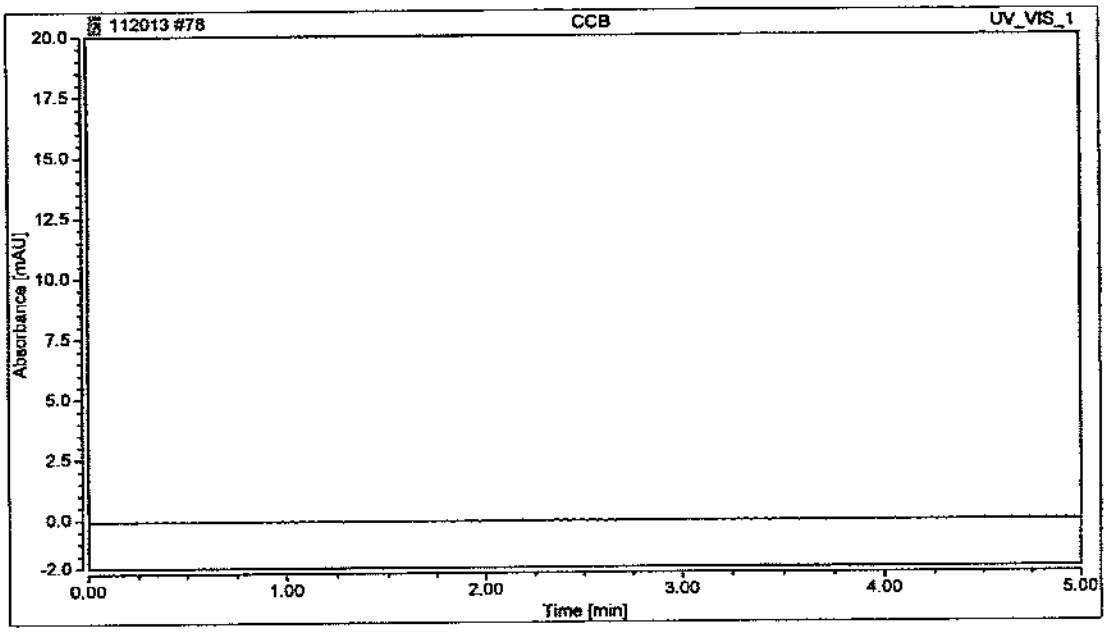
Elyse P. Brunstetter
Chemist

Date: JUL 2 2 2011

Sample Name:	CCB	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 21:41	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762
Injection Number:	78		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 7/22/11

USPS3 2979

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer:

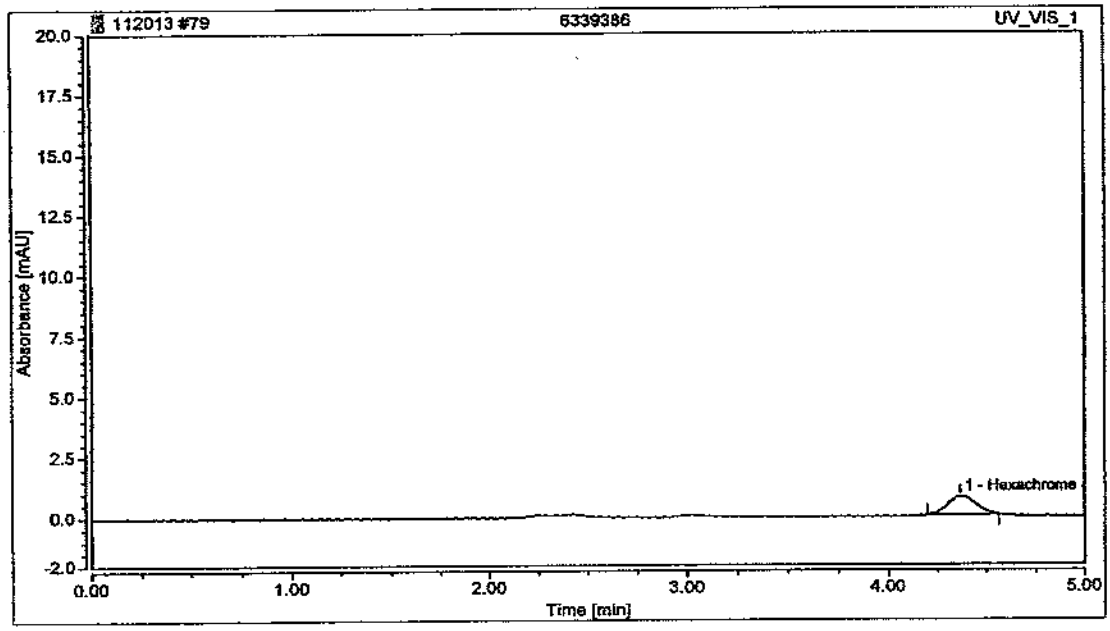
Elyse P. Brunstetter
Chemist

Date: JUL 2 2 2011

Sample Name:	6339386	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 21:48	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	24.20	Column Type: Serial #	NG1-021762
Injection Number:	79		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.36	0.1305	0.630845



Reviewed/Verified By:

Date: 7/22/11

USP83 2968

Lancaster Laboratories

Hexavalent Chromium by IC

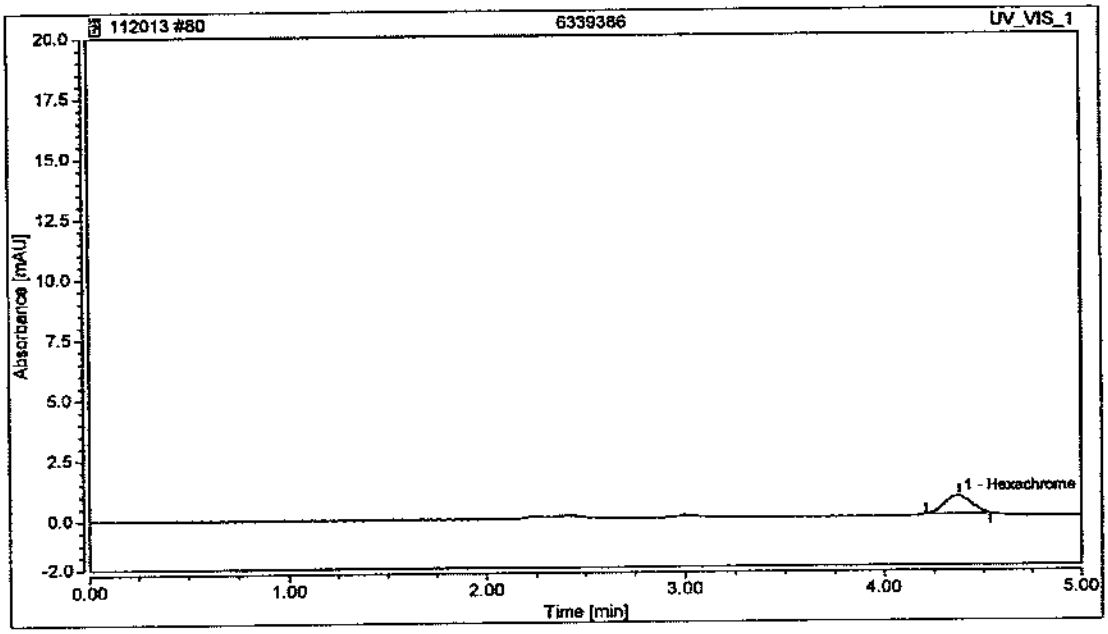
Reviewer/Enterer:

Date:

Sample Name:	6339386	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 21:54	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	24.20	Column Type: Serial #	NG1-021762
Injection Number:	80		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.37	0.1196	0.589564



Reviewed/Verified By:

Date:

USP93 2991

Lancaster Laboratories

Hexavalent Chromium by IC

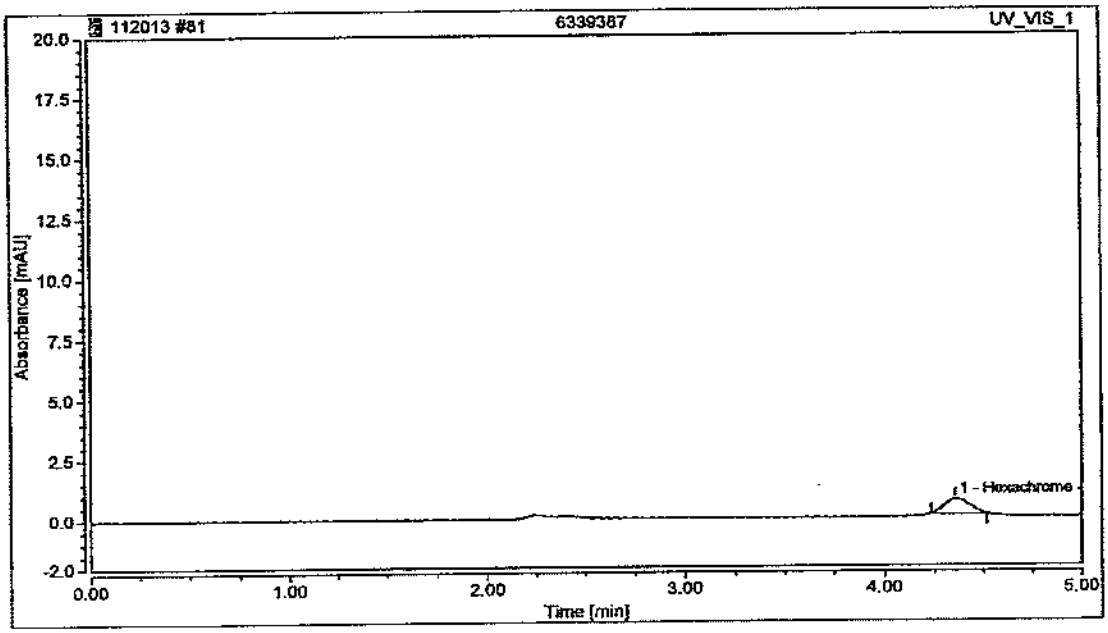
Reviewer/Enterer:

Date:

Sample Name:	6339387	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 22:00	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762
Injection Number:	81		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.35	0.0929	0.473533



Reviewed/Verified By:

Date:

USPB3 2982

Lancaster Laboratories

Hexavalent Chromium by IC

Elyse P. Bronstetter
Chemist

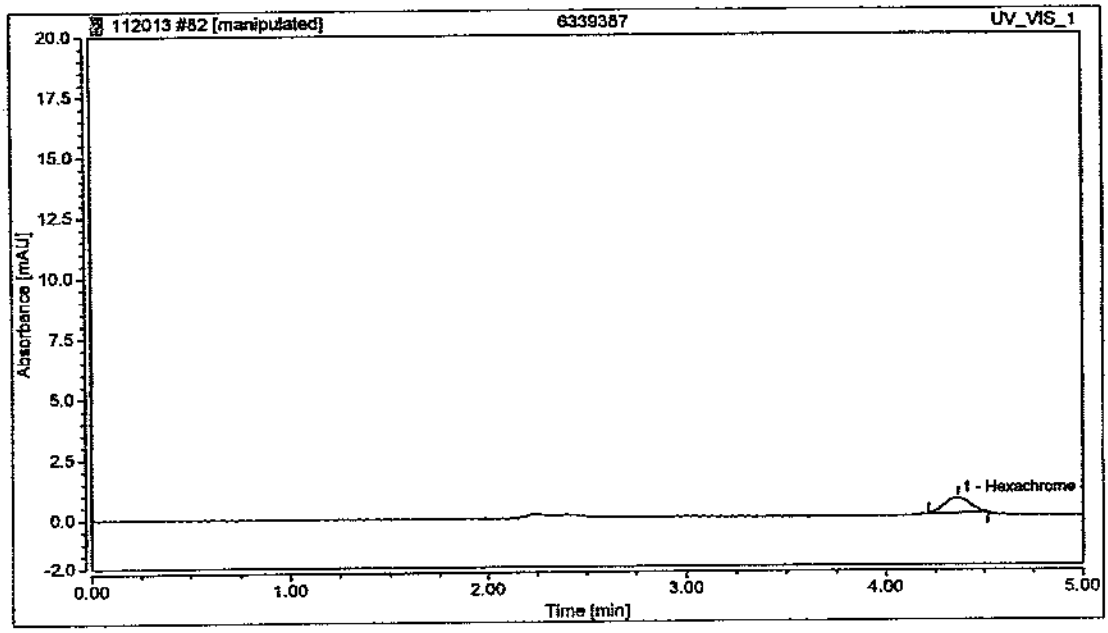
Reviewer/Enterer:

Date: JUL 2 2 2011

Sample Name:	6339387	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 22:06	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762
Injection Number:	82		AS7-013485

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.37	0.0972	0.489403



Reviewed/Verified By:

Date: 7/22/11

M=Manually Integrated

Analyst EBB2819

approved by 7/22/11

reason unmarked peak

USF03 2983

Lancaster Laboratories

Hexavalent Chromium by IC

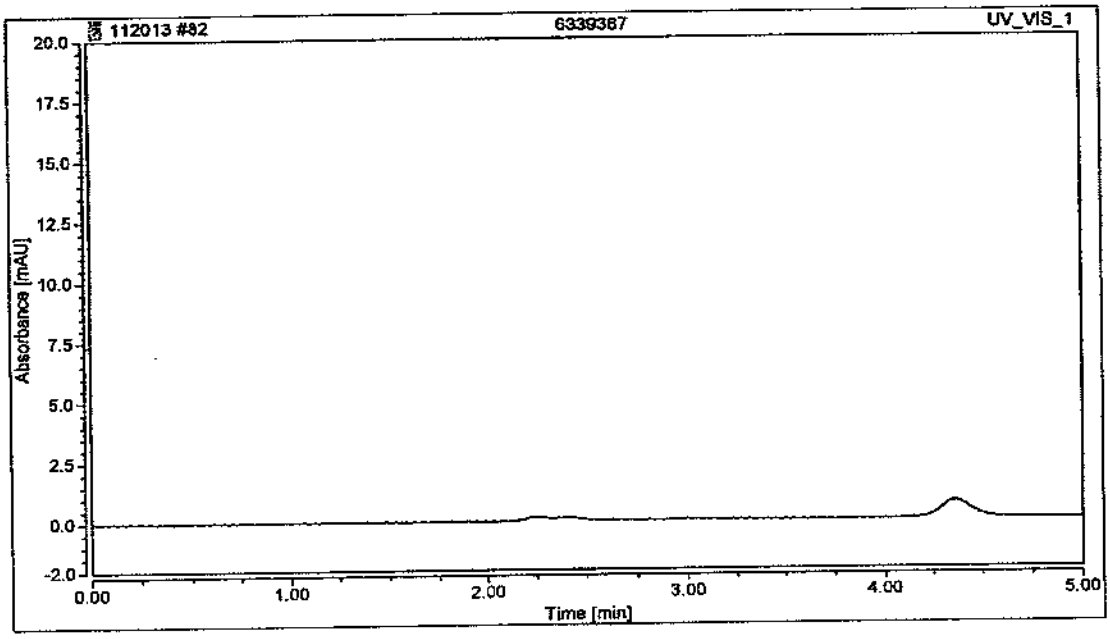
Reviewer/Enterer:

Date:

Sample Name:	6339387	Instrument Number:	18213
Batch Number/Analyst:	11200243202A-2819	Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 22:06	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	25.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	82		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date:

USF63 2984

Lancaster Laboratories

Hexavalent Chromium by IC

Reviewer/Enterer: Elyse P. Brunstetter Chemist

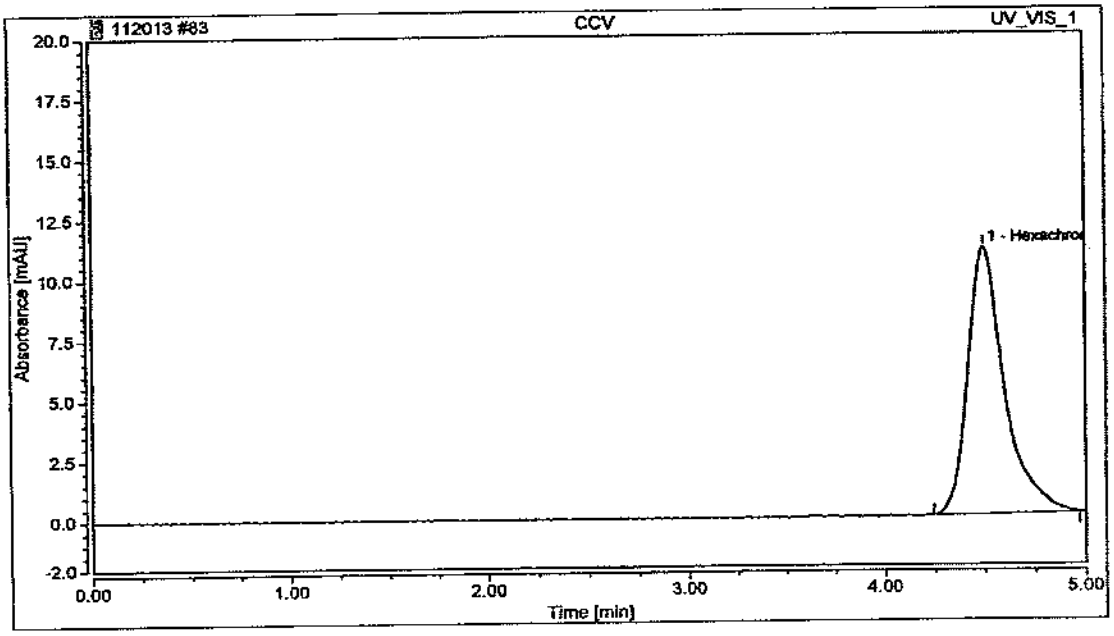
Date: JUL 2 2 2011

Sample Name:	CCV	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 22:13	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	83		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
1	Hexachrome	4.49	2.3527	217.356585

TV=200
109%



Reviewed/Verified By:

Date: 7/22/11

USF03 2985

Lancaster Laboratories

Hexavalent Chromium by IC

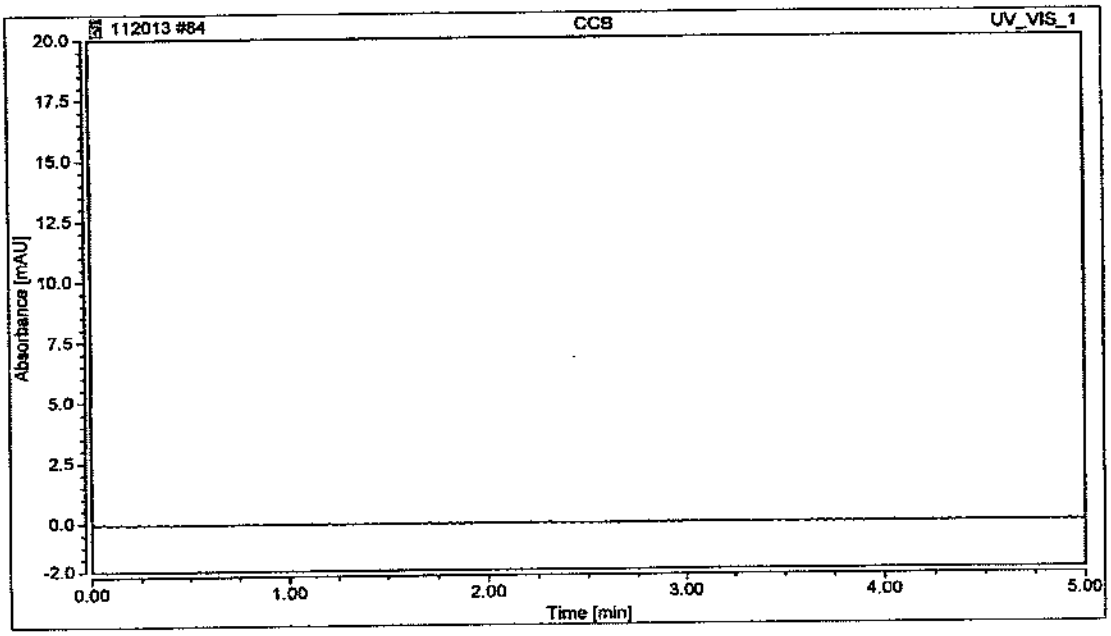
Reviewer/Enterer: Elyse P. Brunstetter Chemist

Date: JUL 22 2011

Sample Name:	CCB	Instrument Number:	18213
Batch Number/Analyst:		Calibration Date:	7/20/2011
Date/Time Injected:	07/20/11 22:19	Schedule File Name:	112013
Dilution Factor:	1	Channel:	UV_VIS_1
Sample Weight:	1.00	Column Type: Serial #	NG1-021762 AS7-013485
Injection Number:	84		

Peak Information: All Components

Peak Number	Peak Name	Ret. Time min	Area mAU*min	Amount ug/L mg/kg
n.a.	Hexachrome	n.a.	n.a.	n.a.



Reviewed/Verified By:

Date: 7/22/11

USP83 2986

Extraction/Distillation/Digestion Logs

Lancaster Laboratories

Raw Data Logbook
Hexavalent Chromium (Solids)
Analysis #2432 (prep)

Batch No. 1 1 2 0 0 | 2 4 3 | 2 0 2 A

Date: 7-19-11 Digest Start: 2200

Digest End: 2300

Init./Emp.#: DSS/237 Temp @ 30 min.: 93°

Balance #: 10491 End Temp: 92°

Std. Ref. (Bk/pg): 133396 p.31

Digest Sol'n pH = 13.00

$MgCl_2$ Lot # = MKBD 7832V

Sample Number	Sample Wt. (g)	pH	Digest Vol. (mL)	Bottle Code	Comments
Blank	2.50	9.40	100	—	
5mg/kg LCS	2.50	9.34		—	+2.5 of 5mL
~~Insoluble LCS~~ 5mg/kg LCS					
5mg/kg LCSD	2.50	9.37		—	+2.5 of 5mL
Insoluble LCS	2.50	9.45		—	SA= 991mg/kg +0.0154 P&Croy
1.0mg/kg 6339384 LRB	2.50	9.38		—	+2.5 of 1.0mg/L
6339368	2.43	9.46		21A	
6339369	2.56	9.47		21A	
6339370	2.54	9.38		21A	
6339371	2.43	9.27		21A	
6339372	2.44	9.24		21A	
6339373	2.51	9.34		21A	
6339374	2.51	9.45		21A	
6339375	2.53	9.49		21A	
6339376	2.60	9.36		21A	
6339377 BK	2.53	9.41		21A	
6339380 Dup	2.52	9.39		21A	
6339381 SS	2.47	9.48		21A	SA=42.5mg/kg +2.1 of 50mL
6339382 IS	2.53	9.45		21A	SA= 1125mg/kg +0.177 P&Croy
6339383 PDS	2.53	9.41		21A	
6339385	2.58	9.32		21A	
6339386	2.42	9.20		21A	
6339387	2.50	9.29		21A	
5mg/kg ccv	2.50	9.34		—	+2.5 of 5mL
Prep blank	2.50	9.40	↓	—	

DSS/237 @ 7-19-11 7-18

USPS 2988

Verified by: KAG/957 Date: 7/21/11

Lancaster Laboratories

Raw Data Logbook
Total Cyanide/Distillations
Analysis #492, 5896, 8256

Start Time: 15:15
Cool Time: 17:00
Finish: 17:15

Batch No. 1 1 1 9 4 | 1 0 2 | 2 0 1 |

Enter 102 for Analysis 492, 5896
Enter 117 for Analysis 8256

Analysis: 5696 Date: 7.13.11 Analyst: CAMPOS

Std. Ref. (Book/Page/Line): B1526 p.18 L.3-4

Bottle Code	Sample Number	Initial Volume (mL)	Initial Weight (g)	Comments/True Values	SDG
	ICS		1.00	+5mL 2mg/L CN	
	CBS		2.00		
	LCSD		1.00	+5mL 2mg/L CN	
21A	603593608		2.03		ins FB
	603593609		2.08		
	603593570		2.14		
	603593571		2.03		
	603593572		2.08		
	603593573		2.03		
	603593574		2.12		
	603593575		2.00		
	603593576		2.00		
	603593577 MS		2.08		
	603593578 R		2.05	+5mL 2mg/L CN	A
	603593580 D		2.07		
	603593584 (LRQ)		2.00		
	603593585		2.05		
	603593586 MS		2.10		
	D		2.00		
	R		2.12	+5mL 2mg/L CN	
	603593587		2.03		B

Please Note: Final extraction volume is 50 mL

USF03 2989

Verified: [signature] Date: 7.17.11

1095.01

133366 57

Lancaster Laboratories

Raw Data Logbook
Total Cyanide/Distillations
Analysis #492, 5896, 8256

Start Time: 16:20
Cool Time: 18:05
Finish: 18:20

Batch No. | 1 | 1 | 1 | 9 | 3 | | 1 | 1 | 7 | | 1 | 0 | 1 | | A |

Enter 102 for Analysis 492, 5896
Enter 117 for Analysis 8256

Analysis: 8256 Date: 7.12.11 Analyst: AM1529

Std. Ref. (Book/Page/Line): B15660 p.17 L.7-8

Bottle Code	Sample Number	Initial Volume (mL)	Initial Weight (g)	Comments/True Values	SDG
	LCSW	50		1.5mL Zamyl Ten	
	PBW	50			
	LCSDW	50		1.5mL Zamyl Ten	
DUP	603357222	50			USP01
	603358669	50			USP02
↓	603357388	50			USP03

Please Note: Final extraction volume is 50 mL.

USP03 2996

Verified: [signature] Date: 7.17.11

1095.01

133366 55

Wet Chemistry Data

USF03 2991

Case Narrative
Conformance/Non-Conformance Summary

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Miscellaneous Wet Chemistry

Sample #	Matrix Liquid	Solid	Comments
6339368		X	
6339369		X	
6339370		X	
6339371		X	
6339372		X	
6339373		X	
6339374		X	
6339375		X	
6339376		X	
6339377		X	Background/Unspiked
6339380		X	Duplicate
6339385		X	
6339386		X	
6339387		X	

ANALYSIS:

There were no dilutions performed for analyses associated with samples in this SDG.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

Method defined actions are taken for any failed matrix QC.

DATA INTERPRETATION:

394/496

The pH calculation is:
Not applicable to this procedure

1821 Calculations:

The oxidation-reduction potential is related to the reference electrode used in the measurement. Calculate the oxidation-reduction potential of the sample, in millivolts, referred to the hydrogen scale;

$E_{(h)} = E_{(obs)} + E_{(ref)}$

Where:

$E_{(h)}$ = oxidation-reduction potential referred to the hydrogen scale, mV

$E_{(obs)}$ = observed oxidation-reduction potential of the platinum electrode, mV

$E_{(ref)}$ = oxidation-reduction potential of the reference electrode as related to the hydrogen standards, mV

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

7103

Calculations:

A spreadsheet using Excel, or an equivalent, has been prepared to facilitate the calculation of data, the plotting of the graph, and the interpolation of the hydrometer results from the graph. Data can be reported directly from the spreadsheets; however, the plotted hydrometer data may be more accurate than the computer interpolations. Refer to this spreadsheet for the appropriate tables to hand calculate data.

Use the mass retained (Mr) values recorder for each sieve as Mr8, Mr6, Mr4, etc. to determine the percent passing each sieve.

To calculate the mass retained:

$$Mr = Tare + sample\ weight\ value - the\ tare\ weight\ value$$

Analysis #7103 Calculations:

A. Sieve analysis values for the portion coarser than the No. 8 sieve

1. $Mt = Mc + Mf$

Where:

Mt = total mass

Mc = mass of the coarse material

Mf = mass of the fine material

2. $P8 = Mf/Mt \times 100$

Where:

P8 = percentage passing No. 8 sieve

3. $P6 = \frac{Mf + Mr8}{Mt} \times 100$

Where:

P6 = percentage passing No. 6 sieve

Mr8 = mass retained on No. 8 sieve

4. $$P4 = \frac{Mf + Mr8 + Mr6}{Mt} \times 100$$

Where:

Mr6 = mass retained on the No. 6 sieve

P4 = percentage passing No. 4 sieve

5. Continue calculations as above for the 0.75", 1.5", and 3" sieves.

B. Percentages of soil in suspension

1. $$Hf = Os/As$$

Hygroscopic moisture correction factor

Where:

Hf = hygroscopic moisture correction factor

As = air dry mass of the soil

Os = oven dry mass of the soil = (oven dry weight minus the tare weight)

2. Percentages of soil in suspension

a. Calculate the oven dry mass of soil used in the hydrometer analysis by multiplying the air-dry mass of the soil used in the hydrometer analysis by the moisture correction factor.

b. $$W = \frac{oven\ dry\ mass\ in\ hydrometer}{P8} \times 100$$

Where:

W = oven dry mass of soil in a total test sample represented by the mass of the soil dispersed, in grams

P8 = percentage passing the No. 8 sieve (from calculation A.2.)

c. $$P = [(100{,}000/W) \times G/(G - G1)] \times (R - G1)$$

Where:

G = specific gravity of the soil

G1 = specific gravity of the liquid in which the soil was suspended (use 1)

W = oven dry mass of soil in a total test sample represented by the mass of the soil dispersed, in grams

P = percentage of soil remaining in suspension at the level at which the hydrometer measures the density of the suspension

R = Hydrometer reading with composite correction applied

Values of Correction Factors for Specific Temperatures: Correction factors are hydrometer specific, refer to the current logbook for the specific hydrometers correction factors to be used in the method calculations.

NOTE: The hydrometers are read when placed into use and reread yearly. Updates need to be made in the Excel spreadsheet as the correction factors change.

d. $D = K\sqrt{L/T}$

Where:

D = diameter of the particle (in mm)

K = constant using the temperature of the suspension and the specific gravity of the soil particles (see the Excel spreadsheet or equivalent for the Analysis #7103, for the specific "K" values to use)

L = distance from the surface of the suspension to the level at which the density of the suspension is being measured (the effective depth from Table I)

T = interval of time from the beginning of sedimentation to the taking of the reading in minutes

C. Sieve analysis values of the portion finer than the No. 8 sieve

1. Calculate the percentage of particles retained on the No. 8 sieve as follows:

$$Pr8 = 100 - P8$$

Where:

Pr8 = percentage of particles retained on the No. 8 sieve

P8 = percentage of particles passing the No.8 sieve (from calculation A.2.)

2. Calculate the mass retained on the No. 8 sieve represented by the sample volume used in the hydrometer analysis as follows:

$$Mf8 = \frac{Pr8 \times W}{100}$$

Where:

Mf8 = mass retained on the No. 8 sieve represented by the sample volume used in the hydrometer analysis

W = oven dry mass of the soil in a total test sample represented by the mass of the soil dispersed (as calculated in B.2.b.)

3. Calculate the mass passing the No. 200 sieve as follows:

$$Mp200 = W - (Mr200 + Mr100 + Mr50 + Mr30 + Mr16 + Mf8)$$

Where:

Mp200 = mass passing the No. 200 sieve

Mr200, 100, 50, etc.= mass retained on the sieves used for the portion finer than the No. 8 sieve

Mf8 = mass retained on the No. 8 sieve represented by the mass of the soil used in the hydrometer analysis

W = oven dry mass of the soil in a total test sample represented by the mass of the soil dispersed (as calculated in B.2.b.)

4. $$P200 = \frac{Mp200}{W} \times 100$$

Where:

P200 = percentage passing the No. 200 sieve

Mp200 = mass passing the No. 200 sieve (use calculation from C.3.)

W = oven dry mass of the soil in a total test sample represented by the mass of the soil dispersed (as calculated in B.2.b.)

5. $$P100 = \frac{Mp200 + Mr200}{W} \times 100$$

Where:

P100 = percentage passing the No. 100 sieve

Mr200 = mass retained on the No. 200 sieve

Mp200 = mass passing the No. 200 sieve (use calculation from C.3.)

W = oven dry mass of the soil in a total test sample represented by the mass of the soil dispersed (as calculated in B.2.b.)

6. $$P50 = \frac{Mp200 + Mr200 + Mr100}{W} \times 100$$

Where:

P50 = percentage passing the No. 50 sieve

Mr100 = mass retained on the No. 100 sieve

Mp200 = mass passing the No. 200 sieve

Mr200 = mass retained on the No. 200 sieve

W = oven dry mass of the soil in a total test sample represented by the mass of the soil dispersed (as calculated in B.2.b.)

7. Continue calculations as above for the No. 30 and No. 16 sieves.

D. Prepare a graph of the test results on a logarithmic scale, plotting the diameter of the particles as the abscissa and the percentages smaller than the corresponding diameters as the ordinate. Report (from the graph or directly from the tabulated data) the percentage of particles passing the 3", 1.5", 0.75", No. 4, No. 6, No. 8, No. 16, No. 30, No. 50, No. 100, and No. 200 sieves. Report the hydrometer results (from the graph) as the percentage passing 0.050 mm, 0.020 mm, 0.005 mm, 0.002 mm, and 0.001 mm.

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

Table I

Values of Effective Depth Based on Hydrometer and Sedimentation Cylinder of Specific Sizes[A]

Hydrometer 151H

Actual Hydrometer Reading	Effective Depth, L, cm
1.000	16.3
1.001	16.0
1.002	15.8
1.003	15.5
1.004	15.2
1.005	15.0
1.006	14.7
1.007	14.4
1.008	14.2
1.009	13.9
1.010	13.7
1.011	13.4
1.012	13.1
1.013	12.9
1.014	12.6
1.015	12.3
1.016	12.1
1.017	11.8
1.018	11.5
1.019	11.3
1.020	11.0
1.021	10.7
1.022	10.5
1.023	10.2
1.024	10.0
1.025	9.7
1.026	9.4
1.027	9.2
1.028	8.9
1.029	8.6
1.030	8.4

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CLIENT: URS Corporation
SDG: USF03

Table I – Continued

Hydrometer 151H

Actual Hydrometer Reading	Effective Depth, L, cm
1.031	8.1
1.032	7.8
1.033	7.6
1.034	7.3
1.035	7.0
1.036	6.8
1.037	6.5
1.038	6.2

[A]Values of effective depth are calculated from the equation:

$$L = L1 + \frac{1}{2} \times \left[L2 - \left(\frac{V_B}{A} \right) \right]$$

Where:

L = effective depth, cm

L1 = distance along the stem of the hydrometer from the top of the bulb to the mark for a hydrometer reading, cm

L_2 = overall length of the hydrometer bulb, cm

V_B = volume of hydrometer bulb, cm^3, and

A = cross-sectional area of sedimentation cylinder, cm^2

Values used in calculating the values in Table I are as follows:
For hydrometer 151H:

L_2= 14.0 cm

V_b = 67.0 cm^3

A = 27.8 cm^2

L1 = 10.5 cm for a reading of 1.000

= 2.3 cm for a reading of 1.031

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CLIENT: URS Corporation
SDG: USF03

Abbreviation Key

U = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
R = Matrix Spike (MS)	MDL = Method Detection Limit
M = Matrix Spike Duplicate (MSD)	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	NA = Not Applicable
HS = High Spike	ME = Method
LS = Low Spike	CO = Colorimetric
SS = Soluble Spike	G = Gravimetric
IS = Insoluble Spike	IR = Infrared Spectrophotometry
ISD = Insoluble Spike Duplicate	MTR = Meter
PDS = Post Digestion Spike	OD = Oven Dried
* = Out of Specification	TI = Titration
V = Visual	TOC = Total Organic Carbon
AK = Alpkem	IC = Ion Chromatography
TC = Total Carbon	RA = Rapid Analyzer

Narrative Reviewed and Approved by:

Patricia Weirich for Date 7-26-11

Dana Kauffman
Manager of Data Deliverables

Quality Control and Calibration Summary Forms

Lancaster Laboratories

Quality Control Reference List
Miscellaneous Wet Chemistry

CLIENT: URS Corporation
SDG: USF03

Analyte	Batch Number	Sample Number
Grain Size to 1 um	11194710301A	6339368
		6339369
		6339370
		6339371
		6339372
		6339373
		6339374
		6339375
		6339376
		6339377 BKG
		6339380 D
		6339385
		6339386
		6339387
OR Potential	11194182103A	6339368
		6339369
		6339370
		LCS
OR Potential	11194182103B	6339371
		6339372
		6339373
		6339374
		6339375
		6339376
		6339377 BKG
		6339380 D
		6339385
		6339386
		6339387
pH by 9045C	11194039402A	6339368
		6339369
		6339370
		6339371
		6339372
		6339373
		6339374
		LCS

Lancaster Laboratories

Quality Control Reference List
Miscellaneous Wet Chemistry

CLIENT: URS Corporation
SDG: USF03

Analyte	Batch Number	Sample Number
pH by 9045C	11194039402B	6339375
		6339376
		6339377 BKG
		6339380 D
		6339385
		6339386
		6339387

Lancaster Laboratories

Quality Control Summary
Duplicate Analysis
Miscellaneous Wet Chemistry
SDG: USF03
Matrix: SOLID

Sample Number	Analyte	Analysis Date	ME	Batch #	Sample Result	Duplicate Result	Units	RPD (%)	Control Limits %
6339380	Grain Size to 1 um	07/13/11	NA	11194710301A	100	20.0	% Passing	22*	20
6339380	OR Potential	07/13/11	TI	11194182103B	490	490	mV	0	6
6339380	pH by 9045C	07/13/11	MTR	11194039402B	6.56	6.56	NA	0	3

Comments: (1) The sample and/or duplicate result is less than five times the LOQ.
* = Out of Specification

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate (LCSD)
Miscellaneous Wet Chemistry
SDG: USF03
Matrix: SOLID

Batch #	Analyte	Analysis Date	ME	True LCS/LCSD Value	LCS Results	LCSD Results	Units	Acceptance Range	% RPD Results	% RPD Acceptance </=
11194182103	OR Potential	07/13/11	TI	427	418	NA	mV	417 - 437	NA	NA
11194039402	pH by 9045C	07/13/11	MTR	6.86	6.87	NA	NA	6.82 - 6.93	NA	NA

Raw Data

Lancaster Laboratories

LOQ/MDL Summary
Miscellaneous Wet Chemistry

SDG: USF03

Fraction:

Parameter	Default MDL	Default LOQ	Units
19 mm	0.50	1.0	% Passing
4.75 mm	0.50	1.0	% Passing
3.35 mm	0.50	1.0	% Passing
2.36 mm	0.50	1.0	% Passing
1.18 mm	0.50	1.0	% Passing
0.001 mm	0.50	1.0	% Passing
0.3 mm	0.50	1.0	% Passing
0.15 mm	0.50	1.0	% Passing
0.075 mm	0.50	1.0	% Passing
0.064 mm	0.50	1.0	% Passing
0.05 mm	0.50	1.0	% Passing
0.02 mm	0.50	1.0	% Passing
0.005 mm	0.50	1.0	% Passing
0.002 mm	0.50	1.0	% Passing
37.5 mm	0.50	1.0	% Passing
75 mm	0.50	1.0	% Passing
0.6 mm	0.50	1.0	% Passing
Oxidation Reduction Potential	10.0	10.0	mV
pH	0.0100	0.0100	Std. Units

USF03 3888

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339368 Date: 7.13.11 Init./Emp. #: Smg/239 Batch #: 111947030A

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.10	539.10
1.5 Inch	559.53	559.53
0.75 Inch	556.49	556.49
#4	446.31	446.23
#6	519.19	512.94
#8	429.90	429.63
PAN	686.89	438.92

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 73A

Prep. sple description:

Comments:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	369.00g	368.40g
#30	292.99g	291.57g
#50	265.04g	264.09g
#100	230.18g	229.45g
#200	225.17g	220.86g
PAN	446.75g	438.92g

Analytical Balance ID#: 16262

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0825	5.0060	5.9700
-		

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
~~68.8822~~	~~106.979~~	~~106~~ (3)
61.9648	11.1539	105.7850

KAB/957 7/22/11

Hydrometer Readings Sample Wt. 50.47 Hydrometer ID #: 372418

Time	Temp	Reading
2 minutes	20°	~~1.004~~ 1.014
5 minutes	20° 7/19/11 @	~~1.008~~ 1.012
15 minutes	20°	1.005
30 minutes	20°	1.004
60 minutes	20°	1.0025
250 minutes	20°	1.006
1440 minutes	20°	1005

Comments:

Foam:

Org. matter:

Oven ID#: 1171

Oven Temp In: 0SF83 3689

Oven Temp Out:

Verified by: KAB/957 Date: 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339368	07/13/11	LMG/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.97		4.75
99.87		3.35
99.76		2.36
98.54		1.18
95.67		0.6
93.75		0.3
92.27		0.15
83.54	*	0.075
34.51	*	0.04122
26.70	***	0.02658
13.04	**	0.01598
11.09	**	0.01130
9.13	**	0.00805
3.28	**	0.00398
-0.62	**	0.00168

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.384891
-1.575410
-1.796465
-1.946977
-2.094457
-2.399872
-2.775697

Line 1 Regression Output:	
Constant	225.0846705
Std Err of Y Est	13.2027919
R Squared	0.9082011
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	129.8592657
Std Err of Coef.	41.2857860

Line 2 Regression Output:	
Constant	53.0435562
Std Err of Y Est	3.8865639
R Squared	0.8648111
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	20.3076537
Std Err of Coef.	4.0145756

Particle Size	Calculated % Passing		
0.064	74	+	70.06
0.05	50	+	56.13
0.02	18	++	18.54
0.005	6	++	6.32
0.002	0	++	-1.77
0.001	0	++	-7.88

MLG 1124
7/22/11

USF&G 1981

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339368	07/13/11	LMG/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.10	539.10	0.00	100
1.5 inch	559.53	559.53	0.00	100
0.75 inch	556.49	556.49	0.00	100
# 4	446.31	446.23	0.08	99.9678159
# 6	519.19	518.94	0.25	99.8672406
# 8	429.90	429.63	0.27	99.7586193
PAN	686.89	438.92	247.97	

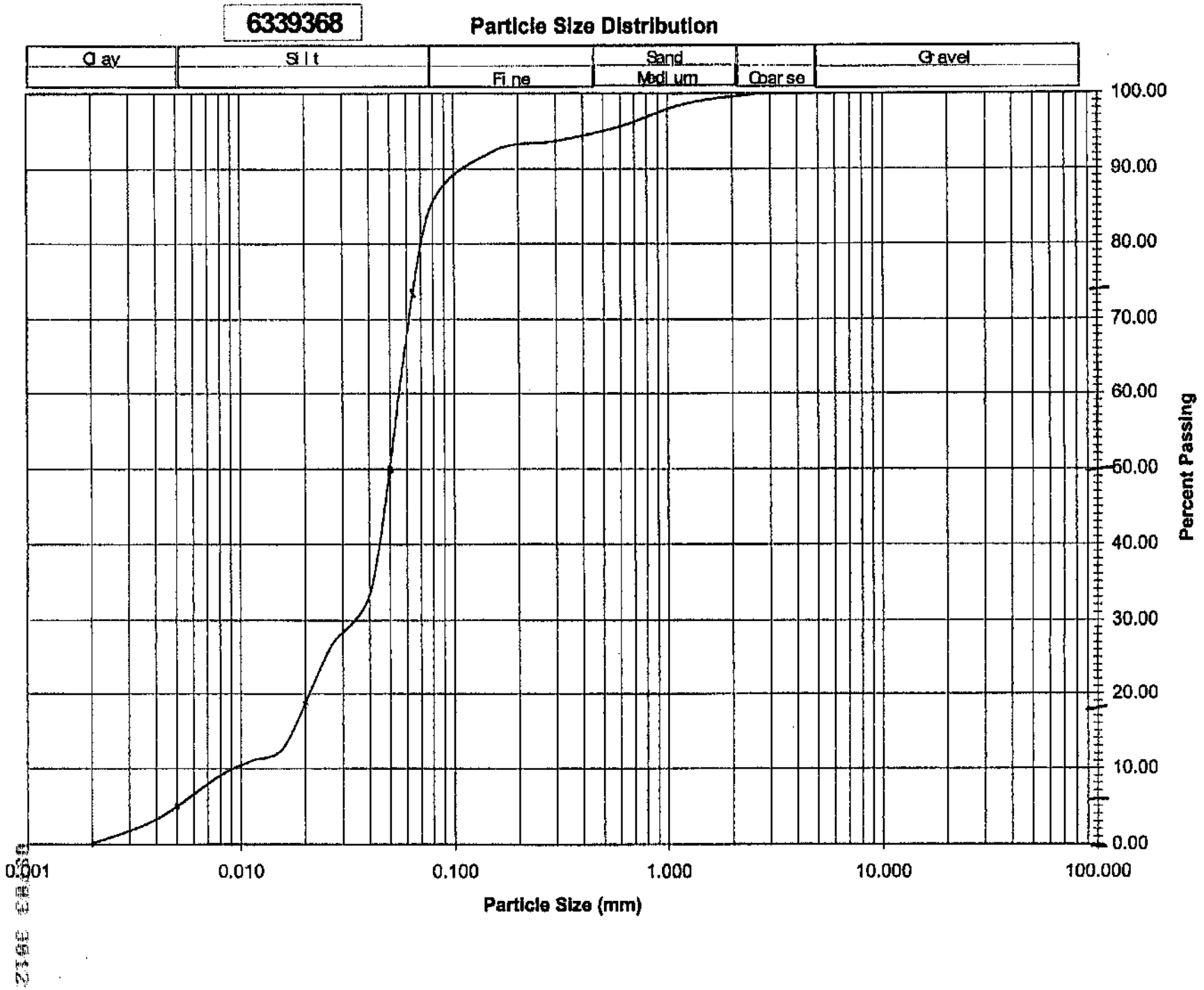
Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	369.00	368.40	0.60	98.5439097
# 30	292.99	291.57	1.42	95.6690971
# 50	265.04	264.09	0.95	93.745807
# 100	230.18	229.45	0.73	92.2679103
# 200	225.17	220.86	4.31	83.5422466
PAN	441.75	438.92	2.83	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0825	5.0060	5.9700	0.9763

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
61.9648	11.1539	105.7850	94.6311	5.3689	2.0775

Hydrometer Readings Time	Sample Weight Temp	50.47 Reading	Hydrometer #: 372418 Corr. Rdng.	 Part. Size	 % Passing
2 minutes	20.0	1.0140	1.009	0.0412	34.5061772
5 minutes	20.0	1.0120	1.007	0.0266	26.6993498
15 minutes	20.0	1.0085	1.003	0.0160	13.0374018
30 minutes	20.0	1.0080	1.003	0.0113	11.0856949
60 minutes	20.0	1.0075	1.002	0.0080	9.13398808
250 minutes	20.0	1.0060	1.001	0.0040	3.27886752
1440 minutes	20.0	1.0050	1.000	0.0017	-0.6245462

ITEC 6933


6339368
Particle Size Distribution
Clay
Silt
Fine
Sand
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339369 Date: 7.13.11 Init./Emp. #: SY/2441 Batch #: 111947105011

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.13	539.13
1.5 Inch	559.50	557.50
0.75 Inch	556.47	556.47
#4	446.31	446.27
#6	519.58	519.00
#8	432.82	425.69
PAN	684.51	438.94

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 73A

Prep. sple description:

Comments:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	369.46	368.35
#30	293.39	291.53
#50	265.30	264.07
#100	230.51	229.49
#200	228.13	220.84
PAN	442.86	438.89

Analytical Balance ID#: 16262

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0523	5.0062	5.9736

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
109.8818	14.3764	107.4983

Hydrometer Readings Sample Wt. 50.10 Hydrometer ID #: 372413

Time	Temp	Reading	Comments
2 minutes	20°	1.011	
5 minutes	20°	1.009	
15 minutes	20°	1.007	
30 minutes	20°	1.006	
60 minutes	20°	1.0055	
250 minutes	20°	1.005	
1440 minutes	20°	1.004	

Foam: yes

Org. matter:

Oven ID#: 1131

Oven Temp In:

Oven Temp Out:

USF03 3813

Verified by: KAB/957 Date: 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339369	07/3/11 21:00	lmg/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.98		4.75
99.75		3.35
98.50		2.36
96.28		1.18
92.56		0.6
90.94		0.3
88.90		0.15
74.32	*	0.075
23.96	*	0.04234
16.30	***	0.02728
8.63	**	0.01603
4.79	**	0.01145
2.88	**	0.00818
0.96	**	0.00401
-2.88	**	0.00168

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.373202
-1.564217
-1.795104
-1.941141
-2.087271
-2.397164
-2.774499

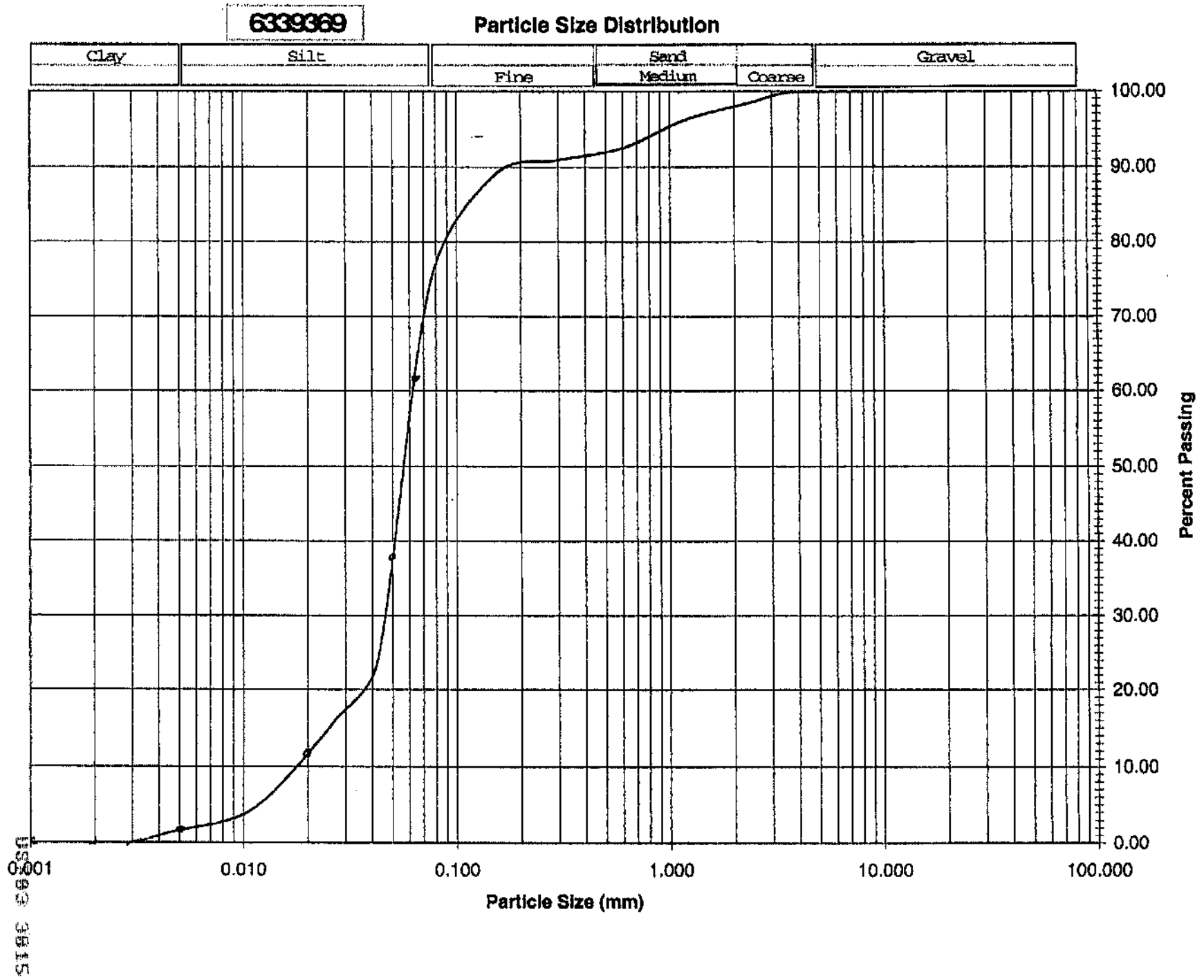
Line 1 Regression Output:	
Constant	221.7248489
Std Err of Y Est	14.2980405
R Squared	0.8971070
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	135.5361686
Std Err of Coef.	45.9014091

Line 2 Regression Output:	
Constant	35.1445548
Std Err of Y Est	2.6636244
R Squared	0.8730794
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	14.3472044
Std Err of Coef.	2.7351203

Particle Size	Calculated % Passing		
0.064	61.5	+	59.92
0.05	38	+	45.39
0.02	11.5	++	10.77
0.005	1.5	++	2.13
0.002	0	++	-3.58
0.001	0	++	-7.90

KAB/957 7/22/11

4166 5814


6339369
Particle Size Distribution
Clay
Silt
Sand
Fine
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Particle Size Distribution

Sample:	Date:	Init/Smp #
6339369	07/3/11 21:00	lmg/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.13	539.13	0.00	100
1.5 inch	559.50	559.50	0.00	100
0.75 inch	556.47	556.47	0.00	100
# 4	446.31	446.27	0.04	99.98395636
# 6	519.58	519.00	0.58	99.7513236
# 8	432.82	429.69	3.13	98.49590887
PAN	684.51	438.94	245.57	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	369.46	368.35	1.11	96.2760171
# 30	293.39	291.53	1.86	92.55619847
# 50	265.30	264.49	0.81	90.93627745
# 100	230.51	229.49	1.02	88.8963769
# 200	228.13	220.84	7.29	74.31708773
PAN	442.86	438.89	3.97	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0523	5.0062	5.9736	0.9830

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
109.8818	14.3764	107.4983	93.1219	6.8781	2.0902

Hydrometer Readings Time	Sample Weight Temp	50.10 Reading	Hydrometer #: Corr. Rdng.	Part. Size	% Passing
2 minutes	20.0	1.0110	1.006	0.0423	23.96493055
5 minutes	20.0	1.0090	1.004	0.0273	16.29615278
15 minutes	20.0	1.0070	1.002	0.0160	8.627374999
30 minutes	20.0	1.0060	1.001	0.0115	4.792986111
60 minutes	20.0	1.0055	1.001	0.0082	2.875791666
250 minutes	20.0	1.0050	1.000	0.0040	0.958597222
1440 minutes	20.0	1.0040	0.999	0.0017	-2.87579167

STGC GBESN

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339370 Date: 7.13.11 Init./Emp. #: SU/1441 Lmg/239 Batch #: 111947103011A

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.13	539.13
1.5 Inch	559.55	559.55
0.75 Inch	556.45	556.45
#4	446.33	446.31
#6	519.11	518.99
#8	429.89	429.69
PAN	695.57	438.92

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 73A

Prep. sple description:

Comments:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.43	368.35
#30	291.99	291.46
#50	264.60	264.00
#100	229.93	229.45
#200	222.82	220.93
PAN	439.90	438.77

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0797	5.0010	5.8720

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
62.3813	15.8454	~~109.1445~~ 109.1366
		109.1366

KAB/957 7/22/11

Hydrometer Readings Sample Wt. 50.29 Hydrometer ID #: 372418

Time	Temp	Reading
2 minutes	20°	1020
5 minutes	20°	~~1007~~ 1013
15 minutes	20°	1.015
30 minutes	20°	1.013
60 minutes	20°	1.012
250 minutes	20°	1.010
1440 minutes	20°	1.008

Lmg/239 7/12/11

Foam:

Org. matter:

Comments

Oven ID#: 1171

Oven Temp In:

Oven Temp Out:

USP63 3817

Verified by: KAB/957 Date: 7/22/11

Issued by Dept. 4029 Management
3606.05

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339370	07/13/11	lmg/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.13	539.13	0.00	100
1.5 inch	559.55	559.55	0.00	100
0.75 inch	556.45	556.45	0.00	100
# 4	446.33	446.31	0.02	99.9922176
# 6	519.11	518.99	0.12	99.94552317
# 8	429.89	429.69	0.20	99.86769913
PAN	695.57	438.92	256.65	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.43	368.35	0.08	99.70191374
# 30	291.99	291.46	0.53	98.60358554
# 50	264.60	264.00	0.60	97.36019512
# 100	229.93	229.45	0.48	96.36548279
# 200	222.82	220.93	1.89	92.44880297
PAN	439.90	438.00	1.90	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0797	5.0010	5.8720	0.9583

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
62.3813	15.8454	109.1366	93.2912	6.7088	2.3619

Hydrometer Readings Time	Sample Weight Temp	50.29 Reading	Hydrometer #: Corr. Rdng.	Part. Size	% Passing
2 minutes	20.0	1.0200	1.015	0.0352	54.80809466
5 minutes	20.0	1.0170	1.012	0.0230	44.0261744
15 minutes	20.0	1.0150	1.010	0.0136	36.83822756
30 minutes	20.0	1.0130	1.008	0.0098	29.65028072
60 minutes	20.0	1.0120	1.007	0.0070	26.0563073
250 minutes	20.0	1.0100	1.005	0.0035	18.86836046
1440 minutes	20.0	1.0080	1.003	0.0015	11.68041362

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339370	07/13/11	1mg/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.99		4.75
99.95		3.35
99.87		2.36
99.70		1.18
98.60		0.6
97.36		0.3
96.37		0.15
92.45	*	0.075
54.81	*	0.03518
44.03	***	0.02304
36.84	**	0.01358
29.65	**	0.00984
26.06	**	0.00701
18.87	**	0.00351
11.68	**	0.00149

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.453710
-1.637436
-1.866985
-2.007158
-2.154332
-2.454502
-2.826929

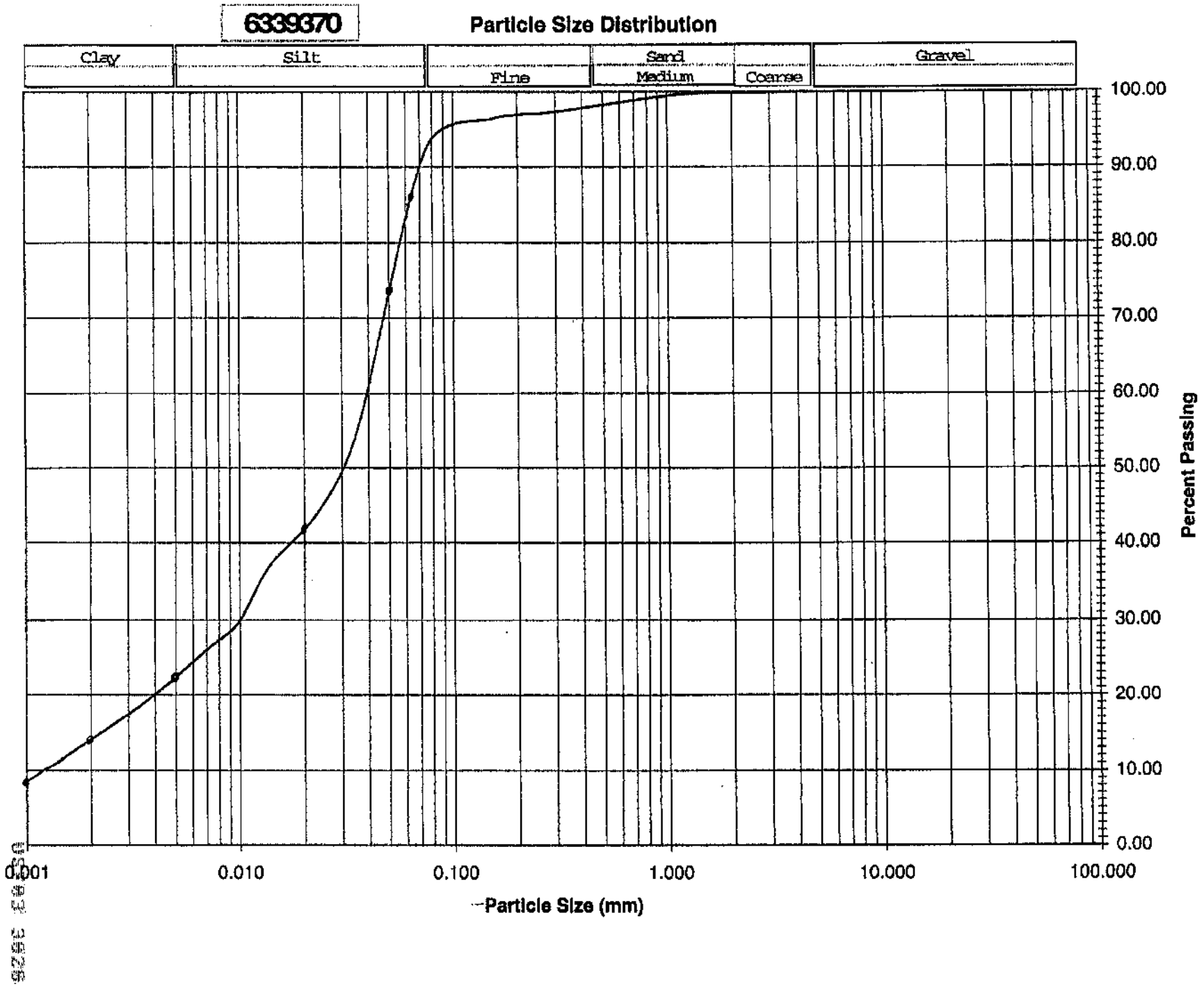
Line 1 Regression Output:	
Constant	199.8592932
Std Err of Y Est	5.2999197
R Squared	0.9782694
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	96.8421677
Std Err of Coef.	14.4334834

Line 2 Regression Output:	
Constant	86.3703741
Std Err of Y Est	2.1818302
R Squared	0.9724451
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	27.1177300
Std Err of Coef.	2.2823906

Particle Size	Calculated % Passing		
0.064	86	+	84.25
0.05	73	+	73.86
0.02	41.5	++	40.30
0.005	22	++	23.97
0.002	14	++	13.18
0.001	9	++	5.02

KAB/957 7/22/11

GTEC CASH


6339370
Particle Size Distribution
Clay
Silt
Sand
Fine
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339371 Date: 7.13.11 Init./Emp. #: SMJ/244 Batch #: 111947103010

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.10	539.10
1.5 Inch	559.56	559.56
0.75 Inch	556.45	556.45
#4	446.27	446.26
#6	519.09	518.97
#8	430.34	429.63
PAN	685.74	438.44

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 73A

Prep. sple description:

Comments:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.40	368.30
#30	291.78	291.46
#50	264.36	264.04
#100	229.71	229.41
#200	222.51	220.89
PAN	439.79	438.87

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0851	5.0043	5.8943

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
68.1205	11.6942	106.6211

Hydrometer Readings Sample Wt. 50.26 Hydrometer ID #: 372478

Time	Temp	Reading	Comments
2 minutes	20°	1.0225	
5 minutes	20°	1.020	
15 minutes	20°	1.017	
30 minutes	20°	1.015	
60 minutes	20°	1.0135	
250 minutes	20°	1.012	
1440 minutes	20°	1.010	

Foam:

Org. matter:

Oven ID#: 1171

Oven Temp In: USF83 3821

Oven Temp Out:

Verified by: KAB/157 Date: 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339371	7/13/11 21:00	lmg/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
100.00		4.75
99.95		3.35
99.66		2.36
99.45		1.18
98.79		0.6
98.13		0.3
97.52		0.15
94.17	*	0.075
64.69	*	0.03502
55.58	***	0.02267
44.64	**	0.01356
37.35	**	0.00979
31.89	**	0.00709
26.42	**	0.00350
19.13	**	0.00149

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.455678
-1.644543
-1.867859
-2.009362
-2.149538
-2.456089
-2.826575

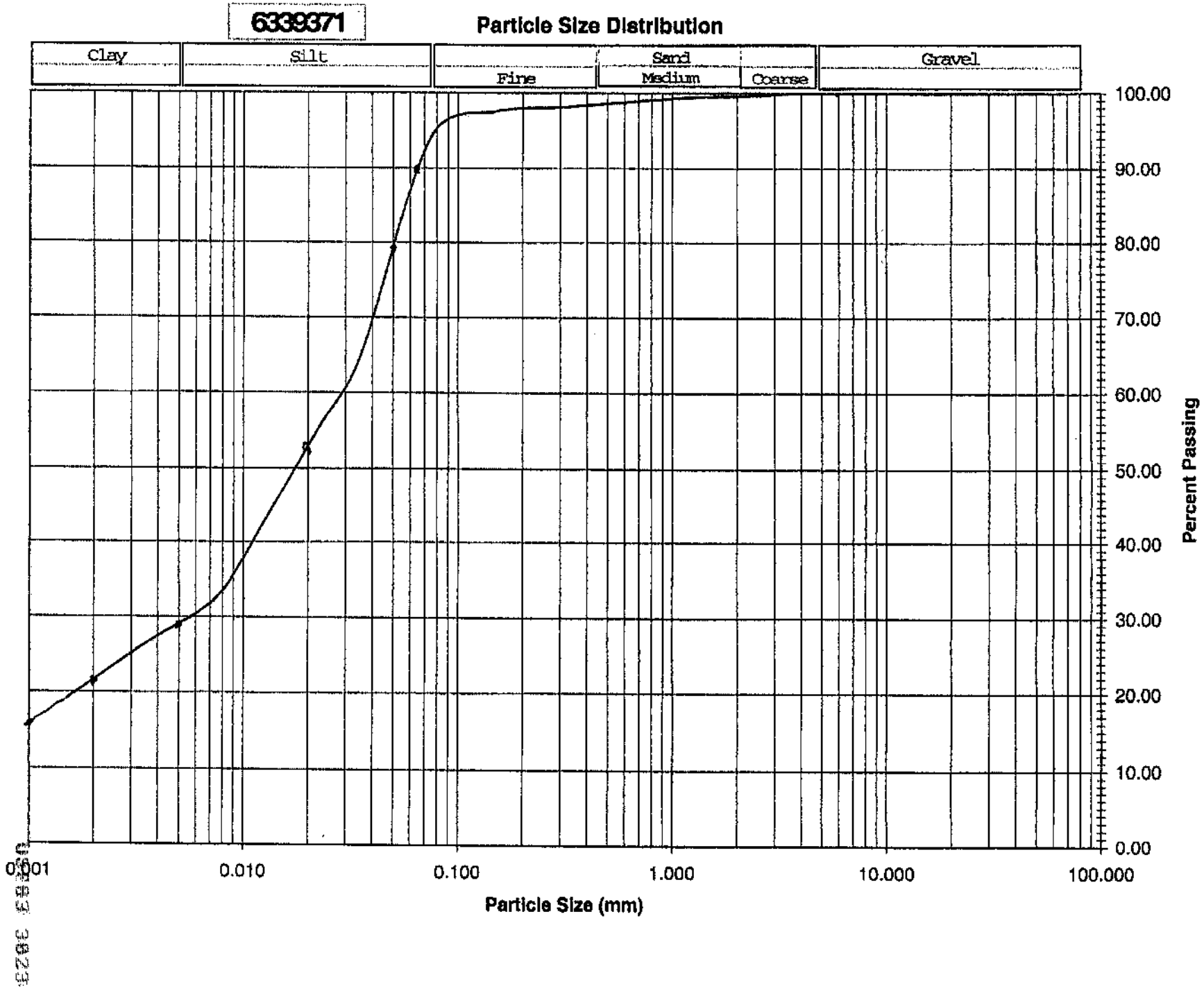
Line 1 Regression Output:	
Constant	178.4628610
Std Err of Y Est	3.9669065
R Squared	0.9806692
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	75.9626902
Std Err of Coef.	10.6650773

Line 2 Regression Output:	
Constant	99.8471469
Std Err of Y Est	3.7574236
R Squared	0.9337750
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	29.6488023
Std Err of Coef.	3.9479092

Particle Size	Calculated % Passing		
0.064	90	+	87.78
0.05	79	+	79.63
0.02	52	++	49.47
0.005	29	++	31.62
0.002	21	++	19.83
0.001	16	++	10.90

KAB/957 7/22/11

2565 E9356


6339371
Particle Size Distribution
Clay
Silt
Sand
Fine
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339371	7/13/11 21:00	lmg/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.10	539.10	0.00	100
1.5 inch	559.56	559.56	0.00	100
0.75 inch	556.45	556.45	0.00	100
# 4	446.27	446.26	0.01	99.99596351
# 6	519.09	518.97	0.12	99.94752563
# 8	430.34	429.63	0.71	99.66093485
PAN	685.74	438.84	246.90	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.40	368.30	0.10	99.45459982
# 30	291.78	291.46	0.32	98.79432771
# 50	264.36	264.04	0.32	98.13405561
# 100	229.71	229.41	0.30	97.51505051
# 200	222.51	220.89	1.62	94.17242298
PAN	439.79	438.87	0.92	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0851	5.0043	5.8943	0.9610

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
68.1205	11.6942	106.6211	94.9269	5.0731	2.3051

Hydrometer Readings Time	Sample Weight Temp	50.26 Reading	Hydrometer #: Corr. Rdng.	Part. Size	% Passing
2 minutes	20.0	1.0225	1.018	0.0350	64.68620881
5 minutes	20.0	1.0200	1.015	0.0227	55.57547518
15 minutes	20.0	1.0170	1.012	0.0136	44.64259481
30 minutes	20.0	1.0150	1.010	0.0098	37.35400791
60 minutes	20.0	1.0135	1.009	0.0071	31.88756772
250 minutes	20.0	1.0120	1.007	0.0035	26.42112754
1440 minutes	20.0	1.0100	1.005	0.0015	19.13254063

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339372 Date: 7-13-11 Init./Emp. #: SLY/241 Batch #: 11194 7103 01A

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.06	539.06
1.5 Inch	559.49	559.49
0.75 Inch	556.51	556.51
#4	446.43	446.30
#6	519.20	518.95
#8	430.36	429.66
PAN	693.99	438.87

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 33A

Prep. sple description:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.48	368.35
#30	291.91	291.44
#50	264.54	264.01
#100	230.15	229.44
#200	223.99	220.93
PAN	440.24	438.85

Comments:

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.1199	5.0040	5.9528

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
59.2664	10.8675	106.0713

Hydrometer Readings Sample Wt. 50.14 Hydrometer ID #: 322418

Time	Temp	Reading	Comments
2 minutes	20°	1.020	
5 minutes	20°	1.017	
15 minutes	20°	1.0135	
30 minutes	20°	1.0125	
60 minutes	20°	1.0115	
250 minutes	20°	1.010	
1440 minutes	20°	1.008	

Foam:

Org. matter:

Oven ID#: 1131

Oven Temp In:

Oven Temp Out:

USF83 3625

Verified by: KAB/7/27 Date: 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339372	07/13/11	LMG/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.95		4.75
99.85		3.35
99.58		2.36
99.31		1.18
98.34		0.6
97.25		0.3
95.79		0.15
89.50	*	0.075
54.62	*	0.03631
43.58	***	0.02378
30.70	**	0.01436
27.02	**	0.01023
23.34	**	0.00732
17.81	**	0.00362
10.45	**	0.00154

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.440028
-1.623753
-1.842962
-1.990136
-2.135735
-2.440819
-2.813246

Line 1 Regression Output:	
Constant	193.9305786
Std Err of Y Est	4.7399518
R Squared	0.9804485
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	94.0827799
Std Err of Coef.	13.2857873

Line 2 Regression Output:	
Constant	80.2047983
Std Err of Y Est	3.3462268
R Squared	0.9307054
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	25.5576104
Std Err of Coef.	3.4868550

Particle Size	Calculated	% Passing
0.064 83	+	81.61
0.05 71	+	71.53
0.02 39	++	36.78
0.005 21	++	21.40
0.002 12	++	11.23
0.001 7	++	3.53

MLG/1124 7/22/11

9285 2845N

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339372	07/13/11	LMG/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.06	539.06	0.00	100
1.5 inch	559.49	559.49	0.00	100
0.75 inch	556.51	556.51	0.00	100
# 4	446.43	446.30	0.13	99.9492584
# 6	519.20	518.95	0.25	99.8516784
# 8	430.36	429.66	0.70	99.5784543
PAN	693.99	438.87	255.12	

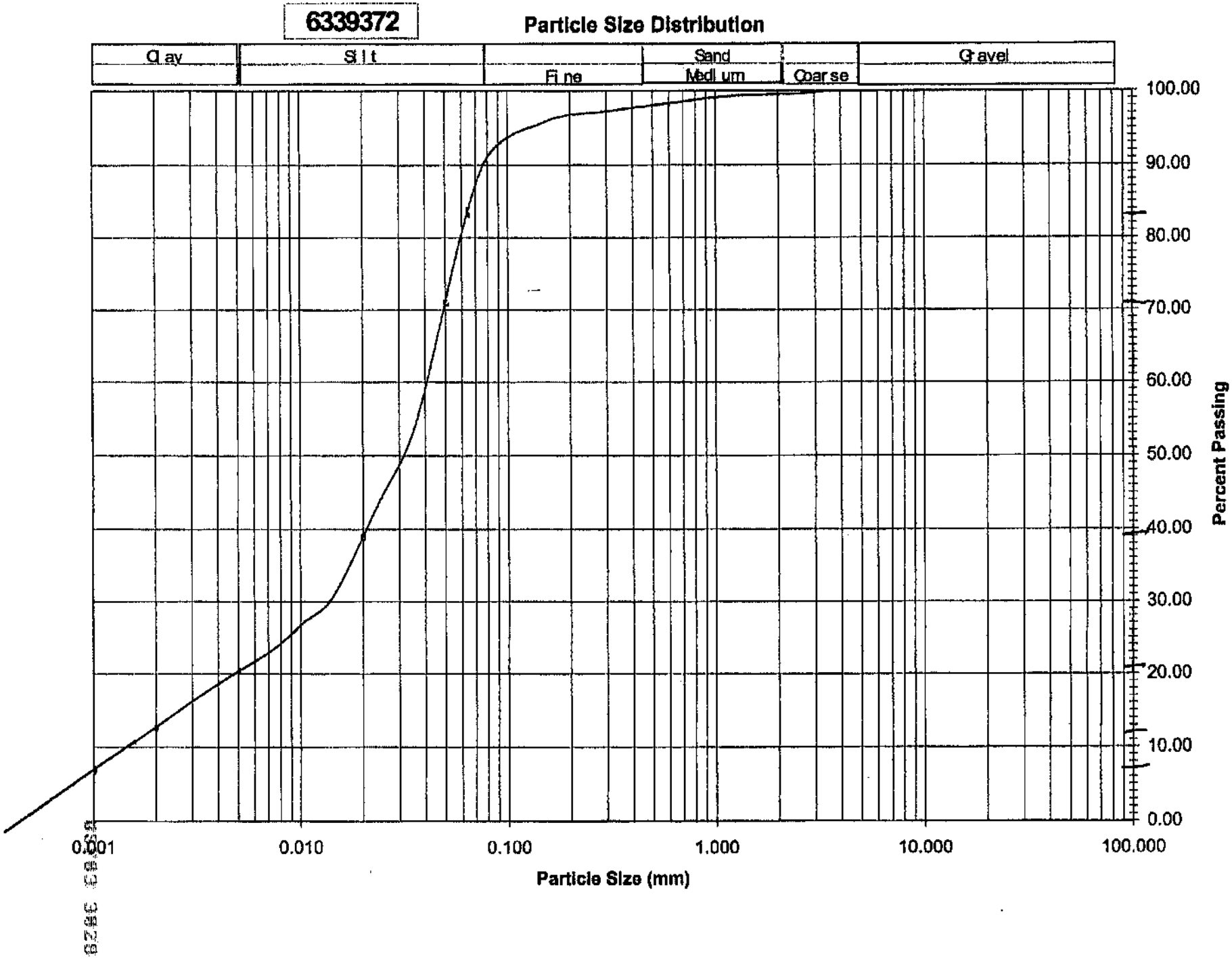
Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.48	368.35	0.13	99.3111328
# 30	291.91	291.44	0.47	98.3446628
# 50	264.54	264.01	0.53	97.2548136
# 100	230.15	229.44	0.71	95.7948269
# 200	223.99	220.93	3.06	89.50249
PAN	440.24	438.85	1.39	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.1199	5.0040	5.9528	0.9658

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
59.2664	10.8675	106.0713	95.2038	4.7962	2.2659

Hydrometer Readings Time	Sample Weight Temp	50.14 Reading	Hydrometer #: 372418 Corr. Rdng.	 Part. Size	 % Passing
2 minutes	20.0	1.0200	1.015	0.0363	54.622604
5 minutes	20.0	1.0170	1.012	0.0238	43.5802986
15 minutes	20.0	1.0135	1.008	0.0144	30.697609
30 minutes	20.0	1.0125	1.007	0.0102	27.0168405
60 minutes	20.0	1.0115	1.006	0.0073	23.336072
250 minutes	20.0	1.0100	1.005	0.0036	17.8149194
1440 minutes	20.0	1.0080	1.003	0.0015	10.4533824

ASTM C136


6339372
Particle Size Distribution
Clay
Silt
Fine
Sand
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339373 Date: 7.13.11 Init./Emp. #: SMG/239 SM/2441 Batch #: 111947103.01A

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.13	539.13
1.5 Inch	559.59	559.59
0.75 Inch	556.43	556.43
#4	446.31	446.30
#6	519.00	518.90
#8	430.05	429.69
PAN	690.69	438.92

Time: 2100

Dried Organic Matter: _____

Odor: _____

Bottle code: 73A

Prep. sple description: _____

Comments: _____

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.56	368.30
#30	292.75	291.46
#50	265.93	264.00
#100	231.96	229.47
#200	231.76	220.98
PAN	443.55	438.97

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0930	5.0014	5.9105

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
64.7822	11.6458	106.6266

Hydrometer Readings Sample Wt. 50.05 Hydrometer ID #: 372418

Time	Temp	Reading	Comments
2 minutes	20°	1.0105	
5 minutes	20°	1.010	
15 minutes	20°	1.009	
30 minutes	20°	1.008	
60 minutes	20°	1.0075	
250 minutes	20°	1.007	
1440 minutes	20°	1.006	

Foam: _____

Org. matter: _____

Oven ID#: 1131

Oven Temp In: _____

Oven Temp Out: _____

USF83: 3629

Verified by: KAB/957 Date: 7/22/11

Issued by Dept. 4029 Management
3606.05

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339373	7/13/11 21:00	lmg/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
100.00		4.75
99.96		3.35
99.81		2.36
99.28		1.18
96.60		0.6
92.61		0.3
87.45		0.15
65.13	*	0.075
20.92	*	0.03980
19.10	***	0.02517
15.46	**	0.01464
11.83	**	0.01046
10.01	**	0.00745
8.19	**	0.00365
4.55	**	0.00154

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.400064
-1.599031
-1.834445
-1.980323
-2.127802
-2.437695
-2.813429

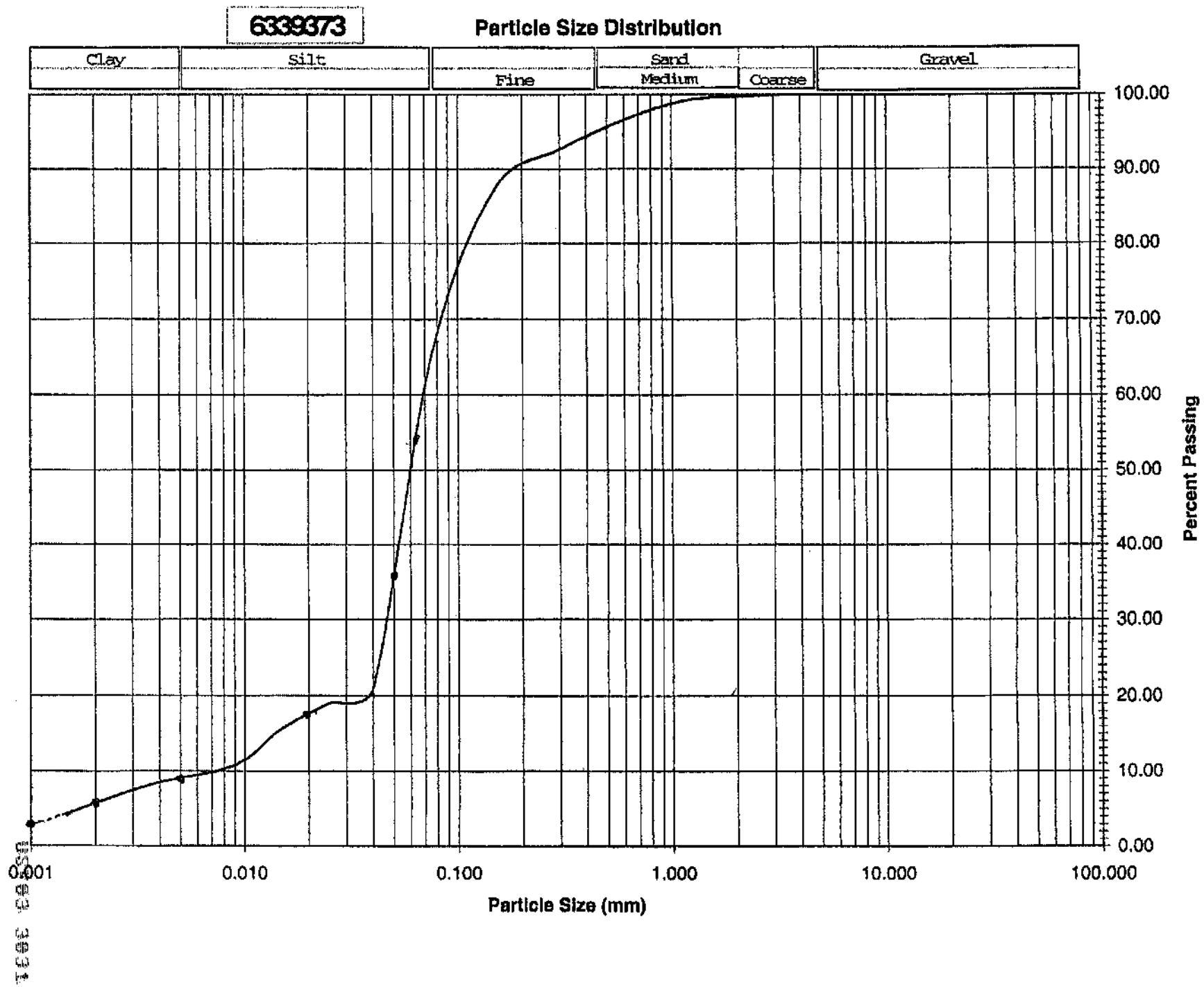
Line 1 Regression Output:	
Constant	173.9139978
Std Err of Y Est	14.2270833
R Squared	0.8510583
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	101.0134980
Std Err of Coef.	42.2579069

Line 2 Regression Output:	
Constant	36.1764542
Std Err of Y Est	1.3849962
R Squared	0.9432281
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	11.5632375
Std Err of Coef.	1.4184300

Particle Size	Calculated % Passing	
0.064 54	+	53.32
0.05 35	+	42.49
0.02 18	++	16.53
0.005 9	++	9.57
0.002 6	++	4.97
0.001 3	++	1.49

KAB/957 7/22/11

ECSC COASN


6339373
Particle Size Distribution
Clay
Silt
Sand
Fine
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339373	7/13/11 21:00	lmg/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.13	539.13	0.00	100
1.5 inch	559.59	559.59	0.00	100
0.75 inch	556.43	556.43	0.00	100
# 4	446.31	446.30	0.01	99.99603521
# 6	519.00	518.90	0.10	99.95638728
# 8	430.05	429.69	0.36	99.81365475
PAN	690.67	438.92	251.75	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.56	368.30	0.26	99.27534891
# 30	292.75	291.46	1.29	96.60452378
# 50	265.93	264.00	1.93	92.60863813
# 100	231.96	229.47	2.49	87.45332452
# 200	231.76	220.98	10.78	65.13433628
PAN	443.55	438.87	4.68	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0930	5.0014	5.9105	0.9632

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
64.7822	11.6458	106.6266	94.9808	5.0192	2.3203

Hydrometer Readings Time	Sample Weight Temp	50.05 Reading	Hydrometer #: Corr. Rdng.	Part. Size	% Passing
2 minutes	20.0	1.0105	1.006	0.0398	20.92194993
5 minutes	20.0	1.0100	1.005	0.0252	19.10264994
15 minutes	20.0	1.0090	1.004	0.0146	15.46404995
30 minutes	20.0	1.0080	1.003	0.0105	11.82544996
60 minutes	20.0	1.0075	1.003	0.0075	10.00614997
250 minutes	20.0	1.0070	1.002	0.0037	8.186849974
1440 minutes	20.0	1.0060	1.001	0.0015	4.548249985

SCS ENGR

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339374 Date: 7.13.11 Init./Emp. #: SLJ/241 Batch #: 111947103o1A

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.10	539.10
1.5 Inch	559.55	559.55
0.75 Inch	556.47	556.47
#4	446.77	446.23
#6	519.82	518.91
#8	434.62	429.65
PAN	674.23	438.94

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 73A

Prep. sple description:

Comments:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.48	368.36
#30	291.97	291.44
#50	264.74	264.00
#100	230.30	229.46
#200	226.30	220.95
PAN	441.28	438.84

Analytical Balance ID#: 16462

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0953	5.0051	5.9201

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
50.6584	12.5662	106.2022

Hydrometer Readings Sample Wt. 50.12 Hydrometer ID #: 372418

Time	Temp	Reading	Comments
2 minutes	20°	1.017	
5 minutes	20°	1.016	
15 minutes	20°	1.0125	
30 minutes	20°	1.0110	
60 minutes	20°	1.0105	
250 minutes	20	1.010	
1440 minutes	20°	1.008	

Foam:

Org. matter:

Oven ID#: 1171

Oven Temp In:

Oven Temp Out:

USF63 3033

Verified by: KAB/957 Date: 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339374	7/13/11	lmg/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.78		4.75
99.40		3.35
97.34		2.36
97.10		1.18
96.03		0.6
94.54		0.3
92.85		0.15
82.07	*	0.075
50.01	*	0.04114
45.92	***	0.02635
31.64	**	0.01583
25.51	**	0.01132
23.47	**	0.00809
21.43	**	0.00396
13.27	**	0.00168

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.385734
-1.579253
-1.800572
-1.946169
-2.091878
-2.401770
-2.774197

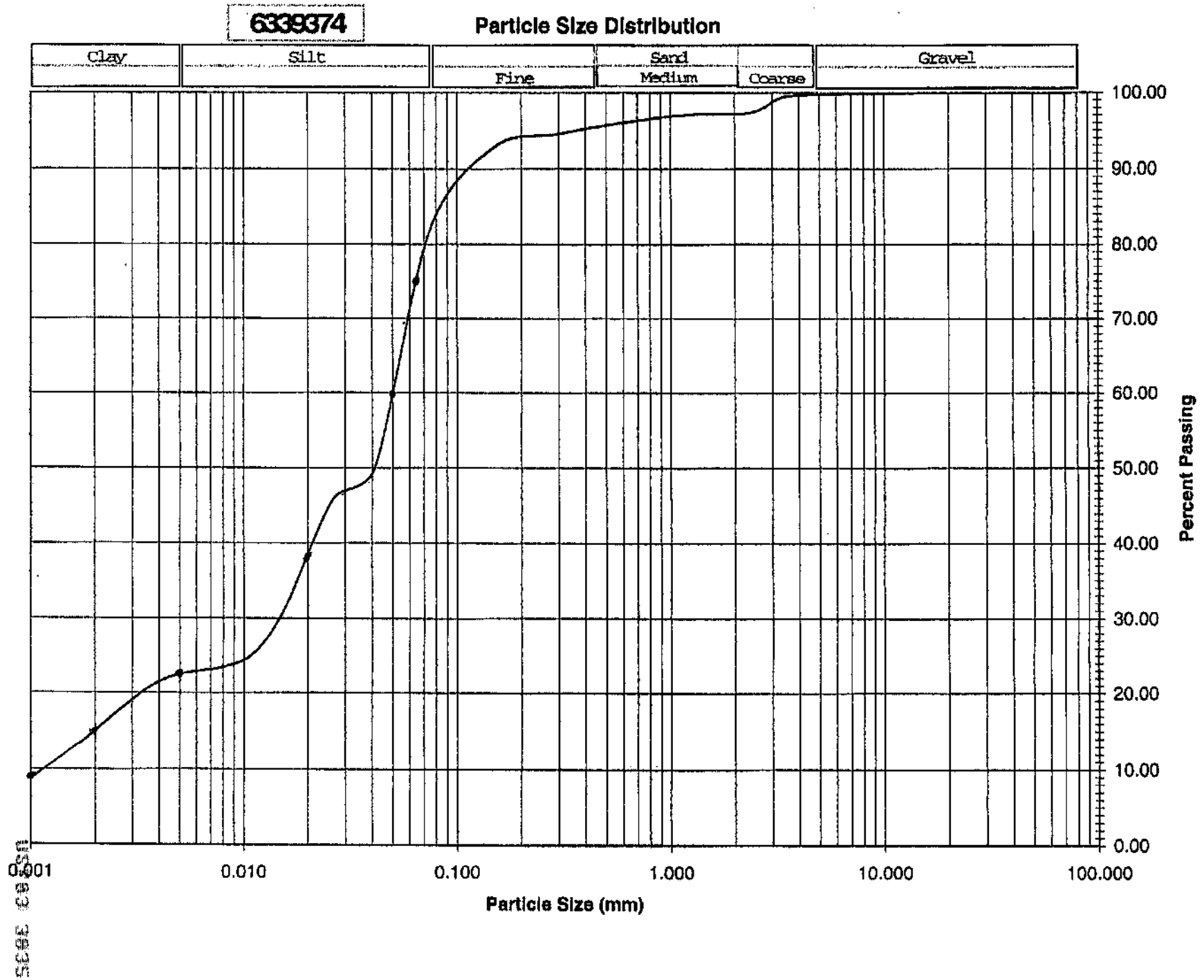
Line 1 Regression Output:	
Constant	171.1336848
Std Err of Y Est	9.2051954
R Squared	0.8918957
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	82.0060489
Std Err of Coef.	28.5502808

Line 2 Regression Output:	
Constant	76.3509407
Std Err of Y Est	4.9233734
R Squared	0.8420333
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	23.5718862
Std Err of Coef.	5.1048448

Particle Size	Calculated % Passing		
0.064	75	+	73.23
0.05	60	+	64.44
0.02	38	++	36.30
0.005	22	++	22.11
0.002	15	++	12.73
0.001	9	++	5.64

KAB/957 7/22/11

USACE 2934


6339374
Particle Size Distribution
Clay
Silt
Sand
Fine
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339374	7/13/11	lmg/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.10	539.10	0.00	100
1.5 inch	559.55	559.55	0.00	100
0.75 inch	556.47	556.47	0.00	100
# 4	446.77	446.23	0.54	99.77659178
# 6	519.82	518.91	0.91	99.40010757
# 8	434.62	429.65	4.97	97.34392454
PAN	674.23	438.94	235.29	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.48	368.36	0.12	97.10214893
# 30	291.97	291.44	0.53	96.03430668
# 50	264.74	264.00	0.74	94.54335711
# 100	230.30	229.46	0.84	92.85092788
# 200	226.30	220.95	5.35	82.07176549
PAN	441.28	438.84	2.44	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0953	5.0051	5.9201	0.9640

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
50.6584	12.5662	106.2022	93.6360	6.3640	1.9746

Hydrometer Readings Time	Sample Weight Temp	50.12 Reading	Hydrometer #: Corr. Rdng.	Part. Size	% Passing
2 minutes	20.0	1.0170	1.012	0.0411	50.00639213
5 minutes	20.0	1.0160	1.011	0.0263	45.92423767
15 minutes	20.0	1.0125	1.008	0.0158	31.63669706
30 minutes	20.0	1.0110	1.006	0.0113	25.51346537
60 minutes	20.0	1.0105	1.006	0.0081	23.47238814
250 minutes	20.0	1.0100	1.005	0.0040	21.43131091
1440 minutes	20.0	1.0080	1.003	0.0017	13.26700199

RECEIVED

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339375 Date: 7.13.11 Init./Emp. #: JMG/239 Batch #: 111947103011A

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.06	539.06
1.5 Inch	559.51	559.51
0.75 Inch	556.46	556.46
#4	446.29	446.27
#6	519.04	518.91
#8	430.23	429.63
PAN	687.82	439.00

Time: 7:2100 (mg/239 7/13/11)

Dried Organic Matter: _____

Odor: _____

Bottle code: 73A

Prep. sple description: _____

_____

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.39	368.36
#30	291.80	291.42
#50	264.47	264.02
#100	229.95	229.45
#200	223.82	220.90
PAN	440.36	438.89

Comments: _____

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0820	5.0010	5.8760

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
60.0244	10.7769	105.5532

Hydrometer Readings Sample Wt. 50.29 Hydrometer ID #: 372412

Time	Temp	Reading	Comments
2 minutes	20°	1.016	
5 minutes	20°	1.014	
15 minutes	20°	1.012	
30 minutes	20°	1.0105	
60 minutes	20°	1.010	
250 minutes	20°	1.0085	
1440 minutes	20°	1.007	

Foam: _____

Org. matter: _____

Oven ID#: 1121

Oven Temp In: _____

Oven Temp Out: _____

USF83 3837

Verified by: KAB/957 Date: 7/22/11

Issued by Dept. 4029 Management
3606.05

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339375	07/13/11	LMG/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.99		4.75
99.94		3.35
99.70		2.36
99.64		1.18
98.85		0.6
97.92		0.3
96.89		0.15
90.85	*	0.075
43.51	*	0.04057
35.48	***	0.02618
27.45	**	0.01541
21.43	**	0.01115
19.43	**	0.00788
13.41	**	0.00393
7.38	**	0.00165

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.391780
-1.581958
-1.812068
-1.952861
-2.103373
-2.405486
-2.782658

Line 1 Regression Output:	
Constant	227.1051059
Std Err of Y Est	12.2013740
R Squared	0.9168523
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	124.7920039
Std Err of Coef.	37.5804731

Line 2 Regression Output:	
Constant	68.2979315
Std Err of Y Est	2.3458833
R Squared	0.9556788
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	22.5668775
Std Err of Coef.	2.4299146

Particle Size	Calculated	% Passing
0.064	82 +	78.13
0.05	60 +	64.75
0.02	31 ++	29.96
0.005	15 ++	16.37
0.002	8 ++	7.39
0.001	3 ++	0.60

MLG/1124 7/22/11

SCAS 25139

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339375	07/13/11	LMG/239

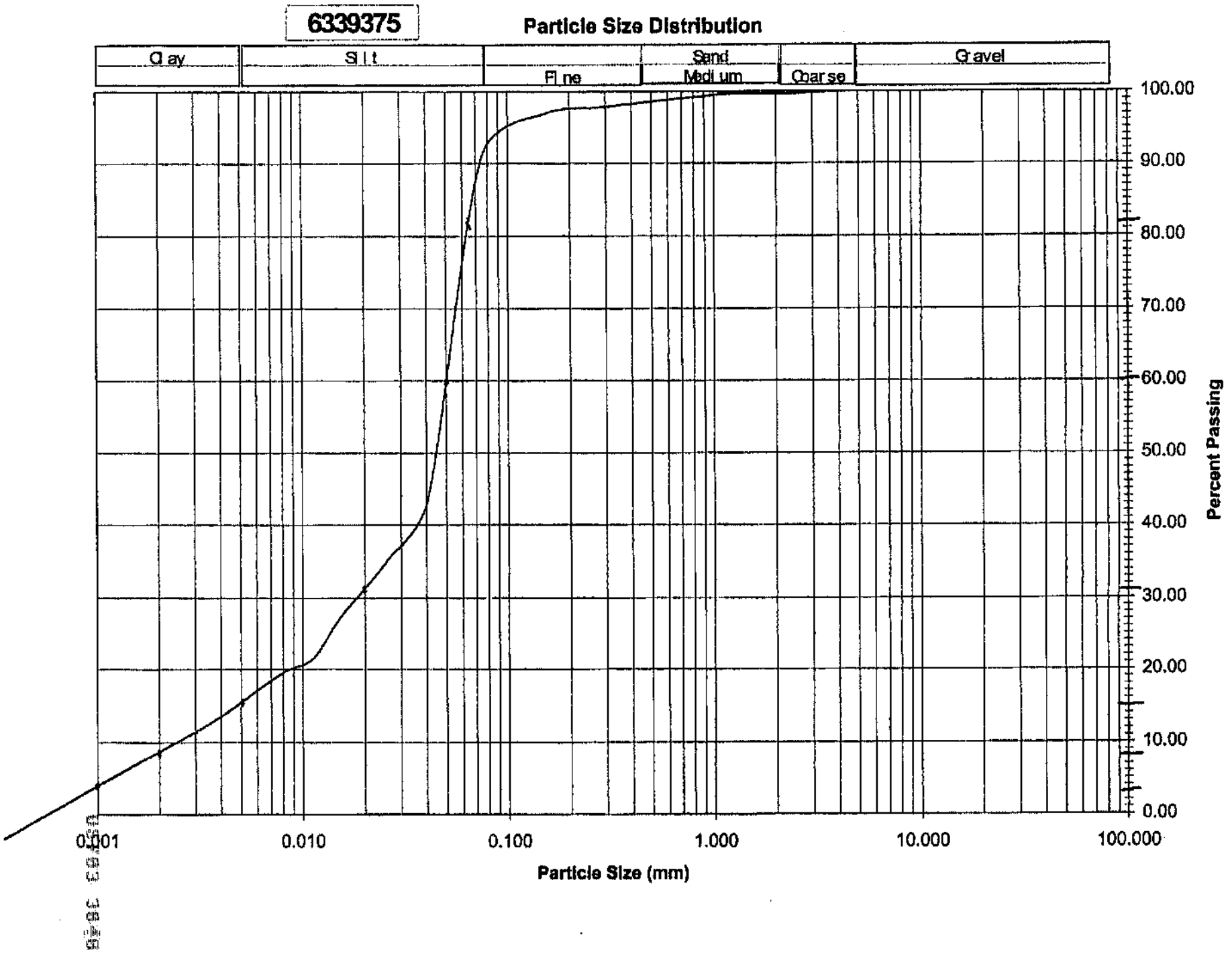
Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.06	539.06	0.00	100
1.5 inch	559.51	559.51	0.00	100
0.75 inch	556.46	556.46	0.00	100
# 4	446.29	446.27	0.02	99.9919862
# 6	519.04	518.91	0.13	99.9398966
# 8	430.23	429.63	0.60	99.6994831
PAN	687.82	439.00	248.82	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.39	368.36	0.03	99.6374403
# 30	291.80	291.42	0.38	98.8515649
# 50	264.47	264.02	0.45	97.920923
# 100	229.95	229.45	0.50	96.8868764
# 200	223.82	220.90	2.92	90.8480444
PAN	440.36	438.89	1.47	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0820	5.0010	5.8760	0.9586

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
60.0244	10.7769	105.5532	94.7763	5.2237	2.0631

Hydrometer Readings	Sample Weight	50.29	Hydrometer #:	372418	
Time	Temp	Reading	Corr. Rdng.	Part. Size	% Passing
2 minutes	20.0	1.0160	1.011	0.0406	43.5060762
5 minutes	20.0	1.0140	1.009	0.0262	35.4791249
15 minutes	20.0	1.0120	1.007	0.0154	27.4521735
30 minutes	20.0	1.0105	1.005	0.0111	21.43196
60 minutes	20.0	1.0100	1.005	0.0079	19.4252222
250 minutes	20.0	1.0085	1.003	0.0039	13.4050087
1440 minutes	20.0	1.0070	1.002	0.0016	7.38479522


6339375
Particle Size Distribution
Clay
Silt
Sand
Fine
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339376 Date: 7.13.11 Init./Emp. #: SW2441 Batch #: 111947103O1A

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.15	539.15
1.5 Inch	559.67	559.67
0.75 Inch	556.45	556.45
#4	447.16	446.28
#6	521.66	518.99
#8	441.16	429.62
PAN	657.87	438.94

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 73A

Prep. sple description:

Comments:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	373.15	368.32
#30	296.05	291.43
#50	265.51	264.04
#100	230.19	229.45
#200	221.89	220.91
PAN	439.82	438.95

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0888	5.0014	5.9567

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
58.5495	12.7847	106.8178

Hydrometer Readings Sample Wt. 50.00 Hydrometer ID #: 372418

Time	Temp	Reading	Comments
2 minutes	20°	1.013	
5 minutes	20	1.012	
15 minutes	20°	1.010	
30 minutes	20°	1.0085	
60 minutes	20°	1.007	
250 minutes	20°	1.0065	
1440 minutes	20°	1.005	

Foam:

Org. matter:

Oven ID#: 1171

Oven Temp In: USF83 3841

Oven Temp Out:

Verified by: KAB/7/27 Date: 7/22/11

Issued by Dept. 4029 Management
3606.05

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339376	07/13/11	LMG/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.62		4.75
98.48		3.35
93.55		2.36
84.27		1.18
75.39		0.6
72.56		0.3
71.14		0.15
69.25	*	0.075
28.26	*	0.04088
24.66	***	0.02606
17.45	**	0.01538
12.04	**	0.01107
10.24	**	0.00783
4.83	**	0.00390
-0.58	**	0.00164

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.388476
-1.584105
-1.812941
-1.955674
-2.106187
-2.408569
-2.784391

Line 1 Regression Output:	
Constant	177.8641058
Std Err of Y Est	12.5250201
R Squared	0.8721879
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	100.4072976
Std Err of Coef.	38.4367046

Line 2 Regression Output:	
Constant	54.1749717
Std Err of Y Est	2.0979724
R Squared	0.9560578
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	20.2669578
Std Err of Coef.	2.1724886

Particle Size	Calculated % Passing	
0.064	61	+ 58.00
0.05	41.5	+ 47.23
0.02	21	++ 19.74
0.005	7	++ 7.54
0.002	0.5	++ -0.52
0.001	0	++ -6.63

MLG/1124 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339376	07/13/11	LMG/239

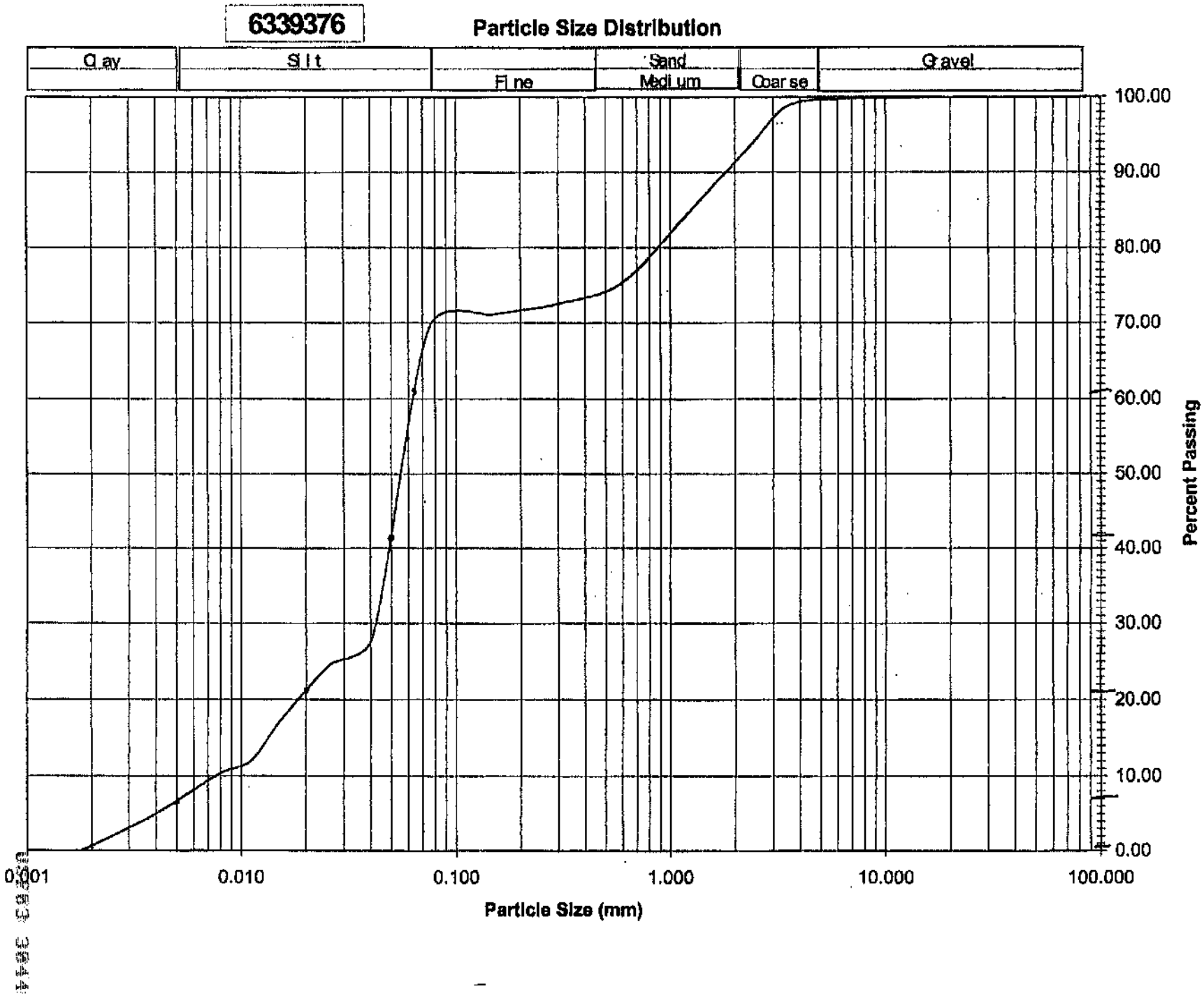
Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.15	539.15	0.00	100
1.5 inch	559.67	559.67	0.00	100
0.75 inch	556.45	556.45	0.00	100
# 4	447.16	446.28	0.88	99.6239638
# 6	521.66	518.99	2.67	98.4830356
# 8	441.16	429.62	11.54	93.5518332
PAN	657.87	438.94	218.93	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	373.15	368.32	4.83	84.2668874
# 30	296.05	291.43	4.62	75.385635
# 50	265.51	264.04	1.47	72.5597819
# 100	230.19	229.45	0.74	71.1372437
# 200	221.89	220.91	0.98	69.2533416
PAN	439.82	438.95	0.87	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0888	5.0014	5.9567	0.9733

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
58.5495	12.7847	106.8178	94.0331	5.9669	2.1426

Hydrometer Readings Time	Sample Weight Temp	50.00 Reading	Hydrometer #: 372418 Corr. Rdng.	Part. Size	% Passing
2 minutes	20.0	1.0130	1.008	0.0409	28.2614595
5 minutes	20.0	1.0120	1.007	0.0261	24.6566815
15 minutes	20.0	1.0100	1.005	0.0154	17.4471255
30 minutes	20.0	1.0085	1.003	0.0111	12.0399585
60 minutes	20.0	1.0080	1.003	0.0078	10.2375695
250 minutes	20.0	1.0065	1.001	0.0039	4.83040252
1440 minutes	20.0	1.0050	1.000	0.0016	-0.5767645


6339376
Particle Size Distribution
Clay
Silt
Fine
Sand
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339377 BK Date: 7.13.11 (mg/1237.13.11) Init./Emp. #: SLL 24441 mg/1237 Batch #: 111947103018

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.11	539.11
1.5 Inch	559.64	559.64
0.75 Inch	556.47	556.47
#4	446.85	446.26
#6	519.23	519.93
#8	430.83	429.62
PAN	886.17	438.91

Time: 2100

Dried Organic Matter: _____

Odor: _____

Bottle code: 73A

Prep. sple description: _____

Comments: _____

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.33	368.30
#30	291.53	291.41
#50	264.22	264.04
#100	229.65	229.45
#200	221.40	220.92
PAN	439.07	438.89

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.1022	5.0039	5.8642

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
58.9863	9.3339	104.5348

Hydrometer Readings Sample Wt. 50.02 (mg/1237.19.11@) Hydrometer ID #: 372418

Time	Temp	Reading	Comments
2 minutes	20°	~~1.0225~~ 1.0225	
5 minutes	20°	1.021	
15 minutes	20°	1.020	
30 minutes	20°	~~1.018~~ 1.018	
60 minutes	20° (mg/1237.19.11@)	1.0165	
250 minutes	20	~~1.0095~~ 1015 1.0025	
1440 minutes	20°	1.0125	

Foam: _____

Org. matter: _____

Oven ID#: 1171

Oven Temp In: _____ 0SF83 3845

Oven Temp Out: _____

Verified by: KAB/957 Date: 7/22/11

Issued by Dept. 4029 Management
3606.05

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339377	07/13/11	LMG/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.87		4.75
99.80		3.35
99.53		2.36
99.47		1.18
99.22		0.6
98.84		0.3
98.42		0.15
97.42	*	0.075
74.67	*	0.03916
68.21	***	0.02500
63.90	**	0.01464
55.29	**	0.01058
48.83	**	0.00767
42.37	**	0.00379
31.61	**	0.00163

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.407172
-1.602041
-1.834598
-1.975460
-2.114934
-2.421266
-2.787796

Line 1 Regression Output:	
Constant	166.3832835
Std Err of Y Est	4.4434715
R Squared	0.9580734
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	62.6132912
Std Err of Coef.	13.0982125

Line 2 Regression Output:	
Constant	119.0003866
Std Err of Y Est	2.3068268
R Squared	0.9771930
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	31.7044893
Std Err of Coef.	2.4217778

Particle Size	Calculated	% Passing
0.064 93	+	91.63
0.05 83	+	84.92
0.02 67	++	65.14
0.005 45	++	46.05
0.002 34	++	33.43
0.001 25	++	23.89

MLG/1124 7/22/11

9465 6339377

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339377	07/13/11	LMG/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.11	539.11	0.00	100
1.5 inch	559.64	559.64	0.00	100
0.75 inch	556.47	556.47	0.00	100
# 4	446.85	446.26	0.59	99.8687022
# 6	519.23	518.93	0.30	99.8019405
# 8	430.83	429.62	1.21	99.5326687
PAN	886.17	438.91	447.26	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.33	368.30	0.03	99.4699405
# 30	291.53	291.41	0.12	99.219028
# 50	264.22	264.04	0.18	98.8426591
# 100	229.65	229.45	0.20	98.4244715
# 200	221.40	220.92	0.48	97.4208211
PAN	439.07	438.89	0.18	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.1022	5.0039	5.8642	0.9517

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
58.9863	9.3390	104.5348	95.1958	4.8042	1.9439

Hydrometer Readings	Sample Weight	50.02	Hydrometer #:	372418	
Time	Temp	Reading	Corr. Rdng.	Part. Size	% Passing
2 minutes	20.0	1.0225	1.017	0.0392	74.6676568
5 minutes	20.0	1.0210	1.016	0.0250	68.2085169
15 minutes	20.0	1.0200	1.015	0.0146	63.9024237
30 minutes	20.0	1.0180	1.013	0.0106	55.2902372
60 minutes	20.0	1.0165	1.011	0.0077	48.8310974
250 minutes	20.0	1.0150	1.010	0.0038	42.3719575
1440 minutes	20.0	1.0125	1.007	0.0016	31.6067244

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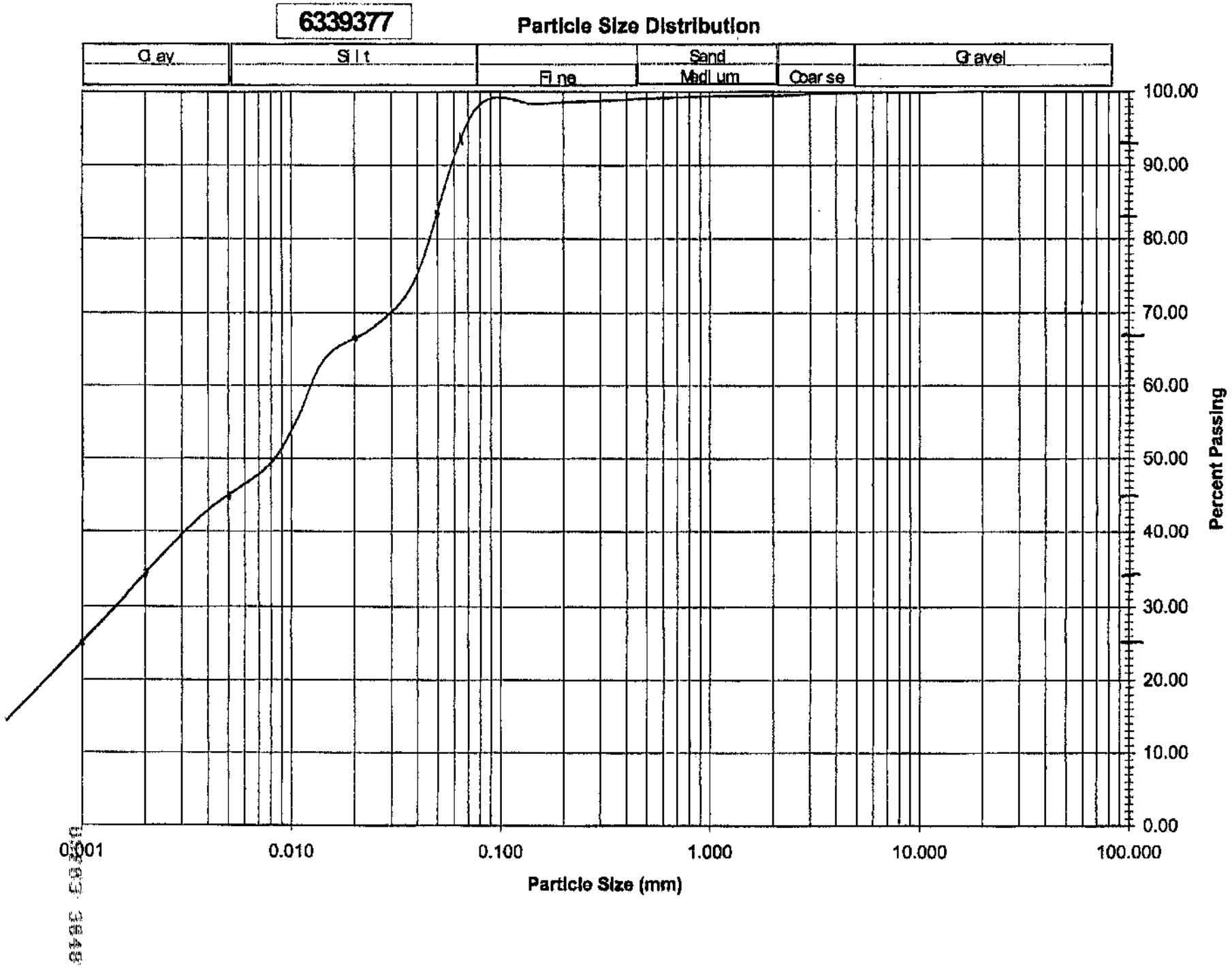
6339377
Particle Size Distribution
Clay
Silt
Fine
Sand
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339380 Dup Date: 7.13.11 Init./Emp. #: SW/7441 Song/237 Batch #: 111947103018

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.11	539.11
1.5 Inch	559.64	559.64
0.75 Inch	556.47	556.47
#4	446.85	446.26
#6	519.23	518.93
#8	430.83	429.62
PAN	880.17	438.91

Time: 2100

Dried Organic Matter: _____

Odor: _____

Bottle code: 73A

Prep. sple description: _____

Comments: _____

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.40	368.29
#30	291.53	291.42
#50	264.23	263.99
#100	229.69	229.44
#200	221.47	220.99
PAN	439.06	438.89

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0964	5.0085	5.9312

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
65.3044	9.9763	105.6724

Hydrometer Readings Sample Wt. 50.06 Hydrometer ID #: 372418

Time	Temp	Reading	Comments
2 minutes	20°	1.0245	
5 minutes	20°	1.022	
15 minutes	20°	1.020	
30 minutes	20°	1.018	
60 minutes	20°	1.0165	
250 minutes	20°	1.015	
1440 minutes	20°	1.012	

Foam: _____

Org. matter: _____

Oven ID#: 1171

Oven Temp In: _____

Oven Temp Out: _____

USF93 3849

Verified by: KAB/957 Date: 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339380	07/13/11	LMG/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.87		4.75
99.80		3.35
99.53		2.36
99.30		1.18
99.07		0.6
98.62		0.3
98.11		0.15
97.12	*	0.075
70.68	*	0.03433
61.54	***	0.02225
54.23	**	0.01315
46.92	**	0.00951
41.44	**	0.00689
35.96	**	0.00341
25.00	**	0.00146

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.464318
-1.652690
-1.881149
-2.022011
-2.161485
-2.467817
-2.834345

Line 1 Regression Output:	
Constant	173.5329264
Std Err of Y Est	2.8693829
R Squared	0.9879401
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	68.6627032
Std Err of Coef.	7.5862607

Line 2 Regression Output:	
Constant	110.1640099
Std Err of Y Est	2.1257030
R Squared	0.9788122
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	30.4073950
Std Err of Coef.	2.2368791

Particle Size	Calculated	% Passing
0.064 93	+	91.56
0.05 84	+	84.20
0.02 60	++	58.50
0.005 39	++	40.20
0.002 29	++	28.10
0.001 20	++	18.94

MLG/1124 7/22/11

6339 CSHSA

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339380	07/13/11	LMG/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.11	539.11	0.00	100
1.5 inch	559.64	559.64	0.00	100
0.75 inch	556.47	556.47	0.00	100
# 4	446.85	446.26	0.59	99.8669253
# 6	519.23	518.93	0.30	99.7992602
# 8	430.83	429.62	1.21	99.5263443
PAN	880.17	438.91	441.26	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.40	368.29	0.11	99.2997917
# 30	291.53	291.42	0.11	99.0732391
# 50	264.21	263.99	0.22	98.6201339
# 100	229.69	229.44	0.25	98.1052416
# 200	221.47	220.99	0.48	97.1166484
PAN	439.06	438.89	0.17	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0964	5.0085	5.9312	0.9653

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
65.3044	9.9763	105.6224	95.6461	4.3539	2.2913

Hydrometer Readings Time	Sample Weight Temp	50.06 Reading	Hydrometer #: Corr. Rdng.	372418 Part. Size	% Passing
2 minutes	20.0	1.0245	1.019	0.0343	70.6774061
5 minutes	20.0	1.0220	1.017	0.0222	61.5412367
15 minutes	20.0	1.0200	1.015	0.0131	54.2323012
30 minutes	20.0	1.0180	1.013	0.0095	46.9233658
60 minutes	20.0	1.0165	1.011	0.0069	41.4416641
250 minutes	20.0	1.0150	1.010	0.0034	35.9599625
1440 minutes	20.0	1.0120	1.007	0.0015	24.9965593

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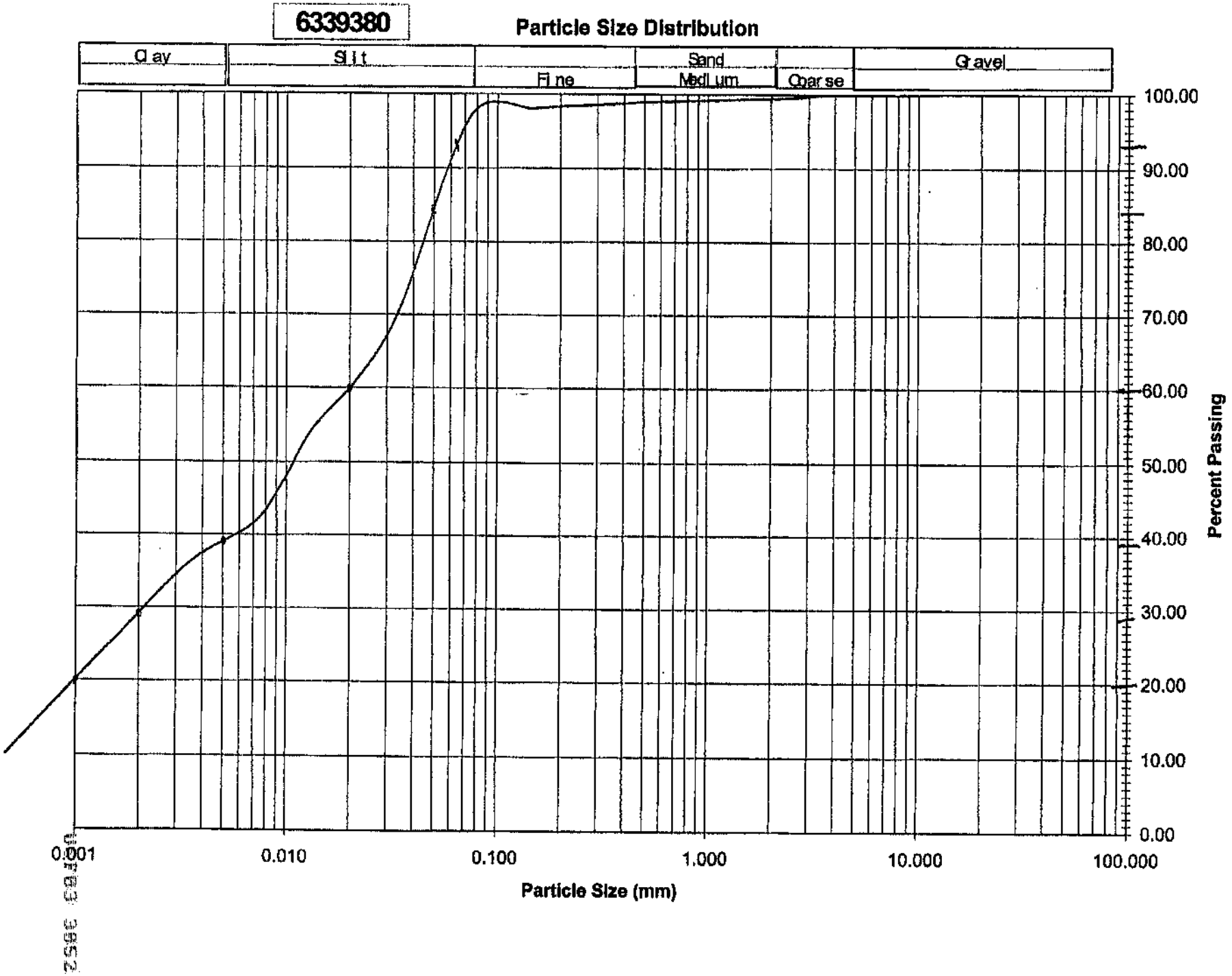

6339380
Particle Size Distribution
Clay
Silt
Sand
Fine
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339385 Date: 7-13-11 Init./Emp. #: SW/2441 mg/237 Batch #: 111942/0301R

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.10	539.16
1.5 Inch	559.67	559.67
0.75 Inch	556.50	556.50
#4	446.28	446.25
#6	519.45	518.91
#8	431.82	429.62
PAN	644.54	438.82

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 73A

Prep. sple description:

Comments:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.60	368.30
#30	291.92	291.46
#50	264.39	263.99
#100	229.89	229.42
#200	221.68	220.91
PAN	439.03	438.90

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0981	5.0081	5.8540

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
89.4792	11.2121	105.3475

Hydrometer Readings Sample Wt. 50.28 Hydrometer ID #: 372418

Time	Temp	Reading	Comments
2 minutes	30°	1.0205	
5 minutes	30°	1.0195	
15 minutes	30°	1.017	
30 minutes	20° mg/237	1.015	
60 minutes	30° 7-14-11	~~1.014~~ 1.014	
250 minutes	20°	~~1.014~~ 1.012	
1440 minutes	20°	1.008	

Foam:

Org. matter:

Oven ID#: 1171

Oven Temp In: USP#3 3853

Oven Temp Out:

Verified by: KAB/957 Date: 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339385	07/13/11	LMG/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.99		4.75
99.73		3.35
98.67		2.36
98.05		1.18
97.10		0.6
96.27		0.3
95.30		0.15
93.71	*	0.075
66.52	*	0.04046
57.85	***	0.02616
51.34	**	0.01530
42.67	**	0.01105
38.33	**	0.00791
29.66	**	0.00395
12.32	**	0.00171

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.393011
-1.582327
-1.815294
-1.956797
-2.102079
-2.403523
-2.766226

Line 1 Regression Output:	
Constant	181.9482467
Std Err of Y Est	5.0137782
R Squared	0.9640977
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	79.9390385
Std Err of Coef.	15.4262220

Line 2 Regression Output:	
Constant	118.6501451
Std Err of Y Est	1.8067963
R Squared	0.9901087
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	37.9951394
Std Err of Coef.	1.6988181

Particle Size	Calculated	% Passing
0.064 89	+	86.52
0.05 77	+	77.95
0.02 55	++	54.10
0.005 33	++	31.22
0.002 17	++	16.10
0.001 0	++	4.66

MLG/1124 7/22/11

4588 6339385

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339385	07/13/11	LMG/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.10	539.10	0.00	100
1.5 inch	559.67	559.67	0.00	100
0.75 inch	556.50	556.50	0.00	100
# 4	446.28	446.25	0.03	99.9856108
# 6	519.45	518.91	0.54	99.7266056
# 8	431.82	429.62	2.20	98.6713991
PAN	644.54	438.82	205.72	

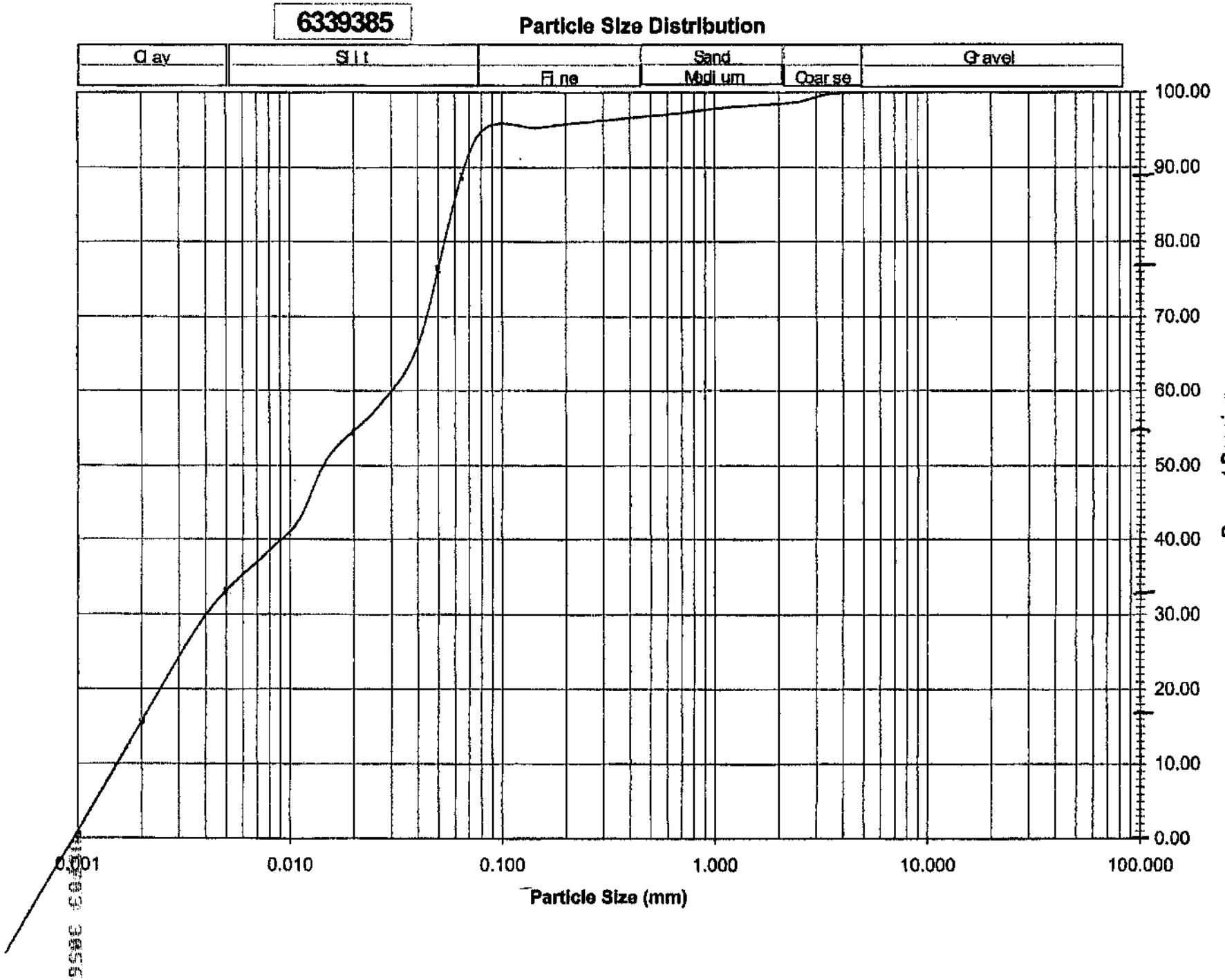
Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.60	368.30	0.30	98.0509543
# 30	291.92	291.46	0.46	97.0996055
# 50	264.39	263.99	0.40	96.2723457
# 100	229.89	229.42	0.47	95.3003154
# 200	221.68	220.91	0.77	93.7078403
PAN	439.03	438.90	0.13	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0981	5.0081	5.8540	0.9496

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
59.4792	11.2121	105.3475	94.1354	5.8646	1.9118

Hydrometer Readings Time	Sample Weight Temp	50.24 Reading	Hydrometer #: 372418 Corr. Rdng.	 Part. Size	 % Passing
2 minutes	20.0	1.0205	1.015	0.0405	66.5186555
5 minutes	20.0	1.0185	1.013	0.0262	57.8460798
15 minutes	20.0	1.0170	1.012	0.0153	51.341648
30 minutes	20.0	1.0150	1.010	0.0110	42.6690723
60 minutes	20.0	1.0140	1.009	0.0079	38.3327845
250 minutes	20.0	1.0120	1.007	0.0039	29.6602088
1440 minutes	20.0	1.0080	1.003	0.0017	12.3150575

SSBC 6339385


6339385
Particle Size Distribution
Clay
Silt
Fine
Sand
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339386 Date: 7/13/11 Init./Emp. #: SW2441 Jmg1229 Batch #: 111947103010A

Pan Balance ID#: 9458

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.08	539.08
1.5 Inch	559.69	559.69
0.75 Inch	556.52	556.52
#4	446.31	446.29
#6	519.34	518.95
#8	432.39	429.58
PAN	678.99	439.00

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 73A

Prep. sple description:

Comments:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	368.47	368.24
#30	292.08	291.44
#50	264.62	264.00
#100	230.01	229.45
#200	223.41	220.91
PAN	441.72	438.88

Analytical Balance ID#: 12682

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0800	5.0083	5.9594

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
59.1406	11.5310	106.4875

Hydrometer Readings Sample Wt. 50.30 Hydrometer ID #: 3724H

Time	Temp	Reading	Comments
2 minutes	20°	1.0125	
5 minutes	20°	1.0110	
15 minutes	20°	1.010	
30 minutes	20°	1.0085	
60 minutes	20°	1.008	
250 minutes	20°	1.007	
1440 minutes	20°	1.005	

Foam:

Org. matter:

Oven ID#: 1171

Oven Temp In:

Oven Temp Out:

USF83 3857

Verified by: KAB/957 Date: 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339386	07/13/11	LMG/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
99.99		4.75
99.83		3.35
98.68		2.36
98.41		1.18
97.13		0.6
95.88		0.3
94.75		0.15
89.72	*	0.075
26.27	*	0.03936
20.90	***	0.02518
17.32	**	0.01470
11.95	**	0.01058
10.16	**	0.00748
6.59	**	0.00369
-0.57	**	0.00157

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.404968
-1.599020
-1.832773
-1.975506
-2.126019
-2.432876
-2.804223

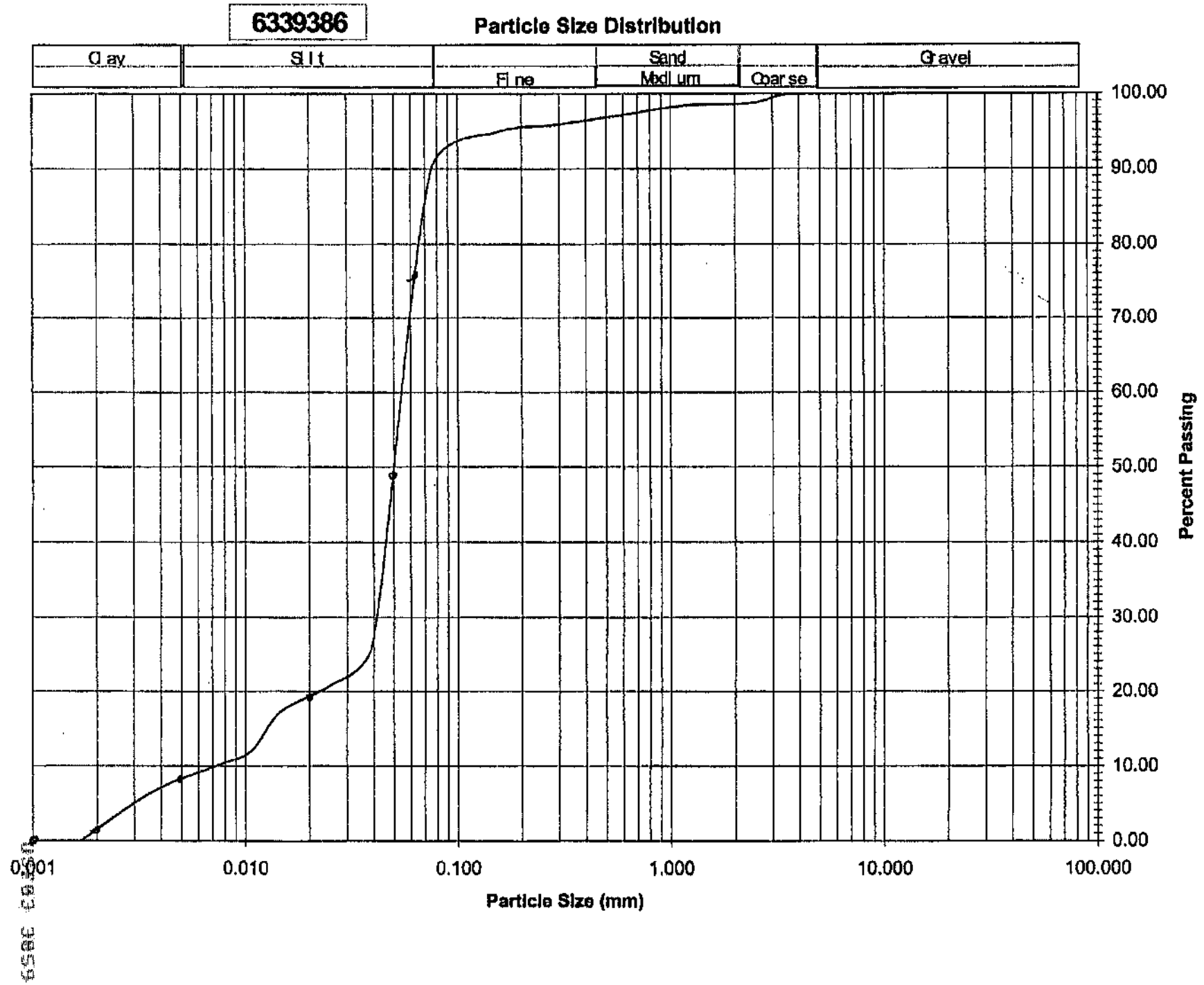
Line 1 Regression Output:	
Constant	253.3202935
Std Err of Y Est	18.5139321
R Squared	0.8830105
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	150.9047055
Std Err of Coef.	54.9279288

Line 2 Regression Output:	
Constant	48.2187480
Std Err of Y Est	1.2586663
R Squared	0.9783725
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	17.4589850
Std Err of Coef.	1.2978953

Particle Size	Calculated	% Passing
0.064	76 +	73.17
0.05	49 +	56.99
0.02	19.5 ++	18.56
0.005	8.5 ++	8.05
0.002	1 ++	1.10
0.001	0 ++	-4.16

KAB 937 7/22/11

6339386


6339386
Particle Size Distribution
Clay
Silt
Fine
Sand
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339386	07/13/11	LMG/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.08	539.08	0.00	100
1.5 inch	559.69	559.69	0.00	100
0.75 inch	556.52	556.52	0.00	100
# 4	446.31	446.29	0.02	99.9917767
# 6	519.34	518.95	0.39	99.8314214
# 8	432.39	429.58	2.81	98.6760413
PAN	678.99	439.00	239.99	

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	368.47	368.34	0.13	98.4142766
# 30	292.08	291.44	0.64	97.1255891
# 50	264.62	264.00	0.62	95.8771731
# 100	230.01	229.45	0.56	94.7495715
# 200	223.41	220.91	2.50	89.7156359
PAN	441.72	438.88	2.84	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0800	5.0083	5.9594	0.9743

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
59.1406	11.5310	106.4875	94.9565	5.0435	2.2863

Hydrometer Readings Time	Sample Weight Temp	50.30 Reading	Hydrometer #: 372418 Corr. Rdng.	 Part. Size	 % Passing
2 minutes	20.0	1.0125	1.007	0.0394	26.2695908
5 minutes	20.0	1.0110	1.006	0.0252	20.9011458
15 minutes	20.0	1.0100	1.005	0.0147	17.3221825
30 minutes	20.0	1.0085	1.003	0.0106	11.9537375
60 minutes	20.0	1.0080	1.003	0.0075	10.1642558
250 minutes	20.0	1.0070	1.002	0.0037	6.58529251
1440 minutes	20.0	1.0050	1.000	0.0016	-0.5726341

ESE 5815

Lancaster Laboratories

#7103 Particle Size Distribution

Sample: 6339387 Date: 7.13.11 Init./Emp. #: SW/2441 Batch #: 111947103011

Pan Balance ID#: 9456

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
3 Inch	539.13	539.13
1.5 Inch	559.68	559.68
0.75 Inch	556.57	556.57
#4	461.01	446.30
#6	532.09	518.81
#8	444.16	429.72
PAN	627.14	438.85

Time: 2100

Dried Organic Matter:

Odor:

Bottle code: 73A

Prep. sple description:

Comments:

Sieve Size (Mr)	Tare + Sample Wt.	Tare Weight
#16	369.77	368.34
#30	293.89	291.38
#50	265.29	264.03
#100	230.39	229.50
#200	224.34	220.95
PAN	441.66	438.87

Analytical Balance ID#: 16862

Moisture

Tare Weight	Sample Weight	Oven Dry Weight
1.0935	5.0021	5.8720

Bulk Density

Tare Weight	Sample Weight	DI H_2O + Sple Wt.
~~109.8817~~		
59.2944	14.2531	107.7801

Hydrometer Readings Sample Wt. 50.28 Hydrometer ID #: 372413

Time	Temp	Reading	Comments
2 minutes	20°	1.013	
5 minutes	20°	1.0105	
15 minutes	20°	1.009	
30 minutes	20°	1.008	
60 minutes	20°	1.0075	
250 minutes	20°	1.006	
1440 minutes	20°	1.005	

Foam:

Org. matter:

Oven ID#: 1171

Oven Temp In:

Oven Temp Out:

USF83 3661

Verified by: KAB/957 Date: 7/22/11

Particle Size Distribution

Sample:	Date:	Init/Emp #
6339387	07/13/11	lmg/239

Percent Passing		Particle Size
100.00		75
100.00		37.5
100.00		19
93.62		4.75
87.87		3.35
81.61		2.36
79.18		1.18
74.92		0.6
72.77		0.3
71.26		0.15
65.50	*	0.075
25.68	*	0.04013
17.90	***	0.02615
13.23	**	0.01521
10.12	**	0.01087
8.56	**	0.00774
3.89	**	0.00383
0.78	**	0.00161

* Used for line 1
** Used for line 2
*** Used for lines 1 and 2
\+ Calculated from line 1
++ Calculated from line 2

Log(particle size)
-1.124939
-1.396554
-1.582461
-1.817872
-1.963750
-2.111229
-2.416645
-2.792469

Line 1 Regression Output:	
Constant	182.9654400
Std Err of Y Est	9.3854942
R Squared	0.9324598
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	107.1689653
Std Err of Coef.	28.8426385

Line 2 Regression Output:	
Constant	38.7801225
Std Err of Y Est	1.1918679
R Squared	0.9704296
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	14.0494490
Std Err of Coef.	1.2262411

Particle Size	Calculated % Passing		
0.064	57	+	55.02
0.05	40	+	43.54
0.02	15	++	14.91
0.005	5.5	++	6.45
0.002	1	++	0.86
0.001	0	++	-3.37

KMB/757 7/22/11

2985 6339387

Particle Size Distribution

Sample:	Date:	Init/Smp #
6339387	07/13/11	lmg/239

Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
3 inch	539.13	539.13	0.00	100
1.5 inch	559.68	559.68	0.00	100
0.75 inch	556.57	556.57	0.00	100
# 4	461.01	446.30	14.71	93.62430652
# 6	532.09	518.81	13.28	87.86841193
# 8	444.16	429.72	14.44	81.60974341
PAN	627.14	438.85	188.29	

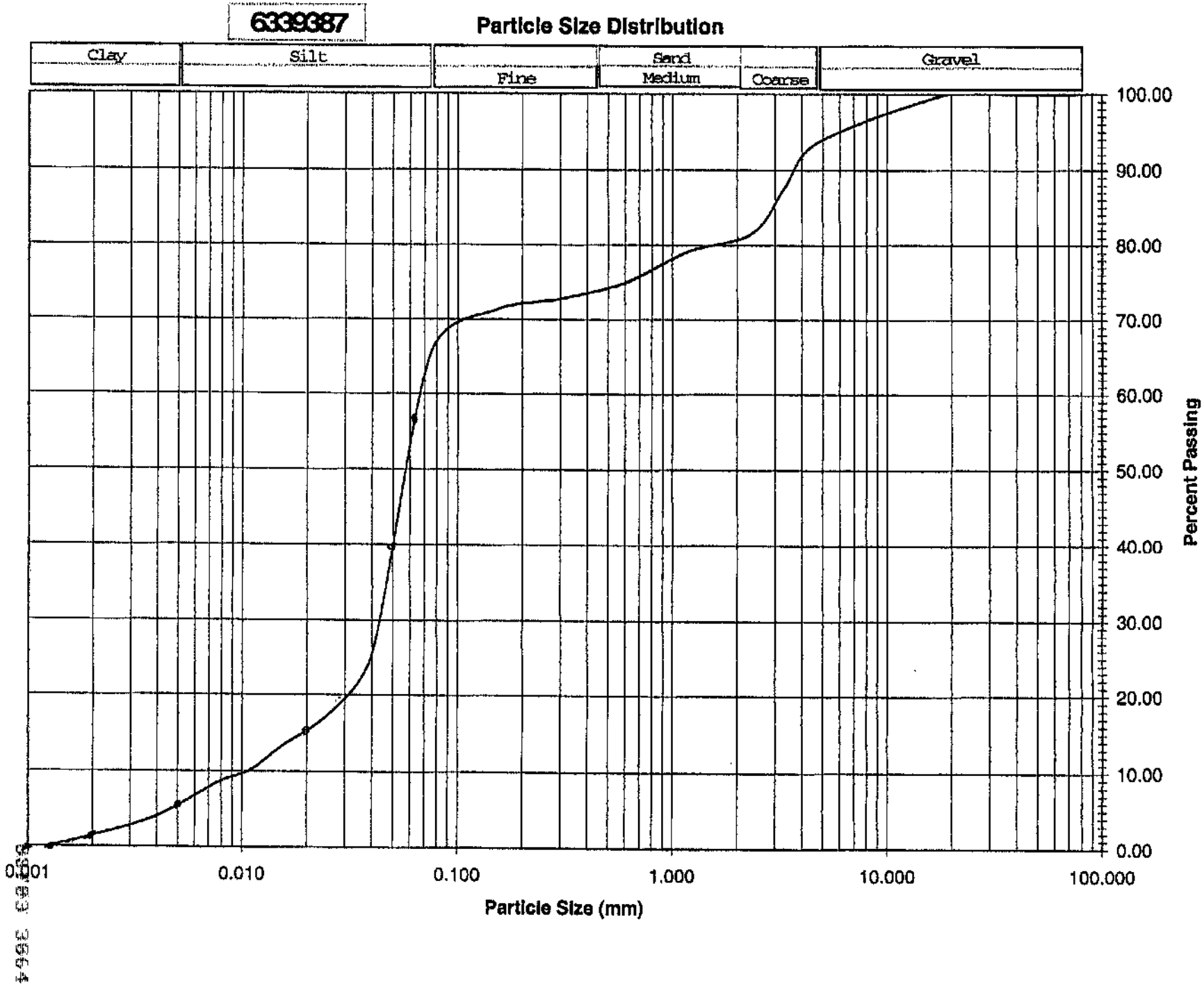
Sieve Size (Mr)	Tare + Smp. Wt.	Tare Weight	Diff. (Mr)	% Passing
# 16	369.77	368.34	1.43	79.18009429
# 30	293.89	291.38	2.51	74.9154654
# 50	265.29	264.03	1.26	72.77465568
# 100	230.39	229.50	0.89	71.26249643
# 200	224.34	220.95	3.39	65.50269885
PAN	441.66	438.87	2.79	

Moisture Tare Weight	Sample Weight	Oven Dry Weight	Ratio
1.0935	5.0021	5.8720	0.9553

Bulk Density Tare Weight	Sample Weight	DI H2O + Smp. Wt.	Vol H2O	Vol Soil	Result
59.2944	14.2531	107.7801	93.5270	6.4730	2.2019

Hydrometer Readings	Sample Weight	50.28	Hydrometer #:		
Time	Temp	Reading	Corr. Rdng.	Part. Size	% Passing
2 minutes	20.0	1.0130	1.008	0.0401	25.67944447
5 minutes	20.0	1.0105	1.006	0.0262	17.89779463
15 minutes	20.0	1.0090	1.004	0.0152	13.22880473
30 minutes	20.0	1.0080	1.003	0.0109	10.11614479
60 minutes	20.0	1.0075	1.003	0.0077	8.559814824
250 minutes	20.0	1.0060	1.001	0.0038	3.89082492
1440 minutes	20.0	1.0050	1.000	0.0016	0.778164984

ESSE 3853


6339387
Particle Size Distribution
Clay
Silt
Sand
Fine
Medium
Coarse
Gravel
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Percent Passing
0.001
0.010
0.100
1.000
10.000
100.000
Particle Size (mm)

Lancaster Laboratories

Raw Data Logbook

Oxidation Reduction Potential 1821/7552

Std Ref (Book/pg): Zobell's Soln Lot# 3 102850 Analysis #: 1821

Batch # 1 1 1 9 4 | 1 8 2 1 | 0 +3 A

#3 mV Inst 7-13-11

Date: 7-13-11 Inst. #: 16329
Time: 1145 Analyst: mv Inst LOQ = 10.0

	Sample Number	mV Rdg Trial 1	mV Rdg Trial 2	mV Rdg Average	Calc. Value (mV)	Batch Letter	BC	Comments
1	LCS (427)	219	219	219	418	—	—	98%
2	6338530	188	188	188	387	A	OSP	
3	↓ D	187	187	187	386			R= 0 (1)
4	6338531	181	181	181	380			
5	6338532	179	179	179	378			
6	6338533	179	179	179	378			
7	6338534	179	179	178.5	377.5			
8	6338535	180	180	180	379			
9	6339368	171	172	171.5	370.5		21P	
10	6339369	181	181	181	380			
11	6339370	204	204	204	403			
12	CCV (427)	220	220	220	419	—	—	98%
13	6338571	191	190	190.5	389.5	B	21P	
14	6338572	188	188	188	387			
15	6338573	193	193	193	392			
16	6338574	208	210	209	408			
17	6338575	244	245	244.5	443.5			
18	6338576	250	250	250	449			
19	6338577	291	291	291	490			
20	6338580 D	290	291	290.5	489.5			R= 0 (1)
21	6338585	268	267	267.5	466.5			
22	6338586	267	265	266	465			
23	CCV (427)	220	220	220	419	—	—	98%
24	6338587	178	179	178.5	377.5	B	21P	
25	CCV (427)	220	220	220	419	—	—	98%
26								
27								
28								
29								
30								

Verified by: KAB 7/20/11 Date: 7/20/11 HSF03 3865

Lancaster Laboratories

Raw Data Logbook
Solid pH (Analysis #0394)
Corrosivity (Analysis #0496)

soln C Ref (Book/pg): a 10204 -1-2013 Balance ID#: lab10

Batch # 1 1 1 9 4 | 0 3 9 | 4 0 2 A

Date: 7-13-11 Inst #: 11224
Time: 1110 Upld Date: 7-13-11
Analyst: mm/ms Upld by: mm/ms

	Sample Number	Sample Wt. (g)	DI H_2O Wt. (g)	Reading	LOQ	Std. True Value	QC#	Temp (°C)	Batch Letter	Comments
1	LCS	—	—	6.87	0.01	6.86	1	24.1	—	(NDS)
2	6339264U	25	25	6.94	0.01			23.0	A	21P
3	↓ D	↓	↓	6.94	0.01			23.0	↓	↓ RPD
4	6338265			6.87	0.01			23.6		
5	6339268			6.89	0.01			22.9		
6	6339269			6.90	0.01			25.4		
7	6339270			6.44	0.01			25.2		
8	6339271			6.15	0.01			21.8		
9	6339272			6.91	0.01			22.8		
10	6339273			6.96	0.01			23.0		
11	6339275M	↓	↓	6.91	0.01			23.0	↓	↓
12	CCV	—	—	6.87	0.01	6.86	1	23.6	—	(100 %)
13	6339275S	25	25	6.73	0.01			22.9	B	21P
14	6339276			7.13	0.01			22.7		
15	6339277U			6.56	0.01			22.7		
16	6339280D			6.56	0.01			22.7		RPD 0 (4)
17	6339285			7.12	0.01			22.7		
18	6339286			6.79	0.01			22.7		
19	6339287	↓	↓	7.24	0.01			22.7	↓	
20	CCV	—	—	6.85	0.01	6.86	1	23.7	—	(100 %)
21					0.01					
22					0.01					
23					0.01					
24					0.01					
25					0.01					
26					0.01					
27					0.01					
28					0.01					
29					0.01					
30					0.01					
31					0.01					

Verified by: KAB 7/20/11 Date: 7/20/11

USF83 3966

Moisture Data

USFB3 3067

Lancaster Laboratories

CLIENT: URS Corporation
SDG: USF03

MOISTURE

SAMPLE NUMBERS:

Sample #	Sample Code
6339368	15S05
6339369	16S-5
6339370	17S05
6339371	18S05
6339372	19S05
6339373	20S05
6339374	21S05
6339375	74S05
6339376	74S45
6339377	82S05BKG
6339378	82S05MS
6339379	82S05MSD
6339380	82S05DUP
6339381	82S05SS
6339382	82S05IS
6339383	82S05PDS
6339384	82S05RLQ
6339385	82S40
6339386	87S05
6339387	87S40

COMMENTS:

Laboratory Compliance Quality Control

Analysis Name	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11191820001A	Sample number(s): 6339368-6339387				
Moisture	100	100	99-101	0	1
Moisture	100	100	99-101	0	1
Moisture Duplicate	100	100	99-101	0	1

Sample Matrix Quality Control

Analysis Name	BKG Conc	DUP Conc	RPD	RPD Max
Batch number: 11191820001A	Sample number(s): 6339368-6339387			
Moisture	7.3	7.3	1	15
Moisture Duplicate	7.3	7.3	1	15
Moisture	7.3	7.3	1	15

* - Outside of specification
(1) - The result for one or both determinations was less than five times the LOQ.

USF03 3868

Moisture Data Report

Batch #: 11191820001

Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
LCS 89.5% Std.			1.0820	5.0058	1.6091	89.47	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339368	A	00111	1.1329	6.2880	7.1457	4.38	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339369	A	00111	1.0551	6.1538	7.0270	2.96	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339370	A	00111	1.0745	6.5062	7.1562	6.52	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339371	A	00111	1.1109	6.1431	6.7869	7.60	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339372	A	00111	1.0593	5.9662	6.6552	6.21	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339373	A	00111	1.1017	6.7180	7.6090	3.14	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339374	A	00111	1.0841	5.9864	6.7254	5.76	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339375	A	00111	1.0689	6.3399	7.1507	4.07	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339376	A	00111	1.0669	8.5685	8.8681	8.95	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339377BKG	A	00111	1.0897	5.9905	6.6452	7.26	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339378MS	A	00118				7.26	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339379MSD	A	00118				7.26	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339380DUP	A	00118				7.26	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339380DUP	A	00121	1.0658	7.4115	7.9337	7.33	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339381SS	A	00118				7.26	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339382IS	A	00118				7.26	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339383PDS	A	00118				7.26	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339384RLQ	A	00118				7.26	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339385	A	00111	1.1090	6.6626	7.1864	8.78	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339386	A	00111	1.0758	6.8569	7.6724	3.80	7/11/11 (0189/WCS)	7/12/11 (0236/CW)
6339387	A	00111	1.1241	5.9454	6.7194	5.89	7/11/11 (0189/WCS)	7/12/11 (0236/CW)

USF03 3869